

14421 Weld County Rd.10 • Ft. Lupton, Colorado 80621. • (303) 857-9999 • FAX (303) 857-0577 • E-MAIL Permitco 1@aol.com

**December 3, 1999** 

Division of Oil, Gas & Mining 1594 W. North Temple, Suite 1210 Box 145801 Salt Lake City, UT 84114-5801

Attn: Lesha Cordova

Re:

**Petroleum Development Corporation** 

Middle Mountain #21-16 1309' FSL and 834' FEL SE SE Sec. 21, T16S - R6E Emery County, Utah

Dear Lesha,

CC:

This letter is to serve as our request for an exception to spacing on the above mentioned location.

The above location was staked at non-standard footages in accordance with the rules and regulations of the Division of Oil, Gas & Mining based on a request by the Forest Service to move the location further from the Joe's Valley Road. Please be advised, however, that Petroleum Development Corporation is the lease holder of all acreage within a 460 foot radius of the subject location. Therefore, we request administrative approval for this exception location.

Thank you for your cooperation.

Sincerely,

PERMITCO INC.

Lisa L. Smith Consultant for:

**Petroleum Development Corporation** 

en & Smith

**Petroleum Development Corporation** 



14421 Weld County Rd.10 • Ft. Lupton, Colorado 80621 • (303) 857-9999 • FAX (303) 857-0577 • E-MAIL Permitco 1@aol.com

**December 3, 1999** 

Division of Oil, Gas & Mining 1594 West North Temple Suite 1210 Salt Lake City, UT 84114-5801

Attn: John Baza

Re:

Petroleum Development Corp.

Middle Mountian #21-16

1309' FSL and 834' FEL

SE SE Sec. 21, T16S - R6E

Emery County, Utah

Dear John,

Enclosed please find three copies of the A.P.D. along with one copy of the Onshore Order No. 1 which has been forwarded to the BLM and U.S. Forest Service.

Please be advised that due to winter weather conditions and road improvements required by the Forest Service, drilling will not commence on this location until early summer, 2000. In addition, Petroleum Development Corporation (PDC) plans to utilize either the Joe's Valley Reservoir or the Miller Flat Reservoir as a water source for drilling purposes. All appropriate permits will be filed with the Utah Division of Water Rights, prior to utilizing this water source.

Please forward approved copies of the A.P.D. to the address shown above. If you should need additional information, please feel free to contact me.

Sincerely,

RECEIVED

DEC - 6 1999

DIVISION OF OIL, GAS & MINING

PERMITCO INC.

Lisa L. Smith Consultant for:

**Petroleum Development Corporation** 

? Smith

Enc.

cc: Petroleum Development Corp. - Bridgeport, WV

FORM 3160-3 (December 1990)

PERMIT NO.

APPROVED BY

Application approval does not warrant or certify that the appli

CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE\* (Other: ations on (ide)

Form approved. Budget Bureau No. 1004-0136 Expires December 31, 1991

001

DEPARTMENT OF THE INTERIOR

_					
ASE	DESIGN.	ATION	AND	SERIAL.	NO
	DD010.11			00.0.00	•••

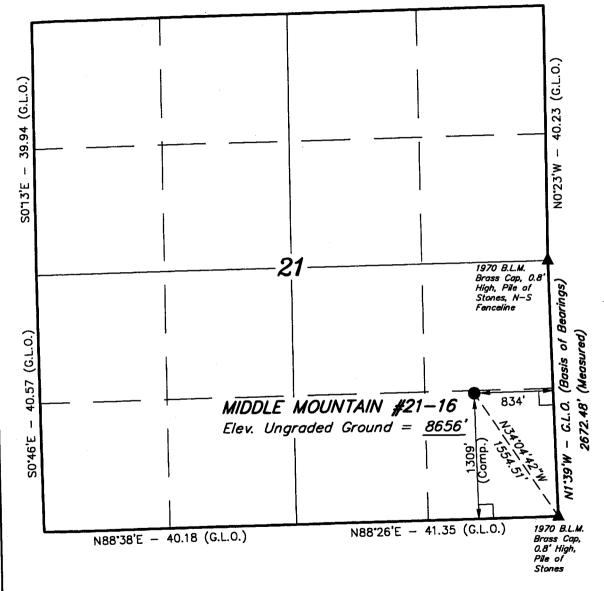
J U I	BUREAU OF LAND MANAGEMENT					
APPLICA	TION FOR PERMIT TO	D DRILL, DEEPE	N, OR PLUG BACK	8	8 N/A	
la. TYPE OF WORK	DRILL X	DEEPEN 🗍		7	. UNIT AGREEMENT NAME	
b. TYPE OF WELL			N/A			
OIL	GAS X OTHER		SINGLE X MULTIF	PLE S	. FARM OR LEASE NAME, WE	ELL NO.
2. NAME OF OPERATOR	Phone: 304/8	342-3597 103	B East Main Street	NE.	Middle Mountai	in #21-16
Petroleum Develop			idgeport, WV 26330	9	. API WELL NO.	
3 ADDRESS AND TELEPHONE	Phone: 303/8	357-9999 144	21 County Road 10			
Permitco Inc.	Fax: 303/	857-0577 Ft.	Lupton, CO 80621	1	0. FIELD AND POOL, OR WILI	DCAT
	Report location clearly and in accordance	with any State requirements.*)	RECEIVED		Wildcat	
At Surface 1309' FSL and S	93 <i>1</i> ' FFI /	118,564E		]1	1. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
	<b>И.</b>	362,337N	DEC - 6 1999			
At proposed prod. zone SE SE Sec. 21, '					Sec. 21, T16S - 1	R6E
14. DISTANCE IN MILES AND	DIRECTION FROM NEAREST TOWN OR	POST OFFICE*	DIVISION OF OIL, GAS & MINING	i 1	2. COUNTY OR PARISH	13. STATE
	1.9 Miles northeast of O				Emery	Utah
<ol> <li>DISTANCE FROM PRO LOCATION TO NEARE</li> </ol>			16. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL	
PROPERTY OR LEASE (Also to nearest drlg. uni	LINE, FT.	834'	7189.23	10	40 Acres	2
8. DISTANCE FROM PRO			19. PROPOSED DEPTH	20. ROT	ARY OR CABLE TOOLS	<u> </u>
TO NEAREST WELL, I OR APPLIED FOR, ON	DRILLING, COMPLETED, THIS LEASE, FT.					
		None	8,400'		Rotary	
21. ELEVATIONS (Show whether 8656'	r DF, RT, GR, etc.)			2	2. APPROX. DATE WORK WIL July 15,	
23.		PROPOSED CASING	AND CEMENTING PROGRAM		July 13,	2000
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEN	MENT
17-1/2"	13-3/8"	48#	120'	167	sxs - circulated to	surface
12-1/4"	9-5/8"	36#	2,700'	531 9	sxs - circulated to	surface
8-3/4"	4-1/2"	11.6#	8,400'		sx - top of cement	
If productive, casi and State of Utah See Onshore Orde Please be advised Petroleum Develo	er No. 1 attached. Contact Petroleum Developoment Corporation agree	vell completed. If one of the complete in the	dry, the well will be plu TIBL - TIGHT is considered to be the	ngged a	nd abandoned as  LE  tor of the above n	per BLM nentioned well
Bond coverage for under separate co	r this well is provided by ever by Petroleum Develor BE PROPOSED PROGRAM: If propos inent data on subsurface locations and m	Petroleum Develo opment Corporation	ve data on present productive zone and Give blowout preventer program, if s	proposed ne	000 Statewide	fc
24.	[015 ma)		Consultant For		_	
SIGNED SIGNED	1 L Smild	TITE	Petroleum Dev	lopment	Corp Date	12/3/99

ghts in the subject lease which would entitle the applicant to conduct operations thereon.

\*See Instructions On Reverse Side

APPROVAL DATE

## T16S, R6E, S.L.B.&M.



## LEGEND:

\_\_ = 90. SAMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

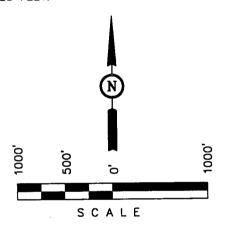
LATITUDE = 39'24'45" LONGITUDE = 111'14'56"

## PETROLEUM DEVELOPMENT CORP.

Well location, MIDDLE MOUNTAIN #21-16, located as shown in the SE 1/4 SE 1/4 of Section 21, T16S, R6E, S.L.B.&M. Emery County Utah.

## BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 21, T16S, R6E, S.L.B.&M. TAKEN FROM THE RILDA CANYON. QUADRANGLE, UTAH, EMERY COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8525 FEET.



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS THE ARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE OF ME OR ANDER SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR REGISTRATION NO. MANY

Revised: 10-14-99 C.B.T.

# UINTAH ENGINEERING & LANDUNG BE SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: DATE DRAWN: 6-17-99 6-24-99		
PARTY D.A. D.R. D.COX	REFERENCES G.L.O. PL/	AT	
WEATHER WARM	FILE PETROLEUM DE	VELOPMENT CORP.	

## **CONFIDENTIAL - TIGHT HOLE**

## **ONSHORE OIL & GAS ORDER NO. 1**

Approval of Operations on Onshore Federal and Indian Oil & Gas Leases

## Middle Mountain #21-16

1309' FSL and 834' FEL SE SE Sec. 21, T16S - R6E Emery County, Utah

## Prepared For:

## PETROLEUM DEVELOPMENT CORPORATION

By:

PERMITCO INC. 14421 County Road 10 Fort Lupton, CO 80621 303/857-9999

## Copies Sent To:

- 3 Bureau of Land Management Moab, UT
- 1 Bureau of Land Management Price, UT
- 1 U.S. Forest Service Price, UT
- Utah Division of Oil, Gas & Mining SLC, UT
- 1- Emery County Planning CastleDale, UT
- 3- Petroleum Development Corporation Bridgeport, WV





## Petroleum Development Corporation

103 East Main Street
P. O. Box 26
Bridgeport, West Virginia 26330

Phone: (304) 842-3597

October 12, 1999

Bureau of Land Management Price Field Office 125 South 600 West Price, UT 84501

Attn: Minerals

Re: Middle Mountain #21-16

**Emery County, Utah** 

## Gentlemen:

This letter is to inform you that Permitco Inc. is authorized to act as Agent and to sign documents on behalf of Petroleum Development Corporation when necessary for filing county, state and federal permits including Onshore Order No. 1, Right of Way applications, etc., for the above mentioned well.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production or compliance with regulations.

Petroleum Development Corporation agrees to accept full responsibility for operations conducted in order to drill, complete and produce the above-mentioned well.

Sincerely,

Eric R. Stearns Vice President

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ONSHORE ORDER NO. 1

Petroleum Development Corporation

Middle Mountain #21-16

1309' FSL and 834' FEL SE SE Sec. 21, T16S - R6E Emery County, Utah Lease No. UTU-77263

CONFIDENTIAL - TIGHT HOLE

**DRILLING PROGRAM** 

Page 1

# ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

## 1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

Formation	Depth	Subsea
North Hom	Surface	+8,641'
Price River	251'	+8,390'
Castlegate Sandstone	941'	+7,700'
Blackhawk Sandstone	1,241'	+7,400'
Star Point Sandstone	2,266'	+6,375'
Mancos Shale	2,641'	+6,000'
Emery Sandstone	3,811'	+4,830'
Blue Gate Shale	4,911'	+3,730'
Ferron Sandstone Upper Bench	7,141'	+1,500'
Ferron Sandstone Lower Bench	7,501'	+1,140'
Tununk Shale	7,606'	+1,035'
Dakota Sandstone	8,121'	+ 520'
Morrison Sandstone	8,246'	+ 395'
T.D.	8,400'	+ 241'



ONSHORE ORDER NO. 1 — ONFIDENTIAL - TIGHT HOLE

Petroleum Development Corporation

Middle Mountain #21-16

1309' FSL and 834' FEL

SE SE Sec. 21, T16S - R6E

Emery County, Utah

Lease No. UTU-77263

**DRILLING PROGRAM** 

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## 2. <u>ANTICIPATED DEPTH OF OIL, GAS WATER AND OTHER MINERAL BEARING ZONES</u>

The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Water	Blackhawk Sandstone	1,241'-2,266'
Coal	Blackhawk Sandstone	1,241' to 2,266'
Water	Star Point Sandstone	2,266' to 2641'
Water	Emery Sandstone	3,811' to 4,911'
Gas	Ferron Sandstone	7,141' to 7,241' and 7501'-7601'
Gas	Dakota Sandstone	8,121'-8,221'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Moab, Utah. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

## 3. BOP EQUIPMENT/REQUIREMENTS

Petroleum Development Corporation's minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed.



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Petroleum Development Corporation

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Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical



ONSHORE ORDER NO. 1 Petroleum Development Corporation Middle Mountain #21-16

1309' FSL and 834' FEL SE SE Sec. 21, T16S - R6E

Emery County, Utah

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DRILLING PROGRAM

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working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The Price River Field Office shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

- The size and rating of the BOP stack is shown on the attached diagram. Although a rig has a. not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 11", 3000 psi working pressure blowout preventor.
- b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- The accumulator system shall have a pressure capacity to provide for repeated operation of C. hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

#### 4. CASING AND CEMENTING PROGRAMS

- a. The Price River Field Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.
- b. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones. abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors. including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.
- Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for C. exploratory wells (lacking better data).



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SE SE Sec. 21, T16S - R6E

Emery County, Utah

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**DRILLING PROGRAM** 

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d. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)

- Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing e. annulus, with recognition that variances can be granted for justified exceptions.
- All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive f. strength at the casing shoe prior to drilling out.
- All casing except the conductor casing, shall be new or reconditioned and tested used casing g. that meets or exceeds API standards for new casing.
- The surface casing shall be cemented back to surface either during the primary cement iob h. or by remedial cementing.
- All indications of usable water shall be reported to the authorized officer prior to running the i. next string of casing or before plugging orders are requested, whichever occurs first.
- Three centralizers will be run on the bottom three joints of surface casing (minimum of one j. centralizer per joint starting with the shoe joint.)
- Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom k. plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- 1. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or m. greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.



# ONSHORE ORDER NO. 1 Petroleum Development Corporation Middle Mountain #21-16

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**DRILLING PROGRAM** 

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n. The proposed casing program will be as follows:

Purpose	Depth	Hole Size	O.D.	Weight	Grade	Type	New or Used
Surface	0-120'	17-1/2"	13-3/8"	48#	H-40	ST&C	New
Intermediate	0-2700'	12-1/4"	9-5/8"	36#	J-55	LT&C	New
Production	0-8400'	8-3/4"	4-1/2"	11.6#	N-80	LT&C	New

- o. Casing design subject to revision based on geologic conditions encountered.
- p. The cement program will be as follows:

Surface	Type and Amount
0-120'	167 sx Class "G" with 2% bwoc CaCL <sub>2</sub> , 0.25#/sx flake or sufficient to circulate to surface.
Production	Type and Amount
0-2700'	Lead: 343sx (35:65) Poz Class "C" with 6% bwoc Bentonite plus 2% bwoc CaCL2 and 0.5% bwoc Sodium Metasilicate + 0.25#/sk Flake.  Tail: 188 sxs Class "G" cement + 2% bwoc CaCL2, 0.25#/sx Flake, or sufficient to circulate to surface.
6641'-8400'	647 sxs Class "G" with 3% KCl and 0.6% Fluid loss additive plus 0.1% dispersant + 0.2% Sodium Metasilicate and 0.1% Retarder plus 0.25#/sx Cello flakes. Top of cement will be at 6641'. Actual cement volumes will be calculated for caliper logs.

- q. The Price River Field Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.
- r. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.



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Middle Mountain #21-16 1309' FSL and 834' FEL

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**DRILLING PROGRAM** 

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- s. The following reports shall be filed with the District Manager within 30 days after the work is completed.
  - 1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:
    - a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
    - Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.
- t. Auxiliary equipment to be used is as follows:
  - 1. Kelly cock
  - 2. No bit float is deemed necessary.
  - 3. A sub with a full opening valve.

## 5. MUD PROGRAM

a. The proposed circulating mediums to be employed in drilling are as follows:

Interval	Mud Type	Mud Wt.	Visc.	F/L	PH
0-200'	Native Mud	9.0	35	NC	9
200-T.D.	Air/Mist/Foam	N/A	N/A	N/A	N/A

There will be sufficient mud on location to control a blowout should one occur.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.



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DRILLING PROGRAM

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b. Mud monitoring equipment to be used is as follows:

- 1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.
- Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating C. a characteristic of a hazardous waste will not be used in drilling, testing or completion operations.

#### 6. **EVALUATION PROGRAM - TESTING, LOGGING AND CORING**

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stem tests are anticipated however, if a DST is run, the following requirements will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions or displaced into the formation prior to pulling the test tool. This would involve providing some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

b. The logging program will consist of a Gamma Ray from surface to T.D., a Caliper, dual induction, litho-density, photo-electron, compensated neutron, temperature, and audio from 120' to 2700' and from 2700' to T.D. A cement bond log will be run from 120 to T.D.



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**DRILLING PROGRAM** 

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c. No cores are anticipated.

- d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).
- e. The anticipated completion program is as follows:

Drill to total depth of approximately 8400'. Run 4 ½" casing through deepest pay as indicated on well logs; perforate 10 feet of any prospective pay zones with 3 3/8" Owens Raptor expendable carrier gun; 4 shots per foot; 120 degree phasing; 32 gram HMX; 0.4" diameter holes; 34" penetration. Anticipate 70% nitrogen-foam stimulation using 100,000# to 150,000# of 20/40 mesh white sand per stage; 30# Purgel III HT fluid system; 18,000 to 20,000 gallon Fluid; 500,000 to 600,000 SCF of nitrogen gas.

## 7. ANTICIPATED PRESSURES AND H,S

- The expected maximum bottom hole pressure is 1700 psi. Under pressuring is anticipated.
- b. No hydrogen sulfide gas is anticipated.

## 8. OTHER INFORMATION AND NOTIFICATION REQUIREMENTS

- a. The anticipated number of days to reach T.D. is approximately 14. Completion operations will begin within 60 days following completion of drilling operations.
- b. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.



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 Production data shall be reported to the MMS pursuant to 30 CFR 216.5 using form MMS/3160.

- d. The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which gas is first measured through permanent metering facilities, whichever first occurs.
- e. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.
- f. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.
- g. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 and Onshore Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- h. Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."



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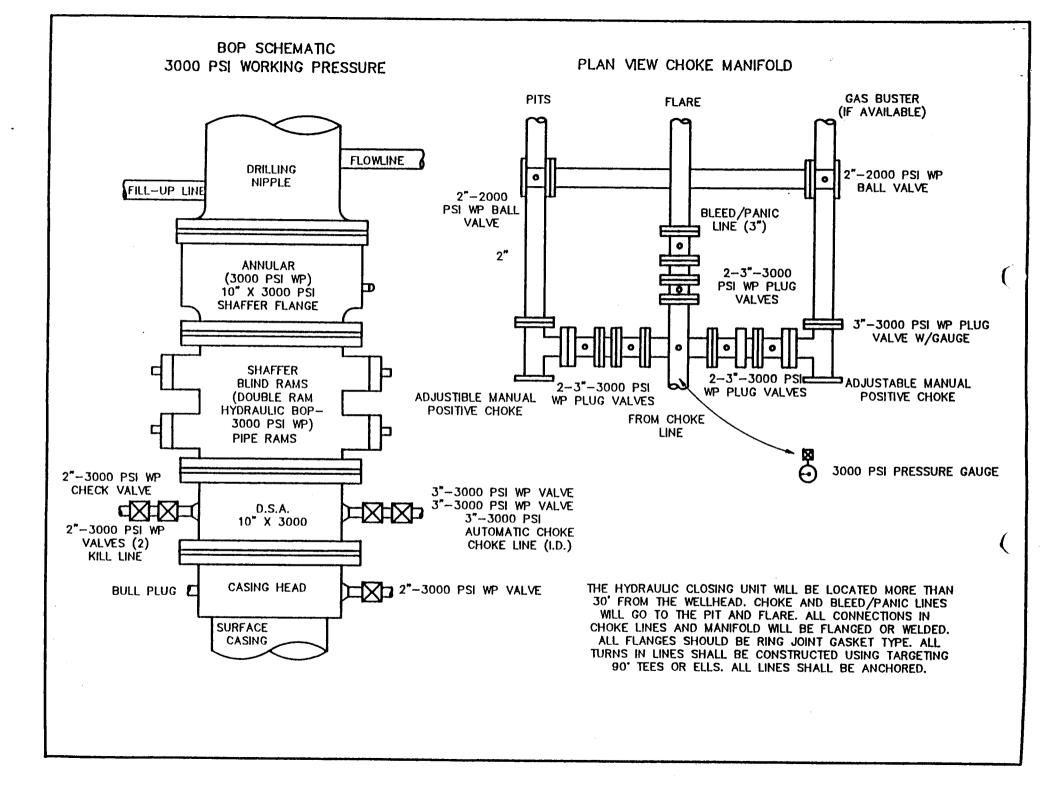
**DRILLING PROGRAM** 

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If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

- i. Operations are planned to commence on July 15, 2000.
- j. It is anticipated that the drilling of this well will take approximately 14 days.
- k. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.
- I. <u>Immediate Report:</u> Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- m. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- n. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- o. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative. or the appropriate Surface Managing Agency.





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## ONSHORE OIL & GAS ORDER NO. 1

## Thirteen Point Surface Use Plan

The onsite inspection for the subject well was conducted on Tuesday, August 26, 1999 at approximately 4:20 p.m. Weather conditions were cool and cloudy. In attendance at the onsite inspection were the following individuals:

Robert Kay	Land Surveyor	Uintah Eng. & Land Surveying
Lisa Smith	Permitting Agent	Permitco Inc.
Tom Carpenter	Geologist	Petroleum Development Corporation
Jeff DeFreest	District Geologist	U.S. Forest Service
Brent Barney	Transportation Engineer	U.S. Forest Service
Carter Reed	Geologist	U.S. Forest Service
Will Wilson	Geologist	U.S. Forest Service
Stan Anderson	Wildlife Biologist	U.S. Forest Service
Sandra Kaminski	Range Conservationist	U.S. Forest Service
Leland Matheson	Land & Special Uses	U.S. Forest Service
Katherine Foster	Hydrologist	U.S. Forest Service
Rob Davies	Soils/Fisheries	U.S. Forest Service
Mike Kaminski	Petro. Engineering Tech.	Bureau of Land Management - Price
Michael Jackson	Geologist	Bureau of Land Management - Richfield

## 1. EXISTING ROADS

- a. The proposed well site is located approximately 21.9 miles northwest of Orangeville, Utah.
- b. Directions to the location from Orangeville, Utah are as follows:

Proceed west on Highway 29 for 15.4 miles. Turn right and proceed northerly on the Joe's Valley Road for 6.5 miles. Turn left onto the new access. The proposed well pad sits adjacent to the Joe's Valley Road on the west side.

- c. For location of access roads within a 2-Mile radius, see Maps "A" & "B".
- d. The Joe's Valley Road is an improved road. No further improvements will be needed.



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- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.
- g. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.

## 2. PLANNED ACCESS ROADS

- a. The new access is approximately 500 feet in length. Due to the short distance of the new access, a road design will not be necessary. The new access will be crowned and ditched prior to drilling of the well.
- b. The maximum grade will be approximately 3 percent.
- c. Due to the short length of the new access, no turnouts will be needed.
- d. One 18" culvert will be installed along where the new access leaves the Joe's Valley Road.
- e. The new access road was centerline flagged at the time of staking.
- f. No cattle guards will be necessary.
- g. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance. Unauthorized offroad vehicular travel is prohibited.
- h. Adequate signs will be posted along Forest Development Roads to warn the public of project related traffic.



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## 3. <u>LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION.</u> See Attached Map.

- a. Water wells -none
- b. Injection wells -none
- c. Producing wells none
- d. Drilling wells none

## 4. LOCATION OF TANK BATTERIES AND PRODUCTION FACILITIES.

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a neutral color to blend with the surrounding environment. The proposed color for this site is Carlsbad Canyon unless otherwise stipulated by the Forest Service. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.
- b. If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad will be surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
- c. All loading lines will be placed inside the berm surrounding the tank battery.
- d. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flow line will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- e. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the BLM in Price, Utah. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.



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- f. A production facility diagram is attached showing placement of all proposed production facilities. If the facilities should change from that submitted, a revised production diagram will be submitted. Production facilities will be subject to further environmental analyses and approval by the Forest Service.
- Installation of any oil or gas flow lines will be done along the proposed access routes. g.
- Any necessary pits will be properly fenced to prevent any wildlife entry. h.
- All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. i.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have j. prior written approval from the Authorized Officer.
- k. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- 1. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- All gasoline, diesel and steam-powered equipment will be equipped with effective spark m. arresters or mufflers. Spark arresters will meet Forest Service specifications discussed in the USDA Forest Service Spark Arrester Guide. In addition, all electrical equipment must be properly insulated to prevent sparks.
- A gas pipeline will be constructed along the Miller Flat Road and then turn easterly to a tie in n. point located in Section 22, T16S - R6E. See Map C attached and pipeline attachment for additional details.

#### 5. LOCATION AND TYPE OF WATER SUPPLY

All water needed for drilling purposes will be obtained from Joe's Valley Reservoir or Miller a. Flat Reservoir. The point of diversion will be determined by the Irrigation District prior to use of this water source.



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- b. A copy of the approved water permit will be submitted under separate cover.
- c. Water needed for operations will be properly and legally obtained according to State water laws. The location of diversion, if on National Forest System lands, is subject to Forest Service approval.

## 6. SOURCE OF CONSTRUCTION MATERIAL

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a private or commercial source unless other arrangements are made with the forest service.
- c. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.
- d. No construction materials will be removed from Federal land.

## 7. METHODS OF HANDLING WASTE DISPOSAL

- a. The reserve pit will be constructed so as not to leak, break, or allow discharge. The reserve pit will be lined with a minimum 10 mil plastic liner.
- b. The reserve pit will be constructed of sufficient size and capacity for the necessary fluids for drilling and to contain any runoff from the drill site. Pits will not be constructed within intermittent or perennial stream channels.
- c. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.
- d. The reserve pit will be constructed in undisturbed material and below the natural ground level.
- e. All drilling fluids will be contained in the reserve pit. All appropriate measures will be taken to assure that leakage through the reserve pit does not occur and that fluids are not allowed to overflow. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling operation and the pit will be fenced during drilling and completion operations.



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- f. Burning of garbage and debris is prohibited. All trash will be contained in a trash cage and its contents periodically disposed of off the Forest at an approved refuse facility.
- g. After first production, produced waste water will be confined to a unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.
- h. Drill cuttings are to be contained and buried in the reserve pit.
- i. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- j. Sanitary facilities are required on site at all times during operations. Sewage will be placed in a portable chemical toilet or holding tank and disposed of in accordance with state and county regulations. The installation of facilities, other than self contained chemical toilets, is subject to State and Forest Service approval.
- k. The produced fluids (other than water) will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.

## 8. ANCILLARY FACILITIES

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

## 9. WELL SITE LAYOUT

- a. Section corners, survey markers and claim comers in the project area will be located and flagged by Petroleum Development Corporation prior to operations. The removal or disturbance of identified markers will be approved by the proper authority.
- b. The pad and road designs will be consistent with Forest Service specifications as outlined in the Region 4 Oil and Gas Roading Guidelines (Attachment 1) and the Manti-La Sal National



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Forest Oil and Gas Well Site Guidelines (Attachment 2) and are subject to Forest Service approval. No construction operations may begin prior to approval. any modifications to approved plans are also subject to review and approval.

- c. A pre-construction meeting including the responsible company representative(s), contractors, and the Forest Service must be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road work must be construction-staked prior to this meeting. Site-specific requirements will be discussed at that time.
- d. The well pad has been staked at it's maximum size, however it will be constructed smaller if possible, depending upon rig availability.
- e. The operator shall submit for approval, (within 90 days following completion of the well), a maintenance plan for the site, the project road and that portion of nay Forest Development Road to be used for project access. A road use permit must be obtained from the Forest Service authorizing commercial use of Forest Development Roads. Requirements listed in the road-use permit must be followed. In the event of a discovery, an undated maintenance plan will be required.
- f. The operator will acquire appropriate permission to use non-Forest Service Roads.
- g. The project engineer and surveyors are certified by the State in which they reside or maintain their business.
- h. All surface disturbing activities, including reclamation, will be supervised by a qualified, responsible official or representative of Petroleum Development Corp. who is aware of the terms and conditions of the APD and specifications in the approved plans.
- i. All cut and fill slopes will be such that stability can be maintained for the life of the activity. Cut and fill slopes will be constructed as follows:

Height of Slope	Slope
0-5 feet	3:1
6-10 feet	2:1
over 10 feet	1-1/2:1



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j. All fills will be free from vegetative materials and will be compacted in lifts no greater than 12 inches in thickness to a minimum of 90 percent Proctor dry density sufficient to prevent excessive settlement.

- k. If the well is productive, the working surface of the drill site will be surfaced with crushed gravel to a depth sufficient to support anticipated loads throughout the life of the well. Usually a depth of 12 inches of gravel is anticipated.
- I. A diversion ditch having the minimum dimensions of 3 feet horizontal to 1 foot vertical (3:1 ditch), will be constructed around the site to divert surface waters from flowing onto the site. The ditch will be located at the base of the cut slope and around the toe of the fill slopes (see Drawing No. 1 Construction Requirements for Typical Well Sites). A straw dike will be constructed in the ditch outflow to trap any sediment produced from the raw slopes. A culvert will be necessary where the access road enters the site.
- m. A berm will be constructed around the perimeter of the site to contain all precipitation, spills, and other fluids from leaving the site. The berm will be a minimum of 18 inches high, 12 inches wide at the top, and having 1-1/2:1 side slopes. The site surface will be graded to drain to the reserve pit. The drainage pattern to be constructed will be modified for each site, depending on the site specific conditions.
- n. The reserve pit will be located on the southwest side of the location.
- o. The stockpiled topsoil (first 12 inches or maximum available) will be stored along the southeast side of the location as shown on the rig layout. All topsoil must be stripped from areas to be disturbed and stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- p. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- q. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
- r. All pits will be fenced to prevent wildlife entry.
- s. The reserve pit fencing (5 strand barbed wire) will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.



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t. Quality Permits as required by the Utah Air Quality Division of the EPA (Ursala Kramer) for the Colorado River Air Quality Basin will be obtained by Petroleum Development Corporation

## 10. PLANS FOR RESTORATION OF SURFACE

and submitted under separate cover.

## **Dry Hole**

Emery County, Utah

- a. Rehabilitation of the entire site will be required and will commence immediately after the drilling is complete. The site will be restored as nearly practical to its original condition. Cut and fill slopes will be reduced and graded to conform to the adjacent terrain.
- b. Fluids in the reserve pit will be siphoned off and hauled to an approved disposal source, or re-used at another drill site. Petroleum Development Corp. will attempt to reclaim the reserve pit prior to winter, or the following summer.
- c. Drainages will be reestablished and temporary measures will be required to prevent erosion to the site until vegetation is established.
- d. Generally speaking, the standpipe for well identifications will be removed on National Forest lands. A final determination will be made on a case-by-case basis.
- e. After final grading and before the replacement of topsoil, the entire surface of the site shall be scarified to eliminate slippage surfaces and to promote root penetration. Topsoil will then be spread over the site to achieve an approximate uniform, stable thickness consistent with the established contours.
- f. A temporary fence (let down fence) will be constructed around the site to prevent continued use until the required reclamation standards are successfully achieved. The fence will then be removed.
- g. In general, the disturbed areas will be considered adequately revegetated when at least 90 percent of the original ground over is re-established over 90 percent of the seeded area, within three years of planting, consisting of seeded and desirable species. Maximum allowable non-noxious weeds is 10 percent of the total ground cover at any time. No noxious weeds will be allowed on the site; they must be treated as they occur. The operator is responsible for maintenance of reclamation facilities such as fences, barricades and



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temporary drainage structures until the desired reclaimed conditions are achieved. If the desired ground cover is not established at the end of each 3 year period, an analysis of why the areas has not recovered will be performed by the operator and additional treatment and seeding will be required based on the results of the analysis.

- h. Straw, hay, feed, or pellets used on the National Forests of Utah must be certified weed-free by the State of Utah.
- i. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment.
- j. The well pad and access road will be reclaimed as per Forest Service standards (within normal oilfield operations). The operator will be informed of Forest Service requirements within 2 weeks following completion of the well to determine if the Forest Service can utilize the access road and/or well pad for recreational purposes. If the Forest Service agrees to take over the access and/or well pad, they also agree to take full responsibility for continued use and maintenance of the area and all liability associated with same.

## **Producing Location**

- k. Site reclamation for producing wells will be accomplished for portions of the site not required for the continued operation of the well. All disturbed surface will be treated to prevent erosion and to complement the esthetics of the area. A new site plan will be required encompassing the facilities required for operation and interim reclamation measures.
- I. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
- m. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- n. The plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit.
- At the end of drilling operations, drilling fluids will be hauled to an approved disposal site. All
  polluting substances or contaminated materials, such as oil, oil-saturated soils, and gravel,
  will be buried with a minimum of 2 feet of clean soil as cover or be removed from the Forest.



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- p. The reserve pit must be dry before it is backfilled and reclaimed. Once the reserve pit is dry, the reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. Methods for drying the pit, other than natural evaporation, are subject to prior Forest Service approval.
- q. The cut and fill slopes and all other disturbed areas not needed for the production operation will be top soiled and revegetated. The berm will be removed and the site graded to drain.
- r. Stockpiled topsoil will be redistributed evenly over the disturbed area upon reclamation.
- s. The site will be seeded and/or planted as prescribed by the Forest Service. Nutrients and soil amendments will be applied to the redistributed surface soil later as necessary to meet the revegetation requirements. The seed mix is as follows:

Species	#'s PLS/Acre
Slender Wheatgrass	2
Intermediate Wheatgrass	2
Timothy	2
Orchard Grass	2
Perennial Rye	2
Alfalfa (Ladak)	1

## 11. SURFACE OWNERSHIP

Access Roads - All roads are located within the Manti-La Sal National Forest, or are maintained by the County or State Highway Departments.

Well pad - The well pad is located on lands managed by the Manti-La Sal National Forest.



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## 12. OTHER INFORMATION

- a. Move-in and move-out of the drill rig will not be allowed during major national holiday weekends and will be restricted during the big game hunting seasons as specified by the Forest Service as conditions for approval of the Surface-Use Plan of Operations.
- b. A Class III archeological survey was conducted by Senco-Phenix. No significant cultural resources were found and clearance has been recommended. A copy of this report will be submitted to the appropriate agencies by Senco-Phenix.
- c. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:
  - -whether the materials appear eligible for the National Register of Historic Places;
  - -the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
  - -a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.
- d. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.



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- e. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
- f. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.h.
- g. "Sundry Notice and Report on Wells" (From 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- h. This permit will be valid for a period of one year from the date of approval. An extension period may be granted, if requested, prior to the expiration of the original approval period.
- i. The operator or his contractor shall contact the U.S. Forest Service at 801/637-2817 48 hours prior to construction activities.
- j. Fire suppression equipment must be available to all personnel on the project site. Equipment will include a minimum of one hand tool per crew member consisting of shovels, pulaskis, and chainsaws and one properly rated fire extinguisher per vehicle and/or internal combustion engine.
- k. Petroleum Development Corporation will be held responsible for damage and suppression costs for fires started as a result of operations. Fires must be reported to the Forest Service as soon as possible.
- I. All accidents or mishaps resulting in resource damage and/or serious personal injury must be reported to the Forest Service as soon as possible.
- m. Harassment of wildlife and livestock is prohibited.
- n. All merchantable timber removed or destroyed by construction or other project related activities will be purchased by the operator at fair market value. The Forest Service will conduct a timber cruise and appraisal after the final clearing limits have been staked. Slash burning will be conducted only at locations approved by the Forest Service under authorization or a burning permit.



ONSHORE ORDER NO. 1 —
Petroleum Development Corporation

Middle Mountain #21-16

1309' FSL and 834' FEL

SE SE Sec.21, T16S - R6E

Emery County, Utah

ONFIDENTIAL - TIGHT HOLE

Lease No. UTU-77263

SURFACE USE PLAN

Page 14

o. A Spill Prevention Control and Countermeasure Plan (SPCC) will be submitted under separate cover by Environmental Industrial Services of Helper, Utah (Mel Coonrod).

## 13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

Permit Matters

PERMITCO INC.

Lisa L. Smith 14421 Weld County Road 10 Ft. Lupton, CO 80621 303/857-9999 (W) 413/812-1691 (E-Fax) **Drilling & Completion Matters** 

PETROLEUM DEVELOPMENT CORP.

103 E. Main Street Bridgeport, WV 26330 Tom Carpenter - Geologist 800/624-3821- (W) 304/824-0913 - (F) 304/842-4277 - (H) Gary Fridley - Landman

304/745-3120

## Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Petroleum Development Corp. and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

This statement is subject to the provisions of 18.U.S.C. 1001 for the filing of a false statement.

December 3, 1999

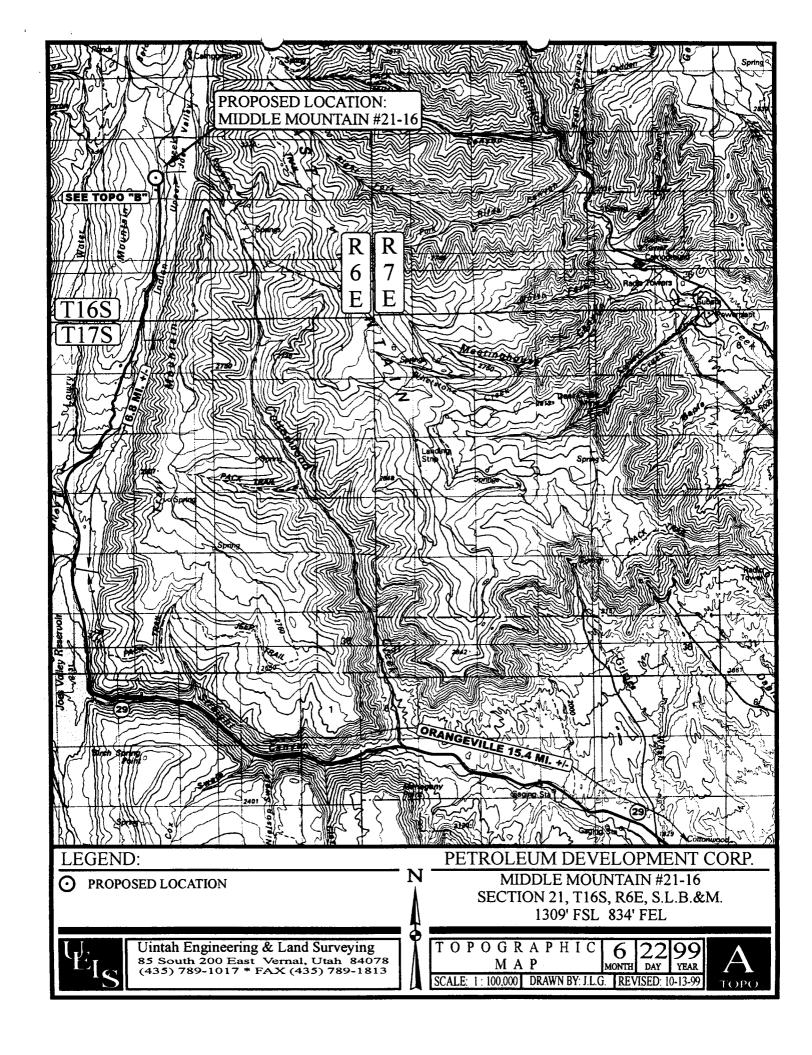
Date:

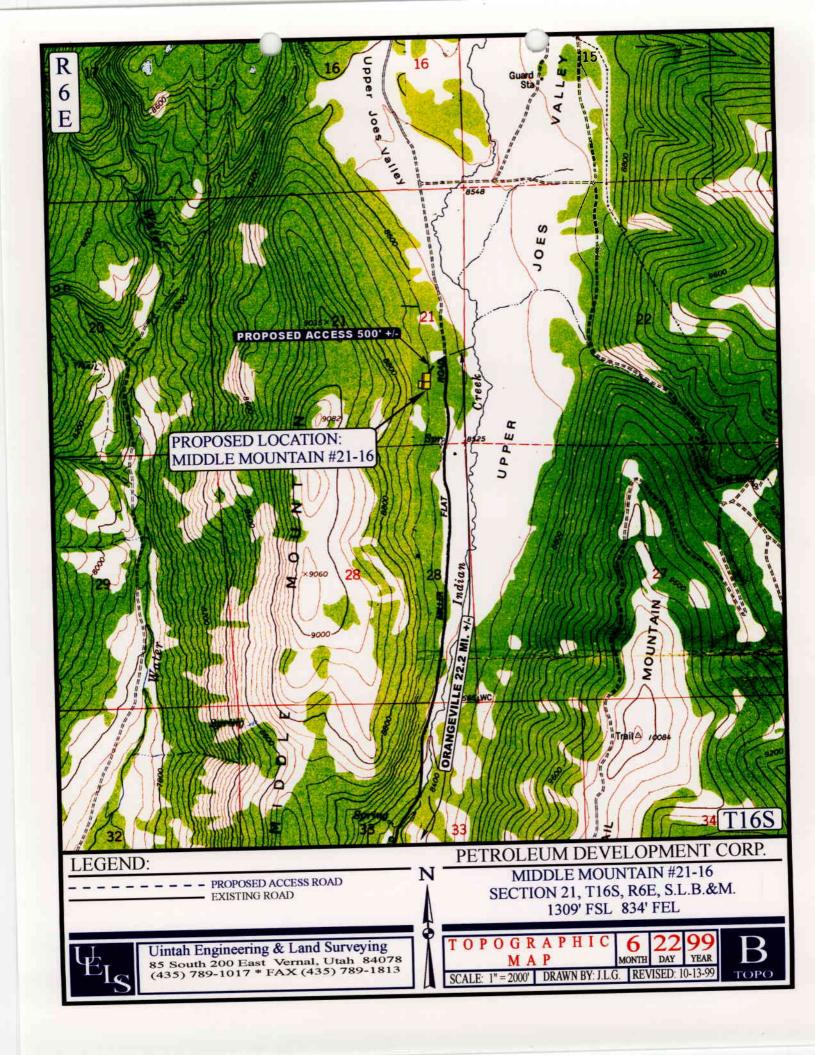
Lisa L. Smith - PERMITCO INC.

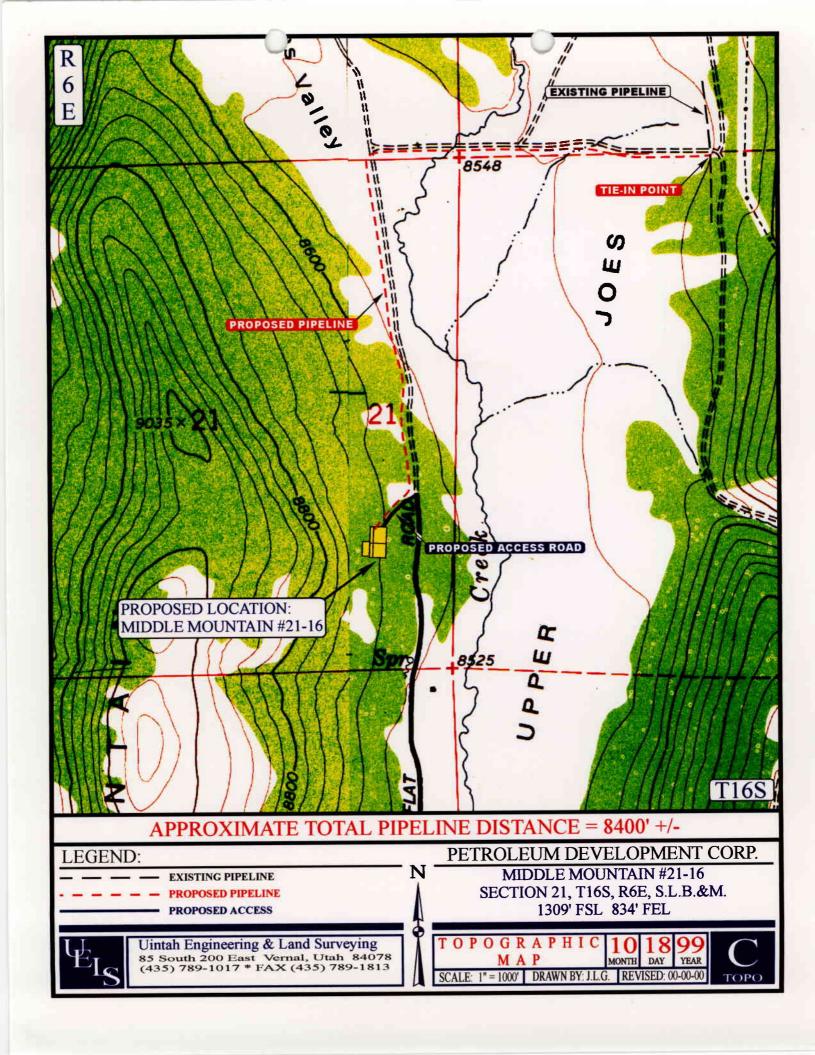
Authorized Agent for:

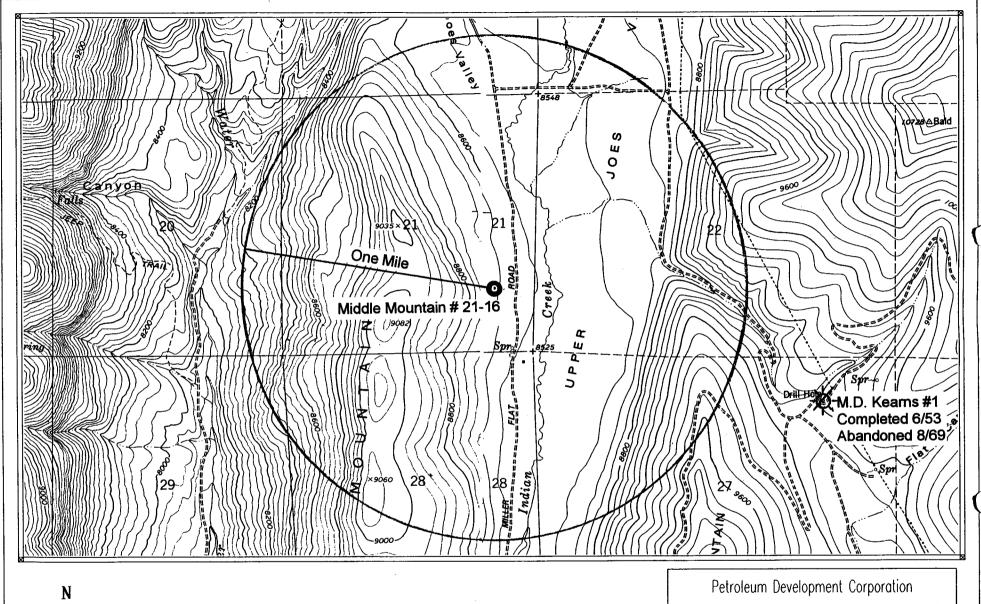
Petroleum Development Corporation











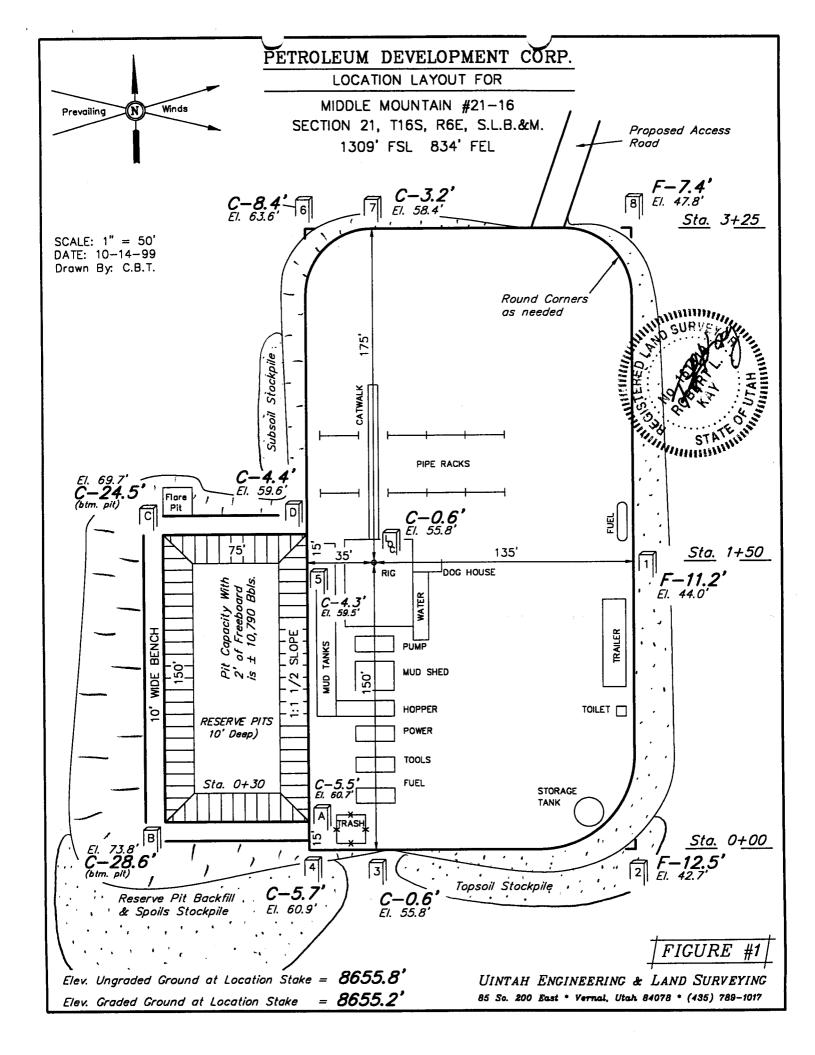


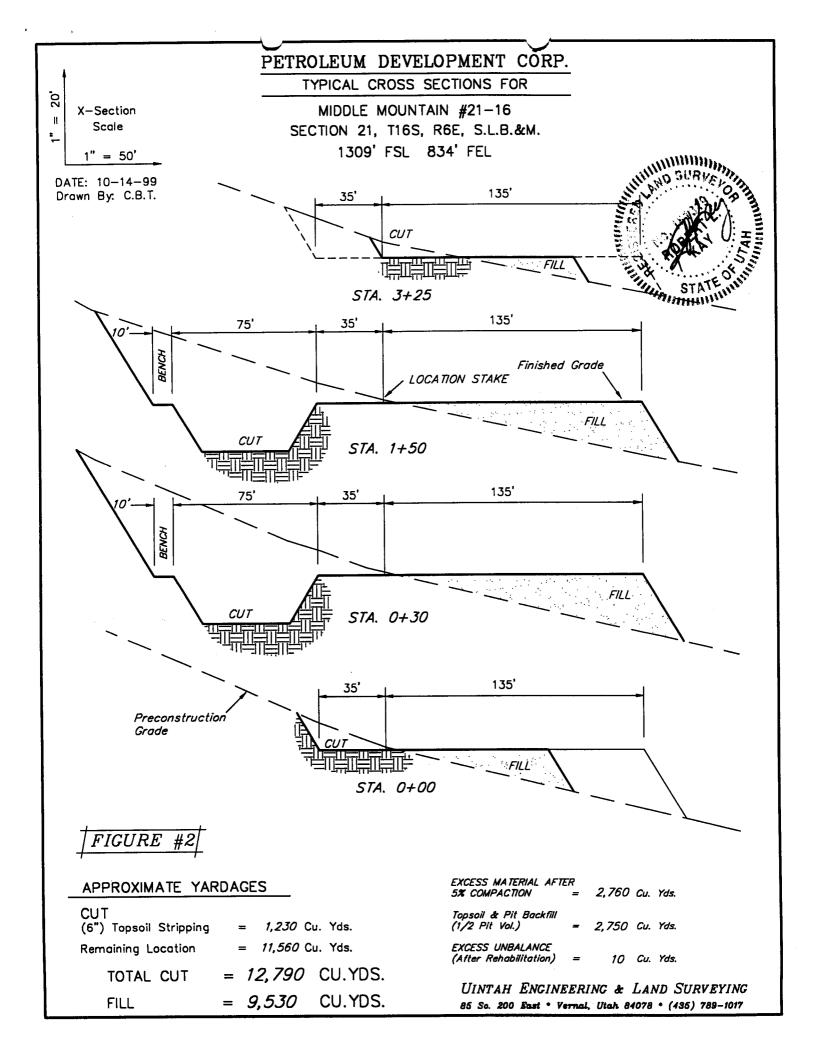
Scale 1:24000.

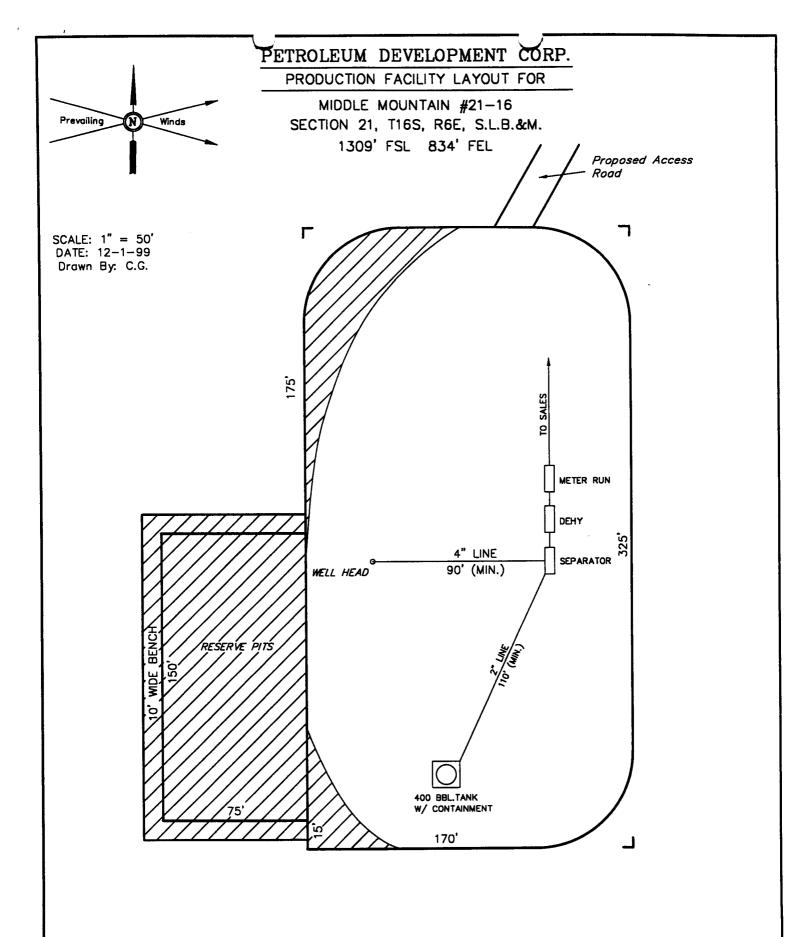


Wells Within a One Mile Radius of Middle Mountain #21-16 Drillsite Emery County, Utah

Sec 21-I16S-R6E		11/10/99
	Scale 1:24000.	carpenter









AREA TO BE RE-CLAIMED

UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

Serial No. UTU-77263 Parcel No. ML-16S6E002 thru 006

#### LEASE NOTICE

### Coal Lands

This lease lies within the Wasatch Plateau Coal Field and contains mined or unmined coal reserves in the Cretaceous Blackhawk Formation. Before undertaking any activities within the lease, the lessee must coordinate with the Bureau of Land Management to determine if the area of proposed operations is leased for coal and if proposed operations have potential to interfere with existing or proposed coal mining operations. If it is determined that there could be conflicts, the lessee will be required to take all measures necessary to provide for the safety of coal mining operations and to prevent interfering with the rights of coal lessees/operators. The lessee may be required to enter into an agreement with the coal lessee/operator to ensure that operations can safely co-exist and to show proof that such an agreement has been executed.

The lessee should contact the Bureau of Land Management, Moab District, P.O. Box 970, Moab, Utah 84532, Telephone No. (801) 259-6111.

Serial No. UTU-77263
Parcel No. ML-1456P-002 thru 006

### NO SURFACE OCCUPANCY STIPULATION

No surface occupancy or use is allowed on the lands described below (legal subdivision or other description).

A. Slopes greater that 35% and areas determined to be unstable or hazardous. Actual ground conditions will be used to determine surface occupancy restrictions. Based on currently available information, the following lands are included:

T. 14 S., R. 6 E., SLM, Utah
Secs. 6 & 7, portions of entire sections;
Sec. 15, portions of the W2E2;
Sec. 16, portions of the W2;
Sec. 17, portions of the E2;
Sec. 18, portions of the E2E2,
Sec. 19, portions of the E2E2;
Sec. 20, portions of the E2E2;
Sec. 21, portions of the E2;
Sec. 21, portions of the SWNE, W2, W2SE, SESE;
Sec. 28, portions of lots 2-9, W2NE, NW;
Sec. 29, portions of lots 1-6, NE, W2W2, W2SE;
Sec. 30, portions of lots 1, 2, W2NE, NW, W2SW, SE;
Sec. 33, portions of lots 1-8, 11, SW.

- B. Within 200 feet of RPN (Riparian) Management Units or other riparian areas. (Riparian areas will be identified on a site-specific basis.)
- C. Within 200 feet of arterial and collector roads as identified on the Forest Transportation Inventory System.
- D. SPR (Semiprimitive Recreation) Management Unit Black Canyon Semiprimitive Recreation Area. The following lands are included:
  - T. 14 S., R. 6 E., SLM, Utah Sec. 18, portions of the E2E2, W2; Sec. 19, portions of the E2E2; Sec. 30, portions of the entire section.

For the purpose of:

- A. To minimize erosic:. scil loss, unstable or hazardous conditions, and visibility. Assure surface disturbance can be effectively reclaimed and revegetated consistent with management goals.
- B. Minimize disturbance of riparian vegetation and wildlife habitat. Prevent an irreversible loss of riparian areas. Provide a 200 foot buffer zone between surface disturbances and perennial water bodies to prevent degradation of surface water quality.
- C. Provide for public safety and preventing impacts to the Forest Transportation System.
- D. Provide a high quality semiprimitive recreation experience in SPR Management Units and minimize disturbance to semiprimitive recreation values.

A request for a waiver, exemption, or modification (WEM) to the above lease stipulation may be requested along with the submission of a Surface Use Plan of Operations (36 CFR 228.104). The objective and justification for the above stipulation, along with guidance on when a WEM would potentially be considered, are described in Appendix A-4 of the Manti-La Sal Oil and Gas Leasing FEIS.

Any changes to this stipulation will be made in accordance with the land use plan and/or the regulatory provisions for such changes. (For guidance on the use of this stipulation, see BLM Manual 1624 and 3101 or FS Manual 1950 and 2820.)

The lessee/operator may, unless notified by the FS that the examination is not necessary, conduct the examination on the leased lands at his discretion and cost. This examination must be done by or under the supervision of a qualified resource specialist approved by the FS. An acceptable report must be provided to the FS identifying the anticipated effects of a proposed action on endangered or threatened species or their habitats.

FLOODPLAIN AND WETLAND - The lessee is hereby notified that this lease may contain land within a riparian or wetland ecosystem.

All activities within this area may be precluded or highly restricted in order to comply with Executive Order 11988 - Floodplain Management and Executive Order 11990 - Protection of Wetlands, in order to preserve and restore or enhance the natural and beneficial values served by floodplains and wetlands.

Occupancy and use of lands within riparian or wetland areas, as proposed in a Surface Use Plan of Operations, will be considered in an environmental analysis and mitigation measures deemed necessary to protect these areas identified. These areas are to be avoided to the extent possible, or special measures such as road design, well pad size and location or directional drilling, may be made part of the permit authorizing the activity.

A Class III Archeological Study was completed by Senco-Phenix. No significant cultural resources were found and clearance has been recommended. A copy of this report will be submitted directly to the appropriate agencies by Senco-Phenix.



# PIPELINE RIGHT OF WAY INFORMATION Middle Mountain #21-16

- 1. The type of pipeline is a gathering system.
- 2. The outside diameters (O.D.) of all pipe will be 4.5".
- 3. The anticipated production through the line (MCF per day) is 4694 mcf at 710 #'s.
- 4. The anticipated maximum test pressure is 1065# (1.5 x operating pressure)
- 5. The anticipated operating pressure is 710 #'s.
- 6. The type of pipe is coated steel.
- 7. The method of coupling will be welded.
- 8. There are no other pipelines to be associated in same trench.
- 9. Other objects to be associated in same trench will be locating tape and 17# magnesium anodes @ 500" spacing.
- 10. The total length of the pipeline will be 8400 feet.
- 11. The maximum depth of the line will be 36# or as ground conditions permit. The width will be +/- 24".
- 12. The depth of cover of pipeline will be the same as the depth of the trench.
- 13. The method of entrenchment will be with a backhoe or track hoe and hand labor.
- 14. The construction width needed for all surface disturbing activities is approximately 40 feet.
- 15. The estimate of total acreage involving all surface disturbing activities is 7.75 acres
- Line markers will be placed every 200 feet or as required. This location will require a total of four gate valves to be installed. One will be located approximately 100 feet off the drill site location. A valve will be located on either side of the Forest Service road that the pipeline crosses through. The remaining valve will be installed at the junction with the Questar Line.

Two horizontal drips, with manual blow downs, will be required. One will be installed on location between the outlet of the meter and the first gate valve. The other drip will be installed prior to the valve at the Questar Junction.

17. Reclamation procedures will be as specified for the drill site, unless required otherwise by the Forest Service.



# Uinan Engineering & Land Saveying

NELSON J. MARSHALL LAWRENCE C. KAY ROBERT L. KAY 85 South 200 East Vernal, Utah 84078 Phone (435) 789-1017 Fax (435) 789-1813

November 11, 1999

United States Forest Service Manti-La Sal National Forest 599 West Price River Drive Price, Utah 84501

Attn: Mr. Brent Barney

Re: Submittal of the Petroleum Development Corp. Middle Mountain #21-16 Proposed Road

Design

Dear Brent;

I have enclosed five copies of the Petroleum Development Corp. Middle Mountain #21-16 road design. The road is located in Section 21, T16S, R6E, S.L.B.&M.

Please keep us informed of your review process.

If you have any questions or comments, feel free to reach me at (435) 789-1017.

Sincerely,

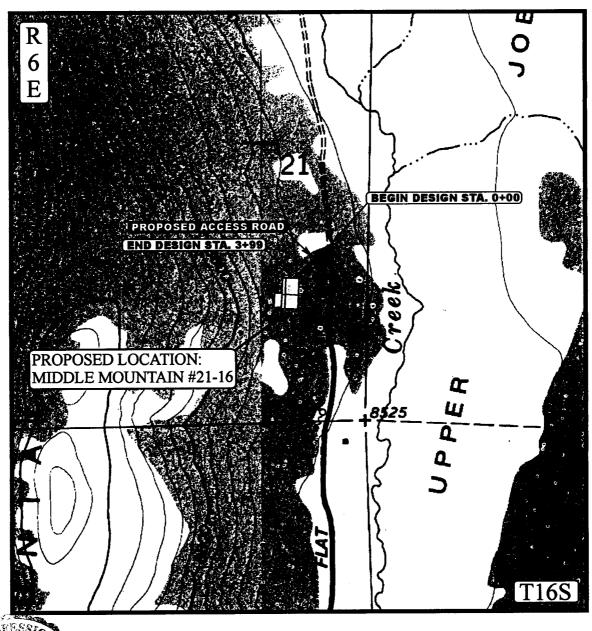
David G. Weston

DGW/hnm enclosures

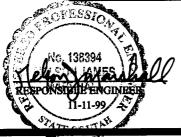
cc: Gary Fridley Lisa Smith

# PETROLEUM DEVELOPMENT CORP. MIDDLE MOUNTAIN #21-16 PROPOSED ACCESS ROAD

LOCATED IN EMERY COUNTY, UTAH SECTION 21, T16S, R6E, S.L.B.&M.



N



Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 (435) 789-1017 \* FAX (435) 789-1813 TOPOGRAPHIC 11 11 99

MAP MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.L.G. REVISED: 00-00-00

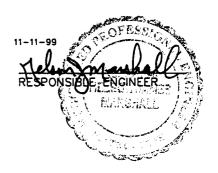


# PETROLEUM DEVELOPMENT CORP.

MIDDLE MOUNTAIN #21-16

# TABLE OF CONTENTS

GENERAL NOTES	_SHEET(S)	<u>1-3</u>
TYPICAL CROSS SECTION	_SHEET	_4
CULVERT DETAIL	_SHEET	_5
STAKING DETAIL	_SHEET	_6
PLAN & PROFILE		
CROSS SECTIONS	_SHEET(S)	C-1- C-2
CARTHWORK VOLLIMES	SHEET	



### **GENERAL NOTES:**

All construction practices must conform to the current Forest Service standards. All materials for construction of the complete project including but not limited to rip-rap, hay/straw bails, silt fences, water for dust control and compaction, culverts, bedding material for culverts, surface gravel, signs, etc. are to be provided by the contractor at his bid price unless other prearrangements are made.

Construction practices and quality control shall conform with Forest Service Specifications for Construction of Roads and Bridges (EM-7720-100, August 1996). Special attention and modifications shall be made to the following sections.

Section 160 Quality Control and Quantity Measurements.

Delete: section 160.04(b)

Modify: Method of payment to as agreed upon with Petroleum Development Corp

**Section 173.08** 

Clarify: Clearing limit will be 3' beyond slope stakes.

Section 201 Clearing and Grubbing

Section 203 Excavation and Embankment and Haul

203.16(b) Placement (Tolerance E)

Section 204 Soil Erosion & Water Pollution Control

Section 304 Aggregate Base or Surface Course

304.10(c) compaction A.

Section 603 Metal Pipe

Section 251 Rip Rap

Section 633 Signs

Section 703 Aggregates

Table 703-2 Grading Designation C

Section 707 Metal Pipe

Uintah Engineering and Land Surveying assumes no liability written or implied as to the location of pipelines or cable lines in the vicinity of this road design. Blue stakes (Public lines) and or the owner of the transportation line (Private/Corporate lines) must be contacted for identification and location before construction begins. Transportation lines that may be identified on these plans may not be the only transportation lines in the vicinity of the road. These plans are not intended to be used to identify the location of transportation lines. Extreme caution shall be used when constructing road near or over transportation lines. Line companies will dictate crossing methods.

### **EXPLANATIONS:**

### **PLAN & PROFILE SHEETS**

Plan & Profile sheets show the horizontal and vertical alignment of the road, sign placement if any, turnout placement if any, estimated culvert placements and sizes, estimated wing ditches, horizontal and vertical curve data, and the percent super for construction of horizontal curves.

### **CROSS SECTION SHEETS**

C/L Stakes - These stakes have been set on the ground with stake numbers written thereon. The cut "C" or fill "F" shown on the cross section sheets show one of the following:

- A. Where the road centerline has not been shifted left or right during design, the cut "C" or fill "F" is from the preconstruction ground at the C/L stake to the finished road C/L at the top of the sub-grade.
- B. Where the road C/L is to be shifted left or right from the original C/L stake, The cut "C" or fill "F" shown on the plans is from the preconstruction ground at the new road C/L\*, which is offset left or right from the original C/L stake by the distance shown to the finished road C/L at the top of the sub-grade.

Finished Cross Section Elevations & Catch Points - The finished sub-grade C/L elevation is shown at the C/L on each Cross Section. Catch points are shown at each side of the Finished Cross Section. They are marked with a distance left or right of the C/L with their elevation. Other elevations such as the bottom of ditch or the edge of fill subgrades are also shown.

Road Widths - Where Curve-Widening, Fill-Widening, & Turnouts are required approximate widths have been indicated. These widths supersede the Typical Cross Section.

\* - In certain areas the finished road has been moved left or right after the C/L Stakes were set. This was done during the design of the road to maintain smooth horizontal curves or to avoid an existing obstacle. The distance shown at the stake symbol indicates the amount the road is to be moved. The new C/L may or may not be staked on the ground.

### **SCOPE OF WORK:**

### SHAPING THE ROADWAY

The roadway is to be shaped to the dimensions shown on the typical cross sections included in this document. Care shall be given to insure that the travelway width is not less or significantly more than the dimensions given on the typical cross section. Where turnouts are indicated, the typical section widths shown on the typical cross section will need to be modified by the amounts shown on the typical turn-out.

Top soil will be handled in the manner agreed upon and stated within the conditions of approval. If top soil is to be moved; Top soil will be peeled back during construction. Some over-excavation of cut slopes and bar ditches will provide needed material for road construction. Top soil will then be spread back over the cut and fill slopes and bar ditches.

Clearing and grubbing as stated within the Forest Service standards must include a 3' buffer from the construction slope stakes.

Rip rap will be placed at all culvert inlet and outlets. Quantities have not been tallied within these plans. Contractor shall estimate the number of yards of rip rap necessary but should break out this item from the lump sum and provide a bid by-the-yard. Sources for rip rap must be identified by the contractor.

Slope re-seeding will be according to Forest Service standards.

Sediment control will be accomplished with hay/straw and silt fences. This item should be included within the contractor bid.

Some other non-standard silt control may be necessary and will be addressed during construction. Additional non-stated silt control will be an additional pay item and should not be estimated for the lump sum.

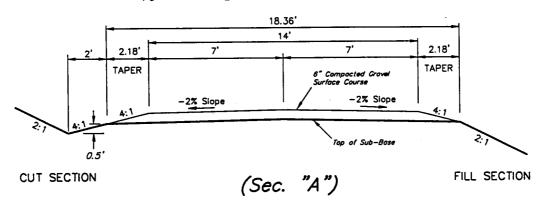
#### **GRAVEL NOTES:**

Do not place gravel on road until Inspector/Engineer has approved the sub-grade.

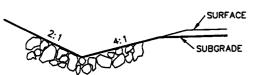
Place gravel to full widened width on turnouts, curve widening, and intersection flares.

## TYPICAL CROSS SECTION

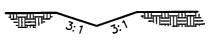
(for Proposed Access Road)



# DITCH DETAILS



RIP RAP IN BAR DITCH (Only Where Specified)

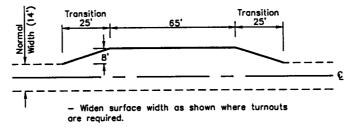


WING DITCH (DETAIL)



RIP RAP IN WING DITCH (DETAIL)
(Only Where Specified)

# TYPICAL TURNOUT DETAIL



<u> PLAN</u>

TURNOUT-WIDENING ON ONE SIDE (DETAIL)

5

### CULVERT CONSTRUCTION DETAILS

THE PLANS SHOW AN ESTIMATE OF THE NUMBER AND THE SIZE OF THE CULVERTS TO BE PLACED ON THE ROAD. THERE MAY NEED TO BE SOME FIELD ADJUSTMENTS MADE BY THE CONTRACTOR, BLM, AND/OR INSPECTOR/ENGINEER TO THE PLACEMENT AND LENGTH OF THE CULVERTS AND WING DITCHES.

CULVERT INGRESS AND EGRESS DITCH LENGTHS ARE TO BE DETERMINED DURING CONSTRUCTION. ALL DITCHES ARE TO BE CONSTRUCTED WITH SUFFICIENT SLOPE SO THAT WATER WILL EXIT THE DOWNSTREAM SIDE AND NOT POND IN THE DITCH.

ALL CULVERTS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT AN HS-20 LOADING OR HEAVIER. CHECK WITH MANUFACTURER FOR INFORMATION ABOUT MINIMUM COVER AND LOAD RATINGS. IN NO CASE SHALL COVER OVER CULVERTS BE LESS THAN 1'. CULVERT LENGTHS ARE ESTIMATED ON THE PLANS BUT THERE MAY NEED TO BE SOME ADJUSTMENTS MADE TO THE LENGTHS OF THE CULVERTS DURING CONSTRUCTION.

RIP-RAP WILL BE PLACED AT ALL CULVERT INLETS AND OUTLETS AND ALSO, WHERE SPECIFIED ON THE PLAN AND PROFILE SHEETS. RIP-RAP WILL BE SIZED DEPENDANT UPON PIPE DIAMETER AS SHOWN.

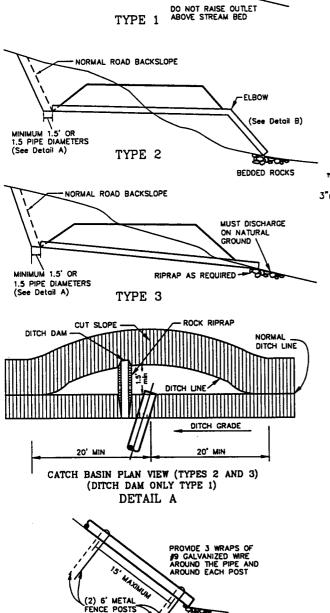
PIPE DIA. (Inches)	RIP-RAP SIZE
18-24	60% of stones shall be 8 Inch diameter or larger
30-60	60% of stones shall be 1 foot in diamter or larger

WHERE MULTIPLE CULVERTS ARE SPECIFIED ON THE PLANS, THERE SHALL BE NO LESS THAN THE FOLLOWING CLEARANCE BETWEEN THE CULVERTS.

PIPE DIA. (Inches)	CLEARANCE		
UP TO 24	12 Inch		
24 TO 72	1/2 PIPE DIA.		
72 AND OVER	36 Inch		

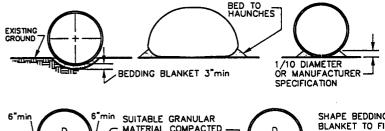
RIP RAP SHALL BE WELL GRADED WITH A SUFFICIENT AMOUNT OF SMALLER STONES UNIFORMLY DISTRIBUTED THOUGHOUT.

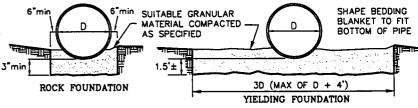
IN LIVE FISH BEARING STREAMS LOWER BOTTOM OF CULVERT 6" BELOW NATURAL CHANNEL SURFACE



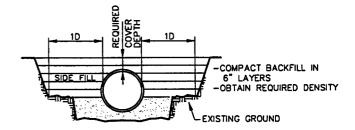
SPECIAL ANCHORING TYPE 2 DOWNDRAINS

DETAIL B

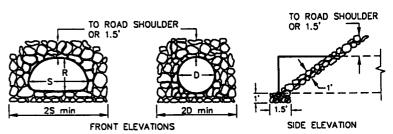




BEDDING DETAILS



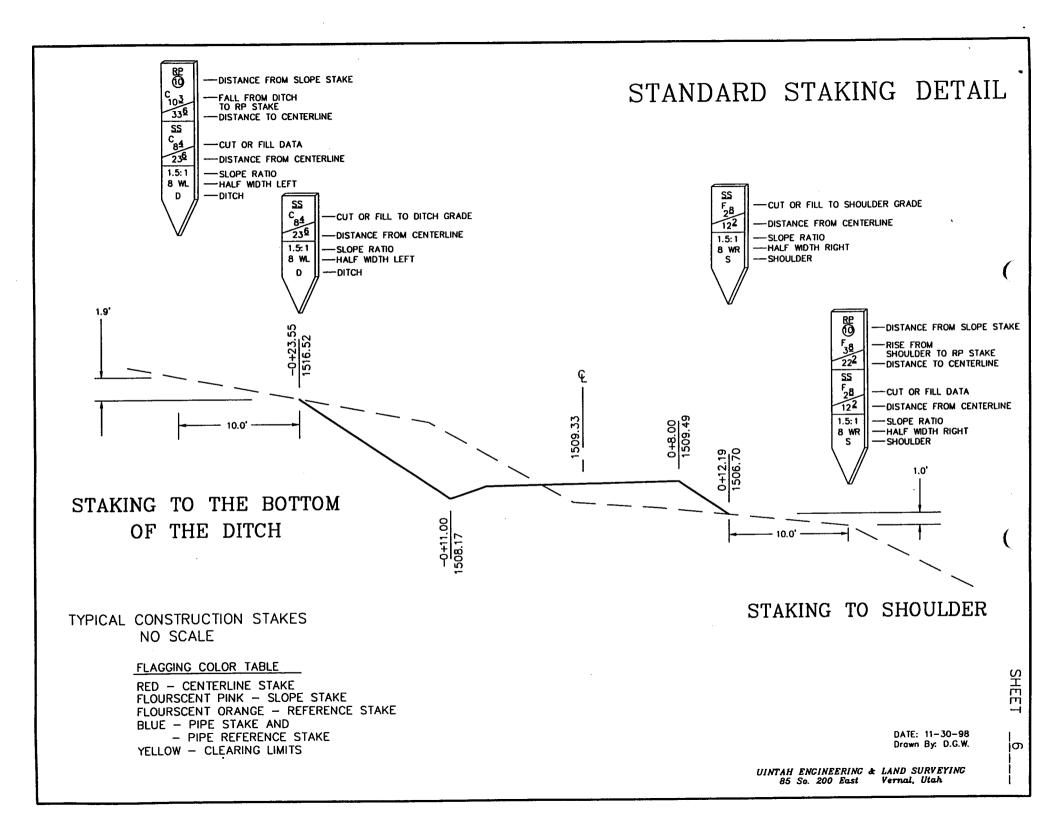
BACKFILL DETAIL

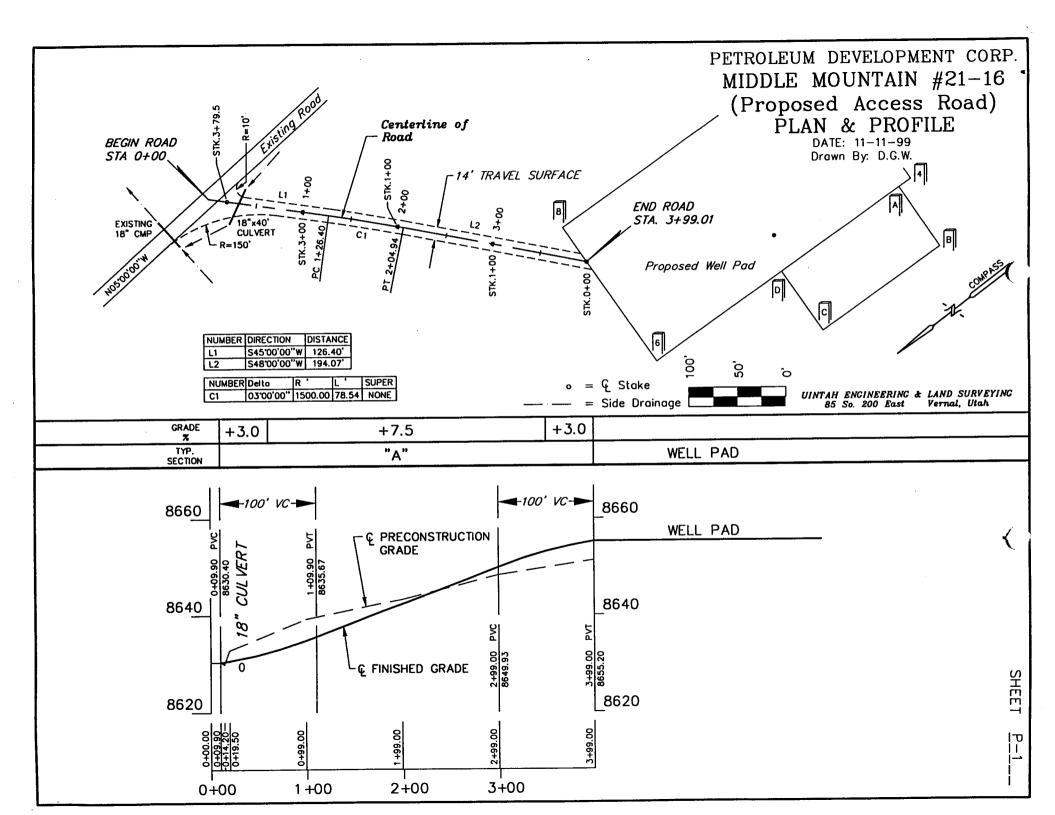


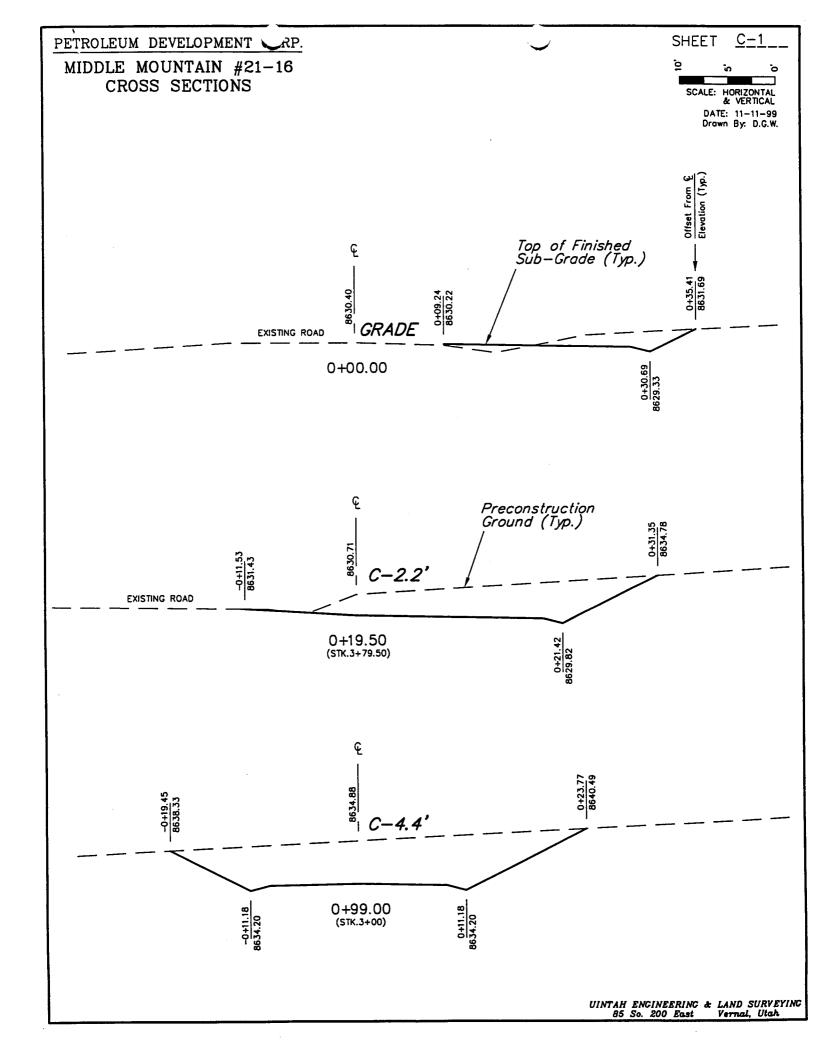
IN NARROW CHANNELS ADJUST RIPRAP TO FIT ORIGINAL STREAM BANKS.

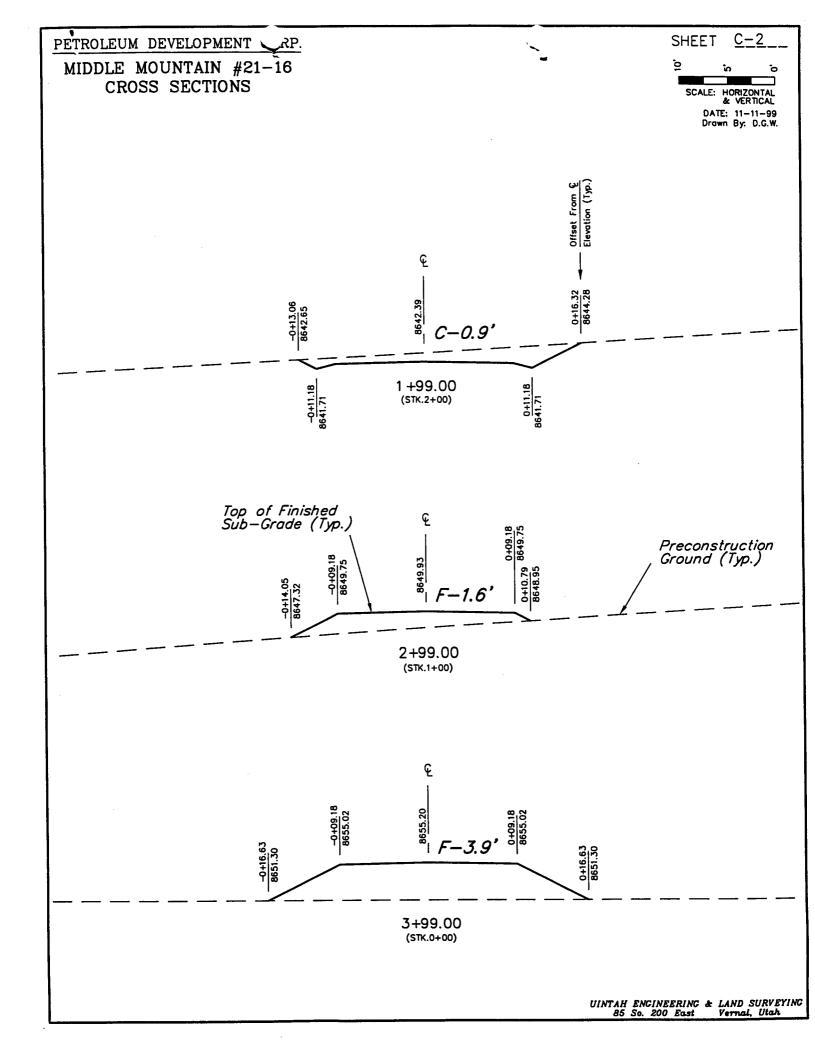
RIP RAP DETAIL

UINTAH ENCINEERING & LAND SURVEYING 85 So. 200 East Vernal, Utah









DETAIL	EARTHWORK	FROM STATIC	ON 0+	0.00 TO STAT	ION 3+99	.00
		0.00 ft 90.00 %		RIZONTAL SHIF		
X-SECTION STATION	AREA- CUT	sq yd FILL	V CUT	OLUME cu yd FILL	ADJU: TOTAL	STED cu yd ACCUM
0+ 0.00	2.3	-0.5	5.6	-0.9	4.6	4.6
0+ 9.90	1.1	0.0			-0.1	4.5
0+14.20	0.1	-1.2	9.7	-1.1	8.5	13.0
0+19.50	10.9		375.8	0.0	375.8	388.7
0+99.00			347.8	0.0	347.8	736.5
	3.5		57.6	-63.9	-12.0	723.2
		-3.8	0.0	-244.7	-244.7	451.2
	0.0			0 00 EO CENTE	ON 3+99.	00
				0.00 TO STATI		
		0.00 ft 90.00 %		ORIZONTAL SHIF VELL FACTOR	T 0.00 ft 110.00 %	
	TRIC FILL			-mi		

451.2

ADJUSTED TOTAL

( 451.2 cu yd EXCESS)

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/06/1999	API NO. ASSIGNE	CD: 43-015-3042	6
WELL NAME: MIDDLE MOUNTAIN 21-16  OPERATOR: FORTUNA (U. S.) INC ( N2160 )  CONTACT: TOM CARPENTER  PROPOSED LOCATION:	PHONE NUMBER: 80		
SESE 21 160S 060E	INSPECT LOCATN	BY: / /	
SURFACE: 1309 FSL 0834 FEL	Tech Review	Initials	Date
BOTTOM: 1309 FSL 0834 FEL EMERY	Engineering		
WILDCAT ( 1 )	Geology	, '•	
LEASE TYPE: 1 - Federal	Surface		
LEASE NUMBER: UTU-77263  SURFACE OWNER: 1 - Federal  PROPOSED FORMATION: DKTA	LATITUDE: 39.42 LONGITUDE: -111		
RECEIVED AND/OR REVIEWED:  Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. 33432617  Potash (Y/N)  N Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. Municipal  N RDCC Review (Y/N)  (Date:  NA Fee Surf Agreement (Y/N)	Drilling Uni  Board Cause Eff Date: Siting:	eneral rom Qtr/Qtr & 920' Exception	
STIPULATIONS: 1- Canal approved  2. Spaceny Sh.	A CH		
	4.4		



FIELD: WILDCAT (002)

**COUNTY: EMERY SPACING: R649-3-3** 

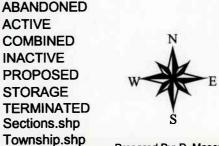


# Utah Oil Gas and Mining

Field Status

Counties.shp

#### **Units Status** Well Status **GAS INJECTION EXPLORATORY** GAS STORAGE LOCATION ABANDONED **GAS STORAGE** NF PP OIL **NEW LOCATION** NF SECONDARY **PLUGGED & ABANDONED PENDING** PRODUCING GAS PRODUCING OIL PI OIL SHUT-IN GAS PP GAS SHUT-IN OIL PP GEOTHERML TEMP. ABANDONED PP OIL **TEST WELL** WATER INJECTION WATER SUPPLY **SECONDARY TERMINATED** WATER DISPOSAL



Prepared By: D. Mason Date: 13-AUGUST-2002

48	
APD RECEIVED: 12/06/1999	API NO. ASSIGNED: 43-015-30426
WELL NAME: MIDDLE MOUNTAIN 21-16 OPERATOR: PETROLEUM DVLPMNT CORP ( N1260 ) CONTACT: LISA SMITH	PHONE NUMBER: 303-857-9999
PROPOSED LOCATION:	INSPECT LOCATN BY: / /
SESE 21 160S 060E SURFACE: 1309 FSL 0834 FEL	Tech Review Initials Date
BOTTOM: 1309 FSL 0834 FEL	Engineering
EMERY WILDCAT ( 1 )	Geology
LEASE TYPE: 1- Fed.	Surface
PROPOSED FORMATION: DKTA  RECEIVED AND/OR REVIEWED:	LOCATION AND SITING:
RECEIVED AND/OR REVIEWED:  Plat	R649-2-3. Unit
Bond: Fed[1] Ind[] Sta[] Fee[]	R649-3-2. General
(No. WT-Illdo)	Siting:
N Potash (Y/N) N Oil Shale (Y/N) *190 - 5 (B)	R649-3-3. Exception
Water Permit	Drilling Unit Board Cause No:
(No)	Eff Date:
_N/A RDCC Review (Y/N) (Date: )	Siting:
N/A Fee Surf Agreement (Y/N)	R649-3-11. Directional Drill
STIPULATIONS: 1-Frd. Geproval  2-Spacing Stif.	



Division of Oil, Gas & Mining

OPERATOR: PETROLEUM DEVELOPMENT (N1260)

FIELD: WILDCAT (001)

SEC. 21, TWP 16 S, RNG 6 E

COUNTY: EMERY

				15	
17		16		T See	
	_		0		_
20		21			22
			® MIDDLE MOUNTAIN #21-	16	
					MARY D KEARNS
29		28			27
	20	29	29 25	20 21	20. 21  @MIDDLE MOUNTAIN #21-16

PREPARED DATE: 8-DEC-1999 FORM 3160-3 (December 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR

SUBMIT "RIPLICATE\* (Other betions on reverse side)

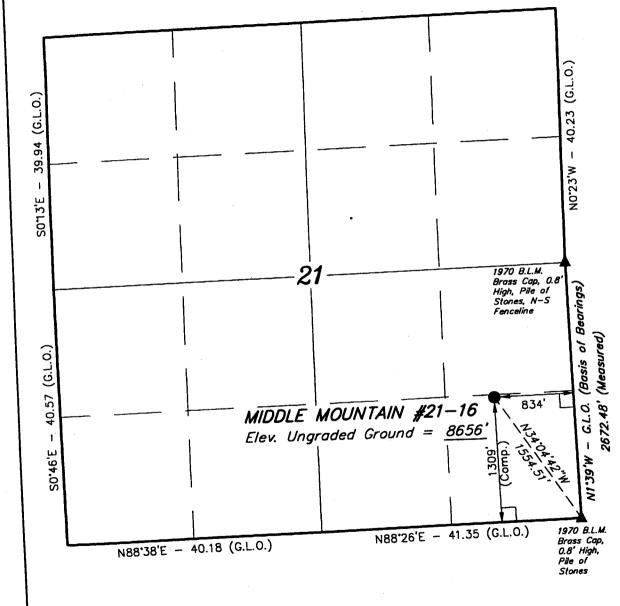
Form approved. Budget Bureau No. 1004-0136 Expires December 31, 1991

	5. LEASE DESIGNATION AND SERIAL NO.
RECEIVE	UTU-77263

4		ND MANAGEMEN		D OFFICE	
APPLICAT	TION FOR PERMIT TO	DRILL, DEEPEN	, OR PLUG BACK	N/Ā	
. TYPE OF WORK	DRILL X	DEEPEN	1999 DEC -b	7. UNIT AGREEMENT N.	AME
TYPE OF WELL	C48		SINGLE	8. FARM OR LEASE NA	ME, WELL NO.
WELL	GAS X OTHER	102	ZONE ZONE  East Main Street	ाडि। ERIOR अस्टि  <b>#Middle Mo</b> u	ntain #21-16
NAME OF OPERATOR	Phone: 304/8	42-3597 103 1 842-0913 Brid	geport, WV 26330	9. API WELL NO.	- 1/. /
Petroleum Developi	ment corp. z and	57,0000 1442	1 County Road 10	43015	30426
Permitto Inc.	Fax: 303/	857-0577 Ft. I	upton, CO 80621	10. FIELD AND POOL, C	OR WILDCA1
LOCATION OF WELL (R	eport location clearly and in accordance	with any State requirements.*)	_	11. SEC., T., R., M., OR E	BLK.
t Surface 1309' FSL and 8	R34' FEL			AND SURVEY OR A	REA
at proposed prod. zone	354 I DE			Sec. 21, T10	6S - R6E
CE CE Coc 21 '	Г16S - R6E	POOT OFFICE		12. COUNTY OR PARIS	
DISTANCE IN MILES AND	DIRECTION FROM NEAREST TOWN OR  1.9 Miles northeast of O	rangeville. Utah		Emery	Utah
5. DISTANCE FROM PRO	POSED*	I dingovino, o	6. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL	
LOCATION TO NEARE	EST LINE, FT.	834'	7189.23		Acres
(Also to nearest drlg. uni	DOSED LOCATION *	1	9. PROPOSED DEPTH	20. ROTARY OR CABLE TOO	LS
TO NEAREST WELL. OR APPLIED FOR, ON	DRILLING, COMPLETED.	None	8,400'	Ro	tary
21. ELEVATIONS (Show whether		None	0,100	22. APPROX. DATE W	ork will start* y 15, 2000
8656'				Jui	15, 2000
23.			AND CEMENTING PROGRAM SEITING DEPTH	QUANTIT	Y OF CEMENT
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	120'	167 sxs - circulat	
17-1/2''	13-3/8"	48#	2,700'	531 sxs - circulat	
12-1/4" 8-3/4"	9-5/8'' 4-1/2''	36# 11.6#	8,400'	647 sx - top of ce	ement @ 6641'
If productive, ca and State of Utal See Onshore Ore Please be advised Petroleum Devel operations condu Bond coverage f under separate of	opment Corporation prising will be run and the hirequirements.  der No. 1 attached.  d that Petroleum Development Corporation agusted upon the leased later of this well is provided cover by Petroleum Development data on subsurface locations and	oppment Corporation trees to be responsible to be present	is considered to be the ole under the terms and opment Corporation.  The considered to be the ole under the terms and opment Corporation.  The consultant Formula is a consultant for the consultant for th	Operator of the all conditions of the least conditions	oove mentioned wease for the  abmitted  SHELLWIDE  If proposal is to drill or
24.	y L Durke	π	TLE Petroleum Dev	vlopment Corp	Date 12/3/99
(This space for Federal or	State office use)				
			APPROVAL DATE	V har a serience them	om.
Application approval does	not warrant or certify that the applicant holds	legal or equitable title to those rights	in the subject lease which would entitle the	appueant to conduct operations there	-
CONDITIONS OF APPRO	OVAL, IF ANY:				JUN_ L.5 20
APPROVED BY	/S/ WELLANC.	THEOLOGICAL T	Assistant Fle Division of CONDITIONS	Resources LA	TAXED "

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A\*See Instructions On Reverse Side JUN 20 2001 Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. DIVISION OF OIL, GAS AND MINING

# T16S, R6E, S.L.B.&M.



### LEGEND:

\_\_ = 90. SYMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

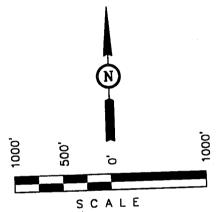
LATITUDE = 39°24'45" LONGITUDE = 111°14'56"

# PETROLEUM DEVELOPMENT CORP.

Well location, MIDDLE MOUNTAIN #21-16, located as shown in the SE 1/4 SE 1/4 of Section 21, T16S, R6E, S.L.B.&M. Emery County Utah.

### BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 21, T16S, R6E, S.L.B.&M. TAKEN FROM THE RILDA CANYON. QUADRANGLE, UTAH, EMERY COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8525 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS WADE BY MEN OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELFE

REGISTERED LAND SURVEYOR PREGISTRATION NO. 161319

Revised: 10-14-99 C.B.T.

# UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

1011	
DATE SURVEYED: 6-17-99	DATE DRAWN: 6-24-99
REFERENCES G.L.O. PLA	.т
FILE PETROLEUM DEVELOPMENT CORP.	
	6-17-99 REFERENCES G.L.O. PLA

Petroleum Development Corporation Middle Mountain No. 21-16 Lease U-77263 SESE Section 21, T16S, R6E Emery County, Utah

A COMPLETE COPY OF THIS PERMIT SHALL BE KEPT ON LOCATION, from the beginning of site construction through well completion, and shall be available to contractors to ensure compliance.

### **CONDITIONS OF APPROVAL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Petroleum Development Corporation is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT 1166 (Principal - Petroleum Development Corporation) via surety consent as provided for in 43 CFR § 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR § 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR § 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors.

### A. DRILLING PROGRAM

- 1. The proposed 3M BOP system is adequate for the depths and formations to be penetrated.
- 2. The requirements for air drilling, found in Onshore Oil and Gas Order No. 2, part III, E (Special Drilling Operations), shall be followed. This section requires, at a minimum, the use of the following equipment not mentioned in the application:

Spark arresters
Blooie line discharge at least 100 feet from wellbore
Straight blooie line
Deduster equipment
Float valve above bit
Automatic igniter on the blooie line

3. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining is required before conducting any surface disturbing activities. This would include approval of the proposed "exception" location.

### **B. SURFACE**

General Manti-La Sal National Forest Requirements For Oil and Gas Drilling

The following are general requirements to be applied by the operator as conditions for approval to the Surface-Use Plan of Operations as part of the Application for a Permit to Drill (APD). They are further refined by stipulations 34-44 based on the environmental analysis conducted (project file).

- 1) The pad and road designs must be consistent with Forest Service specifications as outlined in the Region 4 Oil and Gas Roading Guidelines and the Manti-La Sal National Forest Oil and Gas Well Site Guidelines and are subject to Forest Service approval. No construction operations may begin prior to approval. Any modifications to approved plans are also subject to review and approval. Road use permit will be required to authorize commercial use of Forest Roads. Routes authorized for use must have a minimum of 4" aggregate surfacing unless an engineering evaluation substantiates native roadbed material will support the intended traffic. Dust control will be necessary.
- 2) A pre-construction meeting including the responsible company representative(s), contractors, and the Forest Service must be conducted at the project site prior to commencement of surface-disturbing activities. The pad and roadwork must be construction-staked prior to this meeting. Site-specific requirements will be discussed at this time.
- 3) The operator shall submit for approval, a maintenance plan for the site, the project road and that portion of any Forest Road to be used for project access. A road-use permit must be obtained from the Forest Service authorizing commercial use of Forest Roads. Requirements listed in the road-use permit must be followed. In the event of a discovery, an updated maintenance plan will be required.
- 4) The operator must acquire appropriate permission to use non-Forest Service Roads.
- 5) The project engineer and surveyors must be certified by the State in which they reside or maintain their business.
- 6) All surface-disturbing activities, including reclamation, must be supervised by a qualified, responsible official or representative of the designated operator who is aware of the terms and conditions of the APD and specifications in the approved plans.
- 7) Adequate signs must be posted along Forest Roads to warn the public of project related traffic.
- 8) Mobilization of the drill rig will not be allowed during holiday weekends and opening weekends of the general season deer and elk hunts, including the Friday before holiday and opening weekends, and will be restricted during the big game hunting seasons as specified by the Forest Service as conditions for approval of the Surface-Use Plan of Operations.
- 9) In the event of a discovery, a revised surface-use plan must be submitted to the Forest Service showing all needed production facilities. Production facilities may be subject to further environmental analyses and approval by the Forest Service.

- 10) Establishment of campsites on the pad or at other locations on National Forest System lands by the operator or his contractors is subject to Forest Service approval.
- 11) A cultural resources survey and clearance by a qualified archeologist is required under a Forest Service special-use permit prior to approval of the Surface-Use Plan of Operations. If cultural or paleontological resources are discovered during operations, all operations which may result in disturbance to the resource must cease and the Forest Service must be notified of the discovery as soon as possible.
- 12) The Forest Service will conduct a survey of the project area for Threatened, Endangered and Sensitive plant and animal species. The operator will be notified of the results of the survey with any special requirements for protecting them, if any are present.
- 13) Unauthorized off-road vehicular travel is prohibited.
- 14) Section corners, survey markers and claim corners in the project area must be located and flagged by the operator prior to operations. The removal or disturbance of identified markers must be approved by the proper authority.
- 15) Water needed for operations must be properly and legally obtained according to State water laws. The location of diversion, if on National Forest System lands, is subject to Forest Service approval.
- 16) Fire suppression equipment must be available to all personnel on the project site. Equipment must include a minimum of one hand tool per crew member consisting of shovels, pulaskis, and chainsaws and one properly rated fire extinguisher per vehicle and/or internal combustion engine.
- 17) All gasoline, diesel and steam-powered equipment must be equipped with effective spark arresters or mufflers. Spark arresters must meet Forest Service specifications discussed in the USDA Forest Service Spark Arrester Guide. In additions, all electrical equipment must be properly insulated to prevent sparks.
- 18) The operator will be held responsible for damage and suppression costs for fires started as a result of operations. Fires must be reported to the Forest Service as soon as possible.
- 19) All accidents or mishaps resulting in resource damage and/or serious personal injury must be reported to the Forest Service as soon as possible.
- 20) Vehicle operators must obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- 21) All drilling fluids must be contained in the reserve pit. All appropriate measures must be taken to assure that leakage through the reserve pit does not occur and that fluids are not allowed to overflow. A minimum of 2 feet of freeboard is required.
- 22) Sanitary facilities are required on site at all times during operations. The installation of facilities other than self-contained chemical toilets is subject to State and Forest Service approval.
- 23) Harassment of wildlife and livestock is prohibited; any dogs on site will be leashed at all times.
- 24) All merchantable timber removed or destroyed by construction or other project related activities will be purchased by the operator at fair market value. The Forest Service will conduct a timber cruise and appraisal after the final clearing limits have been staked. Slash burning will be conducted only at locations approved by

the Forest Service under authorization or a burning permit. Burning of garbage and debris is prohibited.

- 25) All Topsoil must be stripped from areas to be disturbed and stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- 26) Following completion of the project, the pad and project area must be replaced to the approximate original contour unless otherwise specified in the Forest Service conditions for approval of the Surface-Use Plan of Operations.
- 27) The reserve pit must be dry before it is backfilled and reclaimed. The pit must be fenced (5 strand barbed wire) at all times until it is reclaimed. Methods for drying the pit, other than natural evaporation, are subject to prior Forest Service approval.
- 28) Unless otherwise specified in the Forest Service conditions for approval the Surface-Use Plan of Operations, contaminated soils and gravel in the project area and the contents of the reserve pit and/or closed mud system will be removed from the National Forest and disposed of at an approved facility. Exceptions may be granted if the operator can demonstrate non-toxicity through testing or isolation through encapsulation.
- 29) Stockpiled topsoil must be redistributed evenly over the disturbed area upon reclamation.
- 30) The seed mix and other planting requirements will be specified in the Forest Service conditions for approval of the Surface-Use Plan of Operations. The pad area must be fenced (let-down fence) and the project road must be adequately closed off to prevent continued use until the required reclamation standards are successfully achieved, refer to Stipulation #32.
- 31) All trash, garbage and other refuse must be properly contained on the site during operations and periodically disposed of off-Forest at an approved refuse facility. Following completion of operations, all unnecessary equipment, materials and refuse must be removed from the Forest as soon as possible.
- 32) In general, the disturbed areas will be considered adequately revegetated when at least 90 percent of the original ground cover is re-established over 90 percent of the seeded area, within three years of planting, consisting of seeded and desirable species. Maximum allowable non-noxious weeds is 10 percent of the total ground cover at any time. No noxious weeds will be allowed on the site; they must be treated as they occur. The operator is responsible for maintenance of reclamation facilities such as fences, barricades and temporary drainage structures until the desired reclaimed conditions are achieved. If the desired ground cover is not established at the end of each 3 year period, an analysis of why the area has not recovered will be performed by the operator and additional treatment and seeding will be required based on the results of the analysis.
- 33) Straw, hay, feed, or pellets used on the National Forest's of Utah must be certified weed-free by the State of Utah.

### Additional Stipulations Specific to the Project

These stipulations further clarify and refine the general stipulations 1-33 provided above based on the environmental analysis (project file).

- 34) All fluids and wastewater will be contained in a lined reserve pit and/or tanks. Containment dikes or berms will be built around the drilling pads to contain any run-off and spills.
- 35) If the well is a dry hole, rehabilitation will begin right after drilling is complete with appropriate drainage structures constructed and recontouring of the terrain to approximate original condition.

- 36) If the well produces gas, rehabilitation will begin immediately after drilling to the extent possible for that portion of the pad not needed for production. Production pad designs are subject to FS approval.
- 37) Revegetation will be accomplished after scarification and topsoiling with approved weed free seed mixtures consistent with the Utah Seed Act.

### Seed Mix for Middle Mountain Well #21-16

Common Name	Scientific Name	Lbs/Acre
Western wheatgrass Intermediate wheatgrass Slender wheatgrass Mtn. Brome grass Perennial ryegrass Great Basin ryegrass Alfalfa-Ladak Blue aster Cicer milkvetch	Agropyron smithii Agropyron intermedium Agropyron trachycaulum Bromes carinatus Lolium perenne Elymus cinereus Medicago sativa var. ladak Aster glaucodes Astragalus cicer	2 2 1 2 1 1 0.25
	Total 12.25	Lbs/ac

Remarks: The area will reclaim better if the mix is seeded using a rangeland drill.

- 38) A fence will be placed around the reclaimed site to allow for successful revegetation and stabilization.
- 39) Drillers will be housed off Forest.
- 40) Operations other than normal maintenance of producing wells is not allowed from May 15th to July 15th to protect elk calving and deer fawning habitat.
- 41) Maintenance of the site and production facilities will be by over-snow vehicle in winter.
- 42) In the event that the well becomes a producer, a screen of trees will be planted by the operator to minimize visibility of the pad and production facilities from adjacent dispersed recreation sites and the Millers Flat Road.
- 43) If the well does not produce, uncontaminated gravel/road base installed for drilling operations will be salvaged and stockpiled as designated by the Forest Service representative. Appropriate barriers will be installed as necessary to keep vehicles on the graveled surface.
- 44) A gate must be constructed on the project access road for each site to exclude public access. The locking mechanism must be capable of using multiple locks, including a Forest Service lock to be provided by the Forest Service. The location, design, and signing of the gates must meet Forest Service specifications are subject to Forest Service approval.
- 45) All equipment will be cleaned before entering the National Forest to ensure it is free of noxious weed seed.

## C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

<u>Building Location</u>- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

Spud- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

<u>Daily Drilling Reports</u>- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

<u>Sundry Notices</u>- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

<u>Drilling Suspensions</u>- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

<u>Undesirable Events</u>- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

<u>Cultural Resources</u>- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Price Field Office is to be notified.

<u>First Production</u>- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Price Field Office. The Price Field Office shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

<u>Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order 7.</u>

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

<u>Plugging and Abandonment</u>- If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Price Field Office or the appropriate surface managing agency.

#### TABLE 1

### **NOTIFICATIONS**

Notify Mike Kaminski (work: 435-636-3640, home: 435-637-2518) or Don Stephens (work: 435-636-3608, home: 435-637-7967) of the BLM, Price Field Office for the following:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching the surface casing (13%") and intermediate casing (95%") setting depths.

If the people above cannot be reached, notify the Moab Field Office at (435) 259-2100. If unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at (435) 259-2100. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer Office: (435) 259-2117

Home: (435) 259-2214

# Division of Oil, Gas and Mining PHONE CONVERSATION DOCUMENTATION FORM

Wel	iginal/copy to:  Il File <u>middle mfn. 21-16</u> Outs Velley 20-1  SecTwpRng.  Io.)	Suspense (Return Date) (To-Initials)	
1.	Date of Phone Call: 3-15-0	<u> </u>	00
2.	DOGM Employee (name)	L. Cordova (	☑ <sub>Initiated Call)</sub>
L.	Talked to:  Name Ton Carperla  of (Company/Organization)	( Initiated Call) - Phone	No. (800) 624-3821
3.	Topic of Conversation: <u>L.L.</u>		dr:11?
4.	Highlights of Conversation:  Sold to Telismen En	ergy: m:k. Marsen (	(403) 237-1163 [all 2001.
	3-18-02 mike Mars Cont. hold, amen * Fortuna will at Joe's Valley may	en ded into on way i. icially operate wells. reguire another Et	Whr. firmit & Exlocitio. (21-16)

## FORTUNA

FORTUNA (U.S.) INC.

SUITE 3400, 888 3RD STREET S.W. CALGARY, ALBERTA T2P 5C5 FAX (403) 237-1902 TEL (403) 237-1234 www.talisman-energy.com

June 6, 2002

Leicia Cordoba State of Utah Division of Oil, Gas & Mining 1594 West North Temple Suite 1210 Box 145801 Salt Lake City, Utah 84114

Dear Ms. Cordoba:

RE: Middle Mountain #21-16 Change of Operatorship

Enclosed is a Sundry Notice stating that Fortuna (U.S.) Inc has assumed operatorship of the Middle Mountain #21-16 well effective July 1, 2001.

Should you require further information, please contact me at (403) 237-1011.

Sincerely,

FORTUNA (U.S.) INC.

A Hamaranes

Arne Hamarsnes, P. Eng.

**Drilling Engineer** 

RECEIVED

JUN 13 2002

DIVISION OF OIL, GAS AND MINING

## STATE OF UTAH ARTMENT OF NATURAL RESOURCES

	DIVISION OF OIL, GAS AND I		5. LEASE DESIGNATION AND SERIAL NUMBER:			
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
SUNDR	Y NOTICES AND REPOR	TS ON WELLS				
drill horizontal	Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, o drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.					
1. TYPE OF WELL OIL WELL	GAS WELL OTHER	₹	8. WELL NAME and NUMBER: MIDDLE MOUNTAIN # 21-16			
2. NAME OF OPERATOR: FORT	WA (U.S.) INC.		9. API NUMBER:			
1 ADDRESS OF OPERATOR		PHONE NUMBER: (%3)237-10/1	10. FIELD AND POOL, OR WILDCAT:			
4. LOCATION OF WELL	SOUTH , 834 'EAST		COUNTY: EMERY			
		21, TOWNSHIP 165, RANGE GO	E STATE: UTAH			
11. CHECK APP	ROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION			
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL			
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON			
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR			
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE			
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL			
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF			
Date of work compression.	COMMINGLE PRODUCING FORMATION	IS RECLAMATION OF WELL SITE	M OTHER CHANGE OF			
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	OPERATORSHIP			
		all pertinent details including dates, depths, volu				
H	IRTUNA (U.S.) MI	C. HAS TAKEN OVE PAIN #21-16 WELL	R CHERTICALITY			
OF	: THE MIDDLEMOUNT	AIN +21-16 WELL				
E	FERTIVE JULY 1,	, 200).				
	· · · · · · · · · · · · · · · · · · ·		1			
NAME (PLEASE PRINT) ARNESIGNATURE A. Hame	HAMARSNES	DATE Jame 6,2	ENGINEER			
SIGNATURE A. Ham	anner 1. Eng.	DATE Jame 6, 2	2002			
		7	PECEIVE			
us space for State use only)						

JUN 13 2002



## **Petroleum Development** Corporation

103 East Main Street P. O. Box 26 Bridgeport, West Virginia 26330

Phone: (304) 842-3597

June 19, 2002

Jim Thompson State of Utah, Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, UT 84114

Dear Mr. Thompson:

Middle Mountain #21-16 Change of Operator RE:

Enclosed is a Sundry Notice advising you that Petroleum Development Corporation, Inc. has sold its interest in the properties associated with the above pending well to Fortuna (U.S.), Inc. effective July 1, 2001. Please make the appropriate changes in your records.

Should you require additional information, please contact me at (304) 842-3597.

Sincerely,

Tom Carpenter

Geologist

Xc: A. Hamarsnes, Fortuna RECEIVED

JUN 2 4 2002

**DIVISION OF** OIL, GAS AND MINING

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING

	DIVISION OF OIL, GAS AND MIT	NING		UTU-77263
SUNDRY	Y NOTICES AND REPORTS	ON WELLS	6. IF IN	IDIAN, ALLOTTEE OR TRIBE NAME:
	new wells, significantly deepen existing wells below our starts. Use APPLICATION FOR PERMIT TO ORIGE			For CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL				L NAME and NUMBER: Middle Mountain #21-16
2. NAME OF OPERATOR:			9. API	NUMBER:
	opment Corporation	PHONE NUM	95D: 40 5%	ELD AND POOL, OR WILDCAT:
3. ADDRESS OF OPERATOR: 103 E. Main Street CIT	TY Bridgeport STATE WV ZIP			Vildcat
4. LOCATION OF WELL	SIAIE ZIP			
FOOTAGES AT SURFACE: 659' F	EL & 722' FSL		COUNT	rv: Emery
QTR/QTR, SECTION, TOWNSHIP, RAN	NGE, MERIDIAN: SESE Section 21 T165	S R6E	STATE	: Hatu
" CHECK APP	ROPRIATE BOXES TO INDICAT	E NATURE OF NOT	CE. REPORT. O	R OTHER DATA
TYPE OF SUBMISSION		TYPE OF AC		
	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
X NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE TREAT		SIDETRACK TO REPAIR WELL
Approximate date work will start:	CABING REPAIR	NEW CONSTRUCTION		TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE		TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON		VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK		WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/RE	SUME)	WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL	SITE	OTHER:
	CONVERT WELL TYPE	RECOMPLETE - DIFFERE	INT FORMATION	
12. DESCRIBE PROPOSED OR C	COMPLETED OPERATIONS. Clearly show all p	pertinent details including dates	, depths, volumes, etc.	
		-		
Fortuna (U.S.) has tak	en over operatorship of the Middle	Mountain #21-16 we	II effective July 21	, 2001.
Fortuna (U.S.) Inc.				
Suite 3400 888 3rd Str	reet SW			
Calgary, Alberta Canad	da T2P 5C5			
(403) 237-1234				
,				·
NAME (PLEASE PRINT) Tom Car	rpenter	TITLE Geolo	gist	
The property of the state of th			_	405
SIGNATURE	aspenter	DATE	June 19, 2	002
			<u>v</u>	

(This space for State use only)

**RECEIVED** 

(5/2000)

(See Instructions on Reverse Side)

JUN 2 4 2002

DIVISION OF OIL, GAS AND MINING

Form 3160-5 UNITED STATES (August 1999) DEPARTMENT OF THE INTERIOR PORM APPROVED OMB No. 1004-0135 Expirex November 30, 2000 BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS Lease Serial No. Do not use this form for proposals to drill or to re-enter an abundoned well. Use Form 3160-3 (APD) for such proposals. UTU 77263 6. If Indian, Allottee or Tribo Name SUBMIT IN TRIPLICATE Other instructions on reverse side 7. If Unit of CA/Agreement, Name and/or No. Type of Well Oil Well Gas Walt O Other Name of Operator FORTUNA 8. Well Name and No. MIDDLE MOUNTAIN 3a. Address 9. API Well No. 3b. Phone No. (include area code)
(903) 237 - 1011 SUITE 3400, 888 - 2 FD ST, S.W. CALCARY, AB

4. Location of Well (Footage, Sec., T., R. M., or Survey Deskription) 10. Pield and Pool, or Exploratory Area WILDCHT 1309'S, 834'E, SE/SE, SECTION 21, TOWNSHIP 165, PANGE GE 11. County or Parish, State EMERY, UTAH 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Notice of Intent Deepca Production (Start/Resume) Water Shut-Off Alter Casing Fracture Treat Reclumation. Subsequent Report Casing Repair Wall Integrity New Construction Recomplete Change Planz Other CHANGE OF Final Abandonment Netice Plug and Abandon Temporarily Abandon Convert to Injection OPERATORSHIP D Plug Back Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give substrates locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsquant reports shall be filed within 30 days testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) Water Disposal FORTUNA (U.S.) INC HAS TAKEN OVER OPERATORSHIP OF THE MIDDLEMOUNTAIN # 21-16 WELL EFFECTIVE BOND COVERAGE IS PROVIDED BY BOND UT 1243 RECEIVED AUG 0 7 2002 DIVISION OF 4. I hardby certify that the foregoing is true and correct GAS AND MINING Name (Printed/Typed) RNE HAMARSNES TILLE DRILLING ENGINEER Signature une 6,2002 THIS SPACE FOR PEDERAL OR STATE OFFICE USE hunosed ph VCCEPTED middens of approval, if any, are attached. Approval of this notice does not warrant or nify that the applicant holds legal or equitable title to those rights in the subject lease such would entitle the applicant to conduct operations thereon. Division of Resources

tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United any faise, fictionus or fraudulent statements or representations as to any matter within its jurisdiction.

Conditions of Acceptance Attacher

Moab Field Office

Fortuna (U.S.) Inc.
Well No. Middle Mountain 21-16
SESE Sec. 21, T. 16 S., R. 6 E.
Lease UTU77263
Ernery County, Utah

## **CONDITIONS OF ACCEPTANCE**

Acceptance of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Fortuna (U.S.) Inc. is considered to be the operator of the above well effective July 1, 2001, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT1263 (Principal -Fortuna (U.S.) Inc.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable <u>until</u> the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

RECEIVED TIME AUG 11:06AM



Forest Service

Manti-La Sal National Forest

File Code: 2820 THE INTERIOR
Date: 141 P.F. 2008 MICHT

Daryl Trotter
Burcau of Land Management
Moab Field Office
82 East Dogwood
Moab, UT 84532

## Dear Daryl:

In response to your letter of June 19, 2002 we have no objection to a one-year extension of the Application for Permit to Drill (APD) for the Middle Mountain Federal No. 21-16 well.

The APD was submitted and permitted under the name of Petroleum Development Company (PDC). Our understanding is that PDC has transferred operations to Fortuna. Please provide us with official documentation regarding the transfer and current permittee/operator of record.

If you have any questions, contact Carter Reed at the Forest Supervisor's Office.

Sincerely,

PLAINE J. ZIEROTH Forest Supervisor

cc: D-2/3

MOAB OFFICE

X INNT/DATE
FOM
Res. Advisors
AFM. Resources 4-3/24AFM. Sup Sery
Ope
Bus Prac
Fire
SUFOA

Action
Info
Discuss



00,7

Extension of Application for Permit to Drill Fortuna (U.S.) Inc.
Middle Mountain No. 21-16
Lease U-77263
Sec 21. T16S, R6E
Emery County, Utah

## CONDITIONS OF APPROVAL

- 1. The valid term of this APD is hereby extended by one-year, through June 15, 2003.
- 2. All conditions of the original approval, and its subsequent amendments, remain in effect.

FROM: (Old Operator):

Address: 103 E. MAIN STREET

## **OPERATOR CHANGE WORKSHEET**

## 005

	R	OUTING
	1.	GLH
-	2	CDW/

3. FILE

## X Change of Operator (Well Sold)

PETROLEUM DEVELOPMENT CORPORATION

The operator of the well(s) listed below has changed, effective:

Designation of Agent

Address: 3RD STREET SOUTHWEST, STE 3400-888

Operator Name Change

Merger

07-01-2001

**TO:** ( New Operator):

FORTUNA (US) INC

Phone: 1-(304)-842-6256 Account No. N1260  CA No. WELL(S)  NAME  MIDDLE MOUNTAIN 21-16	O.  SEC TWN RNG 21-16S-06E	Phone: 1-(403) Account No. Unit:  API NO	N2160	LEASE		
WELL(S) NAME	SEC TWN RNG	Unit:		liease		
WELL(S) NAME	SEC TWN RNG		ENTITY	ILEASE		
NAME	RNG	API NO	ENTITY	LEASE		
	RNG	API NO	ENTITY	LEASE		
				I .	WELL	WELL
MIDDLE MOUNTAIN 21-16	21-16S-06E		NO	TYPE	TYPE	STATUS
		43-015-30426	99999	FEDERAL	GW	APD
						ļ
i						
						<u> </u>
						ļ
		,				<del> </del>
			l	]		
OPERATOR CHANGES DOCUMENTATION Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation was received.		MER operator	on:	06/24/2002		
2. (R649-8-10) Sundry or legal documentation was received	red from the NEW	V operator on:	06/13/2002	2		
3. The new company has been checked through the <b>Depa</b>	rtment of Comm	erce, Division o	of Corpora	tions Databa	ase on:	08/08/2002
4. Is the new operator registered in the State of Utah:	YES	Business Numb	er: 5	105943-014	3	
5. If <b>NO</b> , the operator was contacted contacted on:	N/A					
6. (R649-9-2) Waste Management Plan received on:	IN PLACE	-				

7.	Federal and Indian Units: The BLM or BIA has approved the successor of unit open	erator for wells	listed on:	<u>N/A</u>		
8.	Federal and Indian Communization Agreeme	ents ("CA"	):			1
	The BLM or BIA has approved the operator for all wells	s listed within a	a CA on:	N/A		
9.	Underground Injection Control ("UIC")	The Division	has approve	d UIC Form 5,	Transfer of Aut	hority to Inject,
	for the enhanced/secondary recovery unit/project for the v	water disposal	well(s) listed	on:	N/A	
$\overline{\mathbf{D}}$	TA ENTRY:					
1.	Changes entered in the Oil and Gas Database on:	08/08/2002	•			
2.	Changes have been entered on the Monthly Operator Ch	nange Spread	Sheet on:	08/08/2002		
3.	Bond information entered in RBDMS on:	N/A	-			
4.	Fee wells attached to bond in RBDMS on:	N/A	-			
ST	ATE WELL(S) BOND VERIFICATION:					
1.	State well(s) covered by Bond Number:	N/A	_			
FF	DERAL WELL(S) BOND VERIFICATION:					
1.	Federal well(s) covered by Bond Number:	UT 1263	_			
ĪN	DIAN WELL(S) BOND VERIFICATION:					
1.	Indian well(s) covered by Bond Number:	N/A	-			
FI	EE WELL(S) BOND VERIFICATION:					
1.	(R649-3-1) The <b>NEW</b> operator of any fee well(s) listed of	overed by Bon	d Number	N/A		
2.	The <b>FORMER</b> operator has requested a release of liability The Division sent response by letter on:	y from their bo N/A	nd on:	N/A		
L) 3.	EASE INTEREST OWNER NOTIFICATION (R649-2-10) The FORMER operator of the fee wells has of their responsibility to notify all interest owners of this continuous contractions.	been contacted	l and informe N/A	ed by a letter fro	m the Division	
C	OMMENTS:					
_						
			<u> </u>			
_						

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## Talon Resources, Inc.

Service, Quality and Accuracy

P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-637-5311 Email: talon@castlenet.com

August 13, 2002

Mr. Aaron Howe—Forest Engineer US Forest Service Supervisors Office 599 Price River Drive Price, Utah 84501

RE: Road Reconstruction Detail FDR 50040 — Forest Access to Middle Mountain #21-16 for Fortuna US

Dear Mr. Howe:

On behalf of Fortuna US, Talon Resources, Inc. respectfully submits the following information to supplement the previously submitted Application for Permit—Non-Federal Commercial Use of Roads Restricted By Order to access the proposed well site Middle Mountain #21-16.

Fortuna US will adopt the previously prepared Road Reconstruction Design Plans and Special Project Specifications package that was previously prepared by your office for Forest Development Road 50040. Fortuna US intents to begin reconstruction of the road consistent with the adopted plans and specifications, pending permit stipulations and published Roading Guidelines as soon as the permit is received. Furthermore, the reconstructed road and the remainder of the road previously upgraded will be maintained to Forest Specifications and material added where needed, or specified by you and your staff. Following well development activities the road will be repaired as needed and left in an acceptable condition prior to it being released back to Forest maintenance.

Thank you for your timely consideration of this information and our previously submitted applications. Please feel free to contact myself or Mr. Mark Moennich with Fortuna US, at 403-237-1785 if you should have any questions or need additional information prior to the permit being issued.

Sincerely,

Don Hamilton

Don Hamilton

Environmental Manager / Project Coordinator

#### **Enclosures**

cc:

Mr. Jeff Alexander, Forest Service, Supervisors Office

Mr. Carter Reed, Forest Service, Supervisors Office

Mr. Tom Lloyd, Forest Service, Ferron District Office

Mr. Mike Morrison, Fortuna US

Mrs. Leslie Zilm, Fortuna US

Mr. Arne Hamarsnes, Fortuna US

Mr. Mark Moennich, Fortuna US

RECEIVED

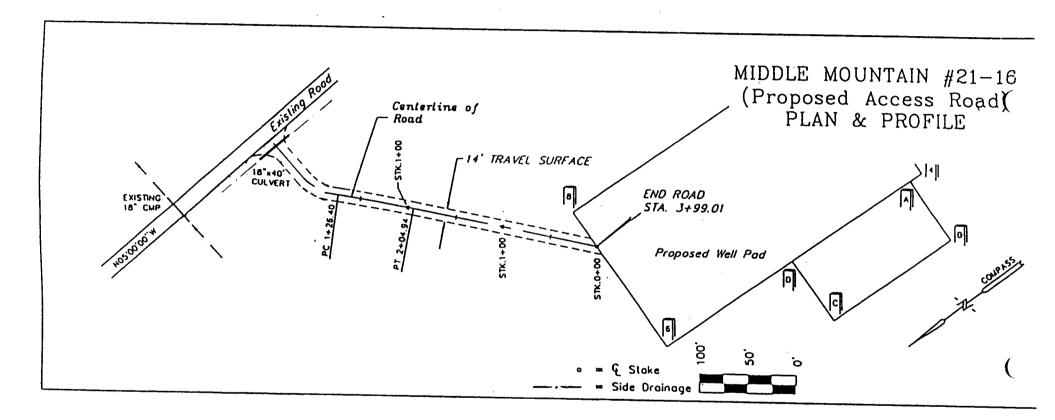
AUG 1 6 2002

DIVISION OF OIL, GAS AND MINING

FILE COPY

Form 3160-5 (June 1990)	DEPARTM	TED STATES OF THE INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
009		AND MANAGEMENT  AND REPORTS ON WELLS	5. Lease Designation and Serial No. UTU-77263
•	his form for proposal:	s to drill or to deepen or reentry to a nt reservoir.	6. If Indian, Allottee or Tribe Name N/A
	SUBMIT 1	N TRIPLICATE	7. If Unit or CA, Agreement Designation N/A
1. Type of Well Oil X Gas	s 🔲		8. Well Name and No. Middle Mountain #21-16
2. Name of Operator Fortuna U	JS		9. API Well No. 43-015-30426
3. Address and Telephon Suite 340	e No. 0, 888 3rd Street SW	, Calgary, Alberta T2P5C5 403-237-11	
4. Location of Well (F	ootage, Sec.,T., R:, M., or Surv	ey Description)	11. County or Parish, State
	L, 834' FEL 4, Section 21, T16S,	R6E. SLB&M	Emery County, Utah
	PROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, I	
12. CHECK AS	PROPRIATE BOX(S)	10 INDICATE MATORE OF MOTION	
TYPE OF	SUBMISSION	TYPE OF	FACTION
Notice of Inter	nt		Pipeline, Powerline, Maintenance Corridor Constructio
X Subsequent Re	eport	Change of Name	Change of Plans  New Construction
Final Abandon	nment Notice	Recompletion Plugging Back	Non-Routine Fracturing
		Casing Repair	Water Shut-Off
		Altering Casing	Conversion to Injection
			Dispose Water
The acces  The reloc	subsurface locations and measuress approach off of the liddle Mountain #21 cation was proposed	y state all pertinent details, and give pertinent dates, including ured and true vertical depths for all markers and zones pertinent dates. The Millers Flat Road (FDR 50014) leads 1-16 has been relocated to enter and extending the July 31, 2002 onsite visit to ce and Fortuna US.	ding to the proposed well site
The reloc	cation will provide f	or safer ingress and egress to and fron	n the proposed well site.
An updat	ted plan view has be	een attached for inclusion in the previo	ously approved permit to drill.
			FILE COPY
14. I hereby certify that the	he foregoing is true and correct		
Signed <u>Don Hamilton</u>		Agent for Fortuna US Date A	August 13, 2002
(This space for Federal or	State office use)		
Approved by if	Title	Date	AUG 1 6 2002

**DIVISION OF** 



## 010

From:

"Don Hamilton" <talon@castlenet.com>

To:

"Diana Mason" < Dianamason@utah.gov>

Date:

8/28/02 10:11AM

Subject:

Fortuna Middle Mountain #21-16 well

Diana:

Because of the drought we have really struggled finding water for the drilling of this well (Middle Mountain #21-16 43-015-30426). I am generating a sundry at this time stating that we will simply be purchasing water from town. If you have a moment please review your files and let me know if you need any additional information at this time. Over the past month I believe that Fortuna has completed the bond and change of operator that was needed. Fortuna is looking at beginning pad construction and drilling activities in the next couple of weeks and we want to insure that our state permit is in place prior to having our contractors submit bids.

Thank you in advance for your work on this.

Don

## TALON RESOURCES, INC.

375 S. Carbon Ave. (A-10), Suite 101, Price, Utah 84501 Phone: (435) 637-8781 (435) 650-1886 Fax: (435) 636-8603

## Fax Transmittal Cover Sheet

Date: 8/28/02

Number of pages: 2

Message To: Diana-Division of Oil, Gas, and Mining

Telephone Number: 1-801-538-5312

Fax Number: 1-801-359-3940

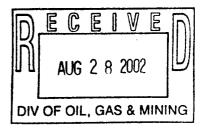
Diana:

Following is a sundry notice for the source of water on the Middle Mountain well. Please review and let me know if any changes need to be made.

A hard copy will follow by mail.

Please feel free to contact me if you have any questions or need additional information.

Don



Ferm 3160-5 (June 1990)	DEPART	ED STATES T OF THE INTERIOR AND MANAGEMENT	$\sim$	FORM APPROVED  Budger Burean No. 1004-0135  Espiren: Morah 31, 1993
2 Don	SUNDRY NOTICES A	AND REPORTS ON WELLS  If or to deepen or reentry to a different reservoir.		5. Lease Designation and Serial No. UTU-77263
2 5011	Use "APPLICATION FO	R PERMIT—" for such proposals		6. If Indian, Allottoc or Tribe Name N/A
SUBMIT IN TRIPLICATE				7. If Unk or CA, Agreement Designation N/A
	X Ges			8. Well Name and No. Middle Mountain #21-16
	una US			9. API Well No. 43-015-30426
	c 3400, 888 3rd Street SW	, Calgary, Alberta T2P5C5 403-23	7-1163	10. Field and Pool, or Exploratory Area. Wildcart
	Well (Footage, Sec.,T., R., M., or Surv	rey Description)		11. County or Purish, State
	9' FSL, 834' FEL 4 SE/4, Section 21, T16S,	R6E, SLB&M		Emery County, Utah
12, CHE	CK APPROPRIATE BOX(*	TO INDICATE NATURE OF NOTICE	, REPO	RT, OR OTHER DATA
TY	PE OF SUBMISSION	TY	PE OF A	CTION
13. Describe Propdirectionally drill  Bec:	ause of the drought situs town for the construct water will be purchased Castle Valley Special	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Water Source Information  y state all pertinent details, and give pertinent dates, and and true vertical depths for all markers and zone:  ation this year Fortuna US intends tion and drilling of this well.  on a quantity basis from the mun Service District (a supplier of must being pursued at this time. If a measurement of the superior of t	to pur nicipal nicipal pre eco	chase water in Orangeville water supply through water in Emery County) nomical source becomes
Signed <u>Don Har</u>		<b>L</b>		, GAS & MINING
(This space for Formatte Approved by Conditions of app	ederal or State office use) Tide proval, if any:	Date		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 DEPARTI	JNUTUD STATES  M. OF THE INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
	OF LAND MANAGEMENT	5. Lease Designation and Serial No. UTU-77263
the form for proposals to	S AND REPORTS ON WELLS of drill or to deepen or reentry to a different reservoir. I FOR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name N/A
SUBA	MIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A
1. Type of Well		8. Well Name and No. Middle Mountain #21-16
2. Name of Operator Fortuna US		9. API Well No. 43-015-30426
3. Address and Telephone No. Suite 3400, 888 3rd Street	SW, Calgary, Alberta T2P5C5 403-23	17-1163 10. Field and Pool, or Exploratory Area Wildcat
4. Location of Well (Footage, Sec., T., R., M., o	r Survey Description)	11. County or Parish, State
1309' FSL, 834' FEL SE/4 SE/4, Section 21, Ti	6S, R6E, SLB&M	Emery County, Utah
12. CHECK APPROPRIATE BO	X(s) TO INDICATE NATURE OF NOTICE	E, REPORT, OR OTHER DATA
TYPE OF SUBMISSION		YPE OF ACTION
Notice of Intent	Change of Name	Pipeline, Powerline, Maintenance Corridor Construction Change of Plans
X Subsequent Report	Recompletion	New Construction Non-Routine Fracturing
Final Abandonment Notice	Plugging Back Casing Repair	Water Shut-Off
	Altering Casing	Conversion to Injection
	Water Source Information	Dispose Water
13. Describe Proposed or Completed Operations directionally drilled, give subsurface locations an	Clearly state all pertinent details, and give pertinent dates, d measured and true vertical depths for all markers and zon	including estimated date of starting any proposed work. If well is es pertinent to this work.)*
town for the con	situation this year Fortuna US intend struction and drilling of this well. nased on a quantity basis from the mu ecial Service District (a supplier of m	nicinal water supply through
Other sources of water available amend	are being pursued at this time. If a n ing paperwork will be forwarded pric	ore economical source becomes
water source.		RECEIVED
		AI 3 8 222
		DIVISION OF OIL, GAS AND MINING
14. I hereby certify that the foregoing is true an Signed Don Hamilton Don Hamilton	d correct  L. Title Agent for Fortuna US	Date
	TROIT IN AVENUE	
(This space for Federal or State office use)	Date	
Approved by Tit Conditions of approval, if any:	16	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudule statements or representations as to any matter within its jurisdiction.





Service, Quality and Accuracy

P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886
Fax: 435-637-5311
Email: talon@castlenet.com

August 28, 2002

Mr. Eric Jones—Petroleum Engineer Bureau of Land Management 82 East Dogwood Moab, Utah 84532

RE: Water Source Information Sundry Notice —Fortuna US
Middle Mountain #21-16 (43-015-30426) SE/4 SE/4, Section 21, T16S, R6E, SLB&M

Dear Mr. Jones:

On behalf of Fortuna US, Talon Resources, Inc. respectfully submits the enclosed original of the Sundry Notice and Reports on Wells for the above named well. The sundry is needed to supplement the existing federal authorizations and required by the Division of Oil, Gas and Mining for approval of the state authorization for permit to drill.

Please feel free to contact me if you have any questions or need additional information.

Sincerely,

Don Hamilton
Don Hamilton
Agent for Fortuna US

cc: Mr. Mike Kaminski, BLM - Price Field Office Mr. Carter Reed, USDA Forest Service - Price SO

Mr. Tom Lloyd, USDA Forest Service—Ferron DO

Mrs. Diana Mason, Division of Oil, Gas and Mining

Mr. Mark Moennich, Fortuna, US Mr. Arne Hamarsnes, Fortuan, US

RECEIVED

AUG 3 0 2002

DIVISION OF OIL, GAS AND MINING

## FORTUNA

FORTUNA (U.S.) INC.

SUITE 3400, 888 3RD STREET S.W. CALGARY, ALBERTA T2P 5C5 FAX (403) 237-1902 TEL (403) 237-1234 www.talisman-energy.com

August 28, 2002

Division of Oil, Gas & Mining 1594 W, North Temple, Suite 1210 Box 145801 Salt Lake City, UT 84114-5801

Attn: Lesha Cordova

Re:

Fortuna Energy Inc.

Middle Mountain #21-16 1309' FSL and 834' FEL SE SE Sec. 21, T16S-R6E Emery County, Utah

Dear Lesha,

This letter is to serve as our request for an exception to spacing on the above referenced location.

The referenced location was staked at non-standard footages in accordance with the rules and regulations of the Division of Oil, Gas and Mining based on a request by the US Forest Service to move the location further from the Joe's Valley Road. Please be advised, however, that Fortuna Energy Inc. is the lease holder of all the acreage within a 460 foot radius of the subject location. Therefore, we request administrative approval for this exception location.

Thank you for your cooperation.

Sincerely,

Michael L. Morrison Senior Geologist

Fortuna Energy Inc.

RECEIVED

SEP 0 3 2002

DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Robert L. Morgan Executive Director Lowell P. Braxton

Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

September 4, 2002

Fortuna (U.S.) Inc. 888 3rd Street S.W., Suite 3400 Calgary. Alberta T2P 5C5

Re: Middle Mountain 21-16 Well, 1309' FSL, 834' FEL, SE SE, Sec. 21, T. 16 South,

R. 6 East, Emery County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-015-30426.

Sincerely,

John R. Baza Associate Director

pb

**Enclosures** 

cc:

**Emery County Assessor** 

Bureau of Land Management, Moab District Office



Operator:	Fortuna (U.S.) Inc.	<u> </u>
Well Name & Number	Middle Mountain 21-16	
API Number:	43-015-30426	
Lease:	UTU-77263	

**Conditions of Approval** 

**T.** 16 South

R. 6 East

### 1. General

Location: SE SE

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Sec. 21

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dan Jarvis at (801) 538-5338

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

#### Talon Resources, Inc.



Service, Quality and Accuracy

P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-637-5311 Email: talon@castlenet.com

September 23, 2002

Mr. Eric Jones—Petroleum Engineer Bureau of Land Management 82 East Dogwood Moab, Utah 84532

RE: Change of Water Source Information Sundry Notice —Fortuna (US), Inc.
Middle Mountain #21-16 (43-015-30426) SE/4 SE/4, Section 21, T16S, R6E, SLB&M

Dear Mr. Jones:

On behalf of Fortuna (US), Inc., Talon Resources, Inc. respectfully submits the enclosed original of the Sundry Notice and Reports on Wells for the above referenced well. The sundry is needed to update water source information for the existing federal and state authorizations in place at this time.

Please feel free to contact me if you have any questions or need additional information.

Sincerely,

Don Hamilton
Agent for Fortuna US

cc: Mr. Mike Kaminski, BLM - Price Field Office

Mr. Carter Reed, USDA Forest Service - Price SO

Mr. Tom Lloyd, USDA Forest Service-Ferron DO

Mrs. Diana Mason, Division of Oil, Gas and Mining

Mr. Mark Moennich, Fortuna, (US), Inc.

Mr. Arne Hamarsnes, Fortuna, (US), Inc.

RECEIVED

SEP 2 6 2002

DIVISION OF OIL, GAS AND MINING

	UNITED STATES DEPARTME OF THE INTERIOR UREAU OF LAND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993		
Do not use this form for area	OTICES AND REPORTS ON WELLS posals to drill or to deepen or reentry to a different reservoir	5. Lease Designation and Serial No. UTU-77263		
	CATION FOR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name N/A		
	SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A		
1. Type of Well Oil X Gas  2. Name of Operator		8. Well Name and No. Middle Mountain #21-16		
Fortuna (US) Inc.  3. Address and Telephone No.		9. API Well No. 43-015-30426		
Suite 3400, 888 3rd S	Street SW, Calgary, Alberta T2P5C5 403-2	37-1163  10. Field and Pool, or Exploratory Area Wildeat		
4. Location of Well (Footage, Sec., T., R  1309' FSL, 834' FEL		11. County or Parish, State		
	1, T16S, R6E, SLB&M	Emery County, Utah		
	E BOX(s) TO INDICATE NATURE OF NOTICE			
TYPE OF SUBMISSION	Т	YPE OF ACTION		
Notice of Intent  Subsequent Report	Change of Name Recompletion	Change of Plans New Construction		
Final Abandonment Notice	Plugging Back	Non-Routine Fracturing Water Shut-Off		
	Casing Repair Altering Casing	Conversion to Injection		
	☐ Change of Water Source Information	Dispose Water		
<ul> <li>13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*</li> <li>Water for construction and drilling of the Middle Mountain #21-16 well will be provided by Application for Temporary Change of Water #t27043 evidenced by Water Right # 93-2175 that was approved on August 30, 2002.</li> <li>This approved application allows for the withdrawal of water from Cottonwood Creek for use in oil and gas related activities.</li> <li>Should this water source not be adequate, water will be purchased on a quantity basis from the municipal water supply through Castle Valley Special Service District (a supplier of municipal water in Emery County).</li> </ul>				
14. I hereby certify that the foregoing is true Signed Don Hamilton Don Hamilton	A 4	Date September 23, 200 RECEIVED		
(This space for Federal or State office use)		SEP 2 6 2002		
Approved byConditions of approval, if any:	TitleDate			
		DIVISION OF OIL, GAS AND MINING		





FORTUNA (U.S.) INC.

SUITE 3400, 888 3RD STREET S.W. CALGARY, ALBERTA T2P 5C5 FAX (403) 237-1902 TEL (403) 237-1234 www.talisman-energy.com

October 2, 2002

Dustin Doucet
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple
Suite 1210
Box 145801
Salt Lake City, Utah
84114

Dear Mr. Doucet:

RE: Middle Mountain #21-16 Sundry Notice Casing Change

Enclosed is a Sundry Notice stating the Casing Changes that Fortuna (U.S.) Inc proposes for the subject well.

Should you require further information, please contact me at (403) 237-1011.

Sincerely,

FORTUNA (U.S.) INC.

Arne Hamarsnes, P. Eng. Drilling Engineer

cc. Eric Cole, Bureau of Land Management

RECEIVED

OCT 0 9 2002

DIVISION OF OIL, GAS AND MINING

Do not us	UNITED STATES  DEPARTMENT OF THE INTERIOR  BUREAU OF LAND MANAGEMENT  NDRY NOTICES AND REPORTS ON WELLS  se this form for proposals to drill or to re-enter an  d well. Use Form 3160-3 (APD) for such proposals.	FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000  5. Lease Serial No. UTU-77263  6. If Indian, Allottee or Tribe Name N/A
SUBMIT IN	TRIPLICATE - Other instructions on reverse side:	7. If Unit or CA/Agreement, Name and/or No.
Oil Well 🚨 Gas Wel	11 Other	8. Well Name and No.
2. Name of Operator FOR	RTUNA (US) INC.	MIDDLE MOUNTAW #21-1(
		43-015-30426
SUITE 3400, 888 3PD	CALGARY ALBERTA 3b. Phone No. (include area code)  ST. S.W. 72P SCS 403-237-1011	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage,	. Sec., T., R., M., or Survey Description) 274' FEI	11. County or Parish, State
,	SECTION 21, TIGS, RGE, SLB & M.	EMERY COUNTY, UTAH
12. CHECK	APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, R	EPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent  Subsequent Report  Final Abandonment Notice	Acidize Deepen Production (Start Alter Casing Fracture Treat Reclamation.  Casing Repair New Construction Recomplete Change Plans Plug and Abandon Temporarily Abandon Convert to Injection Plug Back Water Disposal	Well Integrity Other
If the proposal is to deepen Attach the Bond under which following completion of the testing has been completed, determined that the site is re  BELOW IS A  SURFACE: 13  CASING	REVISED CASING PLAN FOR MIDDLE MOUNTS,  3/8", 48 # , H-40 To SOPederal Approval Of This Aution to Necrossary	e vertical depths of all pertinent markers and zones red subsequent reports shall be filed within 30 days in a new interval, a Form 3160-4 shall be filed once mation, have been completed, and the operator has #21-16.  Accepted by the Utah Division of
INTERMEDIATE 9	, 36 # J-55 To 3100 [100 INTO EDINE	17/0/11/2002
CASWG #2: 7	", 26", J-55 TO 5800' [TOP OF FERRON	OCT 0 9 2002
	2, 11.6 # FROM 5600' TO TD (APPROX. 6300')	DIVISION OF
14. I hereby certify that the fore Name (Printed/Typed)  AR	ONE HAMARSNES Title DRILLING E	
Signature A. Kor		2.
	THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
	,	1

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Title

Office

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

#### Talon Resources, Inc.



Service, Quality and Accuracy

P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-637-5310 Cell: 435-650-1886
Fax: 435-687-5311
Email: talon@castlenet.com

October 21, 2002

Mr. Eric Jones
Petroleum Engineer
Bureau of Land Management
82 East Dogwood
Moab, Utah 84532

RE: Sundry Notices (Request for Crew Camp)—Fortuna (US), Inc. Middle Mountain #21-16—1,309' FSL, 834' FEL Section 21, T16S, R6E, SLB&M, Emery County, Utah

Dear Mr. Jones:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the *Sundry Notices* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed application. Please feel free to contact myself or Mr. Don Jackson of Fortuna (US), Inc. at 1-780-621-6900 if you have any questions or need additional information.

Sincerely,

Don Hamilton
Don Hamilton
Agent for Fortuna (US), Inc.

**Enclosures** 

cc: Mr. Mike Kaminski, BLM—Price Field Office Mr. Carter Reed, USDA Forest Service—Price SO Mr. Tom Lloyd, USDA Forest Service—Ferron DO Mrs. Diana Mason, Division of Oil, Gas and Mining

Mr. Don Jackson, Fortuna (US), Inc. Mr. Mark Moenich, Fortuna (US), Inc. RECEIVED

OCT 2 3 2002

DIVISION OF OIL, GAS AND MINING

	OF THE INTERIOR OF LAND MANAGEMENT	Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No.
U 1 8 Do not use this form for proposals	ES AND REPORTS ON WELLS to drill or to deepen or reentry to a different reserve N FOR PERMIT—" for such proposals	oir.  6. If Indian, Allottee or Tribe Name N/A
SUBI	MIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A
1. Type of Well Oil X Gas		8. Well Name and No.
2. Name of Operator Fortuna (US), Inc.		9. API Well No. 43-015-30426
3. Address and Telephone No. Suite 3400, 888 3rd Street	SW, Calgary, Alberta T2P5C5 403-	
4. Location of Well (Footage, Sec., T., R:, M., or 1309' FSL, 834' FEL	Survey Description)	11. County or Parish, State
SE/4 SE/4, Section 21, T1		Emery County, Utah
12. CHECK APPROPRIATE BO	X(s) TO INDICATE NATURE OF NOTI	CE, REPORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION
Notice of Intent  Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back Casing Repair	Pipeline, Powerline, Maintenance Corridor Construction Change of Plans New Construction Non-Routine Fracturing Water Shut-Off
	Altering Casing  Water Source Information	Conversion to Injection  Dispose Water
Fortuna (US), Inc. intend location for the driver of the d	illing and completion of the Middle e will be required, all waste produc	ained single-unit Crew Camp on the
14. I hereby certify that the foregoing is true and considered Don Hamilton Don Hamilton		Date October 21, 2002
(This space for Federal or State office use)		
Approved by Title Conditions of approval, if any:	Date	

## DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company:	FORTU	JNA (U.S	5.) INC			
Well Name:	MIDDI	LE MTN	21-16		<del>-,</del>	
Api No: 43-015-30426	<u> </u>	Lease	Туре:	FEDE	RAL	
Section 21 Township	<u> 16S</u>	_Range	06E	_County	EMERY	
Drilling Contractor				RIC	G #	
SPUDDED:						
Date1	0/29/02					
Time						
How						
Drilling will commence	e:					
Reported by	DON H	AMILTO	ON			
Telephone #						
Date 11/04/2002	S	igned <u>:</u>		CHD		

#### **TED STATES** OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

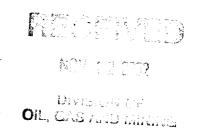
В	udge	t Bur	eau No.	10	04-013	15
	Exp	vires:	March 3	31,	1993	
		_		-		_

Do not use this form for proposals to dr	SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals								
Use "APPLICATION FO	PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name N/A							
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A							
1. Type of Well Oil X Gas	CONFIDENTIAL								
2. Name of Operator Fortuna (US), Inc.		9. API Well No. 43-015-30426							
	7, Calgary, Alberta T2P5C5 403-23	37-1163 10. Field and Pool, or Exploratory Area Wildcat							
4. Location of Well (Footage, Sec., T., R., M., or Sur 1309' FSL, 834' FEL	vey Description)	11. County or Parish, State							
SE/4 SE/4, Section 21, T16S	, R6E, SLB&M	Emery County, Utah							
12. CHECK APPROPRIATE BOX(s	) TO INDICATE NATURE OF NOTICE	E, REPORT, OR OTHER DATA							
TYPE OF SUBMISSION	T	PE OF ACTION							
Notice of Intent	Character SName	Pipeline, Powerline, Maintenance Corridor Construction							
X Subsequent Report	Change of Name Recompletion	Change of Plans  New Construction							
Final Abandonment Notice	Plugging Back	Non-Routine Fracturing							

13. Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Surface Casing and Cement Reports

Attached are the Surface Casing and Cement Reports for the Middle Mountain #21-16 well



Water Shut-Off Conversion to Injection Dispose Water

FILE COPY

	e foregoing is true and correct  Don Hamilton Title Agent for F	Fortuna US Date November 4, 2002	
(This space for Federal or S	State office use)		
Approved by Conditions of approval, if a	Titleany:	Date	

Vell Name: FORTU	INA MIDDLE MAIN	ITAIN #21-16			
Surface Legal Location	Bottomhole Legal Location	Field Name	Operation Group	License No.	State/Province
SE SE Sec. 21, T16S-R6E	SE SE Sec. 21, T16S - R6E	Middle Mountain	Western	43-015-30426	Utah
KB Elevation (ft) 8655.00	Ground Elevation (ft) 8655.00	Casing Flange Elevation (ft)	Spud Date 10/28/2002	Rig Release Date	Current Well Status Potential Gas

Casi	asing Shoe Set Depth (ftKB) Set Tension (lbf) Set Tension (lbf)		tring Max Nomir	nal OD (in)	String Drift Min (in)		Centralizers		Scratchers		
				13 3/8		!		10 ft above shoe, 10 ft above float collar, 600 ft, 500 ft, 400 ft and top 2 joints.			
Jts	Item Des	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top Thread	Top (ftKB	) Btm (ftKB)	Len (ft)	Burst Pres. (psi)	Collapse Pres
	Casing Joints	13 3/8	12.717	48.00	H-40	ST&C	0.	0 1,018.0	1018.03	1.725.9	<del></del>
	Float Collar	13 3/8	12.717	48.00	H-40	13 3/8	1,018.	0 1,019.2	1.15	,	
1	Casing Joints	13 3/8	12.717	48.00	H-40	ST&C	1,019.	2 1,062.1	42.95	1.725.9	740.0
	Float Shoe	13 3/8	12.717	48.00	H-40	13 3/8	1,062.	1 1,063.7	1.57		

Report Printed: 11/3/2002

Well Name: FC	ORTUNA MIDD	i aiisman Energy Can LE I JNTAIN #21-16	And the second s			
Casing: Surface Ca	sing, 1,063.7ftKB	and the state of t	The second secon			(a) J. J. C.
tem Description		0	D Nominal (in)	Weight/Length (lbs/ft)	Grade	Length (ft)
Casing Joints			13 3/8	48.00	H-40	1018.03
tem Description		[0]	D Nominal (in)	Weight/Length (lbs/ft)	Grade	Length (ft)
Float Collar			13 3/8	48.00	H-40	1.15
tem Description		O	D Nominal (in)	Weight/Length (lbs/ft)	Grade	Length (ft)
Casing Joints			13 3/8	48.00	H-40	42.95
tem Description		0	D Nominal (in)	Weight/Length (lbs/ft)	Grade	Length (ft)
Float Shoe			13 3/8	48.00	H-40	1.57
Tally					,	
Ref No.	Run?	Len (ft)		40.05	Cum (ft)	1063.6
25 24	Yes Yes			42.25 41.95		1003.0
23	Yes			42.25		979.4
22	Yes			42.20		937.
21	Yes			42.20		895.
20	Yes			42.20		852.8
19	Yes			42.20		810.6
18	Yes			42.05		768.4
17	Yes			42.05		726.3
16	Yes			42.25		684.3
15	Yes			42.20		642.0
14	Yes			41.45		599.8
13	Yes			42.20		558.4
12	Yes			43.40		516.2
11	Yes			42.15		472.8
10	Yes			43.40		430.6
9	Yes			43.45		387.2
8	Yes Yes			41.35 43.40		343.8
7 6	res Yes			43.40 43.40		302.4 259.0
5	Yes			43.40		259.t 215.6
4	Yes			42.20		173.4
3	Yes			42.20		131.2
2	Yes			43.40		89.0
31	Yes			1.15		45.6
1	Yes			42.95		44.5
30	Yes			1.57		1.5

Report Printed: 11/3/2002

## Talisman Energy Canada - Casing Report

Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

CONFIDENTIAL

8655.00	8655.00	8655.00	KB-Ground Distance (ft) 0.00	KB-Casing Flange Distan	(ft) Spud Date	10/28/2002	Rig Release Date
Well Head				Well	bores: Main Hole		
							(

	$\top$
Max OD (in)	) ID 1:
	12
	12
_	-

Report Printed: 11/3/200

# Talisman Energy Canada - Cement Peport CONFIDENTIAL Page 1/1 Well Name: FORTUNA MIDDLE NONTAIN #21-16

KB Elevation (ft) 8655.00	Ground Elevation (fi 8655.00	,	Flange Elevation (ft) 8655.00	KB-Ground Distance (ft) 0.00	KB-CF (ft)		Spud Date	8/2002	Rig Release	Date	
Cement Details	i de la companya de	The state of the s			v-1-01-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	William Ex	Francisco		enging garage a	4.200 E 1.30	
Cementing Start Date	Cer	menting End Date		String			2.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	Wellbore Name	***************************************		
11/3/2002 00:00 11/3/2002 0			02 02:15	Surface Casing,	1,063.7ftKB			Main Hole			
Comment								<u> </u>			
No returns to surface	<b>æ</b> .										
Cement Stages: 1	0.0-1,063.7ftKB							• • • • • • • • • • • • • • • • • • • •			
Description			Objective/Pu	rpose			Cement	Top Interval (ftKB	Cement B	ottom Interval (1	
Surface Casing			Surface C	Casing				0.0	·	,063.7	
Top Plug?	Bottom Plug?	Q(start) (bbl/mir	) Q(end) (bb	l/min) Q(avg) (bbl	min) P(fi	nal) (psi)	P(bur	np) (psi)	Cmnt Rt	·	
Yes	No	6		2	.   '	600.		300.0		0.0	
Pipe Reciprocated? Reciprocation S		Reciprocation S	Stroke Length (ft) Pipe Rotated?		d?		Pipe	e RPM (rpm)			
Depth Tagged (ftKB) Tag Method		Depth Plug Drilled Out To (ftKB)		Drill o	Drift out diameter (in)						
Cement Fluids: 1,	Tail										
Fluid Type	Fluid Description	n	Cement Amount (sa	cks) Cement Cla	33	Volum	e Pumped (bbl)	Yield	(ft³/sack)		
Tail			1,300	)	G	I			1.18		
Mix H20 Ratio (gal/sack) 5.22			Density (lb/gal) 15.6	l l	Plastic Viscosity (cp)		285.0 Thickening Time (hrs)		st Compressive Strength (psi)		
Cement Fluid Addi	tives										
	Add			Туре	Am		Amt Unit	Conc		Conc Unit	
CaCl2		Acc	elerator		2,4	44.0 lb			2.0	%	
Celoflake		Loss	s circ		3	25.0 lb		0.25 lb/s		lb/sx	

RECTION D

Talisman Energy Canada - Cement Peport
Well Name: FORTUNA MIDDLE 1 INTAIN #21-16

Page 1/1

KB Elevation (ft) 8655.00	Ground Elevation (ft) 8655.00		Casing Flange Elevation (ft) 8655.00		e (ft) KB-C	0.00		oud Date   F 10/28/2002		e Date	
Cement Details			The district of the second of		ARRIVED TO S			<del>- 182 - 184 - 184</del>	30 00 00 00 00 00 00 00 00 00 00 00 00 0	<del></del>	
Cementing Start Date Cementing End Date			String						Wellbore Name		
11/3/2002 13:00		11/3/2002	11/3/2002 13:45		Surface Casing, 1,063.7ftKB				Main Hole		
Comment											
Cement to surface	and fell back										
Cement Stages: 1	0.0-0.0ftKB			· · · · · · · · · · · · · · · · · · ·			····				
Description				Objective/Purpose (				Cement Top Interval (ftKB) Cement Bottom Interval (			
Remedial Casing Cement			Remedia	Remedial Casing Cement				0.0		0.0	
Top Plug?	Bottom Plug?	Q(start) (bbl/min)	Q(end) (bt	ol/min) Q(av	g) (bbl/min)	) P(final) (psi)		P(bump) (psi)	Cmnt Rt	Cmnt Rtm (bbl)	
No	No	2		2	2		0.00	,,			
Pipe Reciprocated? Reciprocate			Length (ft)	Pipe	Pipe Rotated?			Pipe RPM (rpm)			
Depth Tagged (ftKB) Tag		Tag Method		Dept	Depth Plug Drilled Out To (ftKB)			Drill out diameter (in)			
Cement Fluids: 1,	Tail	i								<del></del>	
luid Type Fluid Description		Cen	Cement Amount (sac		Cement Class		olume Pumped (bbl)		Yield (ft³/sack)		
Tail	:		430		G		91.0		1.18		
Mix H20 Ratio (gal/sack)	Free Water (%)	Free Water (%) De		Plast	Plastic Viscosity (cp)		Thickening Time (hrs)		1st Compressive Strength (psi)		
5.22			15.6								
<b>Cement Fluid Add</b>	itives										
Add				Туре		Amt	Amt Unit		Conc	Conc Unit	
CaCl2		Accelera	ator			808.0	lb		2.0	%	
Celoflake		Loss cin	c Additive		ļ	108.0	lb	-	0.25	lb/sx	

# # 'isman Energy Canada - Cement port Page 1/1 Well Name: FORTUNA MIDDLE N→UNTAIN #21-16

8655.00	8655.00	.	8655.00	1	.00	KB-CF (ft)	0.00	Spu	10/28/200	Rig Releas	e Date
Cement Details										25 (5.00 <b>(27)</b> (20)(5.5)	· (* 9.7 <b>3</b> 75 ) J. ** .
Cementing Start Date		menting End Date		String		The state of the s			Wellbo	re Name	
11/3/2002	2 17:00	11/3/20	002 17:30	Surface	Casing, 1	,063.7ftKB				Main Ho	le
Comment Cement to surface	) <b>.</b>										
Cement Stages: 1	I, 0.0-136.0ftKB										<del>*                                    </del>
Description	Objective/Pr						Cement Top Int	erval (ftKB) Cement	Bottom Interval (f		
Remedial Casing (	Cement		Remedia	il Casing Co	ement				0.0		136.0
Top Plug?	Bottom Plug?	Q(start) (bbl/mir	n) Q(end) (bb	ol/min)	Q(avg) (bbl/m	nin) P	(final) (p	si)	P(bump) (psi	) Cmnt F	trn (bbl)
No	No	2		2	2	!	2	0.00			
Pipe Reciprocated?		Reciprocation S	troke Length (ft)	ength (ft) Pipe Rotated? Pipe RPM (rpm)				m)	·		
Depth Tagged (ftKB)		Tag Method		Depth Plug Drilled Out To (ftKB)				Drill out diameter (in)			
Cement Fluids: 1,	, Tail			*****	1	<del></del>					<del></del>
Fluid Type	Fluid Description	on	Cement Amount (se	acks)	Cement Class	3	V	olume Pumpe	d (bbl)	Yield (ft³/sack)	
Tail			80		1	G	ĺ	1	6.8	1	.18
Mix H20 Ratio (gal/sack)	Free Water (%	)	Density (lb/gal)		Plastic Viscos	sity (cp)	Ť	nickening Tim	e (hrs)	1st Compressive	Strength (psi)
5.22			15.6	5							
Cement Fluid Add	litives										
	Add			Туре		, A	unt	Amt U	rit	Conc	Conc Unit
CaCl2		Acc	elerator				150.0	lb		2.0	%
Celoflake		Loss	s circ additive				20.0	lb	ł	0.25	ib/sx

1810 total

City Cold A. J.

Form 3160-5 (June 1990)	DEPARTM	BUREAU OF LAND MANAGEMENT						
7 0 <b>2 1</b> Do not use t	his form for proposals to drill	ND REPORTS ON WELLS or to deepen or reentry to a different reservoi R PERMIT—" for such proposals	ir.	5. Lease Designation and Serial No. UTU-77263  6. If Indian, Allottee or Tribe Name				
				N/A				
	SUBMIT I	N TRIPLICATE		7. If Unit or CA, Agreement Designation N/A				
1. Type of Well Oil X Gas		CONFIDENTIA		8. Well Name and No. Middle Mountain #21-16				
2. Name of Operator Fortuna (U  3. Address and Telephone			<del>.</del>	9. API Well No. 43-015-30426				
		, Calgary, Alberta T2P5C5 403-2	237-1163	10. Field and Pool, or Exploratory Area Wildcat				
4. Location of Well (Fo	ootage, Sec.,T., R:, M., or Surve	ey Description)		11. County or Parish, State				
	L, 834' FEL , Section 21, T16S,		Emery County, Utah					
12. CHECK A	PPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTIC	E, REPOR	RT, OR OTHER DATA				
TYPE OF S	SUBMISSION	TYPE OF AC	TION					
directionally drilled, give s	port ment Notice  Completed Operations ( Clearly subsurface locations and measu	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Weekly Drilling Reports  state all pertinent details, and give pertinent dates, red and true vertical depths for all markers and zon  dy drilling reports for the Middle	including estines pertinent to					
			NOV 12	2003 44.35				
		OIL,	DIMESSA CAS AND	FILE COPY				
14. I hereby certify that the	e foregoing is true and correct		<u> </u>					
Signed Don Hamilton	Don Hamilton Title	Agent for Fortuna US De	ate <u>Noveml</u>	ber 4, 2002				
(This space for Federal or S Approved by Conditions of approval, if a	Title	Date						

Well Name: FORTUNA MIDDLE L'JNTAIN #21-16

Job Type: Drilling - original

'e: 10/28/2002, Report: 1.0, DFS: 1.00

Spud Date			Release D	ate	KB Eleva		G	round Elevation (	· i	ound Distance (ft)	
	/28/2002					8655.00		8655.00	)	0.00	
	ummary										
Veather				Road (	Condition			Hole Con	dition		
Cloudy				Icey				Good			
peration	s at Report	Time									
Vait on	Daylight										
	s This Repo										
Nove B	ill Martin	Jr. onto	location	and drill 4	444.5mm	hole to set 3	39.7	mm surface of	asing. Hold :	safety meeting	
ind rig	up to drill	surface	hole wit	h Bill Mar	tin Jr. Dril	l 444.5mm ł	nole v	with Bill Martii	n Jr. Cost will	be one day	
pehind (	until the f	Pattersor	n Rigiso	on locatio	n.						
perations	s Next Repo	rt Period									
Orill with	h Bill Mar	tin Jr.									
									-		
ime Lo											
	End Time		Code		Acti	rity			Comment		
00:00	08:00	8.00			ed Status			Wait for day			
12:00	14:00	2.00	01	Rig Up 8	& Tear Do	wn			lartin Jr. wate		
								rotating head and boole line.			
2:00	12:30	0.50	21	Safety Meeting				Safety meet	ing with Bill N	fartin Jr. crew.	
	19:00	5.00		Drilling			Drill with Hammer and 17.5" bit. Two				
14.00	13.00	5.00	· OŁ	Drining						ng at this time.	
				:					t with the hole		
										t 5 gallons per	
										actant. Pull up	
				!							
										to hole trouble	
									n is quitting ti apressors de	me. There will	
								location to d	iii passed the	500 ft depth.	
9:00	00:00	5.00	00	Undefine	ed Status	_		Wait for Day	light		
rill Str	ings: BH	IA #1 CI	ick								
it Rui Bit	iliga. Di	in #1, U	10K	IADC E	Bit Dull		TFA (in	ncl Noz) (in² ROP	(ft/hrl Nozzles (/3)	<del>)41</del>	
1 17	1/2in, Q4	. BMJ				_	(	23		. ,	
en (ft)	· · · · · · · · · · · · · · · · · · ·	•	String Con	ponents					· 1		
1000.4		.016	<b></b>		Inners	ol O4 Hamn	ner í	Drill Rod, XO,	Drill Rod		
					mgc13	J. Q, 1 10/11/11		Dilli Rod, XO,	Dim rou		
	<b>Paramet</b>										
HA No.	Dep					KB) Drill Time (	hrs)	Cum Drill Time (	ndint ROP (ft/hr)	Flow Rate (gpm)	
1		0.0		5.0	235.0	5.00	)	5.00	47.0		
	Olbf) RPI	vi (rpm)	SPP (p	si) Rot	HL (1000lbf)	PU HL (1000)	bf) S	SO HL (1000lbf)	Drilling Torque	Off Btm Tq	
/OB (1000		30									
иов (1000 2											
2											
•	es	Wellbor	a Nama			VS Dir (	•		KO MD (ft)	(0)	

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (RKB)	Depth End (RKB)
	235.0
Depth Progress (ftKB)	Drilling Time (hrs)
235.0	5.00

Ops Supervisors

Contact
Arnie Hamarsnes, Drilling Engineer
Mel Knezevich, Drilling Foreman
Mark Moennich, Drilling Sup't

Rigs: Bill Martin Jr., 3
Rig Supervisor
John Day, Tool Pusher

Formation Pick Groups: Drilling Sam... Formation Picks Group Drilling Sample

CONFIDENTIAL

Γ : 10/29/2002, Report: 2.0, DFS: 2.00 Well Name: FORTUNA MIDDLE M 'NTAIN #21-16 Job Type: Drilling - original

	/28/2002	2	Release I	Date A	(B Elevation (ft) 8655.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 0.00	AFE No. 37511	Total AFE Amt (\$)
	ummary	<u>'                                      </u>						Daily Cost Total	Cum. Cost To Date
Veather Cloudy				Road Cond	lition	Hole Condition		Daily Mud Cost	Mud Additive Cost To Dat
,	at Report	Time		Icey		Good		Daily Wide Cost	0.00
	Daylight							Depth Start (ftKB)	Depth End (ftKB)
	This Repo			· · · · · · · · · · · · · ·				235.0	500.0
ravel to at 173	o location 10 hrs. Bl	n. Warm low hole	up equi clean to	pment. Trip ir 1815 hrs. Pu	n to 235 ft. No hole Ill to 375 ft to sit fo	problems. Start drilling r the night.	at 0730 hrs. Drill to 500	Depth Progress (ftKB) 265.0	Drilling Time (hrs) 11:00
	Next Repo		\M, star	t and warm th	e equipment. Trip	in to 500 ft and mist dri	II.	Ops Supervisors	Contact
ime Lo	og							Arnie Hamarsnes,	
		Dur (hrs)	<del></del>		Activity		Comment	Mel Knezevich, Dri	
	07:00 18:00	7.00		Undefined S Drilling	Status	Wait on Daylight.		Mark Moennich, Dr	
							le problems. Start	Rigs: Bill Martin J	г., 3
						hole is cleaning w minute of mist flui making noticable not increasing as	water. The pressure is it would if the hole was	Formation Picks Group	
						hole is cleaning w minute of mist flui making noticable not increasing as loading up with wa	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was ater. Blow the hole dry	John Day, Tool Pus  Formation Pick Gi Formation Picks Group Drilling Sample	
						hole is cleaning w minute of mist flui making noticable not increasing as	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was ater. Blow the hole dry	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name	roups: Drilling Sam
3:00	00·00	6.00	00	Undefined S	Status	hole is cleaning w minute of mist flui making noticable not increasing as loading up with wa and trip up to 375	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was ater. Blow the hole dry	John Day, Tool Pus  Formation Pick Gi Formation Picks Group Drilling Sample	roups: Drilling Sam
	00:00	6.00		Undefined S	Status	hole is cleaning w minute of mist flui making noticable not increasing as loading up with wa	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was ater. Blow the hole dry	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name	roups: Drilling Sam
rili Str		6.00 H <b>A #1,</b> SI				hole is cleaning we minute of mist flui making noticable not increasing as loading up with we and trip up to 375  Wait on Daylight.	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was ater. Blow the hole dry ft for the night.	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name	roups: Drilling Sam
<b>rill Str</b> Rußit		HA #1, SI		Undefined S		hole is cleaning we minute of mist flui making noticable not increasing as loading up with we and trip up to 375  Wait on Daylight.	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was ater. Blow the hole dry ft for the night.	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name	roups: Drilling Sam
rill Str Ru Bit 1 17	<b>ings: Bl</b> 1/2in, Q4	H <b>A #1, SI</b> 4, BMJ		IADC Bit Du		hole is cleaning we minute of mist flui making noticable not increasing as loading up with we and trip up to 375  Wait on Daylight.	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was ater. Blow the hole dry ft for the night.	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name	roups: Drilling Sam
rill Str t Ru Bit 1 17	ings: Bl	HA #1, SI 4, BMJ	lick	IADC Bit Du		hole is cleaning we minute of mist flui making noticable not increasing as loading up with we and trip up to 375  Wait on Daylight.	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was iter. Blow the hole dry ft for the night.	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name	roups: Drilling Sam
orili Str t Ru Bit 1 17 en (ft) 1000.4	ings: Bh	HA #1, SI 4, BMJ OD (in) 9.016 ters: 265	String Cor	IADC Bit Do	ngersol Q4, Hamn	hole is cleaning we minute of mist flui making noticable not increasing as loading up with we and trip up to 375  Wait on Daylight.  FFA (incl Noz) (int ROP (ft/m) Noz) 23.8	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was iter. Blow the hole dry ft for the night.	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name	roups: Drilling Sam
erili Str t Ru Bit 1 17 en (ft) 1000.4	ings: Bh	HA #1, SI 4, BMJ OD (in) 9.016 ters: 265 oth Start (fit	String Cor	IADC Bit Di	ngersol Q4, Hamn	hole is cleaning we minute of mist flui making noticable not increasing as loading up with we and trip up to 375  Wait on Daylight.  TFA (incl Noz) (int ROP (ft/m) Noz 23.8  mer, Drill Rod, XO, Drill load (int Rod) (	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was ster. Blow the hole dry ft for the night.  Per (ft/hr) Flow Rate (gpm)	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name  Price River	Top (RKB)
erili Str t Ru Bit 1 17 en (ft) 1000.4	1/2in, Q4 Max (	HA #1, SI 4, BMJ OD (in) 9.016 ters: 265	String Cor	IADC Bit Di	ngersol Q4, Hamn Depth (ftKB) Drill Time (in 1000)	hole is cleaning we minute of mist flui making noticable not increasing as loading up with we and trip up to 375  Wait on Daylight.  TFA (incl Noz) (int ROP (ft/m) No. 23.8  Ther, Drill Rod, XO, Drill 100 Cum Drill Time (hr Int Rod) 16.00	ell with 10 gallons per d. The hole is not water. The pressure is it would if the hole was iter. Blow the hole dry ft for the night.  Pezzies (/32")  Rod  PP (ft/hr)   Flow Rate (gpm)   24.1	John Day, Tool Pus  Formation Pick G  Formation Picks Group  Drilling Sample  Name  Price River	roups: Drilling Sam

Wellbores

Main Hole

Wellbore Name

Well Name: FORTUNA MIDDLE N INTAIN #21-16 10/30/2002, Report: 3.0, DFS: 3.00 Job Type: Drilling - original Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) AFE No. Total AFE Amt (\$) 10/28/2002 8655.00 8655.00 0.00 37511 **Daily Summary** Daily Cost Total Cum. Cost To Date Road Condition Hole Condition Clear Daily Mud Cost Sanded Mud Additive Cost To Date Good Operations at Report Time 200.00 Depth Start (ftKB) Wait on Daylight Depth End (ftKB) Operations This Report Period 500.0 600.0 Travel to location. Warm up equipment. Trip in to 500 ft. No hole problems. Start drilling at 0730 hrs. Drill to 600 Depth Progress (ftKB) Drilling Time (hrs) 100.0 ft at 1530 hrs. Blow hole clean to 1615 hrs. Pull to the bit to check the hole condition. Sit for the night. 8.50 Operations Next Report Period Ops Supervisors Make up hammer and trip in to drill. Contact Arnie Hamarsnes, Drilling Engineer Time Log Start Date | End Time | Dur (hrs) | Code Mel Knezevich, Drilling Foreman Comment 00:00 07:00 7.00 00 **Undefined Status** Wait on Day light. Mark Moennich, Drilling Sup't 07:00 15:30 8.50 02 Drilling Drill ahead with air hammer. Small Rigs: Bill Martin Jr., 3 amount of water encountered at 500 ft. Pressure came up 20 psi. Drill ahead to Rig Supervisor John Day, Tool Pusher 600m. Need to change choke in the hammer to reduce pressure. **Mud Additive Amounts** 15:30 19:00 Description 3.50 06 Tripping Wiper trip out to the hammer. Lay down Consumed Daily Cost (\$) UTAH MUD CHECK 1.0 hammer for one with a bigger choke. Start Energy air package to location to Formation Pick Groups: Drilling Sam... help lift cuttings. Bill jr. cannot pump enough pressure with this rig to go to **Drilling Sample** 1100 ft. We require a booster. Top (ftKB) Price River 470.0 19:00 00:00 5.00 00 **Undefined Status** Wait on daylight. Mud Checks: 550.0ftKB, 10/30/2002 09:00 Depth (ftKB) Density (lb/gal) Vis (s/qt) Plas Vis (cp) Air/Mist 550.0 10/30/2002 09:00 44.0 8.3 Yield Point (cp) gel 10 sec (cp) gel 10 min (cp) Filtrate (mL/30min) HTHP Filt (mL/30min Filter Cake (in) MBT (lb/bbl) CONFIDENTIAL Lime (lb/bbl) Pm (mL/mL) Pf (mL/mL) Calcium (mg/L) Potassium (mg/L) Polymer (lb/gal) 8.2 0.000 Chlorides (mg/L) Sand (%) Solids (%) Percent Oil (%) Percent Water (%) LG Solids (%) Electric Stab (V) Drill Strings: BHA #1, Slick Bit Rui Bit IADC Bit Dull TFA (incl Noz) (int ROP (ft/h) Nozzles (/32") 1 17 1/2in, Q4, BMJ 23.8 Max OD (in) Len (ft) String Components 1000.49 9.016 Ingersol Q4, Hammer, Drill Rod, XO, Drill Rod Drilling Parameters: 100.0ftKB

Cum Drill Time (hr Int ROP (ft/hr)

11.8

KO MD (ftKB)

Drilling Torque

24.50

SO HL (1000lbf)

Flow Rate (gpm)

Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs)

600.0

Rot HL (1000lbf)

8.50

VS Dir (\*)

PU HL (1000lbf)

600.0

SPP (psi)

280.0

500.0

30

Wellbore Name

RPM (rpm)

WOB (1000lbf)

**Wellbores** 

Main Hole

Well Name: FORTUNA MIDDLE M 'NTAIN #21-16 ): 10/31/2002, Report: 4.0, DFS: 4.00 Job Type: Drilling - original

Spud Da	te	Rig I	Release Date	KB Elevatio	n (ft)	Ground Elevation	(ft) K	B-Ground Distance (ft)	AFE No.	Total AFE A	mt (\$)
1	0/28/2002	!		86	55.00	8655.0		0.00	37511	rolli y i E y	III (\$)
Daily S	Summary								Daily Cost Total	Cum. Cost T	o Date
Weather			Ros	d Condition		Hole Cor	ndition				
Overca	ast		1	nded		Good	- Idition		Daily Mud Cost	Mud Additive	Cost To Date
Operation	ns at Report	Time			<del></del>	0000					
Wait o	n Daylight	Ì							Depth Start (ftKB)	Depth End (f	IKB)
•	ns This Repo								600.0	77	<b>'</b> 5.0
Travel ft at 15	to location 30 hrs. Bl	n. Warm ເ low hole c	ip equipment. lean to 1615 h	Trip in to 600 rs. Pull up 200	ft. No hole pro oft to check to	oblems. Start d he hole conditi	drilling at too	0730 hrs. Drill to 775 the night.	Depth Progress (ftKB) 175.0	Drilling Time 9	(hrs) .00
	ns Next Repo	rt Period and drill al	nead.						Ops Supervisors		
										Contact	
Time L	. <b>og</b> e End Time	Dur (bee)	Code	Activity					Arnie Hamarsnes,		
00:00	07:00	7.00		ned Status		Wait on day	Comm	nent	Mel Knezevich, Dri	•	n
07:00	18:00	11.00 (						to 775 ft. Hole is	Mark Moennich, Di	J	
07.00	10.00	11.00	Z Diming	,				ere is about 10 ft of	Bill Hedglin, Geolo	gist	
								in Energy Air, fuel	Digo. Pill Mortin	ı_ a	
			į			tank and ha	ve fuel bro	ought to location.	Rigs: Bill Martin Jr., 3		
						The Energy	Air people	are quite prompt.	John Day, Tool Pu	sher	
		9						fferent. Thanks for	Mud Additive Amo		
			:					ka and Cleve.	Description		Daily Cost (\$)
						Nielson Con helpfull.	struction	s extremely	UTAH MUD CHEC		200
									Formation Pick G	roups: Drilli	ng Sam
17:30	23:30	6.00	0 Undefi	ned Status		Wait on day	light.		Formation Picks Group		
Drill St	rinas: Bh	IA #1, Slic	ck						Drilling Sample		
Bit Ru(Bit		,		C Bit Dull	TFA	(ind Noz) (in <sup>2</sup> ROP	(ft/hr Nozzie:	s (/32")	Name		Top (ftKB)
1  17	7 1/2in, Q4	I, BMJ				23		,	Price River		470.0
en (ft)			tring Components								
1000.		0.016		Ingersoi	Q4, Hammer,	Drill Rod, XO,	Drill Rod				
		ters: 175.									
HA No.	Dep	th Start (ftKB 600.0	Depth End (ftKB)			Cum Drill Time (		,			
1 VOB (100	YORK PRI	VI (rpm)	775.0 SPP (psi) R	775.0	9.00	33.50	19.	·	Contra	المالسة المالات	n .
2		30 30	280.0	ot HL (1000lbf)	-U HL (1000lbf)	SO HL (1000lbf)	Drilling Ton	que Off Btm Tq		JENII	
Nellbo	res										1 6-res-
	·	Wellbore	Name	·	VS Dir (*)		KO M	) /fiKR)			

Main Hole

Well Name: FORTUNA MIDDLE N' 'JNTAIN #21-16

Job' Type: Drilling - original

| Spud Date | Rig Release Date | KB Elevation (ft) | Section (ft

Spud Dat		Rig	Release I	Date	KB Elevati		Ground Elevation		Ground Distance (ft)	AFE No.	Total AFE Amt (\$)	
	0/28/2002				8	655.00	8655.	00	0.00	37511		
Daily S	ummary									Daily Cost Total	Cum. Cost To Date	
Weather				Road (	Condition		Hole C	ondition				
Clear				Sand	led		Good	i		Daily Mud Cost	Mud Additive Cost To Da	
	s at Report Ti	me										
	n Daylight									Depth Start (ftKB)	Depth End (ftKB)	
-	s This Report									775.0	1,000.0	
Travel 1000 ft	to location. at 1730 hr	. Warm s. Blow	up equi hole cle	pment. Tr ean to 161	ip in to 775 5 hrs. Pull	ft. No hole pa up 700 ft to c	roblems. Start heck the hole	drilling at 07: condition. Sit	30 hrs. Drill to for the night.	Depth Progress (ftKB) 225.0	Drilling Time (hrs) 9.25	
	s Next Report to 1000 ft a		ahead t	o T.D. into	o the Black	hawk.				Ops Supervisors	Contact	
Time L	ΔΠ									Arnie Hamarsnes,		
	End Time	Dur (hrs)	Code	T	Activi	tv		Commer	·	Mel Knezevich, Dr		
00:00	07:00	7.00		Undefine	ed Status	·	Wait on da			Mark Moennich, D		
07:00	18:15	11.25	02	Drilling			Trip in to 7	75 ft and drill	to 1000 ft. Blow t and sit for the	Bill Hedglin, Geolo	ogist	
18:15	00:00	5.75	00	Undefine	ed Status		Wait on da	y light.		Rig Supervisor		
Dell St	rings: BH/	A 441 C	liek	i	7					John Day, Tool Pu	isher	
Bit Rui Bit 1 17 Len (ft)	1/2in, Q4,	ВМЈ	String Co	IADC E				23.8	32")	Formation Pick G Formation Picks Group Drilling Sample	roups: Drilling Sam	
1000.	49 9.	010	L		ingerso	Q4, Hamme	r, Drill Rod, X	D, Drill Rod		Name	Top (ftKB)	
Drilling	Paramete	ers: 225	5.0ftKB							Castlegate	955.	
BHA No.						B) Drill Time (hrs	Cum Drill Time	e (hr Int ROP (ft/hr	) Flow Rate (gpm)	Price River	470.	
1	i	775.0		0.000	1,000.0	9.25	42.75	24.3				
WOB (100 2	Olbf) RPM	(rpm) 30	SPP (	psi) Rot 10.0	HL (1000lbf)	PU HL (1000lbf)	SO HL (1000lbf	Drilling Torque	Off Btm Tq			
Welibo	res					***************************************						
		Wellbor	e Name			VS Dic (*)		KO MD (	avo.			

Main Hole

CONFIDENTIAL

Well Name: FORTUNA MIDDLE MC INTAIN #21-16 Job Type: Drilling - original

te: 11/2/2002, Report: 6.0, DFS: 6.00

1,125.0

4.50

1.0

1.0

8.0

8.0

80

600

904

Top (ftKB)

Wt (lbs/ft)

48.00

1,025.0

955.0

470.0

Spud Date Rig Release Date KB Elevation (ft) KB-Ground Distance (ft) Ground Elevation (ft) AFE No Total AFE Amt (\$) 10/28/2002 8655.00 8655.00 0.00 37511 **Daily Summary** Daily Cost Total Cum. Cost To Date Weather Road Condition Hole Condition Clear **Daily Mud Cost** Mud Additive Cost To Dat Sanded Good Operations at Report Time Cement casing Depth Start (ftKB) Depth End (ftKB) 1,000.0 Operations This Report Period Depth Progress (ftKB) Drill to T.D. Condition hole. Trip out and case. Drilling Time (hrs) **Operations Next Report Period** 125.0 Cement casing. Install cellar. Ops Supervisors Time Log
Start Date | End Time | Dur (hrs) | Code Contact Arnie Hamarsnes, Drilling Engineer 00:00 07:00 7.00 00 **Undefined Status** Wait on day light. Minor cold problems Mel Knezevich, Drilling Foreman starting up today, temp was low 20's this Mark Moennich, Drilling Sup't A.M. On the way in Bill jr. and Nielson Bill Hedglin, Geologist Construction people had come across a vehicle in the canyon up side down with Rigs: Bill Martin Jr., 3 two unhurt men inside. The vehicle had Ria Supervisor Colorado plates on it. Bill jr's men called John Day, Tool Pusher the Sherriff for them. When the Sherriff **Mud Additive Amounts** arrived the men were arressted for one thing or another. Description Consumed Daily Cost (\$) **UTAH SAPP** UTAH BARACAT 07:00 10:00 Warm up equipment, Trip in. Water was 3.00 06 Tripping **UTAH MUD** at 750 ft. 250 ft or 75 bbls in the hole. TRANSPORT There was a bridge at 960 ft and there **UTAH QUICK** was 10 ft of fill on bottom. The water most likely came from the sand that was **FOAM** drilled at 975 ft. Formation Pick Groups: Drilling Sam... 10:00 14:30 4 50 02 Drilling Drill ahead with air/mist ormation Picks Group 14:30 15:30 1.00 05 Condition and/or Circulate mud **Drilling Sample** Blow hole clean. Add polymer and clean hole. Hole is making water of an Blackhawk undetermined amount. The depth of the well will not allow for a water sample. We Castlegate will get it at bottoms up circulating casing. Price River 15:30 17:00 1.50 06 Tripping Trip out to run casing. Surface Casing, 1,063.7ftKB Casing Run Date Max OD (in) Grade 17:00 00:00 7.00 12 Rig up tongs, spider, slips and elevators. Run Casing & Cement Run casing to 600 ft. Switch to crane 11/2/2002 13 3/8 from rig line and run casing to 1061 ft. Hole has fill at this depth. No way to circulate joints of casing down. No 50 ft hoses. Casing seat at this depth is 36 ft into the Blackhawk formation. Drill Strings: BHA #1, Slick Bit Rui Bit IADC Bit Dull TFA (incl Noz) (inz ROP (ft/hr Nozzles (/32") 1 17 1/2in, Q4, BMJ 23.8 Max OD (in) Len (ft) String Components 1000.49 9.016 Ingersol Q4, Hammer, Drill Rod, XO, Drill Rod Drilling Parameters: 125.0ftKB BHA No Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) 1,000.0 1,125.0 1,125.0 4.50 47.25 27.8 WOB (1000lbf) RPM (rpm) SPP (psi) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) Dritting Torque Off Btm To 2 30 300.0 Wellbores Wellbore Name KO MD (ftKB) VS Dir (°) Main Hole

Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Job Type: Drilling - original

ate: 11/3/2002, Report: 7.0, DFS: 7.00

Spud Da		; ,	Release	Date	KB Elevation (ft)	Ground Elevai	tion (ft)	KB-Ground Distance (ft)	AFE No.			
	0/28/2002				8655.00	865	5.00	0.00	37			
Daily :	Summary	<u>.                                    </u>					***************************************		Daily Cost To			
Weather				Road Con	dition	Hole	Condition					
Clear				Sanded		Go	Good					
	ns at Report	Time							11			
	nt casing								Depth Start (			
	ns This Repo								1,1			
Cement Casing, top up casing annulas. Install cellar and blade lease for rig move.  Operations Next Report Period  Move in Patterson Rig 104									Depth Progre			
		on Rig 10	)4				-		Ops Supe			
Time L	e End Time	Dur (bre)	Code	1	Activity							
00:00	02:15	2.25		Run Casino		Dumm ba		omment	Arnie Han			
				run Casıng	gel slurry, 285 bbls with 162 bbls. plug		gel slurry, 285 bbls of cement. Displace				Mel Kneze Mark Moer Bill Hedglir	
02:15	13:00	10.75		Wait On Ce	ment	Wait for o	cement to	set. Call out more bulk	Rigs: Bill			
13:00	18:00	5.00	12	Run Casing	& Cement				Rig Supervisor John Day,			
						witness s	econd top	up. He also steped fy it is not to big.	Formation Pick Drilling Sar			
18:00	00:00	6.00	13	Wait On Ce	ment	Wait on c	ement.		Criming Sal			
Wellbo	ree			-		1			Blackhawk			
1161100	169	Wellbor	e Name		VS Dir (	•)		140 (417)	Castlegate			
Main Hole					A2 Dit (		KO	MD (ftKB)	Price River			

AFE No.	Total AFE Amt (\$)			
37511				
Daily Cost Total	Cum. Cost To Date			
-				
Daily Mud Cost	Mud Additive Cost To Date			
Depth Start (ftKB)	Depth End (ftKB)			
1,125.0	1,125.0			
Depth Progress (ftKB)	Drilling Time (hrs)			
0.0	0.00			

### Ops Supervisors Contact

Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Mark Moennich, Drilling Sup't Bill Hedglin, Geologist

Rigs: Bill Martin Jr., 3
Rig Supervisor
John Day, Tool Pusher

Formation Pick Groups: Drilling Sam...
Formation Picks Group

 Drilling Sample

 Name
 Top (ftKB)

 Blackhawk
 1,025.0

 Castlegate
 955.0

 Surface Casing, 1,063.7ftKB

 Casing Run Date Max OD (in) Grade
 Wt (ibs/ft)

 11/2/2002
 13 3/8
 H-40
 48.00

470.0

Form	3160-5
(June	1990)

# DEPARTME F THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Bureau No. 1004-0135

Expires:	March 31, 1993	
se Designation	n and Serial No.	

SUNDRY	NOTICES AND	KEPUK 15	ON MELL
Do not upo this form for a	aranagala ta drill ar t	a deenen ar re	antry to a diffe

Do not use this form for proposals to dri	SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals					
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A				
1. Type of Well Oil X Gas  2. Name of Operator  Fortune (US) Inc.	Oil X Gas CONTIDENTIAL  2. Name of Operator					
Fortuna (US), Inc.  3. Address and Telephone No. Suite 3400, 888 3rd Street SW  4. Location of Well (Footage, Sec., T., R., M., or Surv  1309' FSL, 834' FEL SE/4 SE/4, Section 21, T16S,	43-015-30426  10. Field and Pool, or Exploratory Area Wildcat  11. County or Parish, State  Emery County, Utah					
,	) TO INDICATE NATURE OF NOTICE					
TYPE OF SUBMISSION	TY	PE OF ACTION				
Notice of Intent  Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Spud Notice	Pipeline, Powerline, Maintenance Corridor Construction Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water				

13. Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

> The Middle Mountain #21-16 well was spud at 2:00 pm on October 28, 2002 by Bill Martin Jr. Water Well Drilling.

Drilling reports will follow under a separate sundry notice

NOV 1 2 2002

DIVISION OF OIL, GAS AND MINING

ORIGINAL

14. I hereby certify that the foregoing is tr	ue and correct				
Signed Don Hamilton Don Has	Title	Agent for Fortuna US		Date _	November 1, 2002
(This space for Federal or State office use)					
Approved by	_ Title		Date		

#### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

	ENTITY ACTION FORM								
Operator:	Fortuna (US) Inc.		_ Operator Account Number:	N 2160					
Address:	Suite 3400, 888 3rd Street SW		_						
	city Calgary, Alberta, Canada								
		zip T2P5C5	Phone Number:	(403) 237-1163					

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4301530426	Middle Mountain #21	Middle Mountain #21-16		SESE 21 16S		6E	Emery
Action Code	Current Entity Number	New Entity Number	s	pud Da	te		y Assignment ective Date
Α	99999	13659	1	0/28/20	02	11-1.	2-02

Comments: Well spud by Bill Martin Jr. Water Well Drilling

CONFIDENTIAL

API Number	Well I	Well Name QQ Sec Twp		Rng County			
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
omments:					•		

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County	
Action Code	Current Entity Number	New Entity Number	S	Spud Date			Entity Assignment Effective Date	
omments:					·			

#### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

D	1.1	
חמו ו	Hamilton	

Don

Signature

Agent for Fortuna

11/1/2002

**ORIGINAL** 

Date

(5/2000)

() i.



P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-687-5311 Email: talon@etv.net

CONFIDENTIAL

November 11 2002

Mr. Al McKee
Petroleum Engineer
Bureau of Land Management—State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

RE: Sundry Notices (Weekly Drilling Reports)—Fortuna (US), Inc.

Middle Mountain #21-16— 1,309' FSL, 834' FEL - 43-0/5-30436

Section 21, T16S, R6E, SLB&M, Emery County, Utah

Dear Mr. Jones:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the *Sundry Notices* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed notice. Please feel free to contact myself or Mr. Mel Knezevich of Fortuna (US), Inc. at 1-780-402-1296 if you have any questions or need additional information.

Sincerely,

Don Hamilton
Agent for Fortuna (US), Inc.

**Enclosures** 

cc: Mrs. Marie McGann, BLM—Moab Field Office Mr. Mike Kaminski, BLM—Price Field Office Mr. Carter Reed, USDA Forest Service—Price SO

Mr. Tom Lloyd, USDA Forest Service—Ferron DO Mrs. Carol Daniels, Division of Oil, Gas and Mining

Mr. Don Jackson, Fortuna (US), Inc.

Mr. Don Jackson, Fortuna (US), Inc. Mr. Mark Moenich, Fortuna (US), Inc.

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OIL, GAS AND MINING

Form 3160-5 (June 1990)

### DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

**SUNDRY NOTICES AND REPORTS ON WELLS** 

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

5.	Lease Designation and Serial No
	UTU-77263

	UTU-77263
- 1	

Use "APPLICATION FOR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name N/A
SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A
1. Type of Well Oil X Gas	8. Well Name and No. Middle Mountain #21-16
2. Name of Operator Fortuna (US), Inc.	9. API Well No. 43-015-30426
<ol> <li>Address and Telephone No.</li> <li>Suite 3400, 888 3rd Street SW, Calgary, Alberta T2P5C5 403-237-11</li> <li>Location of Well (Footage, Sec., T., R.; M., or Survey Description)</li> </ol>	10. Field and Pool, or Exploratory Area Wildcat
1309' FSL, 834' FEL SE/4 SE/4, Section 21, T16S, R6E, SLB&M	11. County or Parish, State  Emery County, Utah

#### CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12.

TYPE OF SUBMISSION	TYPE OF ACTION			
Notice of Intent  Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Weekly Drilling Reports	Pipeline, Powerline, Maintenance Corridor Construction Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water		

Attached are the weekly drilling reports for the Middle Mountain #21-16 well

**RECEIVED** 

NOV 1 5 2002

**DIVISION OF** OIL, GAS AND MINING

14. I hereby certify that the	foregoing is true and correct		
Signed <u>Don Hamilton</u>	Don Hamilton Title Agent for	Fortuna US Date Novem	ber 11, 2002
(This space for Federal or S	tate office use)		
Approved by Conditions of approval, if a	TitleTitle	Date	

<sup>13.</sup> Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Talisman Energy Canada - Daily Drillin Report

Page 1/1

Well Name: FORTUNA MIDDLE M. NTAIN #21-16 te: 11/5/2002, Report: 9.0, DFS: 9.00

Job Type: Drilling - original

10	te 0/28/2002	; -	Release Da	1	(11) 72.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft)
	Summary						17.00
Weather		Road Condition	Road Condition		Hole Condition		
Clear		Sanded/Dusty		Good			
•	ns at Report Nov 06, 20		p Patters	on 104.			
nstalle	d. The Dr	aworks i	s on the s	ub. The derrick is pir	ned on the	sub and on the cre	e, the spreaders are own stand. The blocks ar and and one pump is in
olace. Operation	ns Next Repo	rt Period		•			
place. Operation Comple	ns Next Repo ete the tru	rt Period		g up Patterson 104.		unage is on the su	and the pump is in
olace. Operation Comple <b>Time L</b>	ns Next Repo ete the tru	rt Period ck portic	n of riggir	•		annuge is on the su	Comment
olace. Operation Comple Time L Start Date	ns Next Repo ete the tru	rt Period ck portic	on of riggin	g up Patterson 104.		Wait on day lig	Comment
place. Operation Comple Time L Start Date 00:00	ns Next Repo ete the tru .og e End Time	rt Period ck portio	Code	g up Patterson 104.		Wait on day lig	Comment
place. Operation Comple Time L Start Date 00:00	ns Next Repo ete the tru .og e End Time 08:00	rt Period ck portion Dur (hrs) 8.00	Code 00	g up Patterson 104.  Activity  Jndefined Status		Wait on day lig	Comment ht. up Patterson 104.
place. Operation Comple Time L Start Date 00:00 08:00 18:00	os Next Repo ete the tru og e End Time 08:00 18:00 00:00	Dur (hrs)	Code 00	g up Patterson 104.  Activity  Jndefined Status  Rig Up & Tear Down		Wait on day lig Move in and rig	Comment ht. up Patterson 104.
place. Operation Comple Time L	os Next Repo ete the tru og e End Time 08:00 18:00 00:00	Dur (hrs) 8.00 10.00 6.00	Code 00	g up Patterson 104.  Activity  Jndefined Status  Rig Up & Tear Down		Wait on day lig Move in and rig Wait on day lig	Comment ht. up Patterson 104.



<del></del>
To Date

Ops Supervisors

Arnie Hamarsnes, Drilling Engineer
Mel Knezevich, Drilling Foreman
Mark Moennich, Drilling Sup't
Randy Hackford, Tool Pusher
Bill Hedglin, Geologist

Rigs: Bill Martin Jr., 3

John Day, Tool Pusher

Rigs: Patterson U.T.I, 104

Jesse Blanchard, Drilling Manager

2, IDECO, MM-550

**BOPs** 

1	Nom 52	i i
Туре	(in)	P(wkg) (psi)
Annular Preventers	13 5/8	1,500.0

Formation Pick Groups: Drilling Sam...

Formation Picks Group

Drilling Sample

Name	Top (ftKB)
Blackhawk	1,025.0
Castlegate	955.0
Price River	470.0

Surface Casing, 1,063.7ftKB Casing Run Date Max OD (in) Grade

Casing Run Date Max OD (in) Grade Wt (lbs/ft) 11/2/2002 13 3/8 H-40 48.00

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OIL, GAS AND MINING

Talisman Energy Canada - Daily Drilling Report

Page 1/1

Well Name: FORTUNA MIDDLE I JNTAIN #21-16

Wellbores

Main Hole

Wellbore Name

Job Type: Drilling - original

/: 11/6/2002, Report: 10.0, DFS: 10.00

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** Weather Road Condition **Hole Condition** Clear Very good Cased to 1064 ft Operations at Report Time 06:00 Nov 07, 2002 Rig up Patterson 104. Operations This Report Period Move Patterson 104 onto location. The subs are stacked and spotted over hole centre, the spreaders are installed. The Draworks is on the sub. The derrick is standing. The rig is being winterized, (boiler being fired, steam and water lines being hooked up, prefabs and cold weather rigging installed). Start rigging up rig floor. Complete rigging up floor. Remove top casing collar, install flange, nipple up BOP and test BOP Time Log Start Date End Time Dur (hrs) Code Activity Commen 00:00 08:00 8.00 00 **Undefined Status** Wait on day light. 08:00 16:00 8.00 01 Rig Up & Tear Down Move Patterson 104 with Urie Trucking 16:00 00:00 8.00 01 Rig Up & Tear Down String lines, raise derrick, Rig up to drill. The rig is being winterized, (boiler being fired, steam and water lines being hooked up, prefabs and cold weather rigging installed). Start rigging up rig floor.

VS Dir (\*)

90.00

KO MD (ftKB)

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
1,125.0	1,125.0
Depth Progress (ftKB)	Drilling Time (hrs)
0.0	0.00

#### Ops Supervisors

Contact Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Mark Moennich, Drilling Sup't Randy Hackford, Tool Pusher Bill Hedglin, Geologist

Rigs: Bill Martin Jr., 3 John Day, Tool Pusher

Rigs: Patterson U.T.I, 104

Jesse Blanchard, Drilling Manager

1, IDECO, MM-550					
Pump Number	Pump Rating (hp)	Rod Diameter (in)			
1	550.0	2.5197			
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)			
5	15.00	0.105			

2, IDECO, MM-550					
Pump Number	Pump Rating (hp)  Rod Diameter (in)				
2	550.0	2.5197			
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)			
5	15.00	0.105			

#### **BOPs**

300.0

Туре	(in)	P(wkg) (psi)
Annular Preventers	13 5/8	1,500.0

### Formation Pick Groups: Drilling Sam.. Formation Picks Group Drilling Sample

Name	Top (ftKB)	
Blackhawk	1,025.0	
Castlegate	955.0	
Price River	470.0	

### Surface Casing, 1,063,7ftKB

Casing Run Date	Max OD (in)	Grade	Wt (lbs/ft)
11/2/2002	13 3/8	H-40	48.00

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DIVISION OF OIL, GAS AND MINING

Talişman Energy Canada - Daily Drilling Report

Page 1/1

Well Name: FORTUNA MIDDLE M\_\_\_ITAIN #21-16 Da\_ 11/7/2002, Report: 11.0, DFS: 11.00

Job Type: Drilling - original

Spud Date	e 0/28/2002	1 7	Release D	Date KB Elevation (ft) 8672.00		i	evation (ft) 3655.00	KB-Ground Distance (ft) 17.00
	ummary							
Weather	Veather Road Condition				Hole Condition			
Cloudy	/light snov	W		Very good			Cased to 1064 ft	
06:00 N		002 Pick up BHA to drill out.						
Winteri	s This Repo ze rig, nip is Next Repo	ple up E	OP and	rig up air drilling	equipment.			
Rig up	rig floor, o		air drilli	ng rig up. Test B0	OP and drill out			
Time L Start Date	OG End Time	Dur (hrs)	Code	A	ctivity			Comment
00:00	08:00	8.00		Rig Up & Tear D		Rig up steam and water lines.		
08:00	00:00	16.00	14	Nipple Up /Nipple Down BOP Stack		and w condu collar 13 5/8	vater around uctor pipe. I Install thre 8 x 3000# E	d fire boiler. Run steam d rig. Cut down the Remove top casing ead on flange. Nipple up BOP. Install rotating head art to rig up booie line.
Wellbo	res							
Wellbore Name			VS Dir (*)			KO MD (ftKB)		
Main Hole				90.00		300.0		

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AFE No.	Total AFE Amt (\$)			
37511				
Daily Cost Total	Cum. Cost To Date			
Daily Mud Cost	Mud Additive Cost To Date			
•				
Depth Start (ftKB)	Depth End (ftKB)			
1,125.0	1,125.0			
Depth Progress (ftKB)	Drilling Time (hrs)			
0.0	0.00			

#### Ops Supervisors

Contact Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Mark Moennich, Drilling Sup't Randy Hackford, Tool Pusher Bill Hedglin, Geologist

#### Rigs: Bill Martin Jr., 3 Rig Supervisor

John Day, Tool Pusher

### Rigs: Patterson U.T.I, 104 Rig Supervisor

Jesse Blanchard, Drilling Manager

#### 1, IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in) 550.0 1

Liner Size (in) Stroke (in) V/Stk (bbl/stk) 15.00 0.105 5

2.5197

#### 2, IDECO, MM-550

Pump Number	Pump Rating (hp)	Rod Diameter (in)
2	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	0.105

#### **BOPs**

	Nom Sz	
Туре	(in)	P(wkg) (psi)
Annular Preventers	13 5/8	1,500.0

#### Formation Pick Groups: Drilling Sam...

Formation Picks Group **Drilling Sample** 

Name	Top (ftKB)
Blackhawk	1,025.0
Castlegate	955.0
Price River	470.0

#### Surface Casing, 1,063,7ftKB

Casing Run Date	Max OD (in)	Grade	Wt (lbs/ft)
11/2/2002	13 3/8	H-40	48.00

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NOV 1 5 2002

**DIVISION OF** OIL, GAS AND MINING

Talisman Energy Canada - Daily Drilling Report

Job Type: Drilling - original

Well Name: FORTUNA MIDDLE & JNTAIN #21-16

Rio Release Date Spud Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** Weather Road Condition Hole Condition Cloudy/heavy snow Icey Cased to 1064 ft Operations at Report Time 06:00 Nov 09, 2002 Complete Air rig up Operations This Report Period Pick up bha, test BOP/ casing. Repair accumulator precharge. Operations Next Report Period Complete air rig up. Leak off test and drill Time Log Start Date End Time | Dur (hrs) | Code Activity Comment 00:00 04:00 4.00 01 Rig Up & Tear Down Rig up floor to pick up tubulars 10:00 6.00 06 04:00 Tripping Pick up tubulars 10:00 17:00 7.00 15 Test BOP Test BOP and casing to 200 psi low and 1200 psi high for 30 min against casing. Function test Accumulator. Order N2 and

				charge up precharge sphere. Mike Kamenski was here to witness the test.
17:00	20:30	3.50 06	Tripping	Trip in, pick up pipe. Tag cement at 1013 ft.
20:30	00:00	3.50 02	Drilling	Tag cement at 1013 and drill out. Float at 1022 ft and shoe at 1065 ft.

Drill Strings: BHA #2, Slick

IADC Bit Dull TFA (incl Noz) (inz ROP (ft/ht/Nozzles (/32") Bit Rui Bit 2 12 1/4in, FDSS+2 , ML4284 1-1-NO-A-0-0-NO-BHA 18/18/18 0.75 Max OD (in) Len (ft) String Components 8.000 Smith FDSS+2 , Drill Collar, Drilling Jars - Hydraulic, Drill Collar, XO Sub, Drill Collar 275.17

Drilling Parameters: 0.0ftKB

Wellbores

Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) 1,125.0 1.125.0 0.0 0.00 220 SPP (psi) WOB (1000lbf) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) Off Btm Tq 10 45 250.0

VS Dir (\*)

90.00

Main Hole

Wellbore Name

Directional Surveys: Totco Mechanical Drift

Survey Company **Totco Mechanical Drift** Patterson Crew

CONFIDENTIAL

KO MD (ftKB)

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
1,125.0	1,125.0
Depth Progress (ftKB)	Drilling Time (hrs)
0.0	0.00

11/8/2002, Report: 12.0, DFS: 12.00

**Page 1/1** 

Ops Supervisors

Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Mark Moennich, Drilling Sup't Randy Hackford, Tool Pusher Bill Hedglin, Geologist

Rigs: Bill Martin Jr., 3 Rio Superviso

John Day, Tool Pusher

Rigs: Patterson U.T.I, 104 Jesse Blanchard, Drilling Manager

1, IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 V/Stk (bbl/stk) Liner Size (in) Stroke (in) 5 15.00 0.105

2. IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in) 2 550.0 2.5197 V/Stk (bbl/stk) Liner Size (in) Stroke (in) 5 15.00 0.105

BOPs

300.0

Type	Nom Sz (in)	P(wkg) (psi)
Annular Preventers	()	1,500.0

Formation Pick Groups: Drilling Sam.

Formation Picks Group **Drilling Sample** 

Top (ftKB) Blackhawk 1,025.0 Castlegate 955.0 Price River 470.0

Surface Casing, 1,063.7ftKB Wt (lbs/ft) Casing Run Date Max OD (in) Grade 11/2/2002 13 3/8 48.00

## RECEIVED

NOV 15 2002

DIVISION OF OIL, GAS AND MINING

Talisman Energy Canada - Daily Drilling Report

Page 1/2

Well Name: FORTUNA MIDDLE N NTAIN #21-16

D 11/9/2002, Report: 13.0, DFS: 13.00

Job Type: Drilling - original

28/2002	į		1	8672.00	8655.00	17.00	1 37511		الانساء		
							Daily Cost Total Cum. Cost To Da				
			Road Condition		Hole Condition						
-			Icey		Cased to 10	064 ft	Daily Mud Cost	Mud Additi	ve Cost To Dat		
		lown ba	mmer at 1152 ft				Depth Start (ftKB)	Depth End	(ftKB)		
		20111111					1,125.0		,160.0		
		up.					11 ' - ' ' '	-	ne (hrs) 1.00		
		rill with	serated water		. ,	on a fill all seconds	00.0		1.00		
	and		acrated water.				Ops Supervisors				
	ur (hrs)	Code	T	ctivity		Comment			aineer		
		02	Drilling		bottom @ 1125.	Hole was full of cement.	Mel Knezevich, Dril Mark Moennich, Dr	ling Forem illing Sup't	nan		
02:30	1.00	05	Condition and/o	r Circulate mud	Circulate hole cle	ean.	- 1 ·				
07:00	4.50	01	Rig Up & Tear D	)own		-					
						•		r., 3			
14:00	7.00	01	Rig Up & Tear D	Down				her			
:					prefabs not in go	od condition at all. BOP					
							Rig Supervisor	1.1, 104			
							Jesse Blanchard, D	rilling Man	ager		
							11				
:									2.5197		
					matter. Things w	e just did not realize. Air	1 1	. ,	//Stk (bbl/stk) 0.105		
1							11				
i									Diameter (in)		
i							2 550	.0	2.5197		
							*		/Stk (bbl/stk)		
:							5 1	5.00	0.105		
							BOPs				
					These things take	e an unbelievable	Type				
							Annular Preventers	13 5			
					1		Mud Additive Amo	unte			
					to hire.		Description	Consumed	Daily Cost (\$		
								10.0	75		
							L	20.0	14		
10.00	2.00	00	11-4-54 04-4		Dun lack off toot	207 noi anniind audines		20.0			
10.00	2.00	UU	Unidennied Statu	5			BAROID USA	65.0	1,80		
i					8.38 ppg is .8 psi	/ft gradient or 18.1	DIAMONIAM				
							PHOSPHATE				
							Formation Pick Gr	Orine: Deil	ling Sam		
	į						Formation Picks Group	-apo. Dill	y valit		
			D: 11 0 T D								
			Kig Op & Tear D	own	Rigging in air driil	ing system.			Top (ftKB) 1,025.		
ngs: BHA	#2, SI	ick	IADC Ba D. III		(incl Nov) (insl DOD (##-Ja	lozzine (/22*)	Castlegate	į	955.		
1/4in. FDS	S+2	ML4284			0.75	18/18/18	Price River	İ	470.		
Max OD	(in)	String Co	nponents								
0.0	00		·-	mai, Diming Jans	- riyuraulic, Dilli Co	iiai, XO OGD, Diiii Ooliai,	Casing Run Date Max OD	(in) Grade	Wt (lbs/ft)		
L							11/2/2002   13 3/	B H-40	48.00		
Parameter			nd (ftKB)   Cum Deoth	(ftKB) Drill Time (hrs	)   Cum Drill Time (hr Int F	ROP (ft/hr) Flow Rate (gpm)					
Jenth					, , ,		. 1				
1	25.0		25.0 0.0		0.00	220	Dr	The same	IVE		
	ov 10, 200; This Report P the air drill Next Report P rith tri-cone  g End Time D 01:30  02:30  07:00  14:00  16:00  1/4in, FDS: Max OD 7  8.0	ight snow at Report Time ov 10, 2002 Lay of This Report Period the air drilling rig Next Report Period ith tri-cone and d  2g End Time Dur (hrs) 01:30 1.50  02:30 1.00 07:00 4.50  14:00 7.00  10:00 8.00  Ings: BHA #2, Si 1/4in, FDSS+2, 7 Max OD (in) 8.000	ight snow at Report Time ov 10, 2002 Lay down ha This Report Period the air drilling rig up.  Next Report Period rith tri-cone and drill with  Nog End Time Dur (hrs) Code 01:30 1.50 02  02:30 1.00 05 07:00 4.50 01  14:00 7.00 01  Ings: BHA #2, Slick 1/4in, FDSS+2 , ML4284 7 Max OD (in) String Cor 8.000 Smith F Bit Sub	Road Condition   Icey   Icey	Road Condition   Icey   at Report Time   Icey   at Report Time   Icey   at Report Time   Icey   Ic	Road Condition   Hole Condition   Itoly   Cased to 10   Itoly   Itoly	Read Condition   Icey	Report Time   Property   Cased to 1064 ft	Special Street   Spec		

NOV 1 5 2002

I alisman Energy Canada - Daily Drilling Report Page 2/2
Well Name: FORTUNA MIDDLE N NTAIN #21-16 To 11/9/2002, Report: 13.0, DFS: 13.00
Job Type: Drilling - original

| Spud Date | Rig Release Date | KB Elevation (ft) | Ground Elevation (ft) | KB-Ground Distance (ft) |

4 '		Release Date	KB Eleva		Ground Elevation (ft	·	ound Distance (ft)		
10/28/2				8672.00	8655.00		17.00		
Daily Summ	ary								
Drill Strings	: BHA #3, S	lick							
Bit Ru Bit		V	ADC Bit Dull	TFA	(incl Noz) (in <sup>2</sup> ROP	(ft/hr Nozzles (/32")			
3   12 1/4in	i, H42K2K3F	PD, KL9397	1-1-NO-A-0-0	-NO-BHA	35.	0			
Len (ft)	Max OD (in)	String Componen	ts	<u>'</u>					
281.07	11.000	Smith H42K2 Collar, Bit Su		ollar, Drilling Ja	rs - Hydraulic,	Drill Collar, XO	Sub, Drill		
Drilling Para									
BHA No.			·   · · ·	KB) Drill Time (hrs)	Cum Drill Time (I		Flow Rate (gpm)		
3	1,125.0	1,160.0	35.0	1.00	1.00	35.0			
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	SO HL (1000lbf)	Drilling Torque	Off Btm Tq		
5,000	50	225.0	60	60	60				
Wellbores									
	Wellbo	e Name		VS Dir (*)		KO MD (ftKB)			
Main Hole				9	0.00		300.0		
	Surveys: To	co Mechanic	al Drift				F		
Description					Survey Co	mpany			
Totco Mechai	nical Drift				Patterso	n Crew			
Survey Data									
MD (ftKB)	Incl (*)	Azm (*)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (*/100ft)		
200.00	0.6	90.0	00 300.	0.0	0.00	0.00	0.00		
300.00	J U.S	,o <sub>1</sub> 30.0							
600.00				99 0.0	0 2.62	2.62	0.00		
	0.5	90.0	00 599.						

Report Printed: -41/12/2002

DMINING CHARGES -- talisman Energy Canada - Daily Drilling Report

Page 1/2 Da 11/10/2002, Report: 14.0, DFS: 14.00 Well Name: FORTUNA MIDDLE N JNTAIN #21-16

Job Type: Drilling - original

	/28/200	2	Release I	Date	KB Elevation (ft) 8672.00				KB-Gr	round Distance (ft) 17.00	37		Total AFE A	\rnt (\$)
	ummar	у									Daily Cost To	tal	Cum. Cost	îo Dar
		t Time		Road C Icey	ondition		1.				Daily Mud Co	st	Mud Additiv	e Cost
06:00 No	lov 10, 2 s This Rep	2002 Drill a ort Period									1,10	30.0		559.0
find the	right co	mbo of ai								er. Attempt to	11		-	e (hrs) 3.50
			vater an	d monitor o	drift with Totco dr	ift indica	itor.				Ops Supe			
Time Lo											1 1	narsnes, C	Orilling Eng	
				Pig I In 8			Finish A							an
		<u> </u>				mud					7 1			
	<del></del>	1		4		- IIIuu	1			ottom	- 1 T	•		
	4						- <del> </del>				Bill Heagil	n, Geolog	IST	
55.00	04.00	1.00	02	Dining			hammer	slowed d	own. Ti	he next 2 ft took	Rigs: Bill	Martin J	r., 3	
:	:						firing du	e to the va	ast amo	ount of water the			her	
04.00	0F 00	4 ==	00	<b>T</b>									T.I, 104	
											1 1 - 1		rillina A4	
05:30	10/28/2002   8672.00   8655.00   17.		idei											
								np out na	ire tarik	(muu boat) to a			()   0-40	·
08:00	10.00	2.00	06	Tripping				ith tri con	a hit 10	) # of fill	Pump Number	1 .	•	2.519
											Liner Size (in)	-1		Stk (bbl
					;y				tary as	scinory.	11 ' '			0.1
Type Floc Wat					T(fl) (°F)	Densi	ty (lb/gal)	Vis (s/qt)		Plas Vis (cp)	1 1			2.519
			i		Filtrate (mL/30m	in) HTHP	Filt (mL/30m	in Filter Cake	e (in)	MBT (lb/bbl)		1		Stk (bbl
					· ·							,		0.1
.me (lb/bbl	1)	pΗ	P	m (mL/mL)	Pf (mL/mL)	Calciu	ım (mg/L)	Potassium	(mg/L)	Polymer (lb/gal)	Pump Che	cks		
hlorides (r	mg/L)	Sand (%)	S	olids (%)	Percent Oil (%)	Perce	nt Water (%)	LG Solids	(%)	Electric Stab (V)	P (psi)	Slow Spd	Strokes (strokes/min)	) E
hill Stri	inae: B	LA #4 CI	ick					<u> </u>		<u> </u>			35	
Bit Rui Bit	mys. D	TA #4, 31	ick .	IADC Bi	t Dull	TFA (i	ncl Noz) (in²	ROP (ft/hr/No	zzies (/32	?")	0.0	NO	68	<u>!</u>
4 12	1/4in, G	T-S28C, (	6000317	7	******						BOPs			
en (ft)											, T	vne		P(w
2/5.1	1	8.000	Hughes	6 G1-S28C	, Drill Collar, Drill	ing Jars	- Hydrauli	c, Drill Co	ollar, XC	) Sub, Drill			13 5/	
	i	i		DIL GUD							Mud Addit	ive Amo	ınte	
				F - 4 (B) (6) (16)	D # (0140) ID '# T	<del></del>	A 5 11 4						Consumed	Daily C
BHA No. ⊿	De		i	1			1						1.0	
VOB (1000	Olbf) Ri	•			į								ļ	
23		60	70	0.0	<b>5,000</b> 65,	000	65,000						3.0	
Vellbor	<b>es</b>			· · · · · · · · · · · · · · · · · · ·								_	!	
A-:- 11-1		Wellbore	Name		VS			K	O MD (ftk		BAROID U	SA	4.0	
						90	0.00			300.0				
Direction Description		veys: Tot	co Mec	hanical Dr	ift '		Surve	y Company				SA MUD	8.0	
		al Drift					Patt	erson Cre	w		l	SA	15.0	
		Inel (8)		(9)	TIMO (AMB)	10 (4)	P111 /**	, ,	16.75	DI 0 (5/1555)		<b>-</b> /1	. 13.01	
											ł	SA	17.0	
1 22				29.00			1	00	0.0					
	4.00	0.7	5	90.00	1,403.95	0.00	1	0.02	10.0	0.14	<u> </u>		4 <u> </u>	
	4.00	0.7	5	90.00	1,403.95		<u> </u>				<u> </u>	SA	47.0	

CONFIDENTIAL

NOV 15 2002

**DIVISION OF** OIL COR AND MINING

Arnie Hamarsnes,	Contact
Ops Supervisors	
399.0	13.50
Depth Progress (ftKB)	Drilling Time (hrs)
1,160.0	1,559.0
Depth Start (ftKB)	Depth End (ftKB)
Daily Mud Cost	Mud Additive Cost To Date
Daily Cost Total	Cum. Cost To Date
37511	
AFE No.	Total AFE Amt (\$)

eman ıp't er

Rod Diameter (in) 2.5197 V/Stk (bbl/stk)

0.105 od Diameter (in) 2.5197 V/Stk (bbl/stk)

0.105 s/min): Eff (%) 35 90

90

om Sz (in) P(wkg) (psi) 3 5/8 1,500.0

ed Daily Cost (\$) .0 883 0 105 0 452 0 1,600 0 1,200 0 1,087 0 1,303

Formation Pick Groups: Drilling Sam... Formation Picks Group **Drilling Sample** Top (ftKB) 1,025.0 Blackhawk Castlegate 955.0

talisman ⊨nergy Canada - Daily Drilling Report
Well Name: FORTUNA MIDDLE I JNTAIN #21-16 Da 11/10/2002, Report: 14.0, Di
Job Type: Drilling - original Page 2/2 11/10/2002, Report: 14.0, DFS: 14.00

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** 

Name Top (ftKB) 470.0 Price River

Surface Casing, 1,063.7ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft) 11/2/2002 13 3/8 H-40 48.00

Report Printed: 11/12/2002

and the state of t

Page 1/1 D 11/11/2002, Report: 15.0, DFS: 15.00 Job Type: Drilling - original

Spud Date	/28/2002		Release (	Date	KB Eleval		G	Fround Elevation (		and Distance (ft)	AFE No.	Total AFE	E Amt (\$)
	ummary				!	3672.00		8655.00	<u>'</u>	17.00	37511 Daily Cost Total	0	, ž. Deta
Daily 3 Weather	ummary				d Condition						Daily Cost Total	Cum. Cos	st To Date
Clear				Ice				Hole Con Good	dition		Daily Mud Cost	Mud Addi	tive Cost To Da
	s at Report	Time		100	<u>,                                      </u>			Good				•	
		002 Drill	ahead @	2000 f	Pt .						Depth Start (ftKB)	Depth En	• •
	s This Repo										1,559.0		1,993.0
Drill ahe	ead with	aerated i ort Period	nhibited	water. 1	Trip out for v	viper and i	install :	shocksub. Pic	k up 6 additio	nal DC's.	Depth Progress (ftKB) 434.0	Drilling Ti	me (hrs) 21.50
Comple	te trip ar	d drill ah	ead.		***************************************						Ops Supervisors		
Time L			,								C	ontact	
Start Date	End Time 02:00	2.00	Code	Drilling	Activ	ity		Drill shood v	Comment	-ta- aiith	Arnie Hamarsnes, I		
10.00	02.00	2.00	UZ	Dillilling	,				vith aerated wa of mist water.	ater or air with	Rod Cuthill, Drilling Mel Knezevich, Dril		
02:00	02:30	0.50	10	Rig Su	rvey		***********	Survey at 15	92 ft		Mark Moennich, Dri		
02:30	13:30	11.00	02	Drilling					vith aerated wa of mist water.	ater or air with	Roger Bromley, Too	ol Pusher	
13:30	14:00	0.50	10	Rig Su	rvey			Survey at 17			Bill Hedglin, Geolog	ist	
14:00	21:30	7.50	02	Drilling				Drill ahead v	vith aerated wa of mist water.	iter or air with	Rigs: Bill Martin J		
21:30	22:00	0.60	10	Ria C.	n/ov					worst case all	John Day, Tool Pus	her	
21.50	0 22:00 0.50 10 Rig Survey								ast. It is not a		Rigs: Patterson U.	- Carrier Control Control Control	
22:00	23:00	1.00	02	Drilling		Drill ahead with aerated water or air with 155 gal/min of mist water.					Jesse Blanchard, D	rilling Ma	nager
23:00	00:00	1.00	06	Trinnin	^			1		n abadi sub	1, IDECO, MM-550		
.5.00	23:00 00:00 1.00 06 Tripping				g			and 6 dc's. E	neck bit, pick u Bit is at the sho	e by 24:00	Pump Number Pump Rati		2.5197
									owed no fill on or tight spots		Liner Size (in) Stroke	in) \ 5.00	//Stk (bbl/stk) 0.105
Drill Str Bit Rui Bit	ings: Bl	IA #4, SI	ick	HADO	Bit Dull		TEA (	al Many (intition)	(ft/hr Nozzies (/32")		2, IDECO, MM-550 Pump Number Pump Rati	na (ba)   Dad	Diameter (in)
	1/4in, G	T-S28C,	6000317					2.36 23		/32/32	2 550		2.5197
en (ft) 275.1	1		String Cor Hughes	GT-S28	BC, Drill Col	lar, Drilling	Jars	- Hydraulic, D	rill Collar, XO	Sub, Drill	Liner Size (in) Stroke	in) V	//Stk (bbl/stk) 0.105
			Collar,	Bit Sub						· · · · · · · · · · · · · · · · · · ·	BOPs	L	
	Parame	ters: 434	.oftKB									Nom	
HA No.		th Start (ftK 1.559.0			Cum Depth (ftl			Cum Drill Time (I		Flow Rate (gpm)	Type Annular Preventers	(in)	
4 VOB (1000		M (mm)	SPP (	993.0	833.0 ot HL (1000lbf)	21.		35.00 SO HL (1000lbf)	20.2 Drilling Torque	155 Off Btm Tq	Annular Preventers	13	5/8 1,500.0
23		60	1	0.0	70	70	OIDI)	70	Drining Torque	Oil Buil 14	Mud Additive Amo		
Vollhor	·	***************************************	1			·			I	·	Description BAROID USA MUD	10.0	Daily Cost (\$) 750
Velibor	<del>və</del>	Wellbor	e Name		1	VS Di	r (°)		KO MD (ftKB	)	TRANSPORT	10.0	7.50
Main Ho	le					***		.00	NO IND (IND	300.0		1	<u> </u>
		eys: Tot	co Mec	hanical	Drift						Formation Pick Group	oups: Dri	lling Sam
escription otco M	echanica	l Drift						Survey Co Patterso			Drilling Sample		
urvey								1. 41.070			Name Blackhawk		Top (ftKB) 1,025.0
MD (filk	B)	Inci (*)		m (°)	TVD (ftKB)	NS	(ft)	EW (ft)	VS (ft)	DLS (*/100ft)	Castlegate		955.0
1,59	2.00	1.2	5	90.00			0.00				Price River		
	2.00	1.5	0	90.00	1,791.8	37	0.00	18.10	18.10		Luce Kivel		470.0
4 04	0.00	1.5	0	90.00	1,809.8	36	0.00	18.57	18.57		Surface Casing, 1,0	63.7ftKB	<b>,</b>
1,81		1.5	0	90.00	1.022.0	22	0.00	21.56	04.50		Casing Run Date Max OD		Wt (lbs/ft)
1,81	4.00		<u> </u>	90.00	1,923.8	)Z	0.00	21.50	21.56	0.00	11/2/2002 13 3/8		

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NOV 1 5 2002

DIVISION OF OIL, GAS AND MINING

(5/2000)

#### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

F	О	R	٨	۱	7

	R	EPORT OF	WATER ENCO	UNTERED DI	URING DRILLING		
Well name and		dle Mountain #	21-16			Michael Allen	
API number: 43				-			
Well Location: C	QQ <u>SESE</u> Se	ction 21 To	ownship <u>16S</u> R	ange <u>6E</u> Cou	unty Emery		
Well operator:	Fortuna (US)	, Inc.		<del></del>			
Address:	Suite 3400, 8	88 3rd Street S	SW .				
2	city Calgary		state AB zip T2	P5C5 Ph	hone: (403) 237-1163		
Drilling contracto	or: Patterson	Rig 104					
Address: _							
<u>0</u>	ity		state zip	Ph	hone:		
Water encounter	red (attach ad	dditional pages	as needed):				
Γ	DEF	PTH .	VOL	JME	QUALITY		
	FROM	то	(FLOW RATE		(FRESH OR SALTY)		
-	1,150	1,152	1,200 bbls/h		Fresh with 200ppm Ca		
			3,000 cfm a				
			air lift oper	face without			
			and the open	uding .			
_	•		·· · · · · · · · · · · · · · · · · · ·				
Formation tops:	1	Northhorn 0'	2	Price River 450'	Castlegate 955'	<del></del>	
(Top to Bottom)	4	Blackhawk 1,	<b>025</b> ' 5	Star Point 2,012	2' 6 Mancos 2,323'	_	
	7		8		9	<del></del>	
	10		11		12	_	
f an analysis has	s been made	of the water er	ncountered, please	e attach a copy of	of the report to this form. $ORII$	GIN	
	-	-	to the best of my kno	_			
NAME (PLEASE PRINT)	Don Hamilto	<u>n</u>		Agen	nt for Fortuna	-	
SIGNATURE	on Ha	milton		DATE	RECEIN	/EI	

NOV 2 2 2002



P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-687-5311 Email: talon@etv.net

CONFIDENTIAL

November 18 2002

Mr. Al McKee
Petroleum Engineer
Bureau of Land Management—State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

RE: Well Reports (Water Encountered During Drilling, As-built Drawing, Weekly Drilling Reports)—Fortuna (US), Inc.

Middle Mountain #21-16—1,309' FSL, 834' FEL
Section 21, T16S, R6E, SLB&M, Emery County, Utah

Dear Mr. McKee:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the above referenced *Sundry Notices* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed notice. Please feel free to contact myself or Mr. Mel Knezevich of Fortuna (US), Inc. at 1-780-402-1296 if you have any questions or need additional information.

Sincerely,

Don Hamilton
Don Hamilton
Agent for Fortuna (US), Inc.

**Enclosures** 

cc: Mrs. Marie McGann, BLM—Moab Field Office Mr. Mike Kaminski, BLM—Price Field Office

Mr. Carter Reed, USDA Forest Service—Price SO

Mr. Tom Lloyd, USDA Forest Service—Ferron DO

Mrs. Carol Daniels, Division of Oil, Gas and Mining

Mr. Don Jackson, Fortuna (US), Inc.

Mr. Mark Moenich, Fortuna (US), Inc.

NOV 2 2 202 OIL COSTON OF Form 3160-5 (June 1990)

# UN D STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Lies "APPLICATION FOR PERMIT..." for such proposals

Use "APPLICATION FOR PERMIT" for such proposals	6.	If Indian, Allottee or Tribe Name N/A
SUBMIT IN TRIPLICATE	7.	If Unit or CA, Agreement Designation N/A
Type of Well CONFIDENTIAL	8.	Well Name and No. Middle Mountain #21-16
Name of Operator Fortuna (US), Inc.	9.	API Well No. 43-015-30426
Address and Telephone No.  Suite 3400, 888 3rd Street SW, Calgary, Alberta T2P5C5 403-237-1163  Location of Well (Footage, Sec.,T., R.; M., or Survey Description)	10.	Field and Pool, or Exploratory Area Wildcat
1309' FSL, 834' FEL	11.	County or Parish, State
SE/4 SE/4, Section 21, T16S, R6E, SLB&M		Emery County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION					
Notice of Intent  Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Weekly Drilling Reports	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water				

Attached are the weekly drilling reports for the Middle Mountain #21-16 well

RECEIVED

FORM APPROVED Budget Bureau No. 1004-0135

Expires: March 31, 1993

Lease Designation and Serial No.

UTU-77263

5.

NOV 2 2 2002

DIVISION OF OIL, GAS AND MINING

FILE COPY

				_					
14. I hereby certify that the foregoing is true and correct									
Signed <u>Don Hamilton</u>	Hamilton Title Agent for F	ortuna US	Date November 18, 2002						
(This space for Federal or Sta	te office use)								
Approved by	Title	Date							

<sup>13.</sup> Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Report Printed: 11/13/2002

Drilling Sample

√ 11/12/2002, Report: 16.0, DFS: 16.00

Well Name: FORTUNA MIDDLE INTAIN #21-16

Job Type: Drilling - original

404	28/2002	•	Release Da	ate	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	AFE No.	Total AFE A	vmt (\$)
10/ Daily Su	28/2002				8672.00	8655.00	17.00	37511 Daily Cost Total	Cum. Cost 1	To Date
Veather	iiiiiiai y	<del></del>		Pond C	Condition	Hole Condition		Daily Cost Total	Cuin Cost	Date
Clear				Icey	Oldifori	Good		Daily Mud Cost	Mud Additiv	e Cost To Da
	at Report	Time								
			at 2355	ft fanning	dev.			Depth Start (ftKB)	Depth End (	
•	This Repo		Dogulata			luma. Timbé bala usban	drilling blind bakının	1,974.0 Depth Progress (ftKB)	∠,. Drilling Time	303.0
		aerated. F t. Deviatio			vater to control pit vo	lume. Tight hole when	arilling blind between	329.0	1	7.50
Operations			vr deviet	ion Mone	al and single shot on	the way to location. Wi	Il trin	Ops Supervisors		
Fime Lo		ily ilole ic	o deviati	ion. Mone	n and single shot on	the way to location. Wi	ıı uıp.	Arnie Hamarsnes, D	ntact Irilling Engi	ineer
		Dur (hrs)	Code	ļ	Activity		Comment	Mel Knezevich, Drill		
00:00	00:30	0.50	00	Undefine		Thaw out hole fill	line.	Rod Cuthill, Drilling	•	
00:30	01:30	1.00	06	Tripping			n 6 joints drill pipe /	Mark Moennich, Dril		
				i		break bit.		Roger Bromley, Too		
1:30	04:30	3.00	06	Tripping			follows & RIH: bit, 3-8"	Bill Hedglin, Geolog		
	DC, XO, shock sub, 3-6" DC, drilling ja									
		<u> </u>				8-6" DC, drill pipe		Rigs: Bill Martin Jr	., 3	
i	05:00	0.50		Break Cir	rc.		unload hole w/ air	John Day, Tool Pusi	ner	
05:00	11:45	6.75	∪∠ .	Drilling			ole from 1974'KB to 200 cfm air & 155 GPM		·	
						fluid.	200 Cilii ali & 133 GFIVI	Rigs: Patterson U.* Rig Supervisor	Г.І, 104	
11:45	12:15	0.50	10	Rig Surve			@ 2121'KB / 2.0 deg	Jesse Blanchard, Dr	illing Mana	ger
11.45	12.15	0.50	10	riy Suive	<i>э</i> у	inclination.	@ 2121 NB / 2.0 deg		illing mand	.gc.
12:15	17:15	5.00	02	Drilling			ole from 2152'KB to	1, IDECO, MM-550 Pump Number Pump Ratir	a (bo) (Bod D	iameter (in)
2.10	17.15	3.00	<i>.</i>	Dining		2247'KB.	Sie nom 2132 NB to	1 550.		2.5197
7:15	17:45	0.50	07	Rig Servi	ice	Rig service / BOI	check.	Liner Size (in) Stroke (	n) V/S	Stk (bbl/stk)
	19:45	2.00		Drilling			ole from 2247'KB to		.00	0.105
						2278'KB using a		2, IDECO, MM-550	<del></del>	
9:45	20:15	0.50	10	Rig Surve	 Ву	Deviation survey	@ 2238'KB / 3.0 deg	Pump Number Pump Ratir	g (hp) Rod D	iameter (in)
				J	•	inclination.	•	2 550.		2.5197
20:15	00:00	3.75	02	Drilling			ole from 2278"KB Hole	Liner Size (in) Stroke (i	n) V/S	itk (bbl/stk)
							60-2290 ft. The tight	5 15	.00	0.105
							due to the fact the pits were drilling blind to	Pump Checks		
							ume. Once the pit		Strokes	
							ced, the air was brought	P (psi) Slow Spd	(strokes/min)	
:							rns established the hole	110.0 No 170.0 No	35 50	
1							ed to the same condition		50	9
		1	:			as previous.		BOPs		<del></del>
i								Туре	Nom Sz (in)	P(wkg) (ps
	ngs: Bl	IA #5, Sli	ck					Annular Preventers		8 1,500.0
it Rui Bit		F COOC C	000047	IADC B	it Dull	TFA (incl Noz) (in ROP (ft/hr)				
RR   12 1 en (ft)		Γ-S28C, 6	String Com	1		0.75 18.8	18/18/18	Mud Additive Amou		Daily Cost (\$)
2000.2	,			•	, Bit Sub, Drill Collar	. XO Sub. Shock Sub. I	Drill Collar, Drilling Jars -	BAROID USA MUD	1.0	3
					ollar, Drill Pipe	,	, ,	ENG LIVING		
Arilling F	2arama'	ters: 329.	ORKB		• •			ALLOWANCE		
HA No.				nd (ftKB)  Cı	um Depth (ftKB) Drill Time (	hrs) Cum Drill Time (hr Int F	ROP (ft/hr) Flow Rate (gpm)	BAROID USA	1.0	883
5		1,974.0	1	03.0	329.0 17.5		18.8 155	BARACOR 700		
/OB (1000l	bf) RP	M (rpm)	SPP (p		IL (1000lbf) PU HL (1000		ng Torque Off Btm Tq	BARIOD USA MUD CHECK	1.0	200
10		120	170	J.U	86 86	86		BAROID USA	7.0	448
Vellbore	S	102-112	Mar		· · · · · · · · · · · · · · · · · · ·	765	KO 140 (8)/C'	FUMARIC ACID	7.0	440
Main Hole		Wellbore	мате		VS Dir	90.00	KO MD (fiKB) 300.0		8.0	2;
						30.00	300.0	QUICK GEL	0.0	_`
irection escription	nai Surv	eys: Toto	o Mech	nanical Di	mτ	Survey Company	,	BAROID USA	13.0	96
-	chanica	l Drift				Patterson Cr		SODA ASH		
otco Me								BAROID USA	14.0	1,120
otco Me Jurvev D		Incl (°)	Azn	n (°)	TVD (ftKB) NS (ft	t) EW (ft)	VS (ft) DLS (*/100ft)	BARACAT		,
otco Me urvey D MD (ftKB	3)									
MD (ftKB 2,121	1.00	2.00	<u> </u>	90.00	2,120.73	0.00 27.57	27.57 0.25	BAROID USA	68.0	1,885
urvey D MD (ftKB	1.00		<u> </u>	90.00 90.00		0.00     27.57       0.00     32.68	27.57 0.25 32.68 0.85	DIAMONIAM	68.0	1,885
urvey D MD (ftKB 2,121	1.00	2.00	<u> </u>		2,120.73 2,237.62		32.68 0.85		68.0	1,885

NOV 2 2 2002

Talisman Energy Canada - Daily Drillin Report JNTAIN #21-16

Da. 11/12/2002, Report: 16.0, DFS: 16.00

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Well Name: FORTUNA MIDDLE N

Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** 

Name	Top (ftKB)
Star Point	2,012.0
Blackhawk	1.025.0
Castlegate	955.0
Price River	470.0

Surface Casing, 1,063.7ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft) 11/2/2002 13 3/8 H-40 48.00

## RECEIVED

NOV 2 2 2002

DIVISION OF GAS AND MINING

10/28/2002		elease Date	KB Elevation (ft) 8672.00	Ground Ele	evation (ft) 655.00		Distance (ft) 17.00	AFE No. 37511	Total AFE A	mt (\$)
Daily Summary				11.35		Daily Cost Total	Cum. Cost T	o Date		
Veather		Road Co	ondition	i	lole Condition	)				
perations at Report	Time	Icey			Good			Daily Mud Cost	Mud Additive	Cost To Da
6:00 Nov 14, 2	476'KB, DR	RILLING AHEAD						Depth Start (ftKB) 2,303.0	Depth End (	
perations This Repo		/ xo BHA to drop	angle & run single si	not tools				Depth Progress (ftKB)	Drilling Time	(hrs)
perations Next Repo	ort Period		angle & run single si	iot tools.				122.0		5.75
Prill ahead fann	ng hole for	deviation						Ops Supervisors		
ime Log art Date End Time	Dur (ben)	Code	Activity					Co	ntact	
0:00 09:00	9.00:02		ACIVITY	DRILL	ING 12 1/	Comment 4" HOLE FR	OM 2303'KB	Arnie Hamarsnes, D Mel Knezevich, Drilli		
				1		ING 1200 CI	FM & 150	Rod Cuthill, Drilling I	•	
9:00 09:30	0.50 10	Dia Sunta			FLUID.	DVEV @ 22	OFIND ( O	Mark Moennich, Drill		
9:00 09:30	0.50 10	Rig Surve	У		NCLINATI	RVEY @ 23: ION.	35'KB / 3	Roger Bromley, Too Bill Hedglin, Geologi		
9:30 11:15	1.75 02	2 Drilling		DRILL	ING 12 1/	4" HOLE FR	OM 2375'KB			
	:	······································				ING AERATI		Rigs: Bill Martin Jr. Rig Supervisor	, 3	
1:15   13:15	2.00 06	5 Tripping				391'KB TO C SINGLE SUI	-	John Day, Tool Push	er	
3:15 18:15	5.00 06	5 Tripping		MAKE	UP NEW	BHA AS FO	LLOWS	Rigs: Patterson U.1	.l, 104	
		There was a	les 14 Alem Ref			I" TOOTH BI " DC, 3 POII		Rig Supervisor		~~~
		HEC	EIVED			DC, SHOCK		Jesse Blanchard, Dr	шиу мапа	yeı
						IARS, 8-6"DO RAN SINGLE		1, IDECO, MM-550 Pump Number Pump Ratin	(hp) Rod Di	ameter (in)
:		NOV	2 2 2002			VAY IN HOL		1 550.0		2.5197
:				1339'K	(B, 1806'K TION BLIN	B & 2363'KE	3.	Liner Size (in) Stroke (ii	n) V/S .00	tk (bbl/stk)
	•	DIVIS	SION OF	FUNC	HON BLI	ID KANS.			.00	0.105
3:15 19:00	0.75 05	OILGAAS	AND MUNING HUD	BREA	K CIRCUL	ATION WITI	HAIR&	2, IDECO, MM-550 Pump Number Pump Ratin	(hp) Rod Di	ameter (in)
00.00	5 00 05	· — —		FLUID				2 550.0	) 2	2.5197
9:00 00:00	5.00 02	2 Drilling		,		4" HOLE FRO D FLUID, 10		Liner Size (in) Stroke (ii	o) V/S	k (bbl/stk) 0.105
					O RPM TO			Pump Checks		0.100
rill Strings: Bl	łA #5, Slici								Strokes	I
RuiBit RR 12 1/4in, G	T-S28C 60	IADC Bit	Dull TE	FA (incl Noz) (ir 0.75	n* ROP (ft/hr)	, - ,	8/18	P (psi) Slow Spd 170.0 No	(strokes/min) 50	
n (ft) Max	OD (in) Str	ing Components						BOPs		
2000.28		ughes GT-S28C, ydraulic, Drill Coll	Bit Sub, Drill Collar, I	XO Sub, St	nock Sub,	Drill Collar, I	Orilling Jars -		Nom Sz	
i i	(1.1)	/uraunc, Drin Con	ai, Dilli ripe				İ	Туре	(in) 13 5/8	P(wkg) (p 3 1,500
		145						Annular Preventers		
			n Depth (ftKB) Drill Time (hr	s) Cum Dril	Time (hriint	ROP (fl/hr) F	low Rate (gpm)			
A No. Dep 5	th Start (ftKB) 2,303.0	Depth End (ftKB) Cur 2,391.0	m Depth (ftKB) Drill Time (hr 417.0 10.75	28.	Time (hr Int	8.2	low Rate (gpm) 155	Mud Additive Amou Description	n <b>ts</b> Consumed C	
A No. Dep 5 0B (1000lbf) RP	th Start (ftKB) 2,303.0 M (rpm)	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL	417.0 10.75 L (1000lbf) PU HL (1000lbf	28 f) SO HL (10	.25 000lbf) Drilli	8.2		Mud Additive Amou	nts	
A No. Dep 5 DB (1000lbf) RP 10	th Start (ftKB) 2,303.0 M (rpm) 120	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL 170.0	417.0 10.75	28.	.25 000lbf) Drilli	8.2	155	Mud Additive Amou Description BAROID USA MUD	n <b>ts</b> Consumed C	
A No. Dep 5 DB (1000lbf) RP 10 ill Strings: BH Ru(Bit	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota	Depth End (ffKB) Cur 2,391.0  SPP (psi) Rot HL 170.0  ITY Drop	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100	28 f) SO HL (10 90 FA (incl Noz) (in	.25 DOIDF) Drilli Drilli	8.2 ing Torque O	155 Iff Blim Tq	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA	n <b>ts</b> Consumed C	
5 DB (1000lbf) RP 10 Till Strings: BHRulBit RR 12 1/4in, FE	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML	Depth End (ftKB) Cur 2,391.0   SPP (psi)   Rot HL 170.0   Iry Drop	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100	28 f) SO HL (10 90	.25 000lbf) Drilli )	8.2 ing Torque O	155 Iff Blim Tq	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700	nts Consumed 0 1.0	88
A No. 5  DB (1000lbf) RP  10  Till Strings: BH  RulBit RR 12 1/4in, FE  n (ft) Mex (	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Stri 3.000 Sr	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL 170.0 Iny Drop A284 Ing Components nith FDSS+2 , B	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Duil TF	28. f) SO HL (10 90 FA (incl Noz) (ir 0.75 Collar, Rean	.25 000lbf) Orilli ) n* ROP (ft/he) 6.8 ner - 3 Pt,	8.2 ing Torque O Nozzles (/32") 18/1	155 ff Btm Tq	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA	nts Consumed 0	88
A No. 5  DB (1000lbf) RP  10  Till Strings: BH  RulBit RR 12 1/4in, FE  n (ft) Mex (	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Stri 3.000 Sr	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL 170.0 Iny Drop A284 Ing Components nith FDSS+2 , B	417.0 10.75 (1000lbf) РU HL (1000lbf) 94 100	28. f) SO HL (10 90 FA (incl Noz) (ir 0.75 Collar, Rean	.25 000lbf) Orilli ) n* ROP (ft/he) 6.8 ner - 3 Pt,	8.2 ing Torque O Nozzles (/32") 18/1	155 ff Btm Tq	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA	nts Consumed 0 1.0	88
A No. 5  DB (1000lbf) RP  10  rill Strings: BH  RuiBit  RR 12 1/4in, FE  1(t) Max (2425.00 8	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Stri 8.000 Sr Sr ters: 34.0ft	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL 170.0 ITY Drop A284 IADC Bit 4284 Ing Components nith FDSS+2 , B nock Sub, Drill Co	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull  Bit Sub, NMDC, Drill Collar, Drilling Jars - Hy	A (incl Noz) (incl Noz	.25 DOUBH) Drilling PROP (ft/high 6.8 mer - 3 Pt, ill Collar, E	8.2 Ing Torque O  Nozzles (/32") 18/1: Drill Collar, 2 Drill Pipe	155 Iff Btm Tq  8/18  XO Sub,	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA QUICK FOAM	1.0 1.0 1.0	88 20
A No. 5 DB (1000lbf) RP 10  iii Strings: BH RulBit RR 12 1/4in, FE (ff) Max (2425.00 E  iilling Paramet A No. Dep	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Stri 8.000 Sr Sr ters: 34.0ft	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL 170.0 ITY Drop A284 IADC Bit 4284 Ing Components nith FDSS+2 , B nock Sub, Drill Co	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Duil TF	A (incl Noz) (incl Noz	.25 DOUBH) Drilling PROP (fulled) 6.8 mer - 3 Pt, ill Collar, E	8.2 Ing Torque O  Nozzles (/32") 18/1: Drill Collar, 2 Drill Pipe	155 ff Btm Tq	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA	1.0	88 20
A No. 5 DB (1000lbf) RP 10  iii Strings: BH Ru/Bit RR 12 1/4in, FE 0 (ff) Max (2425.00 E  iilling Paramet A No. Dep 6 DB (1000lbf) RPI	th Start (RKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Stri 6.000 Sr Schers: 34.0ft th Start (RKB) 2,391.0 M (rpm)	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL 170.0 Iny Drop IADC Bit 4284 Ing Components mith FDSS+2 , B nock Sub, Drill Co KB Depth End (ftKB) Cun 2,425.0	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull ITF	28. f) SO HL (10 90  FA (incl Noz) (ir 0.75  Collar, Rean ydraulic, Dri  s) Cum Drill 5.0 7) SO HL (100	.25 	8.2 Ing Torque O Nozzies (/32") 18/1 Drill Collar, 3 Drill Pipe  ROP (ft/hr) 6.8	155 iff Btm Tq  8/18  XO Sub,	Mud Additive Amou  Description  BAROID USA MUD ENG LIVING ALLOWANCE  BAROID USA BARACOR 700  BARIOD USA MUD CHECK  BAROID USA QUICK FOAM  BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA	1.0 1.0 1.0	88 20 11
A No. 5 DB (1000lbf) RP 10  III Strings: BI- Ru Bit R 12 1/4in, FE 0 (t) Max (2425.00 & 8  IIIing Paramet A No. Dep 6 DB (1000lbf) RPI 10	th Start (RKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , MI DD (in) Str 3,000 Sr Sch ters: 34.0ft th Start (RKB) 2,391.0	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL 170.0 Iny Drop IADC Bit 4284 ing Components nith FDSS+2 , B nock Sub, Drill Co KB	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull TF  Bit Sub, NMDC, Drill Collar, Drilling Jars - Hy  n Depth (ftKB) Drill Time (hr 34.0 5.00	28. f) SO HL (10 90  FA (incl Noz) (ir 0.75  Collar, Rean ydraulic, Dri  s) Cum Drill 5.0	.25 	8.2 Ing Torque O Nozzles (732") 18/1 Drill Collar, 2 Drill Pipe ROP (ft/hr) 6.8	155 iff Btm Tq  8/18  XO Sub,  low Rate (gpm) 155	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA QUICK FOAM BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA FUMARIC ACID	1.0 1.0 1.0 2.0 4.0	86 20 11 22
A No. 5 DB (1000lbf) RP 10  iii Strings: BH RulBit RR 12 1/4in, FE 0(ft) Max (2425.00 E  iilling Paramet A No. Dep 6 DB (1000lbf) RPI 10  elibores	th Start (RKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Stri 6.000 Sr Schers: 34.0ft th Start (RKB) 2,391.0 M (rpm)	Depth End (ftKB) Cur 2,391.0 SPP (psi) Rot HL 170.0 ITY Drop L4284 Ing Components mith FDSS+2 , B nock Sub, Drill Co KB Depth End (ftKB) Cun 2,425.0 SPP (psi) Rot HL 300.0	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull ITF	28. f) SO HL (10 90  FA (incl Noz) (ir 0.75  Collar, Rean ydraulic, Dri  s) Cum Drill 5.0 ) SO HL (10 90	.25 	8.2 Ing Torque O Nozzles (732") 18/1 Drill Collar, 2 Drill Pipe ROP (ft/hr) 6.8	155 iff Btm Tq  8/18  XO Sub,  low Rate (gpm) 155 iff Btm Tq	Mud Additive Amou  Description  BAROID USA MUD ENG LIVING ALLOWANCE  BAROID USA BARACOR 700  BARIOD USA MUD CHECK  BAROID USA QUICK FOAM  BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA	1.0 1.0 2.0	88 20 11 22 25
A No. 5 DB (1000lbf) RP 10  III Strings: BI- Ru Bit R1 12 1/4in, FE 2425.00  IIIIng Paramet A No. Dep 6 DB (1000lbf) RPI 10  ellbores  ain Hole	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Str 8.000 Sr ters: 34.0ft th Start (ftKB) 2,391.0 M (rpm) 115 Wellbore No	Depth End (ftKB) Cur 2,391.0  SPP (psi) Rot HL 170.0  TY Drop  AZEM IADC Bit AZEM IADC	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull TF	28. f) SO HL (10 90  FA (incl Noz) (ir 0.75  Collar, Rean ydraulic, Dri  5.0  SO HL (10 90	.25 	8.2 Ing Torque O  Nozzies (/32") 18/1  Drill Collar, 2  Drill Pipe  ROP (ft/hr) 6.8 Ing Torque O	155 iff Btm Tq  8/18  XO Sub,  low Rate (gpm) 155	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA QUICK FOAM BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA FUMARIC ACID BAROID USA REGULAR BARITE BAROID USA	1.0 1.0 1.0 2.0 4.0	20 11 22 25
A No. 5 DB (1000lbf) RP 10  Till Strings: BI- RulBit RulBit R1 12 1/4in, FE D (ft) Max ( 2425.00 E  Tilling Paramet A No. 5 DB (1000lbf) RPI 10  Tellibores  The property of t	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Str 8.000 Sr ters: 34.0ft th Start (ftKB) 2,391.0 M (rpm) 115 Wellbore No	Depth End (ftKB) Cur 2,391.0  SPP (psi) Rot HL 170.0  TY Drop  AZEM IADC Bit AZEM IADC	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull TF	28. f) SO HL (10 90  FA (incl Noz) (ir 0.75  Collar, Rean ydraulic, Dril 5.(	.25 	8.2 Ing Torque O  Nozzies (/32") 18/1  Drill Collar, 2  Drill Pipe  ROP (ft/hr) F 6.8 Ing Torque O  KO MD (ft/KB)	155 iff Btm Tq  8/18  XO Sub,  low Rate (gpm) 155 iff Btm Tq	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA QUICK FOAM BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA FUMARIC ACID BAROID USA REGULAR BARITE BAROID USA SODA ASH	1.0 1.0 1.0 2.0 4.0 10.0	20 11 22 25
ANO. 5 OB (1000lbf) 10 rill Strings: BH Ru(Bit RR   12 1/4in, FE 0425.00  rilling Paramet A No. 6 OB (1000lbf) 10 relibores ain Hole rectional Survection NGLE SHOT	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Str 8.000 Sr ters: 34.0ft th Start (ftKB) 2,391.0 M (rpm) 115 Wellbore No	Depth End (ftKB) Cur 2,391.0  SPP (psi) Rot HL 170.0  TY Drop  AZEM IADC Bit AZEM IADC	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull TF	28. f) SO HL (10 90  FA (incl Noz) (ir 0.75  Collar, Rean ydraulic, Dri  5.0  SO HL (10 90  90.00	.25 Drilli Drilli Drilli ROP (ft/het) 6.8 mer - 3 Pt, ill Collar, E I Time (het int int int int int int int int int in	8.2 Ing Torque O  Nozzies (/32") 18/1  Drill Collar, 2  Orill Pipe  ROP (ft/hr) F 6.8 Ing Torque O  KO MD (ftKB)	155 iff Btm Tq  8/18  XO Sub,  low Rate (gpm) 155 iff Btm Tq	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA QUICK FOAM BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA FUMARIC ACID BAROID USA REGULAR BARITE BAROID USA	1.0 1.0 1.0 2.0 4.0 5.0	3 88 20 11 22 25 1
5 OB (1000lbf) RP 10 rill Strings: BH RulBit RR 12 1/4in, FE n (ft) Max (2425.00 E  rilling Paramet IA No. Dep 6 OB (1000lbf) RPI 10 rectional Surveription NGLE SHOT urvey Data	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , MI DD (in) Stri B.000 Sr Sr Sr Str Str Str Wellbore No	Depth End (ftKB) Cur 2,391.0  SPP (psi) 170.0  ITY Drop  L4284  Ing Components  mith FDSS+2 , Brock Sub, Drill Co  KB  2,425.0  SPP (psi) Rot HL  300.0  Rot HL	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull TF  Bit Sub, NMDC, Drill Collar, Drilling Jars - Hy  In Depth (fiKB) Drill Time (hr 34.0 5.00 L (1000lbf) PU HL (1000lbf 95 100  VS Dir (*)	28. f) SO HL (10 90  FA (incl Noz) (ir 0.75  Collar, Rean ydraulic, Dri  5.0  SO HL (10 90  90.00	.25 Doolbf) Drilli  7 ROP (ft/hit) 6.8  mer - 3 Pt, ill Collar, E  1 Time (ht/lnt i  00 00lbf) Drilli  rvey Compan atterson C	8.2 Ing Torque O  Nozzies (/32") 18/1  Drill Collar, 3  Drill Pipe  ROP (ft/hr) F 6.8 Ing Torque O  KO MD (ftKB)	155 iff Btm Tq  8/18  XO Sub,  low Rate (gpm) 155 iff Btm Tq  300.0	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA QUICK FOAM BAROID USA BAROID USA BAROID USA BAROID USA FUMARIC ACID BAROID USA REGULAR BARITE BAROID USA SODA ASH BAROID USA BAROID USA BAROID USA REGULAR BARITE BAROID USA SODA ASH BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA	1.0 1.0 1.0 2.0 4.0 10.0	88 20 11 22 25 1 1 7 1 ,20 1 1 ,74
ANO. 5 OB (1000lbf) 10 rill Strings: BH Ru(Bit RR   12 1/4in, FE 0425.00  rilling Paramet A No. 6 OB (1000lbf) 10 relibores ain Hole rectional Survection NGLE SHOT	th Start (ftKB) 2,303.0 M (rpm) 120 IA #6, Rota DSS+2 , ML DD (in) Str 8.000 Sr ters: 34.0ft th Start (ftKB) 2,391.0 M (rpm) 115 Wellbore No	Depth End (ftKB) Cur 2,391.0  SPP (psi) 170.0  ITY Drop  L4284  Ing Components  mith FDSS+2 , Brock Sub, Drill Co  KB  2,425.0  SPP (psi) Rot HL  300.0  Rot HL	417.0 10.75 L (1000lbf) PU HL (1000lbf) 94 100  Dull TF  Bit Sub, NMDC, Drill Collar, Drilling Jars - Hy  In Depth (fiKB) Drill Time (hr 34.0 5.00 L (1000lbf) PU HL (1000lbf 95 100  VS Dir (*)	28. f) SO HL (10 90  FA (incl Noz) (ir 0.75  Collar, Rean ydraulic, Dri  5.0  SO HL (10 90  90.00	.25 Doolbf) Drilli  7 ROP (ft/hit) 6.8  mer - 3 Pt, ill Collar, E  1 Time (ht/lnt i  00 00lbf) Drilli  rvey Compan atterson C	8.2 Ing Torque O  Nozzies (/32") 18/1  Drill Collar, 2  Orill Pipe  ROP (ft/hr) F 6.8 Ing Torque O  KO MD (ftKB)	155 iff Btm Tq  8/18  XO Sub,  low Rate (gpm) 155 iff Btm Tq  300.0	Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA BARACOR 700 BARIOD USA MUD CHECK BAROID USA QUICK FOAM BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA FUMARIC ACID BAROID USA REGULAR BARITE BAROID USA SODA ASH BAROID USA BAROID USA REGULAR BARITE	1.0 1.0 1.0 2.0 4.0 10.0 15.0	3 88 20 11 22 25 1 7,

lalisman Energy Canada - Daily Drilling Report

Well Name: FORTUNA MIDDLE N NTAIN #21-16

Da. 1

11/13/2002, Report: 17.0, DFS: 17.00

Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** Survey Data MD (ftKB) TVD (ftKB) NS (ft) EW (ft) -1.91 Azm (°) VS (ft) DLS (\*/100ft) 1,806.00 1.70 1,805.80 344.00 22.42 -1.91 0.17 2,363.00 3.00 319.00 2,362.33 41.36 -13.75 -13.75 0.29

Formation Pick Groups: Drilling Sam							
Formation Picks Group							
Drilling Sample							
Name	Top (ftKB)						
Mancos	2,323.0						
Star Point	2,012.0						
Blackhawk	1,025.0						
Castlegate 95							
Price River	470.0						

Page 2/2

 Surface Casing, 1,063.7ftKB

 Casing Run Date Max OD (in) Grade 11/2/2002
 Wt (lbs/ft) 48.00

 11/2/2002
 13 3/8
 H-40
 48.00

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Top (ftKB)

1,700.0

1,467.0

Vell Name: FORTUNA MIDDLE N NTAIN #21-16 Da 11/14/2002, Report: 18.0, DFS: 18.00

Job Type: Drilling - original

	e 0/28/2002 Summary	2	Release D	ate	KB Elevation (ft 8672	· .	round Elevation (ft) 8655.00	KB-Groun	d Distance (ft) 17.00	AFE No. 37511 Daily Cost Total	Total AFE	
Weather OVER	CAST		Road Condition Hole Condition Good						Daily Mud Cost	) (	ive Cost To Date	
@0600 Operation DRLG	ns at Report 0, 2710'Kl ns This Report & SS SU ns Next Report	B DRILLII ort Period RVEY 12			25'KB TO 265	7'KB WITH /	AERATED FLUI	D.		Depth Start (ftKB) 2,425.0 Depth Progress (ftKB 232.0	) Drilling Tir	,657.0
			HOLE	FOR DEV	IATION.				· · · · · · · · · · · · · · · · · · ·	Ops Superviso	i	
Time L	.og e End Time	I Dur (ben)	Code	· · · · · · · · · · · · · · · · · · ·	Activity		1	Comment		Arnie Hamarsne	Contact	ainoor
00:00	09:30	9.50	02	Drilling	-		DRILLING 12 1 TO 2497'KB US WEIGHT ON B	1/4" HOLE FR SING AERAT BIT 10K / RPM	ED FLUID / 1 115.	Mel Knezevich, Rod Cuthill, Dril Mark Moennich	Drilling Foren ling Foreman Drilling Sup't	nan
09:30	10:00	0.50	10	Rig Surv	еу		DEVIATION SU SHOT @ 2455 DEG			Roger Bromley, Bill Hedglin, Ge		
10:00	17:00	7.00	02	Drilling			DRILLING 12 1 TO 2591'KB US COAL @ 2508'	SING AERAT	ED FLUID.	Rigs: Bill Marti Rig Supervisor John Day, Tool		
17:00	17:45	0.75	10	Rig Surv	еу		DEVIATION SU 2.75 DEG INCL	_	550'KB /	Rigs: Pattersor		
17:45	19:45	2.00								Jesse Blanchard, Drilling Manager  1, IDECO, MM-550 Pump Number   Pump Rating (hp)   Rod Diameter (in)		
19:45	20:15	0.50	10	Rig Surv	ey		SINGLE SHOT 3.0 DEG INCLI		2580'KB /	<del> </del>	550.0   roke (in)   V	2.5197 //Stk (bbl/stk)
20:15	00:00	3.75	02	Drilling			DRILLING 12 1 TO 2657'KB US			5 2, IDECO, MM-	15.00	0.105
Bit Ru Bit	2 1/4in, Fl Max	DSS+2 ,	ML4284 String Con	nponents	Bit Sub, NMD	C, Drill Colla	nd Noz) (in <sup>2</sup> ROP (ft/r ).75 9.9 ar, Reamer - 3 P	18/ t, Drill Collar,	18/18 XO Sub,	Pump Number Pump 2	Rating (hp) Rod 550.0	Diameter (in) 2.5197 //Stk (bbl/stk) 0.105
Wellbo	res		Shock S	Sub, Drill	Collar, Drilling	Jars - Hydra	nulic, Drill Collar,	Drill Pipe		P (psi) Slow	···	in) Eff (%)
Main H		Wellbor	e Name			VS Dir (*)	0.00	KO MD (ftKB)	300.0	170.0 N BOPs	0   5	50 90
Description	onal Sur	veys: SIN	IGLE SI	ЮТ			Survey Comp Patterson	•		Type Annular Prevent	Nom (in)	
Survey					Security and security of the s		Fatterson	CIEW		Mud Additive A		
MD (f 2,4 2,5	55.00 50.00	Incl (*) 2.0 2.7	)0 75	331.00 325.00	TVD (ftKB) 2,454.24 2,549.16	NS (ft) 47.33 50.65	-11.66	VS (ft) -9.55 -11.66	DLS (*/100ft) 1.09 0.83	Description BAROID USA M ENG LIVING ALLOWANCE	Consumed IUD 1.0	Daily Cost (\$)
2,5	80.00	3.0	00	332.00	2,579.12	51.93	-12.44	-12.44	1.44	BARIOD USA M CHECK	UD 1.0	200
										BAROID USA EZ-MUD	2.0	93
										BAROID USA FUMARIC ACID		192
										BAROID USA BARA DEFOAM BAROID USA	4.0 6.0	458 480
						1 <b>286</b>	· - ~ -	n/Er		BARACAT BAROID USA	42.0	1,164
						-	RECE	IVEL	•	DIAMONIAM	0	.,

NOV 2 2 2002

**DIVISION OF** OIL GAS AND MINING

Report	Printed:	11/18/2002

Formation Pick Groups: Drilling Sam...

PHOSPHATE

Formation Picks Group Drilling Sample

Blackhawk

Castlegate

l alisman Energy Canada - Daily Drilling Report Page 2/2
Well Name: FORTUNA MIDDLE N NTAIN #21-16 Da 11/14/2002, Report: 18:0, DFS: 18:00 Da 11/14/2002, Report: 18.0, DFS: 18.00 Job Type: Drilling - original KB-Ground Distance (ft) Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) Top (ftKB) 10/28/2002 8655.00 8672.00 17.00 Price River Daily Summary Surface Casing, 1,063.7ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft) 11/2/2002 | 13 3/8 | H-40 48.00 SANFIDENTIAL

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Talisman Energy Canada - Daily Drilling Report

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Well Name: FORTUNA MIDDLE N )NTAIN #21-16

Job Type: Drilling - original

/ 11/15/2002, Report: 19.0, DFS: 19.00

Rig Release Date Spud Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** Weather Road Condition Hole Condition COOL Icey Good

Operations at Report Time @0600hrs, 2775'KB, LOGGING OPEN HOLE.

Operations This Report Period

DRLG 12 1/4" HOLE F/ 2675'KB TO 2775'KB (TD) INTERMIDIATE. WIPER TRIP / WAIT ON LOGGERS /

HOIST BIT.

Wellbores

Operations Next Report Period

LOGGING / WIPER TRIP / RIH & CMT 9 5/8" CSG

Wellbore Name

Time Lo	og				
	t Date End Time Dur (hrs) Code		Activity	Comment	
00:00	08:45	8.75	02	Drilling	DRILLING 12 1/4" HOLE FROM 2657'KB TO 2749'KB, USING 1500 CFM AIR & 155 GPM FLUID. DRILL BREAKS @ 2692 TO 2699 / 2705 TO 2714 & 2718 TO 2722'KB. SAMPLE RETURNS SHOWED COAL. INCREASE IN WATER @ 2662'KB.
08:45	09:15	0.50	10	Rig Survey	DEVIATION SURVEY WITH SIN GLE SHOT@ 2709'KB / 2.75 DEG INCLINATION. AZM 341
09:15	11:30	2.25	02	Drilling	DRILLING 12 1/4" HOLE FROM 2749'KB TO 2775'KB (TD) INTERMIDATE HOLE.
11:30	14:30	3.00	06	Tripping	TRIP OUT 12 1/4" BIT. LAYDOWN 3-POINT REAMER, SHOCK SUB & 8" MONEL DRILL COLLAR.
14:30	17:15	2.75	06	Tripping	MAKE UP 12 1/4" BIT AND RUN IN HOLE 3-8" DC, 6-6" DC, DRILLING JARS, 5-6" DC & DRILL PIPE TO SURFACE. HOLE CONDITION GOOD, APP 2' OF FILL
17:15	23:00	5.75	05	CIRCULATE	CIRCULATE & CONDITION HOLE FOR LOGGING. WAIT ON LOGGERS.
23:00	00:00	1.00	06	Tripping	TRIP OUT OF HOLE TO LOG. HOLE CONDITION GOOD.

90.00 300.0 Main Hole Directional Surveys: SINGLE SHOT Survey Company Description SINGLE SHOT Patterson Crew Survey Data MD (ftKB) TVD (ftKB) NS (ft) VS (ft) DLS (\*/100ft) 2,709.00 2.75 341.00 2,707.96 57.83 -15.03 -15.03 0.40

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KO MD (ftKB)

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AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
2,657.0	2,775.0
Depth Progress (ftKB)	Drilling Time (hrs)
118.0	11.50

#### **Ops Supervisors**

Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Rod Cuthill, Drilling Foreman Mark Moennich, Drilling Sup't Roger Bromley, Tool Pusher Bill Hedglin, Geologist

Rigs: Bill Martin Jr., 3 Ria Supervisor John Day, Tool Pusher

Rigs: Patterson U.T.I, 104

Jesse Blanchard, Drilling Manager

1, IDECO,	MM-550	
Pump Number	Pump Rating (hp)	Rod Diameter (in)
11	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	0.105

#### 2, IDECO, MM-550 Pump Number Pump Rating (hp) |Rod Diameter (in) 550.0 2.5197 Liner Size (in) Stroke (in) V/Stk (bbl/stk) 15.00 0.105

Nom Sz

P(wkg) (psi)

#### **BOPs**

Туре

١	Annular Preventers		13 5	/8	1,500.0
	Mud Additive Amou	ınts			
Ì	Description	Cor	sumed	Da	ily Cost (\$)
	BAROID USA MUD ENG LIVING		1.0		35
	ALLOWANCE	1			
	BARIOD USA MUD CHECK		1.0		200
	BAROID USA EZ-MUD		1.0		46
	BAROID USA FUMARIC ACID		4.0		256
	BAROID USA BARACAT		4.0		320
	BAROID USA SODA ASH		8.0		59
	BAROID USA		96.0		2,661

#### Formation Pick Groups: Drilling Sam. Formation Picks Group

DIAMONIAM PHOSPHATE

Name	Top (ftKB)
Star Point	2,700.0
Blackhawk	1,700.0
Castlegate	1,467.0
Price River	831.0

Talisman Energy Canada - Daily Drilling Report Page 2/2
Well Name: FORTUNA MIDDLE N INTAIN #21-16 Da 11/15/2002, Report: 19.0, DES: 19.00

Job Type: Drilling - original

| Spud Date | Rig Release Date | KB Elevation (ft) | Ground Elevation (ft) | 10/28/2002 | 8672.00 | 8655.00 | 17.00 | Surface Casing (1083/10KB | Casing Run Date | Max OD (in) Grade | 11/2/2002 | 13 3/8 | H-40 | 48.00 | H-40 | 48.00 |

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Report Printed St41/18/2002

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3.50

Well Name: FORTUNA MIDDLE N JNTAIN #21-16

Job Type: Drilling - original

Total AFE Amt (\$) 37511 ost Total Cum. Cost To Date lud Cost Mud Additive Cost To Da Start (ftKB) Depth End (ftKB) 2,775.0 2,831.0 Drilling Time (hrs)

Hamarsnes, Drilling Engineer (nezevich, Drilling Foreman Cuthill, Drilling Foreman Moennich, Drilling Sup't r Bromley, Tool Pusher edglin, Geologist

Bill Martin Jr., 3 Day, Tool Pusher

Patterson U.T.I, 104 Blanchard, Drilling Manager

ECO, MM-550 lumber Pump Rating (hp) Rod Diameter (in) 550.0 2.5197

Mud Additive Amou	ınts	
Description	Consumed	Daily Cost (\$)
BAROID USA MUD ENG LIVING ALLOWANCE	1.0	35
BAROID USA BARACOR 700	1.0	883
BARIOD USA MUD CHECK	1.0	200
BAROID USA EZ-MUD	1.0	46
BAROID USA BARACAT	4.0	320
BAROID USA SODA ASH	7.0	52
BAROID USA DIAMONIAM DHOSDHATE	35.0	970

For Dr

Name	Top (ftKB)
Star Point	2,700.0
Blackhawk	1,700.0

ner Size (in)	Stroke (i	n) \	//Stk (bbl/stk	3
5		.00	0.105	
ump Che	ecks			
		Strokes/m	!	
P (psi) 450.0	Slow Spd No	(strokes/m	in) Eff (9	6) 90
		!	<i>,</i> 0	91
IDECO,	MM-550 Pump Ratin	a (bp) i Pad	Diameter /i-	• • • • • • • • • • • • • • • • • • • •
2	550.0		2.5197	'',
ner Size (in)	Stroke (i	n) V	/Stk (bbi/stk	)
5	15	.00	0.105	
OPs				
7	уре	Nom (in)		(nei
nnular Pr		13 !		
ud Addit	ive Amou	ints		
Descri	ption	Consumed		
AROID U NG LIVIN		1.0	i i	35
LLOWAN	-	İ		
AROID U	SA	1.0		883
ARACOR				
ARIOD U	SA MUD	1.0	:	200
HECK				
AROID U	SA	1.0		46
Z-MUD				
AROID U ARACAT	SA	4.0	;	320
AROID U	SA	7.0		52
ODA ASH		0		JZ
AROID U	SA	35.0		970
IAMONIA				
HOSPHA	TE			
ormation	Pick Gro	ups: Drii	lling San	n
rmation Pick	s Group			
rilling San	nple Name		Ton /64/0	
ar Point	Marrie		Top (ftKE 2.70	
ackhawk		İ	1.70	
			-,,,,	
		Printed:	11/18/2	Ñ

Spud Da	e 0/28/2002	1 -	Release	Date	KB Eleva	tion (ft) 8672.00	Ground Eleva	ation (ft) 55.00	KB-Gro	und Distance (ft) 17.00	AFE No. 37511
	Summary										Daily Cost Total
Weather				F	Road Condition		Hoi	e Condition	1		
CLEAF				1	WET		Go	ood			Daily Mud Cost
	ns at Report		NI LING	12 1	4" HOLE						Depth Start (ftKB)
_	ns This Repo		CILLING	12 1/	4 HOLE					**** · · · · · · · · · · · · · · · · ·	2,775.0
			RIH & D	RILL /	AHEAD F/ 277	75'KB TO 283	1'KB				Depth Progress (ftKB)
1 '	ns Next Rep										56.0
DRILL	& SURVI	EY FROM	# 2831'I	KB							Ops Supervisors
Time L											
	e End Time			Trin	Acti	vity	TRIP	UT TO I	Comment		Arnie Hamarsnes
00:00	00:30 16:30	0.50 16.00			ping eline Logs			UT TO L	.UG. ILUMBER	CED	Mel Knezevich, D
00.30	10.30	10.00	1.,	VVIII	eline Logs					SURFACE CSG	Rod Cuthill, Drillin
							@ 1080			70. W 710E 000	INIAIR MOEITINCH, L
							LOG OF	PEN HO	LE FROM	2772'KB TO	Roger Bromley, T
							1080'KE				Bill Hedglin, Geol
	İ	-								-CNL-GR-BHC. FROM MISRUN	Rigs: Bill Martin
		1	I	į			#1	- Ан П,	REPEATI	-KOW WISKON	Rig Supervisor
		!	:				RUN #3	- FMI			John Day, Tool P
									OOL WAS		Rigs: Patterson
										E TOOL USED	Rig Supervisor
	į						ON FIRE	ST 2 RU	N5		Jesse Blanchard,
			:				;				1, IDECO, MM-55
16:30	20:30	4.00	06	Trip	ping					OWS AND RIH:	Pump Number Pump R
		1								NEL DC, 2-8"	1 55
			i							EAMER, 1-8" C, DRILLING	Liner Size (in) Strok
									4.5 DRILL		5
	ļ			· 							Pump Checks
20:30	00:00	3.50	02	Drill	ing				4" HOLE (		D (nei) Plant Pa
							2831'KB		D FROM A	2775'KB TO	P (psi) Slow Sp 450.0 No
	1	L					2001110	,. 			
	rings: B	HA #7, R	OTARY								2, IDECO, MM-55 Pump Number Pump Ri
Bit Rul Bit 5 12	2 1/4in, G	T-19 60	200031	ļ.	ADC Bit Dull	TF	A (incl Noz) (in² 1.33	10.6		) 4/24/24	2 55
Len (ft)		OD (in)	String Co	mponer	nts		1.33	10.0	۷.	1/24/24	Liner Size (in) Strok
3054		8.000			18 , Bit Sub, I	NMDC, Drill C	ollar, Reame	er - 3 Pt,	Drill Colla	r, XO Sub,	5
			Shock	Sub, l	Drill Collar, Dr	illing Jars - Hy	draulic, Drill	l Collar,	Drill Pipe		BOPs
Drilling	ı Parame	tore: 56	OffKR								DOLA
BHA No.				End (ftl	(B) Cum Depth (f	KB) Drill Time (hr	s)   Cum Drill 1	Time (hr int	ROP (ft/hr)	Flow Rate (gpm)	Туре
7		2,775.0		831.0		3.50	3.50		16.0	155	Annular Preventer
WOB (10		M (rpm)	SPP		Rot HL (1000lbf)			Olbf) Drill	ing Torque	Off Btm Tq	<b>Mud Additive Am</b>
10	,	100	4	50.0	94	99	94				Description BAROID USA MU
Wellbo	res						,				ENG LIVING
Main H		Wellbor	e Name			VS Dir (*)	90.00		KO MD (ftKI	300.0	ALLOWANCE
							90.00			300.0	BAROID USA
Directi	onal Sur	veys: SIN	IGLE S	HOT							BARACOR 700
Description	n E SHOT							rey Compar Iterson C	•	į	BARIOD USA MU
SINGL	_ 01/01						1 4	ileison C	71 C W		CHECK
											BAROID USA
											EZ-MUD
											BAROID USA
											BARACAT
											BAROID USA
										ł	SODA ASH

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NOV 2 2 2002

**DIVISION OF** OIL, GAS AND MINING Talisman Energy Ganada - Daily Drilling Report Page 2/2
Well Name: FORTUNA MIDDLE N NTAIN #21-16 Da 11/16/2002, Report: 20.0, DFS: 20.00

The state of the s

Job Type: Drilling coriginal

Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) Name Top (ftKB) 10/28/2002 8672.00 8655.00 17.00 Castlegate 1,467.0 Daily Summary Price River 831.0 Surface Casing, 1,063.7ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft) 11/2/2002 13 3/8 H-40

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DIVISION OF OIL, GAS AND MINING

Page 1/2
LE NUTAIN #21-16

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Page 1/2
11/17/2002, Report: 21.0, DFS: 21.00 Well Name: FORTUNA MIDDLE N INTAIN #21-16 Job Type: Drilling - original

1	te 0/28/200 Summai	02	Releas	e Date	KB Elevation (ft) 8672.00		round Elevati 8655		KB-Grou	und Distance (ft) 17.00	AFE No. 375 Daily Cost Tot		Total AFE	
Weather				Road Cor WET	dition		Hole	Condition			Daily Mud Cos		Mud Additi	ve Cost To Dat
	ns at Repo	rt Time	<del>-</del> -	YYL-1		···	Guc							
		94'KB, DR port Period	ILLING	3 12 1/4" HOL	<u>E</u>						Depth Start (ft)		Depth End	(ftKB) ,054.0
		•	557'KB	TO 3054'KB							Depth Progres	s (ftKB)	Drilling Tin	•
,		port Period								W. W	223	3.0		22.75
		FROM 30	)54 KB	<b>,</b>						***************************************	Ops Supe			
Time i		ne Dur (hrs)	Code	<del>-   -   -   -   -   -   -   -   -   -  </del>	Activity		1		Comment		Arnie Ham		ontact Drilling End	ineer
00:00	00:45	0.75	02	Drilling	· ·		4			MIDATE HOLE	Mel Kneze		•	•
							FROM 28 AERATE			USING	Rod Cuthill	_		
00:45	01:15	0.50	10	Rig Survey						@ 2803'KB, 2.0	Mark Moer Roger Bror			
00.10		DEG INCLINATION, AZM 340							•	Bill Hedglin				
01:15	11:30	10.25	02	Drilling	-					MIDATE HOLE		· •		
	İ						1500 CFM			(BUSING 1 FLUID	Rigs: Bill I		., 3	
11:30	12:15	12:15 0.75 10 Rig Survey SINGLE SHOT SURVEY @ 2926'K						0 2926'KB, 2.0	John Day,	Tool Pusi	her			
	. <u>1</u>	DEG INCLINATION, AZM 339						339	Rigs: Patte	erson U.1	Г.І, 104			
12:15	5 00:00 11.75 02 Drilling DRILLING 12 1/4" INTERMIDATE HO FROM 2966'KB TO 3054'KB USING													
							AERATE			CD USING			many Man	agei
Mud C	hocke:	2 050 084	R 11/		<b>.</b>	-					1, IDECO, Pump Number		g (hp) Rod	Diameter (in)
Туре	ileuns.	Date	(D, 11)	Depth (ftKB)	T(fl) (°F)	Densit	y (lb/gal)	Vis (s/qt)		Plas Vis (cp)	1	550.	0	2.5197
Water Yield Poi		11/17/2003 gel 10 sec (		2,950.0 gel 10 min (cp)	58.0 Filtrate (mL/30m	in\ LITUO	8.4 Filt (mL/30mir	a Eilter Cake	n (in)	MBT (lb/bbl)	Liner Size (in) 5	Stroke (i	in) V 5.00	/Stk (bbl/stk) 0.105
ribia r oi	к (ф)	ger to sec (	47)	ger to min (cp)	Fill ate (Inc/30iii	1111	riit (IIIL) Jiiri	Tiller Care	z (III)	WIBT (ID/DDI)		<del>i</del>		0.103
Lime (lb/t	obl)	рН		Pm (mL/mL)	Pf (mL/mL)	Calciu	m (mg/L)	Potassium	(mg/L)	Polymer (lb/gal)	Pump Che		Strokes	
Chlorides	(mg/L)	Sand (%)		Solids (%)	Percent Oil (%)	Percer	nt Water (%)	LG Solids	(%)	Electric Stab (V)	P (psi) 450.0	Slow Spd No	(strokes/mi	n) Eff (%) 8 9
		<u> </u>		i i		<u> </u>	100.0	1			2, IDECO,			<u> </u>
		3HA #7, R	OTAR								Pump Number		g (hp)  Rod	Diameter (in)
Bit Rui Bit 5 1		GT-18 , 60	00093	IADC Bit I	Juli 		nci Noz) (in² R 1.33	OP (ft/hr, No 10.6		) 1/24/24	2	550.0	0	2.5197
Len (ft)	Ma	x OD (in)	String (	omponents			1				Liner Size (in) 5	Stroke (i	n) V/	Stk (bbl/stk) 0.105
3054	.00	8.000			t Sub, NMDC, E llar, Drilling Jan					r, XO Sub,	BOPs		.00	<u> </u>
D=:II:=	. D	eters: 22	1		,	,					DUPS		Nom S	)
BHA No.					Depth (ftKB) Drill Ti	ime (hrs)	Cum Drill Tir	ne (hr int R	OP (ft/hr)	Flow Rate (gpm)	Annular Pre	pe eventers	(in)	P(wkg) (ps 5/8 1,500.0
7	00160	2,831.0		3,054.0	279.0 2 (1000lbf) PU HL (1	22.75	26.25		9.8	250	Mud Additi			
WOB (10 1:		(rpm) 100	- 1			00	95	or) Drilling	g i orque	Off Btm Tq	Descrip			Daily Cost (\$)
Wellbo			i		· · · · · · · · · · · · · · · · · · ·	1				·	BAROID US		1.0	35
		Wellbo	e Name		VS	Dir (*)		K	O MD (ftKB		ALLOWAN			
Main H	••				i	90	.00			300.0	BARIOD US		1.0	200
Directi Description		rveys: Sil	NGLE :	SHOT			Survey	Company			CHECK	-		
	 E SHOT							erson Cre	ew		BAROID US EZ-MUD	SA	2.0	93
Survey		[m=1 /8]		A (8)	AD (AVD)	10 (4)	1		10.0	510.0	BAROID US	SA	5.0	37
MD (f	(KB)	Incl (*) 2.0	00	Azm (*) T	VD (ftKB) 1 2,801.88	VS (ft) 61.51	EW (ft)	5.33	VS (ft) -16.33	DLS (*/100ft) 0.80	SODA ASH		5.0	3,
	26.00	2.0	- 1	326.00	2,924.81	65.30	1	3.26	-18.26		BAROID US		35.0	970
											PHOSPHA1			
											Formation	Pick Gro	ups: Drill	ing Sam
						· ·					Formation Picks		P	

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DIVISION OF OIL, GAS AND MINING Top (ftKB)

2,700.0

1,700.0

1,467.0

831.0

**Drilling Sample** 

Star Point

Blackhawk

Castlegate

Price River

Wall Name: FORTUNA MIDDLE N INTAIN #21-16 Da 11/17/2002, Report: 21.0, DFS: 21.00

Job Type: Drilling - original

| Spud Date | Rig Release Date | KB Elevation (ft) | Cround Elevation (ft) | KB-Ground Distance (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Cround Elevation (ft) | Croun

| Sput Date | Rig Release Date | KB Elevation (ft) | Ground Elevation (ft) | 10/28/2002 | 8672.00 | 8655.00 | 17.00 | Surface Casing 1,063.7ft/KB |
| Daily Summary | Casing Run Date Max OD (in) Grade | 11/2/2002 | 13 3/8 | H-40 | 48.00 |

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OPVISION OF AND MINING

Report Printed: 11/18/2002

FORM APPROVED **ED STATES** Form 3160-5 Budget Bureau No. 1004-0135 DEPARTMENT OF THE INTERIOR (June 1990) Expires: March 31, 1993 **BUREAU OF LAND MANAGEMENT** Lease Designation and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS UTU-77263 Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT--" for such proposals N/A If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE N/A 1. Type of Well Well Name and No. Oil X Gas Middle Mountain #21-16 2. Name of Operator API Well No. Fortuna (US), Inc. 43-015-30426 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area Suite 3400, 888 3rd Street SW, Calgary, Alberta T2P5C5 403-237-1163 Wildcat Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 1309' FSL, 834' FEL SE/4 SE/4, Section 21, T16S, R6E, SLB&M Emery County, Utah CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Change of Name Change of Plans X Subsequent Report

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Location Layout as-built drawing

Recompletion

Plugging Back

Casing Repair

Altering Casing

Attached is the requested stamped as-built drawing for the Middle Mountain #21-16 well site.

The drawing reflects the constructed dimensions of the pad and pit that were constructed smaller in every regard than proposed. Additionally, the drawing reflects the location of the log deck, slash pile, topsoil and subsoil stockpiles.

Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY

Final Abandonment Notice

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**New Construction** 

Water Shut-Off

Non-Routine Fracturing

Conversion to Injection

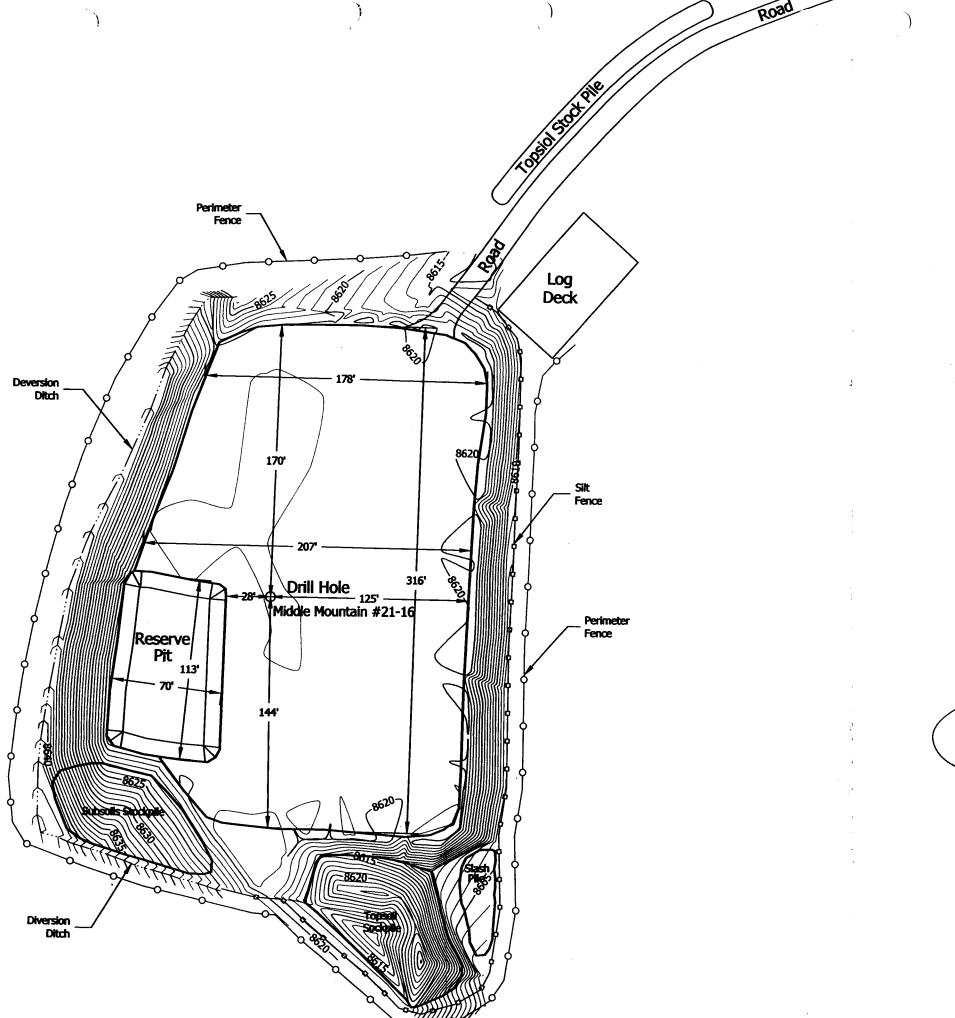
Dispose Water

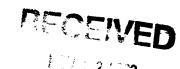
NOV 2 2 2002

DIVISION OF OIL, GAS AND MINING

FILE COPY

14. I hereby certify that the foregoing i	s true and correct		
Signed Don Hamilton Don H	amilian Title Agent for Fortuna US	D	nate November 18, 2002
(This space for Federal or State office u	ise)		
Approved by Conditions of approval, if any:	Title	Date	





E OIL GAS AND MINING



TALON RESOURCES, INC.
195 North, 100 West
P.O. Box 1230
Huntington, Utah 84528
Phone (435)637-8781
Fax (435)687-5311

REVISIONS					
DATE:	BY:				

FORTUNA (US), INC.
MIDDLE MOUNTAIN #21-16
AS-BUILT LOCATION
SECTION 21, T16S, R6E, S.L.B.&M.

DRAWN BY:	CHECKED BY:
J. STANSFIELD	LWJ / AJS
DRAWING:	DATE:
A-1	11/05/02
A-1	SCALE:
	1" = 60'
JOB NUMBER:	SHEET
809	1 OF 1

<u>LEGEND</u>	
SECTION LINE	
1/4 SECTION LINE	
10 ACRE LINE	
SLO BEARING	(N00°00'E - 5280.00')
SPS BEARING	[N00'00'00'E - 5280.00]

		N	
,09	30,	0,	,09
		SCALE	



P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310

Cell: 435-650-1886 Fax: 435-687-5311 Email: talon@etv.net

CONFIDENTIAL

November 25, 2002

Mr. Eric Jones
Petroleum Engineer
Bureau of Land Management
82 East Dogwood
Moab, Utah 84532

RE: Sundry Notice (Weekly Drilling Reports)—Fortuna (US), Inc.

Middle Mountain #21-16— 1,309' FSL, 834' FEL

Section 21, T16S, R6E, SLB&M, Emery County, Utah

43-015-30446

Dear Mr. Jones:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the *Sundry Notices* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed application. Please feel free to contact myself or Mr. Mel Knezevich of Fortuna (US), Inc. at 1-780-402-1296 if you have any questions or need additional information.

Sincerely,

Don Hamilton

Don Hamilton Agent for Fortuna (US), Inc.

**Enclosures** 

cc: Mr. Mike Kaminski, BLM—Price Field Office Mr. Carter Reed, USDA Forest Service—Price SO Mr. Tom Lloyd, USDA Forest Service—Ferron DO Mrs. Diana Mason, Division of Oil, Gas and Mining

Mr. Arne Hamarsnes, Fortuna (US), Inc. Mr. Mark Moenich, Fortuna (US), Inc.

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DIV. OF OIL, GAS & MINING

Form 3160-5 (June 1990)

#### **D STATES** DEPARTM ✓ OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

# Lease Designation and Serial No. UTU-77263

SUNDRY	NOTICES	AND REP	ORTS	ON	WELLS
--------	---------	---------	------	----	-------

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir

Use "APPLICATION FO	6. If Indian, Allottee or Tribe Name N/A	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A
1. Type of Well Oil X Gas  2. Name of Operator Fortuna (US), Inc.	CONTIBILITIAL	8. Well Name and No.  Middle Mountain #21-16  9. API Well No. 43-015-30426
<ol> <li>Address and Telephone No.         Suite 3400, 888 3rd Street SW     </li> <li>Location of Well (Footage, Sec.,T., R., M., or Surventage)</li> <li>1309' FSL, 834' FEL</li> </ol>	vey Description) 7, Calgary, Alberta T2P5C5 403-2.	
SE/4 SE/4, Section 21, T16S,	R6E, SLB&M	Emery County, Utah
12. CHECK APPROPRIATE BOX(s	) TO INDICATE NATURE OF NOTICE	E, REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TY	YPE OF ACTION
Notice of Intent  Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Weekly Drilling Reports	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water
12 Describe Browned on Consulated Operations ( Closely		maludina assimustad data affatastina anno manada data affatastina

Attached are the weekly drilling reports for the Middle Mountain #21-16 well

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DEED The borne

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is tr			Date	November 25, 2002
(This space for Federal or State office use)				
Approved by Conditions of approval, if any:	_ Title	_Date		

<sup>13.</sup> Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Transman Energy Canada - Daily Dri g Report Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Page 1/1 Job Type: Drilling - original Date: 11/18/2002, Report: 22.0, DFS: Spud Date Rig Release Date KB Elevation (ft) 10/28/2002 Ground Elevation (ft) Ground Distance (ft) 8672.00 AFE No. **Daily Summary** 8655.00 Total AFE Amt (\$) 17.00 37511 Weather Daily Cost Total Road Condition CLEAR Cum. Cost To Date Hole Condition WET Operations at Report Time LOST CIRCULATION Daily Mud Cost DRILLING 12 1/4" HOLE WITH AERATED FLUID Mud Additive Cost To Date Operations This Report Period Depth Start (ftKB) DRILL 12 1/4" HOLE FROM 3054'KB TO 3292'KB / DRILL BREAK F/ 3261 - 3276'KB, UNABLE TO MAINTAIN Depth End (ftKB) CIRC / CHANGE OVER TO MIST & SOAP 3,054.0 3,292.0 Depth Progress (ftKB) Drilling Time (hrs) Operations Next Report Period 238.0 REGAIN CIRC / DRILL AHEAD 23.00 Ops Supervisors Time Log
Start Date End Time Dur (hrs) Code Arnie Hamarsnes, Drilling Engineer 05:45 Activity 00:00 5.75 02 Drilling Comme Mel Knezevich, Drilling Foreman DRILLING 12 1/4" HOLE FROM 3054'KB TO 3093'KB USING 2250 CFM AIR & 5 Rod Cuthill, Drilling Foreman BBL/MIN FLUID. Mark Moennich, Drilling Sup't 05:45 06:15 0.50 10 Rig Survey SINGLE SHOT SURVEY @ 3053'KB, 1.8 Roger Bromley, Tool Pusher Bill Hedglin, Geologist DEG INCLINATION, AZM 346 06:15 15:00 8.75 02 Drilling DRILLING 12 1/4" HOLE FROM 3093'KB Rigs: Bill Martin Jr., 3 TO 3187'KB, USING AERATED FLUID 15:00 15:30 0.50 10 Rig Survey SINGLE SHOT SERVEY @ 3147 KB, 1 John Day, Tool Pusher 3/4 DEG INCLINATION, AZM 337 15:30 00:00 8.50 02 Drilling DRILLING 12 1/4" HOLE FROM 3187'KB Rigs: Patterson U.T.I, 104 TO 3292'KB. DRILLING BREAK FROM Jesse Blanchard, Drilling Manager 3261'KB TO 3276'KB. Drill Strings: BHA #7, ROTARY DROP 1, IDECO, MM-550 IADC Bit Dull Pump Rating (hp) Rod Diameter (in) 12 1/4in, GT-18 , 6000931 TFA (incl Noz) (in<sup>2</sup> ROP (ft/hr/Nozzles (/32") 550.0 Len (ft) 2.5197 Max OD (in) 1.33 10.5 String Components 3292.00 Liner Size (in) Stroke (in) Hughes GT-18, Bit Sub, NMDC, Drill Collar, Reamer - 3 Pt, Drill Collar, XO Sub, 8.000 V/Stk (bbl/stk) Shock Sub, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe 15.00 0.105 2, IDECO, MM-550 Drilling Parameters: 238.0ftKB Pump Number Pump Rating (hp) Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Rod Diameter (in) 550.0 Cum Drill Time (hr Int ROP (ft/hr) 3,054.0 2.5197 3,292.0 Flow Rate (gpm) 517.0 WOB (1000lbf) 23.00 49.25 Liner Size (in) Stroke (in) RPM (rpm) SPP (psi) 10.3 V/Stk (bbl/stk) Rot HL (1000lbf) 250 18 PU HL (1000lbf) 100 SO HL (1000lbf) 500.0 Off Btm Ta 0.105 95 100 95 Wellbores **BOPs** Wellbore Name Nom Sz Main Hole VS Dir (\*) Туре KO MD (ftKB) P(wkg) (psi) Annular Preventers 90.00 13 5/8 Directional Surveys: SINGLE SHOT 1,500.0 300.0 **Mud Additive Amounts** SINGLE SHOT Description Survey Company Consumed Daily Cost (\$) BAROID USA MUD Survey Data Patterson Crew 1.0 35 **ENG LIVING** MD (ftKB) Azm (\* ALLOWANCE TVD (ftKB) NS (ft) 3,053.00 EW (ft) 1.80 346.00 VS (ft) DLS (\*/100ft) 3,051.74 69.08 BAROID USA 3,147.00 -19.981.75 337.00 -19.98 1.0 3,145.69 0.54 883 BARACOR 700 71.83 -20.90 -20.90 0.30 BARIOD USA MUD 1.0 200 CHECK BAROID USA 4.0 320 BARACAT BAROID USA 12.0 89 SODA ASH BAROID USA 19.0 527 DIAMONIAM PHOSPHATE Formation Pick Groups: Drilling Sam... Formation Picks Group Drilling Sample Top (ftKB) Mancos 3,073.0 Star Point 2,700.0 Blackhawk 1,700.0 Castlegate 1,467.0 Price River 831.0 Surface Casing, 1,080.0ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft) 11/2/2002 13 3/8 H-40 48.00 Report Printed: 11/19/2002

Talisman Energy Canada - Daily Drilling Report

Page 1/2

Well Name: FORTUNA MIDDLE M. NTAIN #21-16 11/19/2002, Report: 23.0, DFS: 23.00

Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) AFE No Total AFE Amt (\$) 10/28/2002 8672.00 8655.00 37511 17.00 **Daily Summary** Daily Cost Total Cum. Cost To Date Road Condition Weathe Hole Condition **CLEAR** Daily Mud Cost Mud Additive Cost To Date WET LOST CIRCULATION Operations at Repo @0600hrs-MAKE UP FISHING TOOLS / RIH Depth Start (ftKB) Depth End (ftKB) 3,292.0 3,413.0 Operations This Report Period Depth Progress (ftKB) DRILL 12 1/4" HOLE FROM 3292'KB TO 3413'KB, BHA FAILED / HOIST STRING / TWIST OFF PIN BELOW Drilling Time (hrs) 3-POINT ROLLER REAMER / WAIT ON FISHER MAN. 121.0 7.00 Operations Next Report Perior Ops Supervisors RETREIVE FISH / DRILL AHEAD. Contact Time Log
Start Date | End Time | Dur (hrs) | Code Arnie Hamarsnes, Drilling Engineer Activity Rod Cuthill, Drilling Foreman Comment 00:00 04:00 4.00 05 Circulate DEPTH 3293'KB, UNABLE TO OBTAIN Mel Knezevich, Drilling Foreman CIRCULATION. STOP DRILLING, Mark Moennich, Drilling Sup't INCREASE AIR, DECREASE FLUID Roger Bromley, Tool Pusher RATE & WORK DRILL STRING. START Bill Hedglin, Geologist INJECTING SOAP @ 5 GAL/HR AND THEN INCREASED TO 8 GAL/HR. Rigs: Bill Martin Jr., 3 WORK STRING UNTILL CIRCULATION, BUILD VOLUME IN MUD SYSTEM. John Day, Tool Pusher 04:00 05:30 1.50 02 Drilling DRILL AHEAD FROM 3293'KB TO Rigs: Patterson U.T.I, 104 3310'KB, UNABLE TO UNLOAD HOLE WITH AIR & SOAP MIST, RAN OUT OF Jesse Blanchard, Drilling Manager WATER 1, IDECO, MM-550 05:30 06:30 1.00 05 Circulate PUMP OUT SUMP, CIRCULATE WITH Pump Number Pump Rating (hp) Rod Diameter (in) AIR & SOAP & ATTEMPT TO REGAIN 550.0 2.5197 CIRCULATION. Stroke (in) Liner Size (in) V/Stk (bbl/stk) 06:30 07:00 0.50 06 Tripping TRIP OUT 900' TO 2470'KB. HOLE 15.00 0.105 CONDITION "OK", NO TIGHT SPOTS. **Pump Checks** 12:15 07:00 5.25 00 **Undefined Status** WAIT ON WATER TRUCKS / PUMP Strokes **OUT WATER FROM RESERVE PIT** Slow Spd (strokes/min) Eff (%) LINER / FILL WATER STORAGE 470.0 No 29 90 TANKS AND RELINE RESERVE PIT. 2. IDECO. MM-550 12:45 12:15 0.50 06 Tripping TRIP IN HOLE. HOLE CONDITION Pump Number Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 GOOD 12:45 13:00 0.25 05 Circulate ATTEMPT TO UNLOAD HOLE @ Liner Size (in) Stroke (in) V/Stk (bbl/stk) 3310'KB. USING 2250 CFM AIR & 3 5 15.00 0.105 BBL/ MIN WATER WITH 10 GAL/HR **BOPs** SOAP INJECTION Nom Sz (in) Туре 13:00 15:00 2.00 02 Drilling P(wkg) (psi) DRILLING BLIND FROM 3310'KB TO Annular Preventers 13 5/8 1.500.0 3342'KB (NO CIRCULATION) 15:00 15:30 0.50 10 Rig Survey SINGLE SHOT SURVEY @ 3302'KB / 2 **Mud Additive Amounts** DEG INCLINATION, AZM 347 Consumed Daily Cost (\$) Description BAROID USA MUD 1.0 35 15:30 19:00 3.50 02 Drilling DRILLING 12 1/4" HOLE FROM 3342'KB **ENG LIVING** TO 3413'KB USING 2240 CFM AIR, 10 ALLOWANCE GAL/HR SOAP INJECTION & 150 GPM FLUID FOR CIRCULATION. BARIOD USA MUD 200 1.0 BIT STOPPED DRILLING, RIG TO TRIP CHECK BAROID USA 1.0 80 BARACAT 22:00 19:00 3.00 06 Tripping HOIST BHA F/ 3413'KB. FOUND **BAROID USA** 2.0 229 3-POINT ROLLER REAMER TWISTED OFF PIN. LEAVING BIT, BIT SUB, BARA DEFOAM MONEL DRILL COLLAR & 2 -8" DRILL **BAROID USA** 15.0 1,695 COLLARS IN HOLE. QUICK FOAM BAROID USA 18.0 133 22:00 00:00 2.00 06 LAYDOWN ROLLER REAMER / RUN IN Tripping SODA ASH HOLE DRILL COLLARS / INSTALL AIR HEAD RUBBER, WAIT ON DRILL **BAROID USA** 83.0 237 QUICK GEL COLAR INSPECTOR & FISHERMAN. BAROID USA 118.0 3,271 DIAMONIAM **PHOSPHATE** Formation Pick Groups: Drilling Sam...

Report Printed: 11/20/2002

Formation Picks Group Drilling Sample Talisman Energy Canada - Daily Drillin Report Page 2/2
TUNA MIDDLE M NTAIN #21-16 Dat. 11/19/2002; Report: 23.0; DFS: 23.00
g - original

Well Name: FORTUNA MIDDLE M Job Type: Drilling - original

Spud Date Rig Release 10/28/2002								55.00		ound Distance (ft) 17.00		
	Summary				0072.00					1	· · · — — — — — —	
			400000	20.00								
Mud Checks	: 3,310.0tt	(B, 11/	19/2002 Depth (ftK	12:00	(fl) (°F)		Densit	y (lb/gal)	Vis (s/q	0 1	Plas Vis (cp)	
ype Date		2 42.00	3,310.0		1(11) (11)		8.4			27		
Yield Point (cp)	Vater Base 11/19/2002 12:0		gel 10 min		iltrate (mi	1 /30min)	HTHP	Filt (mL/30mir	Filter Ca	ake (in)	MBT (lb/bbl)	
riela Politi (cp)	ger to sec (	φ,	get to time	. (4)			,,,,	THE THE (III DOCUMENT INC.				
_ime (lb/bbl)	рН		Pm (mL/m	L) P	ሃ (mL/mL)	)	Calciu	m (mg/L)	Potassi	um (mg/L)	Polymer (lb/gal)	
Chlorides (mg/L)	8.0 Sand (%)		Solids (%)	) P	Percent Oi	il (%)	Percer	nt Water (%)	LG Soli	ds (%)	Electric Stab (V)	
Drill Strings:	- BHA #7 B	OTAR	Y DROP		ete la car		<del></del>	98.6				
Bit RufBit	. DI IA #1, 1	· ·	IAI	DC Bit Dull			TFA (in	nci Noz) (in² R	OP (ft/hr			
	, GT-18 , 6	00093	1					1.33	11.3	24/24/24		
(61)												
	Max OD (in)	String	Component	s					2 04	Deill Colle	r VO Sub	
3413.00	8.000	Hugh	es GT-1	8 . Bit Su	ub, NMI , Drilling	DC, Dril g Jars -	II Colla Hydra	ar, Reamer aulic, Drill (	- 3 Pt, Collar,	Drill Colla Drill Pipe	r, XO Sub,	
3413.00	8.000 meters: 12	Hugh Shoc	es GT-1 k Sub, D B	8 , Bit Su Prill Collar	, Drilling	g Jars -	Hydra	aulic, Drill (	Collar,	Drill Pipe		
3413.00 Drilling Para	8.000	Hugh Shoc	es GT-1 k Sub, D B	8 , Bit Su Prill Collar	, Drilling	g Jars - Drill Time	Hydra (hrs)	Cum Drill Tir	collar,	ROP (ft/hr)	Flow Rate (gpm)	
	8.000 meters: 12	Hugh Shoc 1.0ftK KB) Dep	es GT-1 k Sub, D B th End (ftKE 3,413.0	8 , Bit Su Prill Collar B) Cum Dep 638	, Drilling oth (ftKB) 8.0	g Jars - Drill Time 7.0	Hydra (hrs)	Cum Drill Tir 56.25	Collar, ne (hr int	ROP (ft/hr)	Flow Rate (gpm)	
3413.00  Drilling Para  BHA No.  7	8.000 meters: 12 Depth Start (ft	Hugh Shoc 1.0ftK KB) Dep	es GT-1 k Sub, D B th End (ftKE 3,413.0 P (psi)	8 , Bit Su Prill Collar B) Cum Dep 638 Rot HL (100	, Drilling oth (ftKB) 8.0 001bf) Pt	Drill Time 7.0 U HL (100	Hydra (hrs) 000000000000000000000000000000000000	Cum Drill Tir 56.25	Collar, ne (hr int	ROP (ft/hr)	Flow Rate (gpm)	
3413.00 Drilling Para 3HA No. 7	8.000 meters: 12 Depth Start (ft 3,292.0	Hugh Shoc 1.0ftK KB) Dep	es GT-1 k Sub, D B th End (ftKE 3,413.0	8 , Bit Su Prill Collar B) Cum Dep 638	, Drilling oth (ftKB) 8.0 001bf) Pt	g Jars - Drill Time 7.0	Hydra (hrs) 000000000000000000000000000000000000	Cum Drill Tir 56.25	Collar, ne (hr int	ROP (ft/hr)	Flow Rate (gpm)	
3413.00  Drilling Para BHA No. 7  WOB (1000lbf) 25	8.000  meters: 12  Depth Start (ft 3,292.0   RPM (rpm)	Hugh Shoc 1.0ftK KB) Dep	es GT-1 k Sub, D B th End (ftKE 3,413.0 P (psi)	8 , Bit Su Prill Collar B) Cum Dep 638 Rot HL (100	, Drilling oth (ftKB) 8.0 001bf) Pt	Drill Time 7.0 U HL (100	Hydra (hrs) 00	Cum Drill Tir 56.25	Collar, ne (hr int	ROP (ft/hr)	Flow Rate (gpm)	
3413.00  Drilling Para BHA No. 7  WOB (1000lbf)	8.000  meters: 12 Depth Start (ft 3,292.0  RPM (rpm) 100	Hugh Shoc 1.0ftK KB) Dep	es GT-1 k Sub, D B th End (ftKE 3,413.0 P (psi) 470.0	8 , Bit Su Prill Collar B) Cum Dep 638 Rot HL (100	, Drilling oth (ftKB) 8.0 001bf) Pt	Drill Time 7.0 U HL (100	(hrs) 00 00lbf)	Cum Drill Tir 56.25	Collar, ne (hr int	ROP (ft/hr)	Flow Rate (gpm) 150 Off Btm Tq	
3413.00  Drilling Para BHA No. 7  WOB (1000lbf) 25	8.000  meters: 12 Depth Start (ft 3,292.0  RPM (rpm) 100	Hugh Shoc 1.0ftK KB) Dep	es GT-1 k Sub, D B th End (ftKE 3,413.0 P (psi) 470.0	8 , Bit Su Prill Collar B) Cum Dep 638 Rot HL (100	, Drilling oth (ftKB) 8.0 001bf) Pt	Drill Time 7.0 U HL (100 109	(hrs) OO OOIbf)	Cum Drill Tir 56.25	Collar, ne (hr int	ROP (ft/hr) 17.3 ling Torque	Flow Rate (gpm) 150 Off 8tm Tq	
3413.00  Drilling Para BHA No. 7  WOB (1000lbf) 25  Wellbores  Main Hole	8.000  meters: 12  Depth Start (ft 3,292.0  RPM (rpm) 100  Wellbo	Hugh Shoc 1.0ftK KB) Dep	B H End (ftKE 3,413.0 P (psi) 470.0	8 , Bit Su Prill Collar B) Cum Dep 638 Rot HL (100	, Drilling oth (ftKB) 8.0 001bf) Pt	Drill Time 7.0 U HL (100 109	(hrs) OO OOIbf)	Cum Drill Tir 56.25 SO HL (1000H 101	ne (hr Int	Drill Pipe  ROP (ft/hr)  17.3  ling Torque  KO MD (ft/K)	Flow Rate (gpm) 150 Off Btm Tq	
3413.00  Drilling Para BHA No. 7  WOB (1000lbf) 25  Wellbores  Main Hole  Directional S	8.000  meters: 12  Depth Start (ft 3,292.0  RPM (rpm) 100  Wellbo	Hugh Shoc 1.0ftK KB) Dep	B H End (ftKE 3,413.0 P (psi) 470.0	8 , Bit Su Prill Collar B) Cum Dep 638 Rot HL (100	, Drilling oth (ftKB) 8.0 001bf) Pt	Drill Time 7.0 U HL (100 109	(hrs) OO OOIbf)	Cum Drill Tir 56.25 SO HL (1000ll 101	of) Dril	ROP (ft/hr) 17.3 ling Torque  KO MD (ftK)	Flow Rate (gpm) 150 Off Btm Tq	
3413.00  Drilling Para BHA No. 7  WOB (1000ibf) 25  Wellbores  Main Hole  Directional S  Description	8.000  meters: 12 Depth Start (ft 3,292.0 RPM (rpm) 100  Wellbo	Hugh Shoc 1.0ftK KB) Dep	B H End (ftKE 3,413.0 P (psi) 470.0	8 , Bit Su Prill Collar B) Cum Dep 638 Rot HL (100	, Drilling oth (ftKB) 8.0 001bf) Pt	Drill Time 7.0 U HL (100 109	(hrs) OO OOIbf)	Cum Drill Tir 56.25 SO HL (1000ll 101	ne (hr Int	ROP (ft/hr) 17.3 ling Torque  KO MD (ftK)	Flow Rate (gpm) 150 Off Btm Tq	
3413.00  Drilling Para BHA No. 7  WOB (1000lbf) 25  Wellbores	8.000  meters: 12 Depth Start (ft 3,292.0 RPM (rpm) 100  Wellbo	Hugh Shoc 1.0ftK KB) Dep	es GT-1 k Sub, D B th End (ftKS 3,413.0 P (psi) 470.0	8 , Bit Su prill Collar B) Cum Dep 638 Rot HL (100 105	, Drilling	Drill Time 7.0 U HL (100 109 VS Di	(hrs) 00 (olbf) r (*)	Cum Drill Tir 56.25 SO HL (1000ll 101	ne (hrint of) Dril y Compa	Drill Pipe  ROP (ft/hr)  17.3 ling Torque  KO MD (ftK)	Flow Rate (gpm) 150 Off Btm Tq	
3413.00  Drilling Para BHA No. 7  WOB (1000lbf) 25  Wellbores  Main Hole  Directional S Description SINGLE SHO	8.000  meters: 12  Depth Start (# 3,292.0  RPM (rpm) 100  Wellbo	Hugh Shoc 1.0ftK KB) Dep	B H End (ftKE 3,413.0 P (psi) 470.0	8 , Bit Su prill Collar B) Cum Dep 633 Rot HL (100 105	, Drilling oth (ftKB) 8.0 001bf) Pt	Drill Time 7.0 U HL (100 109	(hrs) 00 (olbf) r (*)	Cum Drill Tir 56.25 SO HL (10001) 101  D.000  Surve Patte	ne (hrint of) Dril y Compa	ROP (ft/hr) 17.3 ling Torque  KO MD (ftK)	Flow Rate (gpm) 150 Off Btm Tq  300.6	

Top (ftKB) Mancos 3,073.0 2,700.0 Star Point 1,700.0 Blackhawk 1,467.0 Castlegate 831.0 Price River

 
 Surface Casing, 1,080.0ftKB

 Casing Run Date
 Max OD (in) Grade

 11/2/2002
 13 3/8
 H-40
 Wt (ibs/ft) 48.00 Talisman Energy Canada - Daily Drillir Report Page 1/2
Well Name: FORTUNA MIDDLE MUNTAIN #21-16 Datum 11/20/2002, Report: 24.0, DFS: 24.00

Report Printed: 11/21/2002

Job Type: Drilling - original

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Spud Da	ate 10/28/2002	∤Riç	Release	Date	KB Elevation (	ft) 2.00	Gro	und Élevatio 8655			Distance (ft) 17.00	AFE No.	4	Total AF	E Amt (\$)
	Summary	<u>i</u>			007	2.00		0000	.00		17.00	3751 Daily Cost Total		Cum Co	st To Date
Weather				Road Co	ondition			Hole (	Condition		<u> </u>				St 10 Date
				WET					T CIRCULA	TION		Daily Mud Cost		Mud Add	itive Cost To Date
	ons at Report T ons This Report											Depth Start (ftK	R)	Depth Er	od (ftKB)
	ons Next Repor											3,413	,	Depar Cr	3,413.0
Time	Log											Depth Progress		Drilling T	ime (hrs)
Start Da	te End Time 02:30	Dur (hrs) 2.50	Code		Activity		L		Com			0.0		:	0.00
00.00	02.30	2.50	19	Fishing				ISHERM	COLLAR II IAN	NSPEC	IION &	Ops Supen			
02:30	05:00	2.50	19	Fishing				/AGNA F	LUX INSPI	ECT DR	ILL	Arnie Hama		ntact rilling Fi	ngineer
									FOUND			Rod Cuthill,			
	+ 1								DLLAR PIN D BOXES.	& 2 -5 3	/4" DC	Mel Knezev			
05.00	00.15	3.05	00	T-ii						51 1 A 1 A 11	T11 7 5 (0)	Mark Moenr			
05:00	08:15	3.25	106	Tripping					FISHING I			Roger Brom	-		•
			!								JN IN HOLE	Bill Hedglin,	Geologi	st	
							8	TAG TO	OP OF FISH	l.		Rigs: Bill M	artin Jr.	. 3	
08:15	09:45	1.50	19	Fishing			V	VORK FI	SHING TO	OLS OV	ER FISH.	Rig Supervisor			
							٠.	INABLE 1	TO HOLD F	ISH.		John Day, T	ool Push	ner	
09:45	12:00	2.25	19	Fishing					WITH FIS			Rigs: Patter	son U.T	.l, 104	
			i !						OWN OVE BBAL TO 7		& CHANGE	Rig Supervisor	hand Da	::: \$4-	
12:00	13:30	1.50	10	Fishing								Jesse Blanc		iling Ma	nager
13:30	13.45	0.25		Rig Service	<u></u>			RIG SERV	VITH FISHII	NG BHA	\ <u>.</u>	1, IDECO, N Pump Number F		a (ba). Ba	d Diameter (in)
13:45	14:00	0.25	3	Fishing	~	,			OLE & KEL	LYUP	·	1	550.0	•	2.5197
14:00	14:45	0.75		Fishing					SHING TO		ER FISH.	Liner Size (in)	Stroke (ir	n) .	V/Stk (bbi/stk)
1									TO GET ON	ITO DR	ILL	5		.00	0.105
								OLLAR.				2, IDECO, M	M-550		
14:45	15:45	1.00		Tripping					FISHING			Pump Number F	ump Rating		
15:45	16:30	0.75	19	Fishing					OWN OVER			2	550.0		2.5197
16:30	17:45	1.25	06	Tripping					OLE WITH			Liner Size (in)	Stroke (ir	n) . <b>00</b>	V/Stk (bbi/stk) 0.105
10.50	11.43	1.20	00	Tripping				IAKE UP		FISHIN	3 TOOLS /	<del>                                   </del>	13.	.00	0.105
17:45	19:00	1.25	19	Fishing			ī	ATCH O	NTO FISH /	JAR ON	N FISH	BOPs		Nom	Sz :
	<u> </u>						M	/ITH 40K	· ·•			Тур		(ir	P(wkg) (psi)
19:00	21:00	2.00		Tripping			1		JT OF HOLI			Annular Prev	enters	13	5/8 1,500.0
21:00	00:00	3.00	19	Fishing					OWN FISH			Mud Additiv			
							U	ATDOVVI	N FISH / 10	U% KEC	OVERED.	Descripti BAROID US	on A MILID	Consumed	Daily Cost (\$)
Drill St Bit Ru(Bit	trings: BH/	4 #7, R	OTARY	DROP	Dell		TEA (	Nami (ing) DC	ND /fithe Nonelle	. (/2011)		ENG LIVING		•	
	2 1/4in, GT-	18 . 60	000931		-BT-G-3-2	īw	1.3		OP (ft/hr⊧Nozzle: 11.3	s (132") <b>24/2</b> 4	1/24	ALLOWANC	Ε :		;
Len (ft)	Max Ol	D (in)	String Co	omponents								BARIOD US	4 MUD	1.0	200
3413	.00 8.	000	Hughe	s GT-18 , B	it Sub, NMD	C, Drill	l Collar,	Reamer	- 3 Pt, Drill (	Collar, X	O Sub,	CHECK			! #
			SHOCK	Sub, Driir C	ollar, Drilling	Jars -	Hydraui	IC, Drill C	oliar, Drill P	ipe		BAROID USA BARACAT	4	3.0	240
	g Paramete											BAROID US		10.0	277
BHA No. 7		, Start (π.Κ , 292.0	- 1	413.0	n Depth (ftKB) [ 638.0	orill Time 7.0		um Drill Tim 56.25	e (hriint ROP (fi 17.		ow Rate (gpm) 150	DIAMONIAM		10.0	211
WOB (10		(rpm)	. 1		(1000lbf) PU				) Drilling Tor	1	f Btm Tq	PHOSPHATE			
2	5	100	4	70.0	105	109		101				BAROID USA	¥	16.0	1,834
Wellbo	res											BARA DEFO	AM :		1
Main H	ole	Wellbor	e Name			VS Dir	90.00	, I	KO MI	D (ftKB)	200.0	BAROID USA		18.0	1,350
							90.00				300.0	TRANSPORT		75.0	
Direction Description	onal Surve	ys: SIN	IGLE S	НОТ				Survey	Company			BAROID US/ REGULAR B		75.0	272
	E SHOT							-	rson Crew						· • · · · · · · · · · · · · · · · · · ·
												Formation P		ups: Dri	lling Sam
												Formation Picks C Drilling Samp			
													ame		Top (ftKB)
												Mancos			3,073.0
												Star Point			2,700.0
												Blackhawk			1,700.0
												Castlegate Price River			1,467.0
												LINCE LINE			831.0

Talisman Energy Canada - Daily Drillin Report Page 2/2
Well Name: FORTUNA MIDDLE N. NTAIN #21-16 Da. 11/20/2002, Report: 24.0, DFS: 24.00
Job Type: Drilling - original

Job Type: Drilling - original

d Date 10/28/2002	Rig Release Date	KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft)	Surface Casing, 1,080 Office
ily Summary		0072.00	0000.00	17.00	Surface Casing, 1,080.0ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft
					11/2/2002 13 3/8 H-40 48.0
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Tali-man Energy Canada - Daily Drillin Report

Page 1/2 Well Name: FORTUNA MIDDLE M\_NTAIN #21-16 )a 11/21/2002, Report: 25.0, DFS: 25.00

Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) KB-Ground Distance (ft) Ground Elevation (ft) AFE No Total AFE Amt (\$) 10/28/2002 8655.00 8672.00 17.00 37511 **Daily Summary** Daily Cost Total Cost To Date Road Condition Hole Condition Daily Mud Cost WET Mud Additive Cost To Date LOST CIRCULATION Operations at Report Time @0600hrs-3583'KB ATTEMPT TO REGAIN CIRCULATION Depth Start (ftKB) Depth End (ftKB) Operations This Report Period 3,413.0 3.584.0 DRLG AHEAD FROM 3413'KB TO 3583'KB / LOST CIRCULATION WITH AIR / WORK HOLE CLEAN, Depth Progress (ftKB) Drilling Time (hrs) ATTEMPT TO REGAIN CIRCULATION 171.0 12.25 perations Next Report Period DRLG AHEAD FROM 3583'KB Ops Supervisors Contact Time Log Arnie Hamarsnes, Drilling Engineer Start Date | End Time | Dur (hrs) | Code Activity Comment Mel Knezevich, Drilling Foreman 00:00 02:30 2.50 00 **Undefined Status** WAIT ON & INSPECT BOTTOM HOLE Rod Cuthill, Drilling Foreman DRILL COLLARS. OK NO CRACKS Mark Moennich, Drilling Sup't 02:30 04:15 1.75 06 Tripping MAKE UP BHA AS FOLLOWS & RIH, Roger Bromley, Tool Pusher NEW 12 1/4" BIT, MONEL DRILL Bill Hedglin, Geologist COLLAR, 2-8" DRILL COLLARS, SHOCK SUB, 6-5 3/4" DRILL COLLARS. Rigs: Bill Martin Jr., 3 DRILLING JARS, 6-5 3/4" DRILL Rig Supervisor COLLARS & 4 1/2" DRILL PIPE TO John Day, Tool Pusher SURFACE. Rigs: Patterson U.T.I, 104 04:15 04:30 0.25 10 Rig Survey FILL PIPE / RUN SINGLE SHOT SURVEY, WIRE BROKE 30" FROM Jesse Blanchard, Drilling Manager SURFACE 1, IDECO, MM-550 04:30 07:00 2.50.06 Tripping BLOW OUT KELLY / TRIP OUT TO Pump Number Pump Rating (hp) Rod Diameter (in) RECOVER SURVEY BARREL. SURVEY 550.0 2.5197 **EQUIPMENT "OK"** Liner Size (in) Stroke (in V/Stk (bbl/stk) 07:00 09:00 2.00 06 Tripping MAKE UP BHA / RIH. 15.00 0.105 09:00 09:15 0.25 05 Condition and/or Circulate mud MAKE UP KELLY / FILL PIPE & START 2. IDECO. MM-550 UP AIR ump Number Pump Rating (hp) Rod Diameter (in) 09:15 14:00 4.75 02 Drilling DRILLING 12 1/4" HOLE FROM 3413'KB 550.0 2.5197 TO 3490'KB USING 2240 CFM AIR, 16 Liner Size (in) Stroke (in) V/Stk (bbl/stk) **GAL PER HOUR SOAP INJECTION &** 15.00 0.105 140 GPM FLUID. TOOK 1.5 HOURS TO **BOPs** GET CIRCULATION. Nom Sz 14:15 0.25 07 14:00 Rig Service RIG SERVICE. Type P(wkg) (psi) Annular Preventers 19:15 14:15 5.00 02 13 5/8 1,500.0 Drilling DRILLING 12 1/4" HOLE WITH AREATED FLUID FROM 3490'KB TO Formation Pick Groups: Drilling Sam... 3530'KB. RESERVE PIT FULL, DRILL BLIND FROM 3530'KB TO 3552'KB, Formation Picks Group PUMP RATE @ 12.5 BBL/MIN. **Drilling Sample** Top (ftKB) 19:15 19:45 0.50 10 Rig Survey SINGLE SHOT SURVEY @ 3512'KB, 1.0 Mancos 3,073.0 **DEG INCLINATION, AZM 8** Star Point 2,700.0 22:15 19:45 2.50 02 Drilling DRILLING AHEAD WITH AREATED Blackhawk 1,700.0 FLUID F/ 3552'KB TO 3584'KB. UNABLE Castlegate 1,467.0 TO ESTABLISH CIRCULATION, Price River 831.0 RESERVE PIT LOW. Surface Casing, 1,080.0ftKB Casing Run Date Max OD (in) Grade 22:15 00:00 1.75 05 Circulate PUMP AERATED FLUID USING 2240 CFM AIR WITH 18 GPH SOAP Wt (lbs/ft) 11/2/2002 13 3/8 INJECTION. TRIP OUT FOUR STANDS 48.00 AND TRY TO CIRCULATE, NO GOOD, HOIST ANOTHER 4 STANDS AND ATTEMPT TO GET CIRCULATION @ 2800 Mud Checks: 3,451.0ftKB, 11/21/2002 09:30 Depth (ftKB) Density (lb/gal) Plas Vis (cp) Vis (s/qt) Water Base 3,451.0 11/21/2002 09:30 55.0 8.4 27 Yield Point (cp) gel 10 sec (cp) gel 10 min (cp) Filtrate (mL/30min) HTHP Filt (mL/30min Filter Cake (in) MBT (lb/bbl) Lime (lb/bbl) Pm (mL/mL) Pf (mL/mL) Calcium (mg/L) Potassium (mg/L) Polymer (lb/gal) 8.0 Chlorides (mg/L) Sand (%) Solids (%) Percent Oil (%) Percent Water (%) LG Solids (%) Electric Stab (V) 99.6

Report Printed: 11/22/2002

Talis∽an Energy Canada - Daily Drillin Report Well Name: FORTUNA MIDDLE M. NTAIN #21-16 Dat. 11/21/2002, Report: 25.0, DFS: 25.00 Job Type: Drilling - original Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** Drill Strings: BHA #8, Slick IADC Bit Dull TFA (incl Noz) (in ROP (ft/hi Nozzles (/32") 12 1/4in, GT-28C , ZW19DM 1.80 14.0 Len (ft) Max OD (in) String Components 3544.16 8.000 Hughes GT-28C , Bit Sub, NMDC, Drill Collar, XO Sub, Shock Sub, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe **Drilling Parameters: 171.0ftKB** Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) low Rate (gpm) Cum Drill Time (hr Int ROP (ft/hr) 3,413.0 3,584.0 171.0 12.25 12.25 14.0 150 WOB (1000lbf) RPM (rpm) SPP (psi) Rot HL (1000/bf) SO HL (1000lbf) PU HL (1000fbf) Drilling Torque Off Btm Tq 80 25 500.0 107\_ 110 105 1.0 Wellbores VS Dir (\*) KO MD (ftKB) Main Hole 90.00 300.0 Directional Surveys: SINGLE SHOT Survey Company SINGLE SHOT Patterson Crew Survey Data MD (ftKB) TVD (ftKB) NS (ft) EW (ft) VS (ft) DLS (\*/100ft) 3,380.00 1.50 348.00 3,378.57 78.97 -22.95 -22.95 0.64 3,512.00 1.00 8.00 3,510.54 81.80 -23.15 -23.15 0.50

Report Printed: 11/22/2002

Talisman Energy Canada - Daily Drillin Report Page 1/2
Well Name: FORTUNA MIDDLE M NTAIN #21-16
Job Type: Drilling - original

Report Printed: 11/23/2002

Spud Date	e 0/28/200		g Release	Date K	B Elevation (ft) 8672.00	ļo	Fround Elevat	tion (ft) 5.00	KB-G	round Distance (ft) 17.00	AFE No.	511	Total AF	E Amt (\$)
Daily S	ummai	ry .				L.					Daily Cost To		Cum. Co	st To Date
Weather				Road Cond	ition	· · · · · · -	Hole	Condition	-				•	
CLEAR Operations	s at Repo		<u> </u>	WET			LO	ST CIRC	ULATIO	ON	Daily Mud Co			itive Cost To Da
		10'KB, DI port Period	RILLING	AHEAD							Depth Start (ft 3,58		Depth Er	nd (ffKB) 3,729.0
UNLOA	D HOL	E / BUILD	RESE	RVE / DRLG A	HEAD FROM 3	584'KE	3 TO 3729	KB.			Depth Progres	ss (ftKB)	Drilling T	ime (hrs)
		port Period TO CSG	POINT	/ WIPER TRIE	•						14	5.0		10.75
Time Lo	og										Ops Supe		ontact	
Start Date 00:00	End Tim 12:15	e Dur (hrs) 12.25	Code	Circulate	Activity		CIRCLII	ATC AID	Comment		Arnie Ham	arsnes, l	Drilling Er	
00.00	12.10	12.23		Circulate				RESER'	VE PIT	AND WATER / UNLOAD	Rod Cuthill, Drilling Foreman Mel Knezevich, Drilling Foreman Mark Moennich, Drilling Sup't			man
12:15	12:45	0.50	1	Tripping						UN IN HOLE.	Roger Bro			
12:45	18:45	6.00	02	Drilling						WITH NO 2400 CFM AIR, 5	Bill Hedglir	n, Geolog	jist	
								MIN FLU ON. FRO	JID @ 1	5 GPM SOAP	Rigs: Bill			
10:AE	10:15	0.50	10	Dia Communication							John Day,			
	19:15	0.50 4.75		Rig Survey			DEG INC	LINATIO	ON, AZI		Rig Supervisor			
19.13	00.00	4.73	02	Drilling			i .	ROM 36	73'KB T	TH AERATED O 3729'KB. 2 HRS.	Jesse Blan  1, IDECO, Pump Number	MM-550		
	ecks: 3			2/2002 09:30							1	550		2.5197
Type Water B		Date 11/22/2002		3,584.0	T(fl) (°F) 52.0	Densit	y (lb/gal) 8.4	Vis (s/qt)	27	Plas Vis (cp)	Liner Size (in)	Stroke	(in) :\ 5.00 :	//Stk (bbl/stk) 0.105
Yield Point	(cp)	gel 10 sec (d	<b>(</b> \$	gel 10 min (cp)	Filtrate (mL/30min)	HTHP	Filt (mL/30mi	n Filter Cak	e (in)	MBT (lb/bbl)	2, IDECO,	MM-550		
Lime (lb/bb	ol)	рН		om (mL/mL)	Pf (mL/mL)	Calciu	m (mg/L)	Potassiun	n (mg/L)	Polymer (ib/gal)	Pump Number 2	Pump Ration 550.	+	Diameter (in) 2.5197
Chlorides (r	mg/L)	8.0 Sand (%)		Solids (%)	Percent Oil (%)	:	nt Water (%)	LG Solids	(%)	Electric Stab (V)	Liner Size (in)	Stroke (		//Stk (bbl/stk) 0.105
Drill Stri	inas: B	HA #8, SI	ick		<u> </u>		100.0	1		1	Pump Che	cks	· · · · · · · · · · · · · · · · · · ·	
Bit Rui Bit		ST-28C		IADC Bit Du	II .		ncl Noz) (in² R	. ,	•	•	P (psi)	Slow Spd	Strokes (strokes/m	
Len (ft)	Max	OD (in)	String Co	mponents				13.7		28/28/28	170.0	No		50 90
3698.4	10	8.000	Hughe: Drilling	s GT-28C,Bit Jars - Hydraul	t Sub, NMDC, D lic, Drill Collar, [	Orill Col	lar, XO Su	ıb, Shoc	k Sub, [	Orill Collar,	BOPs		- CNa	<u> </u>
Drilling	Dorom	eters: 145		- Ours - Tryurau	no, Dini Conai, L	71111 F 11			-			ре	Nom (in)	P(wkg) (psi
BHA No.				End (ftKB)   Cum D	epth (ftKB) Drill Time	e (hrs)	Cum Drill Tir	me (hr Int R	OP (ft/hr)	Flow Rate (gpm)	Annular Pre		13	5/8 1,500.0
8 WOB (1000	Nbn Ri	3,584.0 PM (rpm)	SPP		16.0 10.	.75	23.00 O HL (1000lb		13.5 Torque	225 Off Btm Tq	Mud Additi Descrip			Daily Cost (\$)
32 Wellbor		75		00.0 10			105	DI, DIMILI	y roique	1.0	BAROID US ENG LIVING ALLOWANG	G	1.0	
Main Hol		Wellbor	e Name		VS Di		20		(O MD (ftl		BARIOD US		1.0	200
		veys: SIN	ici e e	HOT		90	.00		, , , ,	300.0	CHECK		1.0	200
Description SINGLE		veys: Sin	IGLE 3	пот			, .	Company			BAROID US BARA DEFO	OAM HP		153
Survey C		Incl (°)		zm (*) TVC	(fikb) NS	/ <b>4</b> \	F154.75.		\ (C (A)	DI 2 /2//	BAROID US QUICK FOA		2.0	1,106
3,63	3.00	1.0			(fikb) NS ,631.52	83.89	EW (ft) -22	2.88	VS (ft) -22.8	DLS (*/100ft) 38 0.02	BAROID US		2.0	93
											BAROID US BARACAT	Ā	11.0	880
											BAROID US QUICK FOA	M	22.0	2,487
											BAROID US DIAMONIAN PHOSPHAT	A	140.0	2,016
											Formation I Formation Picks Drilling Sam	Group	ups: Dril	ling Sam

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Well Name: FORTUNA MIDDLE M NTAIN #21-16 Dat 11/22/2002, Report: 26.0, DFS: 26.00
Job Type: Drilling - original

	<u> </u>					
Spud Date	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Name	Top (ftKB)
10/28/2002		8672.00	8655.00	17.00	Mancos	3,073.0
Daily Summary			The state of the s		Star Point	2,700.0
					Blackhawk	1,700.0
					Castlegate	1,467.0
					Price River	831.0

Surface Cas	ing, 1,08	0.0ftKB	
Casing Run Date	Max OD (in)	Grade	Wt (lbs/ft)
11/2/2002	13 3/8	H-40	48.00

Report Printed: 11/23/2002

Report Printed: 11/24/2002

Talisman Energy Canada - Daily Drillir Report Page 1/2
Well Name: FORTUNA MIDDLE NONTAIN #21-16 Da 11/23/2002, Report: 27.0, DFS: 27.00

Job Type: Drilling - original

	Ric	Release [	)ate	KB Elevation (ft)	Ground Elev	ation (4)	Constant Distant	7 (455.)		
28/2002		<i>y</i> 110/0030 L	Jale	8672.00		55.00	Ground Distance (ft) 17.00	AFE No. 37511	Total AFE	Amt (\$)
mmary								Daily Cost Total	Cum. Cos	t To Date
			1	dition			101	Daily Mud Cost	March Addi	tive Coat To Day
			!			OST CIRCULAT	IUN	July Mad Cost	,	7,005.65
		ILLING	12 1/4"HOLE	<u> </u>				Depth Start (ftKB)	Depth En	
		OM 3728	3'KB TO 395	6'KB USING AE	RATED FLUID	WIPER TRIP T	O CHECK DRILL			3,956.0 me (hrs)
& BHA.	DRILL /	AHEAD	WITH LOST	CIRCULATION.		···· cr	O OFFICER BRILL	227.0		17.75
		WIDED	TRIP / LOC					Ops Supervisors		
	OINT /	AAILEK	TRIP / LOG						Contact	
	Dur (hrs)	Code		Activity		Comme	nt			
7:45	7.75	02	Drilling	***************************************	TO 382 USING WATER	9'KB WITH AEF 2250 CFM AIR, & & 12 GPH SO/	RATED FLUID. 250 GPM AP INJECTION.	Rod Cuthill, Drilling Mark Moennich, D Roger Bromley, To	g Foreman rilling Sup'i ool Pusher	
			:							
8:15	0.50	10	Rig Survey		SINGLE	SHOT SURVE	Y @ 3789'KB, 1.0	Rig Supervisor		
							M 33 / RIG			
9:15	1.00	08	Rig Repair		REPAIR	ROTARTY TA	BLE DRIVE	Rigs: Patterson U	J.T.I, 104	
					CHAIN.			Jesse Blanchard, I	Drilling Mar	nager
6:15	7.00	02	Drilling					1, IDECO, MM-550	0	
			:		GET AN	Y STANDPIPE				2.5197
	;							Liner Size (in) Stroke	e (in) V	/Stk (bbl/stk)
	:									0.105
8:00	1.75	06	Tripping		STRING	AND BIT. ALL	"OK", CHANGE	Pump Number Pump Ra 2 550	ting (hp) Rod	Diameter (in) 2.5197
1:00	3.00	06	Tripping							/Stk (bbl/stk) 0.105
					GOOD.				13.00	0.103
0:00	3.00	02	Drilling						Nom :	
										P(wkg) (psi) 5/8 1,500.0
		499 m . st dae								
							EVERTZ	Description	Consumed	Daily Cost (\$)
		<u> </u>			i				1.0	35
T-				T(fl) (°F)	Density (Ib/gal)	Vis (s/at)	Plac Vie (co)	ALLOWANCE		
e 1	1/23/2002	12:00	3,860.0		8.3	26	rias vis (cp)		1.0	200
) ge	i 10 sec (c	o) gel	10 min (cp)	Filtrate (mL/30min)	HTHP Filt (mL/30m	in Filter Cake (in)	MBT (lb/bbl)		40	2 242
рН		Рп	(mL/mL)	Pf (mL/mL)	Calcium (mg/L)	Potassium (mg/L)	Polymer (lb/gal)	QUICK FOAM	4.0	2,212
/L) Sa		Sol	ids (%)	Percent Oil (%)	Percent Water (%)	LG Solids (%)	Electric Stab (V)	BAROID USA DIAMONIAM	7.0	101
as: BH/	48. SII	ck		-,L	<del></del>				10.0	··· - ··· ··- <del>7</del> 4
				ill			′	SODA ASH	10.0	74
			i		1.80	13.3	28/28/28	F		
8.	000	Hughes Drilling J	GT-28C , B ars - Hydrau	it Sub, NMDC, D ilic, Drill Collar, D	rill Collar, XO Su Prill Pipe	ub, Shock Sub,	Drill Collar,	Formation Picks Group Drilling Sample	oups: Drii	ling Sam
ramete	rs: 227.	OftKB	od (BVD) Com F	Seeth (MKD) Dell Time	<b>4</b> 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Top (ftKB) 3,073.0
		3,95	6.0 5					Star Point		2,700.0
RPM	(rpm) 75	SPP (ps		_ '		bf) Drilling Torque	Off Btm Tq	Blackhawk		1,700.0
	,,,	400	1.0	7 122	112	<u> </u>	1.0	Castlegate Price River	:	1,467.0 831.0
	147-116	Name		VS Dir	(*)	KO MD (ft	KB)			031.0
	Wellbore	Hairie								
					90.00		300.0	Surface Casing, 1, Casing Run Date Max OD	080.0ftKB	Wt (lbs/ft)
l Surve		GLE SH	ОТ		90.00	y Company	300.0	Surface Casing, 1, Casing Run Date Max OD 11/2/2002 13 3/8	(in) Grade	Wt (lbs/ft) 48.00
	mmary  at Report 5- 4023  This Report 5- 4023  This Report 6- 4023  This	### A 1	### A ### A	Road Con   WET	Road Condition   WET	Report Time   Report Time   Report Time   Report Time   Report Time   Report Time   Report Time   Report Time   Report Time   Report Time   Report Time   Report Time   Report Period   Repo	Road Condition	Road Condition   Hole Condition   Hole Condition   Hole Condition   LOST CIRCULATION	Read Condition   WET   LOST CIRCULATION	Read Condition   WET   LOST CIRCULATION   Despite to State   Despite (Purp Read)   Des

Talisman Energy Canada - Daily Drillir Report

Well Name: FORTUNA MIDDLE N. NTAIN #21-16 Dav. 11/23/2002, Report: 27.0, DFS: 27.00

Job Type: Drilling - original

Rig Release Date Spud Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** Survey Data MD (ftKB) 3,789.00 TVD (ftKB) Azm (°) 0 33.00 DLS (\*/100ft) Incl (°) NS (ft) EW (ft) VS (ft) 1.00 3,787.50 86.39 -21.97 -21.97 0.29

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Report Printed: 11/24/2002

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Talisman Energy Canada - Daily Drillin Report Well Name: FORTUNA MIDDLE M\_NTAIN #21-16 / 11/24/2002, Report: 28.0, DFS: 28.00 Job Type: Drilling - original Spud Date Rig Release Date KB Elevation (ft) nd Distance (ft) AFF No Total AFE Amt (\$) 10/28/2002 8672.00 8655.00 17.00 37511 **Daily Summary** Daily Cost Total Cum. Cost To Date Weather Road Condition Hole Condition **Daily Mud Cost** Mud Additive Cost To Date LIGHT SNOW WET LOST CIRCULATION Operations at Report Time @0600 hrs- 4391'KB (TD), CIRC & CONDITION HOLE Depth Start (ftKB) Depth End (ftKB) Operations This Report Period 3.956.0 4,265.0 DRLG 12 1/4" HOLE FROM 3956'KB TO 4265'KB USING AERATED FLUID FOR CIRCULATION. Depth Progress (ftKB) Drilling Time (hrs) 309.0 23.25 Operations Next Report Period TD INTERMIDATE #1 / LOG & CSG Ops Supervisors Contact Start Date End Time | Dur (hrs) | Code Arnie Hamarsnes, Drilling Engineer Activity Commen DRILLING 12 1/4" HOLE FROM 3956'KB 00:00 08:45 8.75 02 Drilling Mel Knezevich, Drilling Foreman TO 4046'KB USING 3 COMP, 12 GPH Rod Cuthill, Drilling Foreman SOAP INJECTION & 200 GPM FLUID Mark Moennich, Drilling Sup't HOLE WOULD UNLOAD ONCE EVERY Roger Bromley, Tool Pusher 4 TO 5 HOURS. Bill Hedglin, Geologist 08:45 09:15 0.50 10 Rig Survey SINGLE SHOT SURVEY @ 4006'KB, 1.0 **DEG INCLINATION, DIRECTION 33** Rigs: Bill Martin Jr., 3 AZM John Day, Tool Pusher 09:15 09:30 0.25 07 Rig Service RIG SERVICE. 09:30 00:00 14.50 02 Drilling DRILLING 12 1/4" HOLE FROM 4046'KB Rigs: Patterson U.T.I, 104 WITH 35K WEIGHT & 75 RPM, ROP 14'/HR TO 4065'KB. INCREASED AIR Jesse Blanchard, Drilling Manager TO 3000 CFM & INCREASED PUMP 1, IDECO, MM-550 RATE TO 525GPM, STOP SOAP Pump Number Pump Rating (hp) Rod Diameter (in) INJECTION AND USE BARACAT TO 550.0 2.5197 CLEAN HOLE. ABLE TO MAINTAIN A MORE CONSTENT CIRCULATION Liner Size (in) Stroke (in) V/Stk (bbl/stk) FROM 4065'KB TO 4265'KB. 5 15.00 0.105 2, IDECO, MM-550 Pump Rating (hp) od Diameter (in Mud Checks: 4,108.0ftKB, 11/24/2002 14:00 550.0 2.5197 Depth (ftKB) T(fl) (°F) Density (lb/gal) Vis (s/qt) Plas Vis (cp) DAP 11/24/2002 14:00 4,108.0 84 27 Liner Size (in) V/Stk (bbl/stk) Yield Point (cp) gel 10 sec (cp) gel 10 min (cp) Filtrate (mL/30min) HTHP Filt (mL/30min Filter Cake (in) MBT (lb/bbl) 5 15.00 0.105 **BOPs** Lime (lb/bbl) pH Pm (mL/mL) Pf (mL/mL) Calcium (mg/L) Potassium (mg/L) Polymer (lb/gal) 7.6 Type (in) Chlorides (mg/L) Sand (%) Solids (%) Percent Oil (%) Percent Water (%) LG Solids (%) Electric Stab (V) **Annular Preventers** 13 5/8 1,500.0 500.000 **Mud Additive Amounts** Drill Strings: BHA #8, Slick Description Consumed Daily Cost (\$) Bit Rui Bit IADC Bit Dull TFA (incl Noz) (inz ROP (ft/hr Nozzles (/32") BAROID USA MUD 1.0 35 1 12 1/4in, GT-28C , ZW19DM 1.80 13.3 28/28/28 ENG LIVING Max OD (in) String Components Len (ft) **ALLOWANCE** 4257.75 8.000 Hughes GT-28C, Bit Sub, NMDC, Drill Collar, XO Sub, Shock Sub, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe BAROID USA 1.0 7 SODA ASH Drilling Parameters: 309.0ftKB **BARIOD USA MUD** 1.0 200 BHA No Depth Start (ftKB) Depth End (ftKB) | Cum Depth (ftKB) | Drill Time (hrs) Cum Drill Time (hrl Int ROP (ft/hr) Flow Rate (gpm) CHECK 3,956.0 4,265.0 852.0 23.25 64.00 13.3 525 SPP (psi) **BAROID USA** 1.0 46 WOB (1000lbf) RPM (rpm) Rot HL (1000lbf) SO HL (1000lbf) PU HL (1000lbf) **Drilling Torque** Off Btm Ta **EZ-MUD** 800.0 40 75 120 125 115 1.0 **BAROID USA** 3.0 1,659 Wellbores QUICK FOAM VS Dir (\*) Wellbore Name KO MD (ftKB) Main Hole **BAROID USA** 90.00 300.0 7.0 805 **BARA DEFOAM** Directional Surveys: SINGLE SHOT **BAROID USA** Description 24.0 1,920 Survey Company BARACAT SINGLE SHOT Patterson Crew **BAROID USA** 349.0 5.026 Survey Data DIAMONIAM MD (ftKB) TVD (ftKB) EW (ft VS (ft) DLS (\*/100ft) 4,006.00 1.00 33.00 PHOSPHATE 4.004.47 89.56 -19.91-19.910.00 Formation Pick Groups: Drilling Sam.. Formation Picks Group **Drilling Sample** 

Report Printed: 11/25/2002

Mancos

Star Point

Blackhawk

Castlegate

Top (ftKB)

3,073.0

2,700.0

1,700.0

1,467.0

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Well Name: FORTUNA MIDDLE N. JNTAIN #21-16 Date: 11/24/2002, Report: 28.0, DFS: 28.00
Job Type: Drilling - original

ud Date 10/28/2002	Rig Release Date	KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	Name Price River	Top (ftKB)
nily Summary		0072.00	8033.00	17.00		
					Surface Casing, 1,080.0 Casing Run Date Max OD (in) Gra	ide Wt (lbs/ft)
					11/2/2002 13 3/8 H	1-40 48.00
		٠ - سپ	••	-		
				,		
				i		



P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-687-5311 Email: talon@etv.net

CONFIDENTIAL

December 3, 2002

Mr. Eric Jones
Petroleum Engineer
Bureau of Land Management
82 East Dogwood
Moab, Utah 84532

RE: Sundry Notice (Weekly Drilling Reports)—Fortuna (US), Inc.

Middle Mountain #21-16—1,309' FSL, 834' FEL

Section 21, T16S, R6E, SLB&M, Emery County, Utah

Dear Mr. Jones:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the *Sundry Notices* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed application. Please feel free to contact myself or Mr. Mel Knezevich of Fortuna (US), Inc. at 1-780-402-1296 if you have any questions or need additional information.

Sincerely,

Don Hamilton

Don Hamilton Agent for Fortuna (US), Inc.

Enclosures

cc: Mr. Mike Kaminski, BLM-Price Field Office

Mr. Carter Reed, USDA Forest Service-Price SO

Mr. Tom Lloyd, USDA Forest Service—Ferron DO

Mrs. Diana Mason, Division of Oil, Gas and Mining

Mr. Arne Hamarsnes, Fortuna (US), Inc.

Mr. Mark Moenich, Fortuna (US), Inc.

RECEIVED

DEC 0 9 2002

DIV. OF OIL, GAS & MINING

FILE COPY

Fórm	3160-5
(lune	1990)

1. Type of Well Oil 2. Name of Operator

Fortuna (US), Inc.

3. Address and Telephone No.

# DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED	
Budget Bureau No. 1004-013	4
Expires: March 31, 1993	

### Lease Designation and Serial No. UTU-77263

N/A

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1 1/ 2 2		
If Unit or CA,	Agreement	Designation
N/A		

If Indian, Allottee or Tribe Name

•		-,	
	3.T/A		
	N/A		
	1 1/ 2 1		

 1 401110 mile 1	10.	
Middle	Mountain	#21-16

API Well No.

43-015-30426

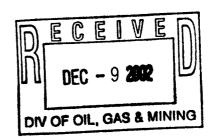
227 1162 10. Field and Pool, or Exploratory Area

Jtah

_	,	Calgary, Alberta 12P3C3 403-237-1103		Wildcat
4.	Location of Well (Footage, Sec., T., R:, M., or Survey	Description)	11.	County or Parish, State
	1309' FSL, 834' FEL			
	SE/4 SE/4, Section 21, T16S, R	.6E, SLB&M		Emery County, U
12.	CHECK APPROPRIATE BOX(s)	RT, OR OTHER DATA		
_	TYPE OF SUBMISSION	TION		

TYPE OF SUBMISSION		TYPE OF ACTION	
Notice of Intent  X Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Weekly Drilling Reports	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water	

Attached are the weekly drilling reports for the Middle Mountain #21-16 well



14. I hereby certify that t	he foregoing is	rue and correct				
Signed <u>Don Hamilton</u>	Don H	Title Agent for Fortuna US		Date _	December 3, 2002	
(This space for Federal or	State office use	)				
Approved by	fany:	Title	Date			

<sup>13.</sup> Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Tali man Energy Canada - Daily Drilli Report Page 1/2
Well Name: FORTUNA MIDDLE MUNTAIN #21-16 Date: 11/25/2002, Report: 29.0, DFS: 29.00

Job Type: Drilling - original

											,		
Spud Dat 10	ie D/28/2001	, ,	Release	Date K	B Elevation (ft) 8672.00	⊹G	round Eleval 865	tion (ft) 5.00	KB-Gr	ound Distance (ft) 17.00	AFE No. 37511	Total Af	E Amt (\$)
Daily S	Summary	y									Daily Cost Total	Cum. Co	ost To Date
Veather				Road Cond	ition	1 11111	Hole	Condition					
Clear				WET			LO	ST CIRCU	JLATIC	N	Daily Mud Cost	.Mud Ad	ditive Cost To D
	ns at Report											<b>y</b>	
_		21 run log	s to bot	tom							Depth Start (ftKB) 4,265.0	Depth &	nd (ftKB) 4,421.0
	ns This Rep		rin Circ	bolo olaan T	rip out to log. W	/ai4 a.m. 1					Depth Progress (ftKB	) Drilling	4,421.0 Time (hrs)
	s Next Rep		np. Circ	noie clean. I	rip out to log. vv	ait on i	oggers.				156.0	, Oming	6.00
		and cem	ent.									<u>-</u>	
rima I											Ops Superviso		
Time L		Dur (hrs)	Code		Activity		1	C	omment		Arnie Hamarsne	Contact	ngineer
00:00	04:00	4.00	<del></del>	Drilling			DRILLIN			FROM 4265'KB	Rod Cuthill, Dril		
							TO 4370	KB USIN	G 12.5	BBL/MIN	Mel Knezevich,	-	
	İ			•					VI AIR	TO MAINTAIN	Mark Moennich,	-	
							CIRCUL	ATION.			Roger Bromley,		
04:00	04:45	0.75	05	Condition ar	nd/or Circulate m	nud	CIRCUL	ATE UP S	AMPL	E / WORK	Bill Hedglin, Ger		•
		ļ					HOLE C	LEAN.			Jan : roughin, Oct	ologist	
04:45	05:15	0.50	02	Drilling			DRILL 1	2 1/4" HOL	E FRO	OM 4371'KB TO	Rigs: Bill Marti	n Jr., 3	
							4390'KB	/ POSSIB		IERY TOP @	Rig Supervisor		
		ĺ	i				4281'KB	•			John Day, Tool	Pusher	
05:15	06:30	1.25	05	Condition ar	d/or Circulate m	nud	CIRCUL	ATE UP S	AMPLI	E / WORK	Rigs: Pattersor	U.T.I. 104	
							HOLE C	LEAN.			Rig Supervisor		
06:30	08:00	1.50	02	Drilling						OM 4391'KB TO	Jesse Blanchard	l, Drilling Ma	anager
										ATE HOLE.	1, IDECO, MM-5	550	
08:00	09:45	1.75	05	Condition ar	id/or Circulate m	nud				ITION HOLE	Pump Number Pump	Rating (hp) Ro	
	L						i	GGING @			1 :	550.0	2.5197
09:45	11:45	2.00	06	Tripping			1	TRIP TO 1					V/Stk (bbi/stk)
										N BACK IN	5	15.00	0.105
	ļ	ļ		:						KELLY UP.	2, IDECO, MM-5	50	
11:45	12:45	1.00			d/or Circulate m	iud				RESERVE PIT.	Pump Number Pump		
12:45	13:30	0.75	06	Tripping						IP INTO TD @		550.0	2.5197
13.30	15:30	2.00	05	C	4/ 0: 1-4			OLE COND					V/Stk (bbl/stk)
13:30	15.30	2.00	US	Condition an	d/or Circulate m		LOGGIN		NUITIO	ON HOLE FOR	5	15.00	0.105
15:30	16:00	0.50	10	Rig Survey					DVEV	@ 4381'KB, 1.0	BOPs		
13.30	10.00	0.50	10	rig Survey				LINATION			Туре		n Sz n) P(wkg) (p
16:00	19:00	3.00	06	Tripping					•	AP 4417.46 FT.	Annular Prevente		5/8 1,500
0.00	10.00	0.00	00	Tripping						TO TALLY.	Annular Prevente		11 1,500
9:00	00:00	5.00	11	Wireline Log	s		WAIT ON	WIRELIN	JF TRI	JCK	Mud Additive A		
							WAIT ON WIRELINE TRUCK. TRANSMISSION WENT OUT 10 MILES			Description		d Daily Cost (\$	
							FROM TH	HE LEASE			BAROID USA M		
and Ch	ooks: 4	424 084	D 44/2	5/2002 11:45	····						ENG LIVING		
ype		,421.VIUN Date		Pepth (ftKB)	T(fl) (°F)	Density	(lb/gal)	Vis (s/qt)		Plas Vis (cp)	ALLOWANCE		1
 Vater E	Base	11/25/2002	11:45	4,421.0		,	8.4	27		(-),	BARIOD USA M	JD 1.0	20
ield Point	t(cp)	gel 10 sec (c	p) g	el 10 min (cp)	Filtrate (mL/30min)	HTHP F	Filt (mL/30mi	n Filter Cake (	(in)	MBT (lb/bbl)	CHECK		
		<del></del>			:						BAROID USA	1.0	) 4
ime (lb/bl	), t	оН 77	P	m (mL/mL)	Pf (mL/mL)	Calciun	n (mg/L)	Potassium (	mg/L)	Polymer (lb/gai)	EZ-MUD		
hlorides (	(ma/L)   S	7.7 Sand (%)	9	olids (%)	Percent Oil (%)	Percent	t Water (%)	LG Solids (9	<u> </u>	Electric Stab (V)	BAROID USA	1.0	8
500.	,			\· <del>-</del> /		. 0.0011	( /0 )	LO Gonda (7	-1		BARACAT		:
rill C4-	inge: Di	HA #8, SI	ick		•			1			BAROID USA	2.0	21
it RuiBit	iiiga. Di	i∩ π0, 31	IVR .	IADC Bit Du	I	TFA (inc	ci Noz) (in² R	OP (ft/hr Noz	zies (/32°	")	PAC-R		<del> </del>
6 12		T-28C , 2	W19DI	1	-A-2-0-NO-TD		.80	14.4		8/28/28	BAROID USA SODA ASH	9.0	6
400	,		String Co						_		BAROID USA	67.0	96
	37 I J				t Sub, NMDC, Di			ıb, Shock :	Sub, D	rill Collar,	DIAMONIAM	67.0	96
n (π) 4384.:	,	į	Dulling	Jars - Hydrau	lic, Drill Collar, D	JIII PIP	e 				PHOSPHATE	1	:
			OffKR							1			1
4384.:		ters: 156	.01410		epth (ftKB) Drill Time			me (hr Int ROF		Flow Rate (gpm)	Formation Pick	Groups: Dr	illing Sam.
4384.: rilling	Parame Dep	oth Start (ftK	B) Depth I	!		)()	70.00	)   2	26.0	525	Formation Picks Group	*	
4384.3 rilling IA No. 8	Parame Dep	oth Start (ftK 4,265.0	3) Depth I	121.0 1,0	0.800	Olko -	O LIL (4000"	-A [D-::::- 3		O# Di T	B 100 C .		
4384.3 rilling IA No. 8 OB (100	Parame Dep	oth Start (ftK 4,265.0 M (rpm)	3) Depth I 4,4 SPP (	121.0 1,0 psi) Rot HL (1	000lbf) PU HL (100		O HL (1000)	bf) Drilling 1	Forque	Off Btm Tq 1 O	Drilling Sample		
4384.: rilling HA No. 8 OB (100 40	Parame Dep Dibf) RP	oth Start (ftK 4,265.0	3) Depth I 4,4 SPP (	121.0 1,0	000lbf) PU HL (100		O HL (1000)	bf) Drilling 1	Torque	Off Btm Tq 1.0	Name		Top (ftKB)
4384.: rilling HA No. 8 OB (100 40	Parame Dep Dibf) RP	oth Start (ftK 4,265.0 M (rpm) 75	3) Depth I 4,4 SPP ( 80	121.0 1,0 psi) Rot HL (1	000lbf) PU HL (100 0 125					1.0	Name Emery		4,280.
4384.3 Frilling HA No. 8 OB (100 40 /ellbor	Parame Dep Dibf) RP	oth Start (ftK 4,265.0 M (rpm)	3) Depth I 4,4 SPP ( 80	121.0 1,0 psi) Rot HL (1	000lbf) PU HL (100	r(°)	115		MD (ftK	1.0 B)	Name Emery Mancos		4,280. 3,073.
Prilling HA No. 8 POB (1000	Parame Dep Dibf) RP	oth Start (ftK 4,265.0 M (rpm) 75	3) Depth I 4,4 SPP ( 80	121.0 1,0 psi) Rot HL (1	000lbf) PU HL (100 0 125		115			1.0	Name Emery Mancos Star Point		4,280. 3,073. 2,700.
4384.3 Frilling HA No. 8 OB (100 40 /ellbor	Parame Dep Dibf) RP	oth Start (ftK 4,265.0 M (rpm) 75	3) Depth I 4,4 SPP ( 80	121.0 1,0 psi) Rot HL (1	000lbf) PU HL (100 0 125	r(°)	115			1.0 B)	Name Emery Mancos		4,280. 3,073.

Talir nan Energy Canada - Daily Drilli Report Page 2/2
Well Name: FORTUNA MIDDLE N. JNTAIN #21-16 Date: 11/25/2002, Report: 29.0, DFS: 29.00
Job Type: Drilling - original

Spud Date 10/28/2002	Rig Relea	se Date	KB Elevation (ft) 8672.	i	and Elevation (ft) 8655.00	1	Distance (ft) 17.00	Surface Cas			Andrews
Daily Summary Directional Survey	rs• SINGI I	SHOT	A Company		9 v 1	- 13-6		Casing Run Date 11/2/2002	1 '1	ade H-40	Wt (lbs/ft) 48.00
Description SINGLE SHOT	0.0		<del>, , , , , , , , , , , , , , , , , , , </del>	· · · · · · · · · · · · · · · · · · ·	Survey Compa Patterson	-		•			
Survey Data MD (ftKB) In 4.381.00	d (*)	Azm (*) 21.00	TVD (ftKB) 4.379.41	NS (ft) 95.36	EW (ft) -16.95	VS (ft) -16.95	DLS (°/100ft) 0.06				

Report Printed: 12/4/2002

falisman Energy Canada - Daily Drillin Report

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Well Name: FORTUNA MIDDLE MUNTAIN #21-16 /11/26/2002, Report: 30.0, DFS: 30.00 Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 Daily Summary Weather Road Condition Hole Condition WET **CLEAR** LOST CIRCULATION Operations at Report Time @0600hrs- CSG LANDED, WAIT ON ANOTHER CEMENT TRUCK Operations This Report Period LOG OPEN HOLE, RIH 9 5/8" CSG, RIG IN CEMENTERS, PUMP TRUCK PRECHARGE PUMP FAILED CEMENT 9 5/8" CSG Time Log Start Date End Time Dur (hrs) Comment 03:00 00:00 3.00 11 Wireline Logs WAIT ON LOGGERS / SLIP & CUT DRILLING LINE 15:30 12.50 11 RIG IN SCHLUMBERGER / LOG OPEN 03:00 Wireline Logs HOLE FROM LOGGERS (TD) 4414' TO SURFACE CASING @ 1080'KB. MADE 1 RUN WITH SET-M-ND, PEX-SUB-A, BHC, CAL-C. HOLE CONDITION WAS GOOD 15:30 21:00 5.50 12 Run Casing & Cement **RIG IN CASING CREW & RIH 100** JOINTS 9 5/8", 36#, J-55, ST&C Rigs: Patterson U.T.I, 104 RANGE 3 CASING. TOTAL LENGTH OF CASING 4417.44', LANDED @ 4414'KB. locco Planch RAN WEATHERFORD ECP @990'KB WITH TWO STAGE COLLAR @ 974.02, TAGGED BOTTOM "OK" 21:00 22:00 1.00 12 Run Casing & Cement WAIT ON SCHLUMBERGER CEMENTERS. 22:00 00:00 2.00 12 Run Casing & Cement CIRCULATE CASING. (PUMP WATER INTO CASING.) RIG IN CEMENT SILO & LOAD, SPOT CEMENT BULK TRUCKS & PUMP UNIT. Drill Strings: BHA #8, Slick IADC Bit Dull TFA (incl Noz) (in2 ROP (ft/hr Nozzles (/32") Bit Rui Bit ROP 6 12 1/4in, GT-28C , ZW19DM 3-5-FC-A-2-0-NO-TD 28/28/28 14.4 Max OD (in) Len (ft) Hughes GT-28C , Bit Sub, NMDC, Drill Collar, XO Sub, Shock Sub, Drill Collar, 4384.37 8.000 Drilling Jars - Hydraulic, Drill Collar, Drill Pipe Drilling Parameters: 156.0ftKB Depth Start (ftKB) Depth End (ftKB) | Cum Depth (ftKB) | Drill Time (hrs) **BHA No** Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) 4,265.0 4,421.0 1,008.0 6.00 70.00 26.0 525 WOB (1000lbf) RPM (rpm) Rot HL (1000lbf) SPP (psi) PU HL (1000lbf) SO HL (1000lbf) **Drilling Torque** Off Btm Ta 40 75 800.0 120 125 115 1.0 Wellbores Wellbore Name V\$ Dir (\* KO MD (ftKB) Main Hole 90.00 300.0 Directional Surveys: SINGLE SHOT Description Survey Company SINGLE SHOT Patterson Crew

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
4,421.0	4,421.0
Depth Progress (ftKB)	Drilling Time (hrs)
0.0	0.00
Ops Supervisors	Contact
Arnie Hamarsnes,	
Rod Cuthill, Drilling	
Mel Knezevich, Dri	
Mark Moennich, Dr	illing Sup't
Roger Bromley, To	ol Pusher
Bill Hedglin, Geolog	gist
Rigs: Bill Martin J	r., 3
Rig Supervisor John Day, Tool Pus	

Jesse Bianchard, Dhiling Manager								
1, IDECO, MM-550								
Pump Number	Pump Rating (hp)	Rod Diameter (in)						
1	550.0	2.5197						
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)						
5	15.00	0.105						
		1, IDECO, MM-550  Pump Number Pump Rating (hp)						

Pump Number :	ump Rating (hp)	Rod Diameter (in)		
2	550.0	2.5197		
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)		
5	15.00	0.105		

Туре	Nom Sz (in) P(	wkg) (psi)			
Annular Preventers	13 5/8				
Annular Preventers	11	,500.0			
Mud Additive Amounts					
Description	Consumed Daily	Cost (\$)			

Description	Consumed	Daily Cost (\$)
BAROID USA MUD ENG LIVING ALLOWANCE	1.0	35
BARIOD USA MUD CHECK	1.0	200
BAROID USA BARA DEFOAM	2.0	230
BAROID USA DIAMONIAM PHOSPHATE	6.0	86

Formation Pick Groups	s: Drilling Sam
Formation Picks Group	
Drilling Sample	
Name	Top (ftKB)
Emery	4,280.0
Mancos	3,073.0
Star Point	2,700.0
Blackhawk	1 700 0

Intermediate	Casing,	4,413.0	ftKB
Casing Run Date	Max OD (in)	Grade	Wt (lbs/ft)
11/26/2002	9 5/8	J-55	36.00
-			

Castlegate

1,467.0

lalisman Energy Canada - Daily Drillin Report

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Well Name: FORTUNA MIDDLE M NTAIN #21-16

Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) Ground Distance (ft) AFE No Total AFE Amt (\$) 10/28/2002 8672.00 8655.00 17.00 37511 **Daily Summary** Cum. Cost To Date Daily Cost Total Weather Road Condition Hole Condition Dry Mud Additive Cost To Date Daily Mud Cost Cased and cemented Operations at Report Time 06:00 hrs 11/28/02 nipple down 13 5/8 stack Depth Start (ftKB) Depth End (ftKB) Operations This Report Period 4.421.0 4,421.0 Wait on Schlumberger, cement casing and wait on cement. Depth Progress (ftKB) Drilling Time (hrs) Operations Next Report Period 0.0 0.00 WOC change to 11"x 3000# stack **Ops Supervisors** Time Log Start Date End Time Dur (hrs) Code Contact Activity Arnie Hamarsnes, Drilling Engineer 00:00 12:00 12.00 00 **Undefined Status** Wait on Schlumberger to arrive with a Mel Knezevich, Drilling Foreman operational pumping unit. To replace the Rod Cuthill, Drilling Foreman failed unit Mark Moennich, Drilling Sup't 12:00 17:30 5.50 12 Run Casing & Cement Cement first stage. 1514 sx of cement Randy Hackford, Tool Pusher pumped at 11.2 ppg, tailed in with 186 sx Bill Hedglin, Geologist pumped at 14.2 ppg. Displaced with 339 bbls of water. The plug was bumped and Rigs: Bill Martin Jr., 3 the floats held. Ther was no pressure on the pump gauge prior to bumping the John Day, Tool Pusher plug. The pumping unit injector system caught fire while displacing, was shut Rigs: Patterson U.T.I, 104 down and put out. No major damage. Inflate packer with 800 psi. Open Stage Jesse Blanchard, Drilling Manager Collar with 1500 psi. Circulate with rig 1, IDECO, MM-550 pump. Some contamination and Pump Number Pump Rating (hp) Rod Diameter (in) ammonia smell in the water at bottoms 550.0 2.5197 up. Possible cement raised the ph and caused the smell. Cement the second Liner Size (in) V/Stk (bbl/stk) stage with 275 sx at 14.2 ppg. Cement to 5 15.00 0.105 surface. Close stage collar and cement 2, IDECO, MM-550 stayed at surface. Flush BOP. Pump Rating (hp) od Diameter (in) 550.0 2.5197 Liner Size (in) Stroke (in) V/Stk (bbl/stk) 00:00 6.50:13 Wait On Cement Prepare to change BOP while waiting on 0.105 15.00 cement. **BOPs** Wellbores Wellbore Name VS Dir (\*) Type (in) P(wkg) (psi) KO MD (ftKB) Main Hole 90.00 Annular Preventers 13 5/8 1.500.0 300.0 **Annular Preventers** 1,500.0 Directional Surveys: SINGLE SHOT Survey Company SINGLE SHOT Formation Pick Groups: Drilling Sam. Patterson Crew ormation Picks Group **Drilling Sample** Top (ftKB) Emery 4,280.0 Mancos 3,073.0 Star Point 2,700.0 Blackhawk 1,700.0 Castlegate 1,467.0 Intermediate Casing, 4,413.0ftKB

Report Printed: 12/4/2002

Vt (lbs/ft)

36.00

Casing Run Date Max OD (in) Grade

9 5/8

11/26/2002

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Talis an Energy Canada - Daily Drillin Report
Well Name: FORTUNA MIDDLE M NTAIN #21-16
Date 11/28/20

Date 11/28/2002, Report: 32.0, DFS: 32.00

Job Type: Drilling - original

Spud Date	/28/2002		Release	Date KE	B Elevation (ft) 8672.00	Ground	Elevation (ft) 8655.00	KB-Ground Di	stance (ft)	
		<u> </u>			0072.00		0000.00		.00	
	ummary									
Weather				Road Condit	ion		Hole Condition			
Clear Dry							Cased and	cemented		
•	s at Report									
			le up op	erations.						
	s This Repo									
			lown. W	eld bowl and r	nipple up.					
•	s Next Repo									
Nipple (	ıp. Test l	BOP. Dri	ll out							
Time L	oa									
		Dur (hrs)	Code	1	Activity			Comment		
00:00	06:00	6.00	13	Wait On Cen	nent		ait for cement to set to slack off of sing. No slips for first intermeadiate.			
06:00	16:00	10.00	14	Nipple Up /N Stack	ipple Down BOP		ut off casing. Nipple down 13 5/8 300 OP. Prep cellar.			
16:00	22:00	6.00	14	Nipple Up /N Stack	Nipple Up /Nipple Down BOP Stack			inal cut casing. Preheat 11"3000# asing bowl, weld on bowl and cool dow asing bowl for 1 hr to 150 degrees.		
22:00	00:00	2.00	14	Nipple Up /N Stack	ipple Down BOP	Nipp	ole up 11" 30	00# BOP.		
Wellbo	res									
Wellbore Name					VS Dir (*)		KO MD (ftKB)			
Main Hole						90.00			300.0	
		veys: SII	NGLE S	нот						
Description							Survey Compar	•		
SINGLE	SHOL						Patterson C	rew		
						· · · · · · · · · · · · · · · · · · ·	<del></del>			

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
4,421.0	4,421.0
Depth Progress (ftKB)	Drilling Time (hrs)
0.0	0.00

### Ops Supervisors Contact

Arnie Hamarsnes, Drilling Engineer Rod Cuthill, Drilling Foreman Mel Knezevich, Drilling Foreman Mark Moennich, Drilling Sup't Randy Hackford, Tool Pusher Bill Hedglin, Geologist

### Rigs: Bill Martin Jr., 3 Rig Supervisor

John Day, Tool Pusher

# Rigs: Patterson U.T.I, 104

Jesse Blanchard, Drilling Manager

### , IDECO, MM-550

1	550.0	2.5197	
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)	
5	15.00	0.105	

### 2, IDECO, MM-550

Pump Number	Pump Rating (hp)	Rod Diameter (in)
2	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	0.105

### **BOPs**

Туре	(in)	P(wkg) (psi)
Annular Preventers	13 5/8	1,500.0
Annular Preventers	11	1,500.0

### Formation Pick Groups: Drilling Sam... Formation Picks Group

Drilling Sample

Name	Top (ftKB)		
Emery	4,280.0		
Mancos	3,073.0		
Star Point	2,700.0		
Blackhawk	1,700.0		
Castlegate	1,467.0		

### Intermediate Casing, 4,413.0ftKB

Casing Run Date	Max OD (in)	(Grade	Wt (lbs/ft)
11/26/2002	9 5/8	J-55	36.00

Talis man Energy Canada - Daily Drillin Report

11/29/2002, Report: 33.0, DFS: 33.00

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Well Name: FORTUNA MIDDLE MANNAIN #21-16

KB Elevation (ft)

Job Type: Drilling - original

Rig Release Date

Spud Date

Total AFE Amt (\$) KB-Ground Distance (ft) AFE No. 10/28/2002 8672.00 8655.00 17.00 37511 **Daily Summary** Daily Cost Total Cum. Cost To Date Road Condition Weather Hole Condition Mud Additive Cost To Date Dry Daily Mud Cost Clear Cased and cemented Operations at Report Time Depth Start (ftKB Depth End (ftKB) 06:00 hrs Drill ahead raotary air 4,421.0 4,421.0 Operations This Report Period Depth Progress (ftKB) Drilling Time (hrs) Nipple up 11x3000# stack. Test BOP, Drill out and attempt to dry hole. 0.0 8.00 Operations Next Report Period Drill ahead rotary air. **Ops Supervisors** Time Log
Start Date | End Time | Dur (hrs) | Code Contact Activity Commen Arnie Hamarsnes, Drilling Engineer 00:00 10:00 10.00 14 Nipple Up /Nipple Down BOP Nipple up BOP. Mel Knezevich, Drilling Foreman Stack Rod Cuthill, Drilling Foreman 10:00 18:00 8.00 15 Test BOP Test casing, BOP and surface equipment Mark Moennich, Drilling Sup't to 1750 psi. Randy Hackford, Tool Pusher 18:00 00:00 Drilling 6.00 02 Drill out stage collar, trip in and drill out Bill Hedglin, Geologist shoe. Pot metal plugs are causing problems. Rigs: Bill Martin Jr., 3 Rig Supervisor Drill Strings: BHA #9, Slick John Day, Tool Pusher IADC Bit Dull Bit Rui Bit TEA (incl Noz) (in2 ROP (ft/ht/Nozzles (/32") 7 8 3/4in, L136 , L57ZY 6-7-FC-A-6-0-NO-Deviation 0.59 26.2 16/16/16 Rigs: Patterson U.T.I, 104 Max OD (in) Len (ft) String Components Ria Supervisor 4458.47 6.500 Varel L136 , Bit Sub, NMDC, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Jesse Blanchard, Drilling Manager 1, IDECO, MM-550 Drilling Parameters: 210.0ftKB Pump Number | Pump Rating (hp) | Rod Diameter (in) Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) 1 550.0 Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) 2.5197 4.421.0 4,631.0 210.0 8.00 8 00 26.2 Liner Size (in) Stroke (in) V/Stk (bbl/stk) SPP (psi) WOB (1000lbf) RPM (rpm) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) **Drilling Torque** Off Btm Tq 5 0.105 15.00 36 70 120 120 120 2, IDECO, MM-550 Wellbores Pump Number Pump Rating (hp) Rod Diameter (in) Wellbore Name VS Dir (\*) KO MD (ftKB) 2 550.0 2.5197 Main Hole 90.00 300.0 Liner Size (in) Stroke (in) V/Stk (bbl/stk) Directional Surveys: SINGLE SHOT 15.00 0.105 Survey Company **BOPs** SINGLE SHOT Patterson Crew Nom Sz Type (in) P(wkg) (psi) Annular Preventers 13 5/8 1,500.0 Annular Preventers 1,500.0 **Mud Additive Amounts** Description Consumed Daily Cost (\$) **BAROID USA** 6.0 678 QUICK FOAM BAROID USA 116.0 421 REGULAR BARITE Formation Pick Groups: Drilling Sam.. Formation Picks Group **Drilling Sample** Top (ftKB) Emery 4,280.0 Mancos 3,073.0 Star Point 2,700.0 Blackhawk 1,700.0

J-55

1,467.0

Wt (lbs/ft)

36.00

Castlegate

11/26/2002

Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade

9 5/8

Page 1/2

Top (ftKB)

4,280.0

3,073.0

2,700.0

1,700.0

1,467.0

Talis an Energy Canada - Daily Drillin Report
Well Name: FORTUNA MIDDLE M NTAIN #21-16 Date: 11/30/20 Date 11/30/2002, Report: 34.0, DFS: 34.00

Job Type: Drilling - original

AFE No.		Total AFE A	rst (\$)
3751			
Daily Cost Total		Cum. Cost T	o Date
Daily Mud Cost		Mud Additive	Cost To D
Death Start (6)(C		0 - 1 5 - 1 (	W(2)
Depth Start (ftKE 4,421	-	Depth End (f	75.0
Depth Progress	(ftKB)	Drilling Time	
254.0	)	8	.50
Ops Superv		ntact	
Arnie Hamar			
Mel Knezevi			n
Rod Cuthill, Mark Moenn			
Randy Hack		•	
Bill Hedglin,			
Rigs: Bill M	artin Jr	. 3	
Rig Supervisor			
John Day, To	ool Push	er	
Rigs: Patter	son U.T	.l, 104	
Rig Supervisor Jesse Blanch	hard Dri	lling Mana	nor.
		iling Mana	jei
1, IDECO, M Pump Number P		(hp) :Rod Dia	meter (in)
1	550.0		.5197
Liner Size (in)	Stroke (in		k (bbl/stk)
5	15.	00	0.105
2, IDECO, M Pump Number   P	M-550	(bn) Bod Die	mates (in)
2	550.0		.5197
Liner Size (in)	Stroke (in	) V/St	k (bbl/stk)
5	15.	00	0.105
BOPs			
Туре	е	Nom Sz (in)	P(wkg) (p
Annular Prev		13 5/8	
Annular Prev	enters	11	1,500
88 J A -1-1145	e Amou		
Mud Additive		Consumed D	aily Cost (
Description	on (		
Description BAROID USA	on (	2.0	`
Description BAROID USA EZ-MUD	on o		
Description BAROID USA EZ-MUD BAROID USA ENG LIVING	MUD	2.0	
Description BAROID USA EZ-MUD BAROID USA ENG LIVING ALLOWANCE	MUD	4.0	14
Description BAROID USA EZ-MUD BAROID USA ENG LIVING ALLOWANCE BARIOD USA	MUD	2.0	14
Description BAROID USA EZ-MUD BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK	MUD	4.0	14
Description BAROID USA EZ-MUD BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA	MUD	4.0	14 80
Description BAROID USA EZ-MUD BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA BARACAT BAROID USA	MUD	4.0	80
Description BAROID USA EZ-MUD BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA BARACAT BAROID USA FUMARIC AC	MUD  MUD  MUD  MUD	4.0 4.0 5.0	80 40 95
Description BAROID USA EZ-MUD BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA BARACAT BAROID USA FUMARIC AC BAROID USA	MUD  E  MUD	4.0	14 80 40 95
Description BAROID USA EZ-MUD BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA BARACAT BAROID USA FUMARIC AC	MUD  E  MUD  CID	4.0 4.0 5.0	80 40 95

Formation Picks Group Drilling Sample

Emery

Mancos

Star Point

Blackhawk

Castlegate

2:00   12:30   0.50   02   Drilling   Drill ahead.	Spud Date	<b>40000</b>	Rig Rel	ease Date	KB Elevat		Ground Elevation		ound Distance (ft)
						3672.00	8655.	00	17.00
Clear		тагу							
Devision at Report Time   Dec 01, drill ahead @4840							* .		
Descriptions   The Report Period		Report Time							
Drill out, dry hole, drill ahead, aerated water drill, Trip for assembly due to deviation, drill ahead.   Drill ahead with aerated water.	06:00 hrs [	Dec 01, d	rill ahead	d @4840					
Department   Dep									
Inter Log	perations Ne	xt Report Pe	riod		ter drill, Trip	for assembly	due to deviat	on, drill ahead	
Start Date   End Time   Dur (first)   Code   Activity   Comment	Orill ahead	with aera	ted water	er.					
11:30	Time Log								
11:30							1		
1.30						irculate mud			
12:30	3:30 11	:30	8.00 02	Drilling					at 4473. Switch
12:30	11:30 12	:00	0.50 10	Rig Su	rvey		Survey at	1585	
19:00	12:00 12	:30	0.50 02		<u>-</u>				
	12:30 19	:00	6.50 06						
	19:00 22	:45	3.75 03				Ream pac		
Drill Strings: BHA #9, Slick   IRVIDITED	22:45 00	.00	1 25 02	Drilling					
RAU   Bit							Dim alleau	•	
7		s: BHA	r9, Slick		Bit Duit	· · · · · · · · · · · · · · · · · · ·	(inal No-1 (i-2)50	D (AMILE	Dell's
Max OD (in)		n. L136	L57ZY					. , , ,	
Varie   L136   Bit Sub, NMDC, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill	en (ft)		n) Stri	ng Components	-				
	4458.47	6.50			t Sub, NMD	C, Drill Collar	Drilling Jars -	Hydraulic, Dril	l Collar, Drill
HA No.   Depth Start (RtKB)   Depth End (RtKB)   Cum Depth (RtKB)   Drill Time (hr; in the content of the con			- 040 04						
9					Cum Denth (ftk	(B) Drill Time (brs	Cum Drill Time	(brillot ROP (ft/br)	Flow Pate (ones)
RPM (rpm   36		r .			,				riow Rate (gpm)
Strings: BHA #10, Packed Hole   IADC Bit Dull   TFA (incl Noz) (in* ROP (ft/hr/Nozzles (/32")   String Components   String Components   String Components   Smith F35, Reamer - 3 Pt, Stabilizer, Short Drill Collar, Stabilizer, NMDC, Stabilizer, Drill Collar, Drill Collar, Drill Pipe   Incl Collar, Drill Collar, Drill Collar, Drill Pipe   Incl Collar, Drill Collar	OB (1000lbf)	1 .	. 1	•		1			Off Btm Tq
Rau Bit   S   S   S   A   A   F   S   M   S   M   S   M   S   S   M   S   S	36		70		120	120	120		
ADC Bit Dull	rill String	s: BHA#	10. Pac	ked Hole	74.5				
Max OD (in)   String Components	it Rui Bit		,		Bit Dull	TFA	(incl Noz) (in² RO	P (ft/hr Nozzies (/32	")
Smith F35, Reamer - 3 Pt, Stabilizer, Short Drill Collar, Stabilizer, NMDC, Stabilizer, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe				1	6-FC-A-2-0	-NO-PR	0.59 1	8.7 1	6/16/16
Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe					mar 2 D4 1	Ctabilia Ct	4 D-111 O-11	OA-LII A/A 4/	00 04-1:::
Prilling Parameters: 44.0ftKB	JJZ4.0U	0.75							JC, Stabilizer,
A No.   Depth Start (ftKB)   Depth End (ftKB)   Cum Depth (ftKB)   Drill Time (hrs)   Cum Drill Time (hrs)   Flow Rate (gpm)		1			ing outs - m	yaradilo, Dilii	Jonai, Dini i i		
10					A B . # .	(D) (D = 1) = 1		A 11 1 B 2 B 1 B 1	
OB (1000lbf)   RPM (rpm)   SPP (psi)   Rot HL (1000lbf)   PU HL (1000lbf)   SO HL (1000lbf)   Drilling Torque   Off Btm Tq									Flow Rate (gpm)
35   60   240.0		i		•		1			Off Btm Ta
Wellbore Name		+			,/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			J J 14
Wellbore Name	/alibarea					<u> </u>	- <del>i</del>	- i	
Main Hole	TOHOUTES	V	/ellbore Na	ime		VS Dir (*)		KO MD (#K	B)
Survey Company   Survey Company   Patterson Crew	lain Hole						90.00		
Survey Company	imational	Sunce	. CINCI	E SUOT					
INGLE SHOT		Surveys	: SINGL	.E 3HUI			Survey	`omoany	
urvey Data           MD (ftKB)         Incl (*)         Azm (*)         TVD (ftKB)         NS (ft)         EW (ft)         VS (ft)         DLS (*/100ft)		ЮТ							ļ
MD (ftKB) Incl (*) Azm (*) TVD (ftKB) NS (ft) EW (ft) VS (ft) DLS (*/100ft)							1. 4101		
	MD (ftKB)	Incl		Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (*/100ft)
	4,585.0	0	2.75	345.00	4,583.3		75 -17.		8 0.99
									İ
									i

Talir nan Energy Canada - Daily Drillir Report Page 2/2
Well Name: FORTUNA MIDDLE M. JNTAIN #21-16 Dat. 11/30/2002 Report: 34.0, DFS: 34.00
Job Type: Drilling - original

ud Date	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Augusta Commission
10/28/2002		8672.00	8655.00	17.00	Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade Wt (lbs/
ily Summary					11/26/2002 9 5/8 J-55 36.0
					-
					1.
					-
				ļ	
					:
					1
					-
					-
				1	1

Tallsman Energy Canada - Daily Drillin Report

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Well Name: FORTUNA MIDDLE M\_NTAIN #21-16 12/1/2002, Report: 35.0, DFS: 35.00 Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) KB-Ground Distance (ft) AFE No. Total AFE Amt (\$) 10/28/2002 8672.00 8655.00 17.00 37511 **Daily Summary** Daily Cost Total Cum. Cost To Date Road Condition Weather Hole Condition Daily Mud Cost Clear Mud Additive Cost To Dat Dry Good Operations at Report Time 06:00 hrs Dec 02, drill ahead @ 5425 Depth Start (ftKB) Depth End (ftKB) 4,675.0 5,325.0 Operations This Report Period Drill ahead with aerated water. Depth Progress (ftKB) Drilling Time (hrs) 650.0 22.00 Operations Next Report Period Drill ahead with aerated water **Ops Supervisors** Time Log Contact Start Date End Time Dur (hrs) Code Comment Arnie Hamarsnes, Drilling Engineer Drilling 00:00 04:45 4.75 02 Drill ahead. Pit slowly filling up. Mel Knezevich, Drilling Foreman 04:45 05:15 0.50 10 Rig Survey Survey Rod Cuthill, Drilling Foreman 05:15 16:15 11.00 02 Drilling Drill ahead. Drop to 2 compressors for a Mark Moennich, Drilling Sup't while to pump water away. Randy Hackford, Tool Pusher 16:15 16:45 0.50 10 Rig Survey Survey at 5077 Bill Hedglin, Geologist 16:45 17:15 0.50 07 Rig Service Rig service. Function annular. Drilling Rigs: Bill Martin Jr., 3 17:15 00:00 6.75 02 Drill ahead. Mud Checks: 5,023.0ftKB, 12/1/2002 00:00 John Day, Tool Pusher T(fl) (°F) Plas Vis (cp) Date Depth (ftKB) Density (lb/gal) Vis (s/qt) 12/1/2002 00:00 5,023.0 Aerated floc water 8.4 Rigs: Patterson U.T.I, 104 Yield Point (cp) gel 10 sec (cp) gel 10 min (cp) Filtrate (mL/30min) HTHP Filt (mL/30min Filter Cake (in) MBT (lb/bbl) Jesse Blanchard, Drilling Manager Lime (lb/bbl) Pm (mL/mL) Pf (mL/mL) Calcium (mg/L) Potassium (mg/L) Polymer (lb/gal) 7.8 1, IDECO, MM-550 ump Number | Pump Rating (hp) | Rod Diameter (in) Chlorides (mg/L) Sand (%) Solids (%) Percent Oil (%) Percent Water (%) LG Solids (%) Flectric Stab (V) 550.0 2.5197 Liner Size (in) Stroke (in) V/Stk (bbl/stk) Drill Strings: BHA #10, Packed Hole 5 15.00 0.105IADC Bit Dull TFA (incl Noz) (in ROP (ft/ht Nozzles (/32") 8 8 3/4in, F35, MJ3100 5-6-FC-A-2-0-NO-PR 0.59 18.7 16/16/16 2, IDECO, MM-550 Len (ft) Max OD (in) Pump Rating (hp) |Rod Diameter (in) Smith F35, Reamer - 3 Pt, Stabilizer, Short Drill Collar, Stabilizer, NMDC, Stabilizer, 5324.80 6.750 2 550.0 2.5197 Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe Liner Size (in) V/Stk (bbl/stk) Stroke (in) 5 15.00 0.105 **Drilling Parameters: 650.0ftKB BHA No** Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) **BOPs** 10 4,675.0 5,325.0 694.0 22.00 30.50 29.5 Nom Sz WOB (1000lbf) RPM (rpm) SPP (psi) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) P(wkg) (psi) **Drilling Torque** Туре 35 60 240.0 Annular Preventers 13 5/8 1,500.0 Annular Preventers 11 1,500.0 Wellbores Wellbore Name VS Dir (\*) KO MD (ftKB) **Mud Additive Amounts** Main Hole 300.0 90.00 Description Consumed Daily Cost (\$) BAROID USA MUD 1.0 35 Directional Surveys: SINGLE SHOT **ENG LIVING** Survey Company **ALLOWANCE** SINGLE SHOT Patterson Crew Survey Data BARIOD USA MUD 1.0 200 CHECK MD (ftKB) TVD (ftKB) NS (ft) DLS (\*/100ft) 4,795.00 2.75 336.00 4,793.06 111.22 -20.93 -20.93 0.21 BAROID USA 3.0 139 5,077.00 2.50 333.00 5,074.76 122.88 -26.48 -26.48 0.10 EZ-MUD **BAROID USA** 19.0 1,520 BARACAT **BAROID USA** 138.0 1,987 DIAMONIAM PHOSPHATE Formation Pick Groups: Drilling Sam... Formation Picks Group **Drilling Sample** Top (ftKB) Emery 4,280.0 Mancos 3,073.0 Star Point 2,700.0 Blackhawk 1,700.0 Castlegate 1,467.0 Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft) 11/26/2002 9 5/8 J-55 36.00

Report Printed: 12/4/2002

Well Name: FORTUNA MIDDLE MUNTAIN #21-16 OF THE PROPERTY 12/2/20

Job Type: Drilling - original

Page 1/2 D 12/2/2002, Report: 36.0, DFS: 36.00

Spud Da	nte 0/28/2002	Rig Rele	ase Date	KB Elevation (fi 8672		Ground Elevation (fi 8655.00		nd Distance (ft) 17.00
Daily 8	Summary							
Weather			Road	Condition		Hole Cond	dition	
Clear			Dry			Good		
Operatio	ns at Report T	ime		*****				
06:00	hrs Dec 03	, Drill ahead	@ 5765					
	ns This Repor		· · · · · · · · · · · · · · · · · · ·					
		Emery form	ation.					
	ns Next Repor							
Orill at	nead to 2nd	l intermeadia	ite.					
Time t	oa							
	te End Time	Dur (hrs)   Co	de	Activity			Comment	
00:00	15:30	15.50 02	Drilling			Drill ahead F	Pit making wat	er Ston
		Ė					s to pump flui	
		i					on the hole. Ci	
							out half return	
	1					minutes then	disapeared ag	gain.
E-20	46.00	0.50.07				ļ <u></u>		
5:30	16:00	0.50:07	Rig Sen			<del></del>	nd function an	nular.
6:00	16:30	0.50 10	Rig Sun	/ey		Survey at 5546.		
6:30	00:00	7.50 02	Drilling			Drilling ahead	Drilling ahead.	
orill S	trinas: BH	A #10, Pack	ed Hole			132.1300		
it Ru(Bi		, , , , , , , , , , , , , , , , , , ,		Bit Dull	TFA (i	incl Noz) (in² ROP (	ft/hr Nozzles (/32")	
8 8	3/4in, F35,	MJ3100	5-0	6-FC-A-2-0-NO		0.59 18.	_ : : : : : : : : : : : : : : : : : : :	/16/16
en (ft)	Max O		Components					
5324	.80 6	.750 Smi Drill	th F35, Rear Collar, Drillii	ner - 3 Pt, Stab ng Jars - Hydra	oilizer, Short rulic, Drill Co	t Drill Collar, St ollar, Drill Pipe	tabilizer, NMD	C, Stabilizer,
Orilling	g Paramet	ers: 375.0ft/	(B			•		
HA No.			pth End (ftKB)	Cum Depth (ftKB) D	rill Time (hrs)	Cum Drill Time (h	rInt ROP (ft/hr)	Flow Rate (gpm)
10		,325.0	5,700.0	1,069.0	23.00	53.50	16.3	
VOB (10					HL (1000lbf)	SO HL (1000lbf)	Drilling Torque	Off Btm Tq
3	5	60	240.0	144	148	144		
Vellbo	ree							
TOHOU	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Wellbore Nam	ne		VS Dir (*)		KO MD (ftKB	
lain H	ole					0.00		300.0
				<u>-</u>				
PIFECTION OF SCRIP		eys: SINGLE	SHOT					
	E SHOT					Survey Con		1
						Patterso	n Crew	
urvey		Inel (9)	A (2)	T (0 (4)(D)	110 (0)	511.6	1	
MD (ft	46.00	Incl (*) 2.75	Azm (*)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
5,5	~+U.UU:	2.15	331.00	5,543.27	141.83	-36.57	-36.57	0.06

Cum. Cost To Date
Mud Additive Cost To Date
Depth End (ftKB)
5,700.0
Drilling Time (hrs)
23.00

Ops Super	visors
	Contact
Arnie Hama	rsnes, Drilling Engineer
Rod Cuthill,	Drilling Foreman
Mel Knezev	ich, Drilling Foreman
Mark Moenr	nich, Drilling Sup't
Randy Hack	ford, Tool Pusher
Bill Hedglin,	Geologist

igs: Bill Martin Jr., 3
g Supervisor hn Day, Tool Pusher

# igs: Patterson U.T.I, 104 Supervisor

sse Blanchard, Drilling Manager

Pump Number	Pump Rating (hp)	Rod Diameter (in)
1	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	0.105

### IDECO, MM-550

Pump Number	Pump Rating (hp)	Rod Diameter (in)	
2	550.0	2.5197	
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)	
5	15.00	0.105	

### )Ps

Туре	Nom Sz (in)	P(wkg) (psi)
Annular Preventers		1,500.0
Annular Preventers	11	1,500.0

Mud Additive Amounts				
Description	Consumed	Daily Cost (\$)		
BAROID USA MUD ENG LIVING ALLOWANCE	1.0	35		
BAROID USA PAC-R	1.0	109		
BARIOD USA MUD CHECK	1.0	200		
BAROID USA DESCO CHROME FREE	2.0	87		
BAROID USA EZ-MUD	3.0	139		
BAROID USA DIAMONIAM PHOSPHATE	42.0	605		
BAROID USA BARACAT	3.0	240		

### Formation Pick Groups: Drilling Sam...

Formation Picks Group Drilling Sample

Drining Cample			
Name	Top (ftKB)		
Bluegate	5,672.0		
Emery	4,280.0		
Mancos	3,073.0		
Star Point	2,700.0		

ا الماد الماد | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page 2/2 | Page Job Type: Drilling - original KB Elevation (ft) Rig Release Date KB-Ground Distance (ft) Ground Elevation (ft) Top (ftKB) 10/28/2002 8672.00 8655.00 17.00 Blackhawk 1,700.0 Daily Summary Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade Wt ( Wt (lbs/ft) 11/26/2002 9 5/8 36.00

I alir nan Energy Canada - Daily Drillir Report

Page 1/2

Well Name: FORTUNA MIDDLE MAIN #21-16 12/3/2002, Report: 37.0, DFS: 37.00 Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) KB-Ground Distance (ft) Ground Elevation (ft) AFE No Total AFE Amt (\$) 10/28/2002 8672.00 8655.00 17.00 37511 Daily Summary Daily Cost Total Cum. Cost To Date Weathe Road Condition Hole Condition Clear Dry **Daily Mud Cost** Mud Additive Cost To Date Good Operations at Report Time 06:00 hrs Dec 04, drill ahead @ 6300 ft. Depth Start (ftKB) Depth End (ftKB) Operations This Report Period 5,700.0 6,085.0 Drill ahead. Trip bit. Drill ahead. Depth Progress (ftKB) Drilling Time (hrs) 385.0 Operations Next Report Period 24.25 Drill ahead. Ops Supervisors Time Log Start Date End Time Dur (hrs) Activity Arnie Hamarsnes, Drilling Engineer Comment 07:30 00:00 7.50 02 Drilling Drill ahead. Formation change to Mel Knezevich, Drilling Foreman Bluegate. Shale is too soft for F35. Rod Cuthill, Drilling Foreman 07:30 12:45 5.25 06 Tripping Trip bit. Function blind rams. Trip in. Mark Moennich, Drilling Sup't 12:45 20:00 7.25 02 Drilling Drill ahead with GT-S20 Randy Hackford, Tool Pusher 20:00 21:45 1.75 05 Condition and/or Circulate mud Pit was full. Pump down pit starting at Bill Hedglin, Geologist 16:15 hrs. No returns to 20:00 hrs. Hole became tight. Work hole, increase air, Rigs: Bill Martin Jr., 3 and add soap to unload hole. Hole Rig Superviso unloaded and was no longer tight. Install John Day, Tool Pusher 24 mesh screens and we are getting some fair samples. Rigs: Patterson U.T.I, 104 Rig Superviso 21:45 00:00 2.25 02 Drilling Drill ahead. Small drilling rate increase at Jesse Blanchard, Drilling Manager 5996 ft. Coal until 6016 ft. Possibly 1, IDECO, MM-550 faulted into the Ferron. Pump Number | Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 Drill Strings: BHA #10, Packed Hole Bit Ru Bit IADC Bit Dull TFA (incl Noz) (in ROP (ft/hr Nozzles (/32") Liner Size (in) Stroke (in) V/Stk (bbl/stk) 8 8 3/4in, F35, MJ3100 5-6-FC-A-2-0-NO-PR 0.59 18.7 16/16/16 5 15.00 0.105 Len (ft) Max OD (in) 2, IDECO, MM-550 5324.80 6.750 Smith F35, Reamer - 3 Pt, Stabilizer, Short Drill Collar, Stabilizer, NMDC, Stabilizer, Pump Number Pump Rating (hp) od Diameter (in) Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe 2 550.0 2.5197 Drilling Parameters: 65.0ftKB Liner Size (in) Stroke (in) V/Stk (bbl/stk) BHA No. Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) 15.00 0.105 10 5,700.0 5.765.0 1 134 0 7.25 60.75 9.0 **BOPs** WOB (1000lbf) SPP (psi) RPM (rpm) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) Off Btm Tq **Drilling Torque** 35 60 Nom Sz 240.0 145 150 145 Type (in) P(wkg) (psi) Drill Strings: BHA #11, Packed Hole Annular Preventers 13 5/8 1,500.0 Bit Rui Bit IADC Bit Dull TFA (incl Noz) (in2 ROP (ft/hr Nozzles (/32") Annular Preventers 11: 1,500.0 9 8 3/4in, GT-20S , 5021367 0.59 18.8 16/16/16 **Mud Additive Amounts** Len (ft) Max OD (in) String Components 5324.80 6.750 Hughes GT-20S , Reamer - 3 Pt, Stabilizer, Short Drill Collar, Stabilizer, NMDC, Description Consumed Daily Cost (\$) BAROID USA MUD 1.0 35 Stabilizer, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe **ENG LIVING** Drilling Parameters: 320.0ftKB ALLOWANCE BHA No Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) **BARIOD USA MUD** 1.0 200 6,085.0 11 5,765.0 320.0 17.00 17.00 18.8 CHECK WOB (1000lbf) RPM (rpm) SPP (psi) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) **Drilling Torque** Off Btm Tq BAROID USA 40 80 1.0 115 147 152 145 BARA DEFOAM Wellbores **BAROID USA** 4.0 186 Wellbore Name VS Dir (\*) KO MD (ftKB) **EZ-MUD** Main Hole 90.00 300.0 **BAROID USA** 320 4.0 Directional Surveys: SINGLE SHOT BARACAT Survey Company **BAROID USA** SINGLE SHOT 150.0 2,160 Patterson Crew DIAMONIAM **Survey Data** PHOSPHATE MD (ftKB) Azm (\* TVD (ftKB) NS (ft) DLS (\*/100ft) 6.030.00 2.50 343.00 6,026.77 162.08 45.29 45.29 0.12 Formation Pick Groups: Drilling Sam... **Drilling Sample** Top (ftKB) Bluegate 5,672.0 Emery 4,280.0 Mancos 3,073.0

2,700.0

1,700.0

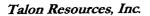
Star Point

Blackhawk

Talir nan Energy Canada - Daily Drillir Report Page 2/2
Well Name: FORTUNA MIDDLE M. JNTAIN #21-16 Dat. 11/30/2002 Report: 34.0, DFS: 34.00
Job Type: Drilling - original

Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) Intermediate Casing, 4,413.0ftKB
Casing Run Date Max OD (in) Grade Wt (lbs/fit 10/28/2002 8655.00 17.00 8672.00 Wt (lbs/ft) **Daily Summary** J-55 11/26/2002 9 5/8 36.00 Report Printed: 12/4/2002





Service, Quality and Accuracy

P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-687-5311 Email: talon@etv.net

December 13, 2002

RECEIVED

DIV. OF OIL, GAS & MINING

Mr. Eric Jones
Petroleum Engineer
Bureau of Land Management
82 East Dogwood
Moab, Utah 84532

RE: Sundry Notice (Weekly Drilling Reports)—Fortuna (US), Inc.

Middle Mountain #21-16—1,309' FSL, 834' FEL
Section 21, T16S, R6E, SLB&M, Emery County, Utah

43-015-30436

Dear Mr. Jones:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the *Sundry Notices* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed application. Please feel free to contact myself or Mr. Mel Knezevich of Fortuna (US), Inc. at 1-780-402-1296 if you have any questions or need additional information.

Sincerely,

Don Hamilton
Don Hamilton
Agent for Fortuna (US), Inc.

Enclosures

cc: Mr. Mike Kaminski, BLM—Price Field Office Mr. Carter Reed, USDA Forest Service—Price SO Mr. Tom Lloyd, USDA Forest Service—Ferron DO Mrs. Diana Mason, Division of Oil, Gas and Mining Mr. Arne Hamarsnes, Fortuna (US), Inc. Mr. Mark Moenich, Fortuna (US), Inc. (June 1990)

1309' FSL, 834' FEL

SE/4 SE/4, Section 21, T16S, R6E, SLB&M

### D STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-013:
Expires: March 31, 1993

5.	Lease Designation and Serial No.
	UTU-77263

SUNDRY NOTICES AND REPORTS ON WELLS		
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.		
Use "APPLICATION FOR PERMIT—" for such proposals		

	N/A
7.	If Unit or CA, Agreement Designation
	N/A

If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE		
1. Type of Well	CONFIDENTIAL	
2. Name of Operator Fortuna (US), Inc.		
3. Address and Telephone No. Suite 3400, 888 3rd Street SW,	Calgary, Alberta T2P5C5 403-237-1163	
4. Location of Well (Footage, Sec., T., R:, M., or Survey	Description)	

Well Name and No. Middle Mountain #21-16

API Well No. 43-015-30426

10. Field and Pool, or Exploratory Area Wildcat

11. County or Parish, State

Emery County, Utah

					AR ATHER RATA
_	CHECK APPROPRIATE BOX(s)	TO INDICATE MATIBE	MATERIA		()R())HERIJALA
7	CHPUR APPRUPRIATE DUAISI	IUINDICALENATURE	OI NO NOL	IXE! OIX!	,
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TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent  Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Weekly Drilling Reports	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water

Attached are the weekly drilling reports for the Middle Mountain #21-16 well

**RECEIVED** 

DEC 1 6 2832

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct				
Signed Don Hamilton Don	Hamilton Title Agent for Fortuna US	C	Date	December 13, 2002
(This space for Federal or State office	use)			
Approved byConditions of approval, if any:	Title	Date		

<sup>13.</sup> Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Talisman Energy Canada - Daily Drilling Report

Page 1/2

Well Name: FORTUNA MIDDLE N NTAIN #21-16

12/4/2002, Report: 38.0, DFS: 38.00

Job Type: Drilling - original

	/28/2002		Release [	Jaco	KB Elevation (i		Ground	Elevation (f 8655.00	* :	und Distance (ft) 17.00
Dally S	ummary							2230.00		
Veather				Road	Condition			Hole Cond	dition	
Clear			Dry				Water floods/loss cir			
perations	at Report Tim						77467 1100071033 0110			
06:00 hi	rs Dec 05, o	drill ah	ead at 6	950			$\sim$	C 8 0 0000 c		
Drill ahe	This Report Pead. Pump	water	away. D	rill ahead	l.				DENTI	4!
•	ead. Fight w									V 0.000
Time Lo	DG End Time   D	ur (hre)	Code	7	Activity				Comment	
00:00	01:00	1.00		Rig Sur			Sur	vev Start	with this repo	ort to Don
					,				week of Dec	
01:00	12:00	11.00	02	Drilling			Dril	l ahead.		
12:00	13:00	1.00	L	,	on and/or Circu	ılate mud	L		ole tight stop	drilling and
	,			Condition and/or Circulate mud		unk	No returns, hole tight, stop drilling and unload hole. Lots of coal. Water everywhere.			
13:00	14:45	1.75	02	Drilling				Drilling ahead. hole unloading . Hole is		
								not tight.		
	15:15	0.50		Rig Sur				vey at 65		
15:15	15:45	0.50		Rig Ser	vice				set brakes.	
15:45	20:00	4.25	02	Drilling			mal	Drill ahead. Circulate 5 minutes prior to making connections, work pipe to check tight hole on each connection.		
20:00	23:30	3.50	05	Condition and/or Circulate mud				Pit is full stop drilling, flood the hole and pump water away.		
23:30	00:00	0.50	02	Drilling			Drill ahead and unload the hole. Water everywhere.			
Drill Str	inas: BHA	#11. F	Packed	Hole						
	ings: BHA	#11, F	Packed		Bit Dull	TFA (	(incl No:	z) (in² ROP (	ft/hr Nozzles (/32")	
3it Rui Bit 9 83	/4in, GT-20	)S , 5(	021367	IADC 1-	Bit Dull 1-NO-A-1-0-N(		(incl No: 0.59	z) (in² ROP ( 31.		6/16/16
3it Rui Bit 9 83	/4in, GT-20 Max OD	)S , 5(	021367 String Coi Hughes	IADC 1- inponents GT-20S		D-HP Pt, Stabilize	0.59 er, Sh	31. ort Drill C	7 16 ollar, Stabilize	5/16/16 r, NMDC,
Bit Ru(Bit 9 8 3 en (ft) 7082.8	Max OD 6.7	)S , 50 (in) 50	021367 String Coi Hughes Stabiliz	IADC 1- inponents GT-20S	1-NO-A-1-0-N0 , Reamer - 3	D-HP Pt, Stabilize	0.59 er, Sh	31. ort Drill C	7 16 ollar, Stabilize	5/16/16 r, NMDC,
Bit RufBit 9 8 3 en (ft) 7082.8	Max OD 6.7 Parameter	)S , 5( (in) 50 rs: 705	021367 String Coi Hughes Stabiliz	iADC 1- inponents is GT-20S er, Drill C	1-NO-A-1-0-NO , Reamer - 3 collar, Drilling J	O-HP Pt, Stabilize Jars - Hydra	0.59 er, Sho ulic, D	31. ort Drill C Drill Collar	7 16 ollar, Stabilize , Drill Pipe, Ke	s/16/16 r, NMDC, elly
Bit RufBit 9 8 3 en (ft) 7082.8	Max OD 35 6.7 Parameter	)S , 5( (in) 50 rs: 705	021367 String Cor Hughes Stabiliz 5.0ftKB	iADC 1- inponents is GT-20S er, Drill C	1-NO-A-1-0-N0 , Reamer - 3	O-HP Pt, Stabilize Jars - Hydra	0.59 er, Sho ulic, D	31. ort Drill C Drill Collar	7 16 ollar, Stabilize	s/16/16 r, NMDC, elly
9 8 3 .en (ft) 7082.8  Drilling BHA No. 11  WOB (1000	Max OD 6.7  Parameter   Depth 6 6,6   Olbr)   RPM (ii	OS , 50 (in) 550 rs: 705 Start (ftK O85.0	021367 String Coi Hughes Stabiliz 5.0ftKB (B) Depth (	iADC 1- mponents GT-20S er, Drill C End (ftKB) 790.0 psi) Rol	, Reamer - 3 Collar, Drilling J Cum Depth (fiKB) 1,025.0	Pt, Stabilize Jars - Hydra Prill Time (hrs) 17.50	0.59 er, Sho ulic, C	31. ort Drill C Drill Collar Drill Time (H 34.50 (1000lbf)	7 16  ollar, Stabilize , Drill Pipe, Ke	s/16/16 r, NMDC, elly
3it RuiBit 9 8 3 .en (ft) 7082.8 Drilling BHA No.	Max OD 6.7  Parameter   Depth 6 6,6   Olbr)   RPM (ii	OS , 56 (in) 50 <b>s: 705</b> Start (ftK 085.0	021367 String Coi Hughes Stabiliz 5.0ftKB (B) Depth (	IADC 1- mponents is GT-20S er, Drill C	, Reamer - 3 Collar, Drilling J	Pt, Stabilize Jars - Hydra Prill Time (hrs) 17.50	0.59 er, Sho ulic, C	31. ort Drill C Drill Collar Drill Time (h 34.50	7 16  ollar, Stabilize , Drill Pipe, Ke	7/16/16  If, NMDC, Elly  Flow Rate (gpm)
9 8 3 .en (ft) 7082.8  Drilling BHA No. 11  WOB (1000	Max OD 6.7  Parameter   Depth 6 6,0	OS , 50 (in) 550 rs: 705 Start (ftK O85.0	021367 String Coi Hughes Stabiliz 5.0ftKB (B) Depth (	iADC 1- mponents GT-20S er, Drill C End (ftKB) 790.0 psi) Rol	, Reamer - 3 Collar, Drilling J Cum Depth (fiKB) 1,025.0	Pt, Stabilize Jars - Hydra Prill Time (hrs) 17.50	0.59 er, Sho ulic, C	31. ort Drill C Drill Collar Drill Time (H 34.50 (1000lbf)	7 16  ollar, Stabilize , Drill Pipe, Ke	o/16/16 or, NMDC, elly Flow Rate (gpm)
9 8 3 en (ft) 7082.8  Drilling 3HA No. 11  WOB (1000 40  Wellbor	Max OD 6.7  Parameter Depth 6,0  Olbh RPM (i	OS , 50 (in) 550 rs: 705 Start (ftK O85.0	021367 String Col Hughes Stabiliz 5.0ftKB B) Depth ( 6,7 SPP (	iADC 1- mponents GT-20S er, Drill C End (ftKB) 790.0 psi) Rol	, Reamer - 3 Collar, Drilling J Cum Depth (fiKB) 1,025.0	O-HP Pt, Stabilize lars - Hydra Drill Time (hrs) 17.50 HL (1000lbf) 152  VS Dir (*)	0.59 er, Sheulic, D	31. ort Drill C Drill Collar Drill Time (H 34.50 (1000lbf)	7 16  ollar, Stabilize , Drill Pipe, Ke	of 16/16  If, NMDC, selly  Flow Rate (gpm)  Off Btm Tq
9 8 3 en (ft) 7082.8  Drilling 3HA No. 11  WOB (1000 40  Wellbor	Max OD 6.7  Parameter Depth 6,0  Olbh RPM (i	OS , 50 (in) 50 Start (ftK OS5.0 rpm) 80	021367 String Col Hughes Stabiliz 5.0ftKB B) Depth ( 6,7 SPP (	iADC 1- mponents GT-20S er, Drill C End (ftKB) 790.0 psi) Rol	, Reamer - 3 Collar, Drilling J Cum Depth (fiKB) 1,025.0	O-HP Pt, Stabilize lars - Hydra Drill Time (hrs) 17.50 HL (1000lbf) 152  VS Dir (*)	0.59 er, Sho ulic, C	31. ort Drill C Drill Collar Drill Time (H 34.50 (1000lbf)	7 16  Ollar, Stabilize , Drill Pipe, Ke  Interpretation of the control of the con	of 16/16  If, NMDC, selly  Flow Rate (gpm)  Off Btm Tq
Bit Rui Bit 9   8 3 .en (ft) 7082.8  Drilling 3HA No. 11  WOB (1000 40  Wellbor Main Ho Directio	Max OD 6.7  Parameter Depth 6,0 RPM (0) RPM (0) Res	OS , 50 (in) 50 Start (fit (085.0 rpm) 80	D21367 String Col Hughes Stabiliz  5.0ftKB (B) Depth (6,7) SPP (35)	iADC 1- mponents s GT-20S er, Drill C End (fiKB) 790.0 psi) Rot	, Reamer - 3 Collar, Drilling J Cum Depth (fiKB) 1,025.0	O-HP Pt, Stabilize lars - Hydra Drill Time (hrs) 17.50 HL (1000lbf) 152  VS Dir (*)	0.59 er, Sheulic, D	31. ort Drill C Orill Collar Drill Time (h 34.50 (1000lbf)	7 16  ollar, Stabilize , Drill Pipe, Ke  dint ROP (ft/hr) 40.3  Drilling Torque	of 16/16  If, NMDC, selly  Flow Rate (gpm)  Off Btm Tq
9 8 3 en (ft) 7082.8  Prilling BHA No. 11 WOB (1000 40  Wellbor  Main Ho  Directio  Description	Max OD 6.7  Parameter Depth 6.6  RPM (i	OS , 50 (in) 50 Start (fit (085.0 rpm) 80	D21367 String Col Hughes Stabiliz  5.0ftKB (B) Depth (6,7) SPP (35)	iADC 1- mponents s GT-20S er, Drill C End (fiKB) 790.0 psi) Rot	, Reamer - 3 Collar, Drilling J Cum Depth (fiKB) 1,025.0	O-HP Pt, Stabilize lars - Hydra Drill Time (hrs) 17.50 HL (1000lbf) 152  VS Dir (*)	0.59 er, Sheulic, D	31.  ort Drill C Orill Collar  Drill Time (h 34.50 (1000lbf) 145	7 16  Ollar, Stabilize , Drill Pipe, Ke  Int ROP (ft/hr) 40.3  Drilling Torque	of 16/16  If, NMDC, selly  Flow Rate (gpm)  Off Btm Tq
Bit Rui Bit 9 8 3 .en (ft) 7082.8  Drilling BHA No. 11 WOB (1000 40)  Wellbor Main Ho Directio	Max OD 6.7  Parameter Depth 6.6  RPM (i	OS , 50 (in) 50 Start (fit (085.0 rpm) 80	D21367 String Col Hughes Stabiliz  5.0ftKB (B) Depth (6,7) SPP (35)	iADC 1- mponents s GT-20S er, Drill C End (fiKB) 790.0 psi) Rot	, Reamer - 3 Collar, Drilling J Cum Depth (fiKB) 1,025.0	Pt, Stabilize lars - Hydra  Drill Time (hrs) 17.50  HL (1000lbf) 152  VS Dir (*)	0.59 er, Sheulic, D	31. ort Drill C Orill Collar Drill Time (h 34.50 (1000lbf)	7 16  Ollar, Stabilize , Drill Pipe, Ke  Int ROP (ft/hr) 40.3  Drilling Torque	of 16/16  If, NMDC, selly  Flow Rate (gpm)  Off Btm Tq
9 8 3 .en (ft) 7082.8  Drilling 3HA No. 11  WOB (1000 40  Wellbor	Max OD  Max OD  6.7  Parameter Depth 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	OS , 50 (in) 50 Start (fit (085.0 rpm) 80	021367 String Coi Hughes Stabiliz 5.0ftKB B) Depth (6, 35) SPP (35)	iADC 1- mponents s GT-20S er, Drill C End (fiKB) 790.0 psi) Rot	, Reamer - 3 Collar, Drilling J Cum Depth (fiKB) 1,025.0	Pt, Stabilize lars - Hydra  Drill Time (hrs) 17.50  HL (1000lbf) 152  VS Dir (*)	O.59 er, Sheulic, D Cum SO HL	31.  ort Drill C Orill Collar  Drill Time (h 34.50 (1000lbf) 145	7 16  Ollar, Stabilize , Drill Pipe, Ke  Int ROP (ft/hr) 40.3  Drilling Torque	in, NMDC, selly  Flow Rate (gpm)  Off 8tm Tq

AFE No.	Total AFE Amt (\$)		
37511			
Daily Cost Total	Cum. Cost To Date		
Daily Mud Cost	Mud Additive Cost To Date		
Depth Start (ftKB)	Depth End (ftKB)		
6,085.0	6,790.0		
Depth Progress (ftKB)	Drilling Time (hrs)		
705.0	17.50		

### Ops Supervisors Contact Arnie Hamarsnes, Drilling Engineer Rod Cuthill, Drilling Foreman Mel Knezevich, Drilling Foreman Mark Moennich, Drilling Sup't

Randy Hackford, Tool Pusher Bill Hedglin, Geologist

## Rigs: Bill Martin Jr., 3 John Day, Tool Pusher

# Rigs: Patterson U.T.I, 104

Jesse Blanchard, Drilling <mark>Mana</mark>ger

Pump Number :	Rod Diameter (in	
1	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	0.105

#### 2, IDECO, MM-550 oump Number Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 iner Size (in) Stroke (in) V/Stk (bbl/stk) 5 15.00 0.105

#### **BOPs** Type (in) P(wkg) (psi) Annular Preventers 13 5/8 1,500.0 Annular Preventers 11 1,500.0

Mud Additive Amounts				
Description	Consumed	Daity Cost (\$)		
BAROID USA ALUMINIUM STEARATE	1.0	51		
BAROID USA MUD ENG LIVING ALLOWANCE	1.0	35		
BARIOD USA MUD CHECK	1.0	200		
BAROID USA BARA DEFOAM	3.0	345		
BAROID USA SODA ASH	4.0	30		
BAROID USA EZ-MUD	4.0	186		
BAROID USA BARACAT	7.0	560		
BAROID USA DIAMONIAM PHOSPHATE	236.0	3,398		

### Formation Pick Groups: Drilling Sam... Formation Picks Group Drilling Sample

Uning Sample				
Name	Top (ftKB)			
Bluegate	5,672.0			
Emery	4,280.0			

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I alisman Energy Canada - Daily Drilling Report Page 2/2
Well Name: FORTUNA MIDDLE I JNTAIN #21-16 E: 12/4/2002, Report: 38.0, DFS: 38.00
Job Type: Drilling - original

Spud Date	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Name	Top (ftKB)
10/28/2002 Daily Summary		8672.00	8655.00	17.00	Mancos	3,073
any Summary					Star Point Blackhawk	2,700 1,700
					Intermediate Casing, Casing Run Date Max OD (in)	<b>4,413.0ftKB</b> Grade Wt (lbs/ft)
					11/26/2002 9 5/8	J-55 36.00

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D 12/5/2002, Report: 39.0, DFS: 39.00

	28/2002	<u> </u>		Date	KB Eleva	8672.00	Ground Elevation 8655.0		ound Distance (ft) 17.00	AFE No.	511	Total AFE A	(+/
	ımmary									Daily Cost To	tel	Cum. Cost 1	o Date
Weather Clear				Ros	d Condition		Hole Co	ndition floods/loss cir	rc/tiabt	Daily Mud Co	st	Mud Additive	e Cost To Da
Operations							- TVater		Cugin				
06:00 hrs		6, ream t	o bottor	n @ 680	00 ft.					Depth Start (ft		Depth End (	<del>п</del> кв) 073.0
			irc. Drill	ahead.	Back ream	300 ft. Trip o	ut and lay down	packed assem	nbly. Run in to	Depth Progres	ss (ftKB)	Drilling Time	(hrs)
the shoe	open e	nded. Mi								283	3.0	6	5.75
Operations Heal loss		ort Period for asse	mbly an	d drill al	head				TIMI	Ops Supe			
Time Lo	•		, <b>,</b>					+++++++++++++++++++++++++++++++++++++++	11/12	Arnie Ham		<sub>ntact</sub> rillina Engi	neer
Start Date	End Time	Dur (hrs)			Activ		L	Comment		Rod Cuthil			
00:00	02:45	2.75	05	Condi	tion and/or (	Circulate mud		rve pit down. w d causes tight t drilling.		Mel Kneze Mark Moer Don Helms	nnich, Drill	ing Sup't	an
02:45	09:30	6.75	02	Drilling	)		due to aera	ted water circu	rmation is poor ulating. Hole either. Mud up	Roger Bro			
							decision ma	ade.		Rigs: Bill		, 3	
i_	11:30	2.00		Ream				300 ft of tight h		Rig Supervisor John Day,		er	
	15:30 16:30	4.00 1.00	<del></del>	Trippir Trippir		***************************************		d lay down pac n ended to the					
	00:00	7.50	1			Circulate mud	Mix and pur Hole filled u	mp LCM slugs ip with 500 bbl	to fill the hole. s of fluid. It	Rigs: Patt Rig Supervisor Jesse Blan	Г		ger
			: !				Pressured (	540 bbls if it was to 200 psi of owly. LCM cor	n the annulas.	1, IDECO, Pump Number 1			iameter (in) 2.5197
orill Stri	inas: Bł	IA #11, I	Packed	Hole						Liner Size (in)	Stroke (ii		tk (bbl/stk)
it Rui Bit				IAD	C Bit Dull		A (incl Noz) (in² ROF			5		.00	0.105
9   8 3/ en (ft)		-20S , 50 OD (in)		mponents	-1-NO-A-1-	U-NU-HP	0.59 3	1.7 1	6/16/16	Pump Che	cks	Strokes	т
7082.8	5 6	5.750	Hughar	OT 20	C D								
		J. 7 3 0					izer, Short Drill raulic, Drill Colla	Collar, Stabiliza ar, Drill Pipe, K		P (psi) 1,200.0	No	(strokes/min) 50	9
		ters: 283	Stabiliz 3.0ftKB	er, Drill	Collar, Drilli	ing Jars - Hyd	raulic, Drill Colla	ar, Drill Pipe, K	(elly	1,200.0 290.0	No No	· · · · · · · · · · · · · · · · · · ·	9
HA No. 11	Dep	ters: 283 oth Start (ftk 6,790.0	Stabiliz B.OftKB	er, Drill End (ftKB) 073.0	Cum Depth (ft 1,308.0	KB) Drill Time (hr 6.75	raulic, Drill Colla s) Cum Drill Time 41.25	(hr Int ROP (ft/hr) 41.9	Flow Rate (gpm)	1,200.0 290.0 <b>2, IDECO,</b> Pump Number	No No MM-550 Pump Rating	50 26 (hp) Rod Di	9 9 ameter (in)
HA No. 11 /OB (1000)	Dep	ters: 283 oth Start (ftk 6,790.0 M (rpm)	Stabiliz B. OftKB B) Depth 7,	er, Drill End (ftKB) 073.0 (psi)	Cum Depth (ft 1,308.0 tot HL (1000lbf)	KB) Drill Time (hr 6.75	s) Cum Drill Time 41.25 SO HL (1000lbf)	(hr Int ROP (ft/hr) 41.9	(elly	1,200.0 290.0 2, IDECO, Pump Number 2	No No MM-550 Pump Rating 550.0	50 26 (hp) Rod Di	9 9 ameter (in) 2.5197
HA No. 11 /OB (1000) 40	Dep	ters: 283 oth Start (ftk 6,790.0 M (rpm) 80	Stabiliz  3.0ftKB (B) Depth 7,   SPP (	End (ftKB) 073.0 (psi) R	Cum Depth (ft 1,308.0	KB) Drill Time (hr 6.75	raulic, Drill Colla s) Cum Drill Time 41.25	(hr Int ROP (ft/hr) 41.9	Flow Rate (gpm)	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in)	No No MM-550 Pump Rating 550.0	50 26 0 (hp) Rod Di	9 9 ameter (in) 2.5197 tk (bbl/stk)
HA No. 11 /OB (1000) 40 Prill Strie t Ru(Bit	Dep Ibf) RP	ters: 283 oth Start (ftk 6,790.0 M (rpm) 80	Stabiliz  3.0ftKB (B) Depth 7,   SPP (	End (ftKB) 073.0 (psi) R 50.0	Cum Depth (ft 1,308.0 tot HL (1000lbf)	ing Jars - Hyd  IKB) Drill Time (hr 6.75  IPU HL (1000lbf) 152	s) Cum Drill Time 41.25 SO HL (1000lbf)	ar, Drill Pipe, K (hr/int ROP (ft/hr) 41.9 Drilling Torque	Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5	No No No MM-550 Pump Rating 550.0 Stroke (in	50 26 0 (hp) Rod Di	9 9 ameter (in) 2.5197
HA No. 11 VOB (1000) 40 Orill Strii it Ru(Bit PRR   8 3/	ngs: Bh	ters: 283 oth Start (filk 6,790.0 M (rpm) 80 1A #12, F	Stabiliz  3.0ftKB (B) Depth 7, SPP (35)  Packed	End (ftKB) 073.0 (psi) 50.0  Hole	Cum Depth (ft 1,308.0 ot HL (1000lbf)	ing Jars - Hyd  IKB) Drill Time (hr 6.75  IPU HL (1000lbf) 152	s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in* ROF	(hr/int ROP (ft/hr) 41.9 Drilling Torque	Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5	No No MM-550 Pump Rating 550.0 Stroke (ir 15.	50 26 (hp) Rod Di 2 (h) V/Si 00	99 ameter (in) 2.5197 tk (bbl/stk) 0.105
HA No. 11 VOB (1000) 40 <b>Drill Stri</b> l it Ru/Bit PRR :8 3/-	ngs: Bh	ters: 283 oth Start (filk 6,790.0 M (rpm) 80 1A #12, F	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 35  Packed 021367 String Col Hughes	End (ftKB) 073.0 (psi) 50.0  Hole  IADo	Collar, Drilli Cum Depth (ft 1,308.0 tot HL (1000lbf) 147 C Bit Dull S , Reamer	ing Jars - Hyd  iKB) Drill Time (hr 6.75 iPU HL (1000lbl 152  TF	s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in* ROF	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32* 4.5 10 Collar, Stabilize	Flow Rate (gpm) Off Btm Tq ') 6/16/16 er, NMDC,	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5	No No MM-550 Pump Rating 550.0 Stroke (ir 15.	50 26 (hp) Rod Di 2 (h) V/Si	9 9 ameter (in) 2.5197 tk (bbl/stk) 0.105
HA No.  11  /OB (1000) 40  Drill Strin it Ru/Bit iRR 8 3/4 en (ft) 7300.03	ngs: Bh  /4in, GT-  /4an, GT-  /4an, GT-	ters: 283 th Start (fitk 6,790.0 M (rpm) 80 HA #12, F 20S , 50 DD (in) 6,750 ters: 0.00	Stabiliz  3.0ftKB (B) Depth 7, SPP (38  Packed 021367 String Coi Hughes Stabiliz ftKB	End (ftKB) 073.0 (psi) R 50.0 Hole IAD mponents s GT-20 er, Drill	Collar, Drilli  Cum Depth (ft 1,308.0 ot HL (1000lbf) 147  C Bit Dull  S , Reamer Collar, Drilli	ing Jars - Hyd  KB) Drill Time (hr 6.75 PU HL (1000lbi 152  TF - r - 3 Pt, Stabil ng Jars - Hyd	s)   Cum Drill Colla 41.25 )   SO HL (1000lbf) 145 A (incl Noz) (in <sup>2</sup> ROF 0.59   14 (izer, Short Drill Colla	(hr/int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr/Nozzles (/32* 4.5 10 Collar, Stabilize	Flow Rate (gpm) Off Btm Tq ') 6/16/16 er, NMDC,	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0	No No MM-550 Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No	50 26 ((hp) Rod Di 2 (a) V/Si 00 Strokes (strokes/min)	9 9 9 ameter (in) 2.5197 tk (bbl/stk) 0.105 Eff (%) 9
HA No. 11 17/08 (1000) 40 Drill Strii it RujBit RR : 8 3/4 en (ft) 7300.03	Deptitof) RP  ngs: BI-  /4in, GT-  /4in, GT-  /4in GT-  Deptitof) RP	ters: 283 th Start (fitk 6,790.0 M (rpm) 80 HA #12, F 20S , 50 DD (in) 6,750 ters: 0.0 th Start (fitk	Stabiliz  3.0ftKB (B) Depth 7, SPP (38  Packed  021367 String Cod Hughes Stabiliz ftKB (B) Depth	End (ftKB) 073.0 (psi)   F 50.0  Hole   IAD mponents s GT-20 er, Drill	Collar, Drilli  Cum Depth (ft 1,308.0 ot HL (1000lbf) 147  C Bit Dull  S , Reamer Collar, Drilli  Cum Depth (ft	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbi 152  TF - r - 3 Pt, Stabil ng Jars - Hyd	s) Cum Drill Colla  s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in <sup>2</sup> ROF 0.59 14  izer, Short Drill Craulic, Drill Colla	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32* 4.5 10 Collar, Stabilize	Flow Rate (gpm) Off Btm Tq ') 6/16/16 er, NMDC,	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs	No No MM-550 Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes	50 26 26 26 26 26 26 26 26 26 26 26 26 26	9 9 9 ameter (in) 2.5197 tk (bbl/stk) 0.105 Eff (%) 9 3
HA No. 11 //OB (1000) 40 //Orill Strin it RulBit RR : 8 3/4 en (ft) 7300.00 //Orilling FHA No. 12	ngs: Bh  4in, GT-  Max (6)  Parameter  Dep	ters: 283 th Start (fitk 6,790.0 M (rpm) 80 HA #12, F 20S , 50 DD (in) 6,750 ters: 0.00	Stabiliz  3.0ftKB (B) Depth 7, SPP (38  Packed  021367 String Cod Hughes Stabiliz ftKB (B) Depth	End (ftKB) 073.0 (psi) F50.0  Hole IAD IAD End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75 PU HL (1000lbi 152  TF - r - 3 Pt, Stabil ng Jars - Hyd	s)   Cum Drill Time	(hr/int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr/Nozzles (/32* 4.5 10 Collar, Stabilize	Flow Rate (gpm) Off Btm Tq ') 6/16/16 er, NMDC,	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs	No No No MM-550 Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes	50 (hp) Rod Di 2 (2 (b) V/Si 00 Strokes (strokes/min) 50 (in) Nom Sz (in)	9 9 ameter (in) 2.5197 tk (bbl/stk) 0.105  Eff (%) 9 3
HA No. 11 70B (1000) 40  Prill Strint RR 8 3/4 Prill RR 9 3/4 Prilling F	ngs: Bh  4in, GT-  Max (6)  Parameter  Dep	ters: 283 th Start (filk 6,790.0 M (rpm) 80 HA #12, F -20S , 56 DD (in) 6,750 ters: 0.0 th Start (filk 7,073.0	Stabiliz  3.0ftKB (B) Depth 7, SPP 38  Packed  021367  String Col Hughes Stabiliz  ftKB (B) Depth 7,(	End (ftKB) 073.0 (psi) F50.0  Hole IAD IAD End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00	s)   Cum Drill Time	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32* 4.5 10 Collar, Stabilize ar, Drill Pipe, K	Flow Rate (gpm) Off Btm Tq ') 6/16/16 er, NMDC, elly Flow Rate (gpm)	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs	No No No MM-550 Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes	50 (hp) Rod Di 2 (2 (b) V/Si 00 (strokes/min) 50 (in) 13 5/8	9 9 ameter (in) 2.5197 tk (bbl/stk) 0.105  Eff (%) 9 3  P(wkg) (ps 3 1,500.
HA No. 11 /OB (1000) 40  Prill Strin t Ru/Bit RR : 8 3/- en (ft) 7300.03  Prilling F HA No. 12 /OB (1000)	ngs: BH  (4in, GT-  Max (6)  Parameter  Dep	ters: 283 th Start (filk 6,790.0 M (rpm) 80 HA #12, F -20S , 56 DD (in) 6,750 ters: 0.0 th Start (filk 7,073.0 M (rpm)	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 38  Packed  021367  String Col Hughes Stabiliz  ftKB (B) Depth ( SPP (	End (ftKB) 073.0 (psi) F50.0  Hole IAD IAD End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00  PU HL (1000lbf	s)   Cum Drill Time	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32' 4.5 10 Collar, Stabilize ar, Drill Pipe, K	Flow Rate (gpm) Off Btm Tq ') 6/16/16 er, NMDC, elly Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs Ty Annular Pre Annular Pre Mud Additi	No No No No No MM-550 Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes veetenters eventers	50 (hp) Rod Di 2 (10) V/Si (10) V/Si (10) Strokes (strokes/min) 50 50 Nom Sz (in) 13 5/8 11	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
HA No. 11 /OB (1000) 40  Prill Strin It RulBit RR : 8 3/- en (ft) 7300.00  Prilling F HA No. 12 /OB (1000)  Velibore	Deposition of the property of	ters: 283 th Start (filk 6,790.0 M (rpm) 80 HA #12, F -20S , 56 DD (in) 6,750 ters: 0.0 th Start (filk 7,073.0	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 38  Packed  021367  String Col Hughes Stabiliz  ftKB (B) Depth ( SPP (	End (ftKB) 073.0 (psi) F50.0  Hole IAD IAD End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00	s)   Cum Drill Time	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32* 4.5 10 Collar, Stabilize ar, Drill Pipe, K	Flow Rate (gpm) Off Btm Tq  0/6/16/16 er, NMDC, elly Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs The Annular President Annula	No No No No MM-550 Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes verters eventers eventers eventers eventers	Strokes (strokes/min)   13 5/8   11   11   12   12   13   14   15   15   15   15   15   15   15	9 9 ameter (in) 2.5197 tk (bbl/stk) 0.105  Eff (%) 9 3 P(wkg) (ps 3 1,500.0 1,500.0
HA No. 11 //OB (1000) 40  Drill Strin it RujBit RR: 8 3/- en (ft) 7300.03  Drilling F HA No. 12 //OB (1000)  Vellbore	Dep RP RP Max (3 6 Parameter Dep RP) RP RP RP RP RP RP RP RP RP RP RP RP RP	ters: 283 ters ters ters ters ters ters ters ters	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 38  Packed  021367 String Coi Hughes Stabiliz ftKB (B) Depth ( 7,( SPP ( SPP	End (ftKB) 073.0 (psi) 50.0  Hole IAD mponents s GT-20 er, Drill End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00  PU HL (1000lbf	raulic, Drill Colla s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in <sup>2</sup> ROF 0.59 14 izer, Short Drill Colla raulic, Drill Colla s) Cum Drill Time 0.00 ) SO HL (1000lbf)	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32' 4.5 10 Collar, Stabilize ar, Drill Pipe, K	Flow Rate (gpm) Off Btm Tq ') 6/16/16 er, NMDC, elly Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs Ty Annular Pre Annular Pre Mud Additi	No No No No No No Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes Ves Eventers Eventers Eventers Eventers Eventers Eventers Eventers	50 (hp) Rod Di 2 (10) V/Si (10) V/Si (10) Strokes (strokes/min) 50 50 Nom Sz (in) 13 5/8 11	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
HA No. 11 rOB (1000) 40 rill Strint RR : 8 3/- rill Strint RR : 8 3/- rilling F HA No. 12 OB (1000) /ellbore lain Hole irection	Depinor RP  Adin, GT  Amax (  Compared Depinor) RP  Bessee  The property of th	ters: 283 th Start (filk 6,790.0 M (rpm) 80 HA #12, F -20S , 56 DD (in) 6,750 ters: 0.0 th Start (filk 7,073.0 M (rpm)	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 38  Packed  021367 String Coi Hughes Stabiliz ftKB (B) Depth ( 7,( SPP ( SPP	End (ftKB) 073.0 (psi) 50.0  Hole IAD mponents s GT-20 er, Drill End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00  PU HL (1000lbf	raulic, Drill Colla s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in² ROF 0.59 14 sizer, Short Drill Colla raulic, Drill Colla s) Cum Drill Time 0.00 ) SO HL (1000lbf)  90.00	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32' 4.5 10 Collar, Stabilize ar, Drill Pipe, K (hr Int ROP (ft/hr) Drilling Torque	Flow Rate (gpm) Off Btm Tq  0/6/16/16 er, NMDC, elly Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs Annular Pre Annular Pre Annular Pre Annular Pre Annular Pre BAROID US QUICK GEI BAROID US FUMARIC A	No No No No No No No Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes venters eventers	Strokes (strokes/min)	9 9 ameter (in) 2.5197 tk (bbl/stk) 0.105  Eff (%) 9 3 P(wkg) (ps 3 1,500.1 1,500.1
HA No. 11 /OB (1000) 40  Prill Strin It RulBit RR: 8 3/- Prill RR: 8 3/- Prilling F HA No. 12 /OB (1000)  Vellbore lain Hole irection escription	Depinor RP  Adin, GT  Amax (  Compared Depinor) RP  Bessee  The property of th	ters: 283 ters ters ters ters ters ters ters ters	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 38  Packed  021367 String Coi Hughes Stabiliz ftKB (B) Depth ( 7,( SPP ( SPP	End (ftKB) 073.0 (psi) 50.0  Hole IAD mponents s GT-20 er, Drill End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00  PU HL (1000lbf	raulic, Drill Colla s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in² ROF 0.59 14 sizer, Short Drill Colla raulic, Drill Colla s) Cum Drill Time 0.00 ) SO HL (1000lbf)  90.00	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32* 4.5 10 Collar, Stabilize ar, Drill Pipe, K (hr Int ROP (ft/hr) Drilling Torque  KO MD (ft/kl	Flow Rate (gpm) Off Btm Tq  0/6/16/16 er, NMDC, elly Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs T) Annular Pre Annular Pre Annular Pre BAROID US GUICK GEI BAROID US FUMARIC / BAROID US SODA ASH	No No No No No No No Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes venters eventers	Strokes (strokes/min)   50   13 5/8   11   11   12   12   12   13   14   14   14   15   15   15   15   15	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
HA No. 11 VOB (1000) 40  Drill Strii it Ru Bit PRR : 8 3/- en (ft) 7300.03  Pilling F HA No. 12 VOB (1000)  Vellbore Main Hole Direction escription	Depinor RP  Adin, GT  Amax (  Compared Depinor) RP  Bessee  The property of th	ters: 283 ters ters ters ters ters ters ters ters	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 38  Packed  021367 String Coi Hughes Stabiliz ftKB (B) Depth ( 7,( SPP ( SPP	End (ftKB) 073.0 (psi) 50.0  Hole IAD mponents s GT-20 er, Drill End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00  PU HL (1000lbf	raulic, Drill Colla s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in² ROF 0.59 14 sizer, Short Drill Colla raulic, Drill Colla s) Cum Drill Time 0.00 ) SO HL (1000lbf)  90.00	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32* 4.5 10 Collar, Stabilize ar, Drill Pipe, K (hr Int ROP (ft/hr) Drilling Torque  KO MD (ft/kl	Flow Rate (gpm) Off Btm Tq  0/6/16/16 er, NMDC, elly Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs The Annular Pre	No No No No No No Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes venters eventers eventers eventers eventers ACID SA L SA ACID SA FA 700	Strokes (strokes/min)   50   50   13 5/8   11   11   12   12   12   12   12   1	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
HA No. 11 VOB (1000) 40  Drill Strii it Ru Bit RR : 8 3/- en (ft) 7300.03  Prilling F HA No. 12 VOB (1000)  Vellbore fain Hole Direction escription	Depinor RP  Adin, GT  Amax (  Compared Depinor) RP  Bessee  The property of th	ters: 283 ters ters ters ters ters ters ters ters	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 38  Packed  021367 String Coi Hughes Stabiliz ftKB (B) Depth ( 7,( SPP ( SPP	End (ftKB) 073.0 (psi) 50.0  Hole IAD mponents s GT-20 er, Drill End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00  PU HL (1000lbf	raulic, Drill Colla s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in² ROF 0.59 14 sizer, Short Drill Colla raulic, Drill Colla s) Cum Drill Time 0.00 ) SO HL (1000lbf)  90.00	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32* 4.5 10 Collar, Stabilize ar, Drill Pipe, K (hr Int ROP (ft/hr) Drilling Torque  KO MD (ft/kl	Flow Rate (gpm) Off Btm Tq  0/6/16/16 er, NMDC, elly Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs The Annular Pre Annular Pre Annular Pre Annular Pre Annular Pre Annular Pre Annular Pre Annular Pre BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US	No No No No No No Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes Ves Ves Ves Ves Ves Ves No SA L SA ACID SA ACID SA SA 700 SA MUD G SA MUD G	Strokes (strokes/min)   50   13 5/8   11   11   12   12   12   13   14   14   14   15   15   15   15   15	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
HA No. 11 VOB (1000) 40 Drill Strii iit RujBit PRR: 8 3/en (ft) 7300.03  Drilling F HA No. 12 VOB (1000)  Vellbore	Depinor RP  Adin, GT  Amax (  Compared Depinor) RP  Bessee  The property of th	ters: 283 ters ters ters ters ters ters ters ters	Stabiliz  3.0ftKB (B) Depth 7, SPP ( 38  Packed  021367 String Coi Hughes Stabiliz ftKB (B) Depth ( 7,( SPP ( SPP	End (ftKB) 073.0 (psi) 50.0  Hole IAD mponents s GT-20 er, Drill End (ftKB) 073.0	Collar, Drilli  Cum Depth (ft 1,308.0 tot HL (1000lbf) 147  C Bit Dull S , Reamer Collar, Drilli  Cum Depth (ft 0.0	ing Jars - Hyd  KB) Drill Time (hr 6.75  PU HL (1000lbf 152  TF - T - 3 Pt, Stabil ng Jars - Hyd  KB) Drill Time (hr 0.00  PU HL (1000lbf	raulic, Drill Colla s) Cum Drill Time 41.25 ) SO HL (1000lbf) 145  A (incl Noz) (in² ROF 0.59 14 sizer, Short Drill Colla raulic, Drill Colla s) Cum Drill Time 0.00 ) SO HL (1000lbf)  90.00	(hr Int ROP (ft/hr) 41.9 Drilling Torque  P (ft/hr Nozzles (/32* 4.5 10 Collar, Stabilize ar, Drill Pipe, K (hr Int ROP (ft/hr) Drilling Torque  KO MD (ft/kl	Flow Rate (gpm) Off Btm Tq  0/6/16/16 er, NMDC, elly Flow Rate (gpm) Off Btm Tq	1,200.0 290.0 2, IDECO, Pump Number 2 Liner Size (in) 5 Pump Che P (psi) 1,200.0 260.0 BOPs Ty Annular Pre Annular Pre Annular Pre Annular Pre BAROID US GUICK GEI BAROID US SODA ASH BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US BAROID US	No No No No No No Pump Rating 550.0 Stroke (ir 15. cks Slow Spd No Yes  vype eventers eventers eventers eventers eventers Eventer	Strokes (strokes/min)   50   50   13 5/8   11   11   12   12   12   12   12   1	9 9 ameter (in) 2.5197 tk (bbl/stk) 0.105  Eff (%) 91 3 P(wkg) (ps 3 1,500.0

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Well Name: FORTUNA MIDDLE N JNTAIN #21-16 D . 12/5/200 . 12/5/2002, Report: 39.0, DFS: 39.00

Job Type: Drilling - original

KB-Ground Distance (ft) Rig Release Date KB Elevation (ft) Ground Elevation (ft) Spud Date 10/28/2002 8672.00 8655.00 17.00 Daily Summary

TRANSPORT BAROID USA MICA 48.0 FINE BAROID USA MICA 48.0 COURSE BAROID USA 48.0 WALNUT MEDIUM BAROID USA 48.0 WALNUT COURSE BAROID USA 50.0 1 JELFLAKE BAROID USA 50.0 BAROID USA 50.0	
BAROID USA MUD TRANSPORT  BAROID USA MICA 48.0 FINE BAROID USA MICA 48.0 COURSE BAROID USA 48.0 WALNUT MEDIUM BAROID USA 48.0 WALNUT COURSE BAROID USA 50.0 JELFLAKE BAROID USA 50.0 BAROID USA 50.0 BAROID USA 50.0	
TRANSPORT BAROID USA MICA 48.0 FINE BAROID USA MICA 48.0 COURSE BAROID USA 48.0 WALNUT MEDIUM BAROID USA 48.0 WALNUT COURSE BAROID USA 50.0 JELFLAKE BAROID USA 50.0 BAROID USA 50.0	st (\$)
FINE BAROID USA MICA 48.0 COURSE BAROID USA 48.0 WALNUT MEDIUM BAROID USA 48.0 WALNUT COURSE BAROID USA 50.0 1 JELFLAKE BAROID USA 50.0 BAROID USA 50.0	,800
COURSE  BAROID USA 48.0  WALNUT MEDIUM  BAROID USA 48.0  WALNUT COURSE  BAROID USA 50.0 1  JELFLAKE  BAROID USA 50.0  BAROID USA 50.0  BARO SEAL	528
WALNUT MEDIUM  BAROID USA 48.0  WALNUT COURSE  BAROID USA 50.0 1  JELFLAKE  BAROID USA 50.0  BARO SEAL	528
WALNUT COURSE  BAROID USA 50.0 1  JELFLAKE  BAROID USA 50.0  BARO SEAL	487
JELFLAKE BAROID USA 50.0 BARO SEAL	487
BARO SEAL	,640
COURSE	700
BAROID USA 50.0 BARO SEAL MEDIUM	700
BAROID USA 80.0 1 COTTONSEED HULLS	,276
BAROID USA 100.0 SAWDUST	475
BAROID USA 150.0 16 QUICK FOAM	,955
BAROID USA 429.0 1 QUICK GEL	,223
BAROID USA 597.0 8 DIAMONIAM PHOSPHATE	,597

Formation Pick Groups: Drilling Sam...
Formation Picks Group

Drilling Sample

Name	Top (ftKB)
Bluegate	5,672.0
Emery	4,280.0
Mancos	3,073.0
Star Point	2,700.0
Blackhawk	1,700.0

Intermediate Casing, 4,413.0ftKB Wt (lbs/ft) Casing Run Date Max OD (in) Grade 11/26/2002 9 5/8 J-55 36.00 Talisman Energy Canada - Daily Drilling Report

Page 1/1 12/6/2002, Report: 40.0, DFS: 40.00

Job Type: Drilling - original

Well Name: FORTUNA MIDDLE M\_NTAIN #21-16

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 **Daily Summary** Weather Road Condition Hole Condition Clear Dry Good Operations at Report Time 06:00 hrs Dec 07, Drill ahead @ 7310 ft Operations This Report Period 6750. Ream to bottom. Drill ahead screening out LCM. Operations Next Report Period Drill ahead. **Ops Supervisors** Time Log
Start Date | End Time | Dur (hrs) | Code Activity Comment 00:00 02:15 Condition and/or Circulate mud Mix and pump LCM @ the shoe 4413 ft. 2.25 05 Bottom hole @ 7073 ft. Aquire circulation. 02:15 05:30 3.25 06 **Tripping** Trip out. Make up BHA and trip in to 6750 05:30 06:45 1.25 03 Reaming Ream to bottom. No tight hole. Bill Hedglin, Geologist Drill ahead. 7073 ft to 7145 ft. 06:45 12:30 5.75 02 Drilling Rigs: Bill Martin Jr., 3 0.50 10 Rig Survey 12:30 13:00 Survey 13:00 00:00 11.00 02 Drilling Drill ahead. 7145 ft to 7288 ft. Mud Checks: 7,112.0ftKB, 12/5/2002 10:15 Depth (ftKB) Density (lb/gal) Vis (s/qt) Plas Vis (cp) Rig Superviso Gel-Chem 7,112.0 66.0 8.5 42 11.0 12/5/2002 10:15 Filtrate (mL/30min) HTHP Filt (mL/30min Filter Cake (in) (lb/bbl) Yield Point (co gel 10 sec (cp) ael 10 min (co) 11.0 6.0 11.0 16.2 2.000 18.5 Lime (lb/bbi) Pm (mL/mL) Pf (mL/mL) ρH Calcium (mg/L) Potassium (mg/L) Polymer (ib/gat 8.5 20.000 Chlorides (mg/L) Solids (%) Percent Oil (%) Percent Water (%) LG Solids (%) Electric Stab (V) Sand (%) 400.000 1.2 Drill Strings: BHA #12, Packed Hole 2, IDECO, MM-550 Bit Rui Bit IADC Bit Dul TFA (incl Noz) (int ROP (ft/hr Nozzles (/32") 9RR 8 3/4in, GT-20S , 5021367 0.59 16/16/16 14.5 Max OD (in) Len (ft) String Components 6.750 Hughes GT-20S, Reamer - 3 Pt, Stabilizer, Short Drill Collar, Stabilizer, NMDC, 7300.03 Stabilizer, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe, Kelly BOPs Drilling Parameters: 215.0ftKB Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) 12 7,073.0 7,288.0 215.0 16.75 16.75 12.8 440 WOB (1000lbf) SPP (psi) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) **Drilling Torque** Off Btm Tq 40 1,500.0 165 180 162 Wellbores Wellbore Name VS Dir (\*) KO MD (ftKB) Main Hole 90.00 300.0 Directional Surveys: SINGLE SHOT Survey Company SINGLE SHOT Patterson Crew CHECK Survey Data EW (ft) DLS (\*/100ft) TVD (ftKB) VS (ft) MD (ftKB) NS (ft) 7,105.00 0.75 13.00 7,101.28 190.32 -56.45 -56.45 0.24 Formation Picks Group **Drilling Sample** 

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
7,073.0	7,288.0
Depth Progress (ftKB)	Drilling Time (hrs)
215.0	16.75

Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Rod Cuthill, Drilling Foreman Mark Moennich, Drilling Sup't Don Helms, Mud Engineer Roger Bromley, Tool Pusher

John Day, Tool Pusher

# Rigs: Patterson U.T.I, 104

Jesse Blanchard, Drilling Manager

Pump Number	Pump Rating (hp)	2.5197 V/Stk (bbl/stk) 0.105		
1	550.0			
Liner Size (in)	Stroke (in)			
5	15.00			

Pump Number	Pump Rating (hp)	Rod Diameter (in)
2	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	0.105

	Туре	(in)	P(wkg) (psi)
	Annular Preventers	13 5/8	1,500.0
	Annular Preventers	11	1,500.0
١		4-	

Mud Additive Amοι		
Description	Consumed	Daily Cost (\$)
BAROID USA MUD ENG LIVING ALLOWANCE	1.0	35
BARIOD USA MUD	1.0	200

# Formation Pick Groups: Drilling Sam...

Name	Top (ftKB)
Bluegate	5,672.0
Emery	4,280.0
Mancos	3,073.0
Star Point	2,700.0
Blackhawk	1,700.0

İ	Intermediate	Casing,	4,413.0	ftKB
	Casing Run Date	Max OD (in)	Grade	Wt (lbs/ft)
	11/26/2002	0.5/8	1-55	36.00

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Well Name: FORTUNA MIDDLE M NTAIN #21-16 D 12/7/2002, Report: 41.0, DFS: 41.00

Job Type: Drilling - original

Spud Date	e 0/28/200	; -	Release	Date K	3 Elevation (ft) 8672.00	Groun	id Elevatio		Ground Distance (ft)	AFE No. 37511	Total AFE	Amt (\$)
	ummai									Daily Cost Total	Cum, Cos	it To Date
Weather Clear				Road Condi	tion		Hole (	Condition		Daily Mud Cost	Mud Addit	tive Cost To Dat
Operation	s at Repo				<del></del>					Depth Start (ftKB)	Dth S-	1(0)(0)
		08, drill ab	nead @	7550 ft			[-	J. HEIF		7,288.0	Depth End 7	7,473.0
Drill ah	ead. Cu		culation	. Drill ahead. C	ure lost circulati	ion.				Depth Progress (ftKB) 185.0	Drilling Ti	me (hrs) 11.50
•		ation and	drill ah	ead.						One Supervisors		
Time L											ntact	
Start Date 00:00	01:00	e Dur (hrs) 1.00		Drilling	Activity	Dr	ill ahea	Comme d 7288 ft to 7		Arnie Hamarsnes, D Meł Knezevich, Drilli	•	•
01:00	05:00	4.00	05	Condition an	d/or Circulate m			lation @ 730: o regain circu	3 ft. Mix and pump lation.		Foreman	
05:00	14:30	9.50	02	Drilling		25 74	% plus	LCM. Drill ah creening out e	th 800 bbls @ ead 7303 ft to excess LCM. Hole	Don Helms, Mud En Roger Bromley, Too Bill Hedglin, Geologi	Pusher	
14:30	17:45	3.25	06	Tripping				due to tight h Bluegate at 5	ole. Trip up to the 672 ft.	Rigs: Bill Martin Jr.		
17:45	18:45	1.00	1	Drilling				d 7455 ft to 7		John Day, Tool Pust	ner	
18:45	:00:00	5.25	05	Condition an	d/or Circulate m	an	d slug v	vith 800 bbls	73 ft. Build volume @ 25% LCM. We	Rig Supervisor		
	i	:						ing the losses out the Icm to	with pills and catch good	Jesse Blanchard, Drilling Manager		
	‡ -	1						We will now o	Irill ahead with get enough	Pump Number Pump Ratin		
<u>.</u>							/	r the Geologis	st airc	1 550.1 Liner Size (in) Stroke (i	n) V	2.5197 //Stk (bbl/stk)
Mud Ci	hecks:	7,400.0ftK		//2002 00:00 Depth (ftKB)	!T(fi) (°F)	Density (Ibr	(aal)	Vis (s/qt)	Plas Vis (cp)		.00	0.105
Gel-Cho Geld Poin		12/7/2002 gel 10 sec (	00:00	7,400.0 gel 10 min (cp)	80.0 Filtrate (mL/30min)	8.8	8	Filter Cake (in)	MBT (lb/bbl)	2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0		Diameter (in) 2.5197
ime (lb/bi		pH		Pm (mL/mL)	Pf (mL/mL)	Calcium (m		Potassium (mg/L		Liner Size (in) Stroke (ii	n) V	//Stk (bbi/stk)
	·	8.0		0.000						<del> </del>	.00	0.105
hlorides	(mg/L)	Sand (%)	ľ	Solids (%)	Percent Oil (%)	Percent Wa	ater (%)	LG Solids (%)	Electric Stab (V)	BOPs	Nom	
	rings: E	3HA #12, I	Packed							Annular Preventers	(in)	
Bit Rul Bit 9RR 8	3/4in, G	T-20S , 5	021367	IADC Bit Du	ll 	TFA (incl No.59		OP (ft/hr Nozzles ( 14.5	/32") 16/16/16	Annular Preventers		11 1,500.0
en (ft) 7300.		x OD (in) 6.750		omponents	eamer - 3 Pt, Sta	shilizer Si	hort Dril	i Collar, Stab	ilizer NMDC	Mud Additive Amou		Daily Cost (\$)
		eters: 18	Stabili	zer, Drill Collar	, Drilling Jars - H	Hydraulic,	Drill Co	llar, Drill Pipe	, Kelly	BAROID USA DESCO CHROME FREE	8.0	349
BHA No. 12	D	epth Start (ft/ 7,288.0	(B) Depth	End (ftKB) Cum D	epth (ftKB) Drill Time 00.0 11.	e (hrs) Cur	n Drill Tim 28.25	ne (hrint ROP (ft/h 16.1	Flow Rate (gpm)	BAROID USA	9.0	67
WOB (100 40	) [	RPM (rpm) 80		(psi) Rot HL (1 500.0 16	000ibi) PU HL (100 5 180		162	f) Drilling Torqu	e Off Btm Tq	BAROID USA MUD TRANSPORT	10.0	750
Wellbo	res	Wellbo	e Name		VS Di			KO MD		BAROID USA	13.0	500
Main Ho						90.00			300.0	CAUSTIC SODA BAROID USA	40.0	560
Direction Description		rveys: SII	IGLE S	НОТ			Survey	Company		BARO SEAL	.0.0	000
SINGLE	SHOT						Patte	rson Crew		BAROID USA	48.0	901
										PLUG-GIT BAROID USA	150.0	4,920
										JELFLAKE BAROID USA	153.0	2,440
										COTTONSEED	; ;	
										BAROID USA QUICK GEL	203.0	579
										Formation Pick Group Formation Picks Group Drilling Sample	ups: Dril	lling Sam

Drilling Sample

Report Printed: 12/9/2002

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Well Name: FORTUNA MIDDLE M NTAIN #21-16 12/7/2002, Report: 41.0, DFS: 41.00 Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) Top (ftKB) 10/28/2002 8655.00 8672.00 17.00 Bluegate 5,672.0 Daily Summary Emery 4,280.0 Mancos 3,073.0 Star Point 2,700.0 Blackhawk 1,700.0

> Intermediate Casing, 4,413.0ftKB
> Casing Run Date Max OD (in) Grade
> 11/26/2002 9 5/8 J-55 36 Wt (lbs/ft) 36.00

Report Printed: 12/9/2002

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Well Name: FORTUNA MIDDLE M. NTAIN #21-16 D. 12/8/2002, Report: 42.0, DFS: 42.00

Job Type: Drilling - original

Spud Dat			Release [	ate	KB Eleva	tion (ft) 8672.00	Ground	Elevation (ft) 8655.00	KB-Gro	ound Distance (ft) 17.00
	)/28/200 iummar					00 / Z.UU	<u> </u>	0000.00		17.00
Weather	annina!	Z		P	load Condition			Hole Condition		
Clear				- 1	)ry			Good		
•	s at Repor					MATERIAL SERVICES OF THE THE SERVICE AND		· <del></del>		
		09, loss ci	гс @ 77	09 ft.				erana a arama pra	ina a granda	* 8 1/4 #
Drill ah Operation	s Next Rep	culate san		ll ahe	ad. Mix and p	oump LCM.		The second secon	Action of the second	EPALAS CO.
		<u> </u>								
Time L Start Date		e Dur (hrs)	Code	Т-	Acti	vity			Comment	
00:00	01:30	1.50		Con		Circulate mud		_	M. Pump	and regain bbls @ 25%
01:30	14:00	12.50	02	Drilli	ng		Byp reco sam sma	ples.Flood s	and set u vater floo haker bot ing over t	ip a sample d system to get k with only a the shaker to
14:00	16:00	2.00	05	Con	dition and/or	Circulate mud	Circ	ulate sample	@ 7660	ft.
16:00	19:00	3.00	02	Drilli	ng			False alarm, drill ahead from 7660 to 7709 ft.		
19:00	00:00	5.00	05	Con	dition and/or (	Circulate mud				. Mix and pump bls to midnight.
Drili St	rinas: E	HA #12,	Packed	Hole	· v		***************************************			
Bit Ru(Bit					ADC Bit Dull	TFA	-	) (in <sup>2</sup> ROP (ft/hr		
		T-20S , 5				<del>-</del>	0.59	14.5	1	6/16/16
en (ft) 7300		6.750		GT-	20S , Reame	r - 3 Pt, Stabili ing Jars - Hydr				
Drilling		eters: 230								
BHA No. 12		epth Start (fth 7,473.0		End (ftk 709.0	(B) Cum Depth (1 636.0	tKB) Drill Time (hrs 15.50		Drill Time (hr Int 43.75	ROP (ft/hr) 15.2	Flow Rate (gpm) 440
WOB (100		PM (rpm)	SPP (			PU HL (1000lbf)			ing Torque	Off Btm Tq
4(		80		00.0	170	185		168		
Wellbo	roe									
TTEILDO	163	Wellbo	re Name		·	VS Dir (*)			KO MD (ftk	(B)
Main H	ole						90.00			300.0
Directi	onal Su	veys: Sil	NGLE SI	НОТ						
Description SINGLI	SHOT							Survey Compar Patterson C	•	

Cum. Cost To Date
Mud Additive Cost To Date
Depth End (ftKB)
7,709.0
Drilling Time (hrs)
15.50

Ops Supervisors
Contact
Arnie Hamarsnes, Drilling Engineer
Rod Cuthill, Drilling Foreman
Mel Knezevich, Drilling Foreman
Mark Moennich, Drilling Sup't
Don Helms, Mud Engineer
Roger Bromley, Tool Pusher
Bill Hedglin, Geologist

Rigs: Bill Martin Jr., 3
Rig Supervisor
John Day, Tool Pusher

#### Rigs: Patterson U.T.I, 104 Rig Supervisor Jesse Blanchard, Drilling Manager

1, IDECO, I	MM-550			
Pump Number	Pump Rating (hp)	Rod Diameter (in)		
1	550.0	2.5197		
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)		
5	15.00	0.105		

# Pump Checks P (psi) Slow Spd Strokes (strokes/min) Eff (%) 1,600.0 No 50 90

Pump Number	Pump Rating (hp)	Rod Diameter (in
2	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	0.105

Pump Cne	ecks		
P (psi)	Slow Spd	Strokes (strokes/min)	Eff (%)
1,600.0	No	50	90

Nom Sz (in)	P(wkg) (psi)
13 5/8	1,500.0
11	1,500.0
	(in) 13 5/8

Description	Consumed	Daily Cost (\$)
BAROID USA QUICK FOAM	-36.0	-4,069
BARIOD USA MUD CHECK	1.0	200
BAROID USA CAUSTIC SODA	8.0	308
BAROID USA SAPP	9.0	865
BAROID USA MUD TRANSPORT	10.0	750
BAROID USA HC2	31.0	2,311
BAROID USA MICA COURSE	48.0	528
BAROID USA PLUG-GIT	48.0	901

Report Printed: 12/9/2002

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4,280.0

3,073.0

2,700.0

1,700.0

Talisman Energy Canada - Daily Drilling Report
Well Name: FORTUNA MIDDLE M. NTAIN #21-16
D. 12/8/2002, Report: 42.0, DF
Job Type: Drilling - original D. 12/8/2002, Report: 42.0, DFS: 42.00

Job Type: Drilling - original

Sp	ud Date	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)
	10/28/2002		8672.00	8655.00	17.00
D	aily Summary				

on all with making the complete the first of the second se		Professional Control
<b>Mud Additive Amor</b>	ınts	
Description	Consumed	Daily Cost (\$)
BAROID USA BARO SEAL COURSE	200.0	2,800
BAROID USA QUICK GEL	271.0	772
BAROID USA MUD ENG LIVING ALLOWANCE	2.0	70
BAROID USA SAWDUST	100.0	475
Formation Pick Gro Formation Picks Group Drilling Sample	oups: Dril	ling Sam
Name		Top (ftKB)
Bluegate		5,672.0

Intermediate Casing, 4,413.0ftKB
Casing Run Date Max OD (in) Grade Wt ( Wt (lbs/ft) 11/26/2002 9 5/8 J-55 36.00

Emery

Mancos

Star Point

Blackhawk

Talisman Energy Canada - Daily Drilling Report Page 1/2
Well Name: FORTUNA MIDDLE MUNTAIN #21-16 Du 12/9/2002, Report: 43.0, DFS: 43.00

Spud Dat	te 0/28/200		Release	Date K	B Elevation (	ft) 2.00	Ground Ele	vation (ft 55.00		ound Distance (ft)	AFE No. 37511	Total AFE	Amt (\$)
	Summar	1				2.00	1 00	33.00		17.00	Daily Cost Total	Cum. Cost	To Date
Weather				Road Cond	ition			ole Cond					
Clear Operation	ns at Repor	t Time		Dry	o control to the second of the second		L	oss cir	c and tight.		Daily Mud Cost	Mud Addit	ive Cost To D
06:00 t	nrs Dec	10, Circ aı	nd cond	for logs.				$\cap$	7415	و پر رسود و مسع	Depth Start (ftKB)	Depth End	
	ns This Rep		ole Tri	p assembly. C	`uro loogo	o Trip in t	- deili		MEIL		7,709.0 Depth Progress (ftKB)	7 Drilling Tin	,709.0
	is Next Re		iole. III	p assembly, c	ure iosse	s. Impint	o arili.			mal V t i i i i i .	0.0	_	0.00
Clean t	to botton	n and drill	ahead.								One Supervisors		
Time L											Ops Supervisors	Contact	
Start Date 00:00	e End Tim 03:45	Dur (hrs) 3.75	Code 05	Condition ar	Activity	ilate mud	Miv an	d num	Comment	f LCM @ 25%.	Arnie Hamarsnes,		
03:45	07:15	3.50	-	Tripping		nate muu	Wiper to 742	trip. Ho	ole very tigh	t. Pull from 7709 tight form 7425	Mel Knezevich, Dri Rod Cuthill, Drilling Mark Moennich, Dr	Foreman	
37.4E	12.00	4.75	00	<del></del>			to 7267				Don Helms, Mud E	ngineer	
07:15	12:00	4.75	Ub	Tripping			Run to	the sh		ed assembly. n nozzel bit. Mix sses.	Roger Bromley, To Bill Hedglin, Geolog		
2:00	14:30	2.50	06	Tripping			Trip in	to the	shoe to rega	in circulation.	Rigs: Bill Martin J	г., 3	
14:30	19:30	5.00	05	Condition ar	nd/or Circu	late mud	Mix and	d pump	LCM. Mud	is 45% LCM by	Rig Supervisor John Day, Tool Pus		-
	1						volume		irculation ha	s been			<del></del>
9:30	21:00	1.50	na	Cut/Slip Drill	ing Line						Rigs: Patterson U.	T.I, 104	
21:00	23:00	2.00		Tripping	ing Line		Slip an				Rig Supervisor Jesse Blanchard, D	rilling Man	ager
3:00	00:00	1.00		Reaming	*** =					erious bridge, it	1, IDECO, MM-550		-3
Mud Cl	hecks: 7	.709.0ftK	B. 12/9/	/2002 00:00			remed	easily.	Wash to bo	ttom.	Pump Number Pump Rat 1 550	ng (hp) Rod	Diameter (in) 2.5197
уре		Date	D	epth (ftKB)	T(fl) (°F)	Der	nsity (lb/gal)	Vis (	(s/qt)	Plas Vis (cp)	Liner Size (in) Stroke		Stk (bbl/stk)
Sel-Che		12/9/2002 gel 10 sec (c		7,709.0 el 10 min (cp)	Filtrate (ml	/30min) HT	8.5 HP Filt (mL/30	min Filte	43 c Cake (in)	10.0 MBT (lb/bbl)		5.00	0.105
10	0.0	4.0	.,	9.0					· Cane (iii)	MOT (ID/DDI)	2, IDECO, MM-550 Pump Number : Pump Rati	na (bo) i Rod (	Diameter (in)
ime (lb/bl	bl)	рН 8.2	P	m (mL/mL)	Pf (mL/mL)	Cal	cium (mg/L)	Pota	issium (mg/L)	Polymer (lb/gal)	2 550		2.5197
hlorides	(mg/L)	Sand (%)	S	olids (%)	Percent Oil	(%) Per	cent Water (%	) LGS	Solids (%)	Electric Stab (V)	Liner Size (in) Stroke 5 1	(in) V/ 5.00	Stk (bbl/stk) 0.105
orill St	rings: B	HA #12, F	acked	Hole							BOPs		
it RutBit	R/Ain GT	-20 <b>S</b> , 50	121267	IADC Bit Du	ii -A-1-0-NC			1	Vhr Nozzies (/32		Туре	Nom S (in)	P(wkg) (p
en (ft)			String Cor		-A-1-0-INC	)-NP	0.59	14.5	)   1	6/16/16	Annular Preventers	13 5	/8 1,500
7300.	03	6.750	Hughes	GT-20S , Re	eamer - 3	Pt, Stabiliz	er, Short (	Orill Co	llar, Stabiliz	er, NMDC,	Annular Preventers	1	1,500
	<u> </u>		Stabiliz	er, Drill Collar	, Drilling J	ars - Hydr	aulic, Drill	Collar,	Drill Pipe, K	elly	Mud Additive Amo		5 7 6
rilling HA No.	Parame	ters: 0.01	tKB	End (ftKB)   Cum D	(014D)   D	·					Description BAROID USA	Consumed 1.0	Daily Cost (
12		7,709.0	7.7		eptn (πκΒ) [1	0.00	Cum Drill		int ROP (ft/hr)	Flow Rate (gpm) 440	PAC-R		
OB (100		PM (rpm)	SPP (	psi) Rot HL (1	000lbf) PU	HL (1000lbf)	SO HL (100	Olbf) [	Orilling Torque	Off Btm Tq	BAROID USA	3.0	
40 rill Str		80 H <b>A #13, S</b>		00.0 17		185	168	· · ·			SODA ASH BAROID USA CAUSTIC SODA	3.0	1
n (ft)	Max		String Con	nponents	-A-1-0-NC	-TD	2.36	10.0	<del></del>	2/32/32	BAROID USA MUD TRANSPORT	20.0	1,50
7719.			Kelly	GT-20S , Bit	Sub, Drill	Collar, Dr	illing Jars	- Hydra	aulic, Drill Co	ollar, Drill Pipe,	BAROID USA QUICK GEL	72.0	20
<b>rilling</b> IA No. 13	De	ters: 0.0f oth Start (ftKE 7,709.0	B) Depth E	nd (ftKB) Cum D	epth (ftKB) D	rill Time (hrs) 0.00			Int ROP (ft/hr)	Flow Rate (gpm)	BAROID USA PLUG-GIT	110.0	2,06
OB (1000		7,709.0 M (npm)	SPP (p			U.UU HL (1000lbf)	0.0 SO HL (100		Orilling Torque	252 Off Btm Tq	BAROID USA COTTONSEED	145.0	2,31
40		60	20	0.0 17		176	168		- '		HULLS		
elibor	es	Wellbore	Name			VS Dir (*)			KO MD (ftKi	3)	BAROID USA BARO SEAL	175.0	2,45
ain Ho	le						90.00			300.0	MEDIUM		
scription		/eys: SIN	GLE SH	IOT				ey Comp terson	-		Formation Pick Gro Formation Picks Group	ups: Drill	ing Sam.
NGLE											Drilling Sample		
INGLE											Name Ferron		Top (ftKB) 7,667.
INGLE													
INGLE											Bluegate		5,672.

Talioman Energy Canada - Daily Drilling Report Page 2/2 LE N JNTAIN #21-16 D : 12/9/2002, Report: 43.0, DFS: 43.00 Well Name: FORTUNA MIDDLE N : 12/9/2002, Report: 43.0, DFS: 43.00 Job Type: Drilling - original Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) Top (ftKB) 10/28/2002 8672.00 8655.00 17.00 Emery 4,280.0 Daily Summary Mancos 3,073.0 Star Point 2,700.0

Report Printed: 12/12/2002

Intermediate Casing, 4,413.0ftKB
Casing Run Date Max OD (in) Grade Wt (i

11/26/2002 9 5/8

Wt (lbs/ft) 36.00

J-55

Talisman Energy Canada - Daily Drilling Report
Well Name: FORTUNA MIDDLE MUNTAIN #21-16
Dau 12/10/20

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Da 12/10/2002, Report: 44.0, DFS: 44.00

Job Type: Drilling - original

Spud Date 10/28/200	, -	Release D		867	2.00	Ground	8655.00	)	KB-Grou	17.00
Daily Summar	у									
Weather			Road	Condition			Hole Con	dition		
Clear			Dry				Loss c	irc and	tight.	
Operations at Repor	t Time								<u>_</u>	
06:00 hrs Dec	11, log brid	dge at 72	256 ft.							
Operations This Rep	ort Period				. 411 - 441 1		and the second second			
Wash to botton	n . Drill ah	ead. Circ	sample.	. Condition ho	le trip out a	nd log.				
Operations Next Re	ort Period									
Log hole, strap	in, conditi	on and to	rip to VS	P.						
Time Log										-
Start Date End Tim	e Dur (hrs)	Code		Activity				С	omment	
00:00 02:45	2.75		Reamin			Wa	sh to bot			
02:45 03:45	1.00		Drilling	<u> </u>			to 7719			
03:45 13:00	9.25			n and/or Circ	ulate mud		ulate an		lition hal	
13:00 20:00	7.00		Tripping		diate muu		out to lo		illion noi	<del></del>
									1	
20:00 00:00	4.00	11	Wireline	A L DOLE		Rig	in logge	rs and	ioa.	
Bit RurBit 9RR 8 3/4in, G Len (ft) Ma	T-20S , 5 x OD (in)	021367 String Con	IADC 2-2	Bit Duil 2-NO-A-1-0-N	IO-TD	2.36	z) (in² ROP 10	(ft/hr No	zzies (/32") 32	2/32/32
Bit RufBit 9RR 8 3/4in, G	T-20S , 5	021367 String Con	IADC 2-2	Bit Duil	IO-TD	2.36	10	(ft/hr No	zzies (/32") 32	2/32/32
Bit Ru/Bit 9RR   8 3/4in, G Len (ft) Ma 7719.15	T-20S , 5 x OD (in) 6.750	021367 String Corr Hughes Kelly	IADC 2-2	Bit Duil 2-NO-A-1-0-N	IO-TD	2.36	10	(ft/hr No	zzies (/32") 32	2/32/32
Bit Ru(Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15   Drilling Param	T-20S , 50 x OD (in) 6.750 eters: 10.	021367 String Con Hughes Kelly	IADC 2-2 apponents GT-20S	Bit Duil 2-NO-A-1-0-N	ill Collar, Dr	2.36 filling J	10	(ft/hr/No ).0 draulic	zzies (/32*) 32 , Drill Co	2/32/32
Bit Ru(Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15   Drilling Param	T-20S , 50 x OD (in) 6.750 eters: 10.	021367 String Con Hughes Kelly OftKB	IADC 2-2 apponents GT-20S	Bit Duli 2-NO-A-1-0-N , Bit Sub, Dr	ill Collar, Dr	2.36 filling J	ars - Hyd	(ft/hr/No. 0.0 draulic,	zzies (/32*) 32 , Drill Co	2/32/32 Mar, Drill Pipe
Bit Ru/Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15  Drilling Param BHA No.   D	T-20S , 50 x OD (in) 6.750 eters: 10. epth Start (fit	021367 String Con Hughes Kelly OftKB	ponents GT-20S	Bit Duli 2-NO-A-1-0-N , Bit Sub, Dr	ill Collar, Dr	2.36 illing J	ars - Hyd	(ft/ht/No .0 draulic,	zzles (/32") 32 , Drill Co	2/32/32 Illar, Drill Pipe Flow Rate (gpm
Bit Ru/Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15  Drilling Param BHA No.   D	T-20S , 50 x OD (in) 6.750 eters: 10. epth Start (filk 7,709.0	O21367 String Con Hughes Kelly  OftKB (B) Depth E 7,7	ponents GT-20S	Bit Duli 2-NO-A-1-0-N , Bit Sub, Dr Cum Depth (ftKB) 10.0	ill Collar, Dr	2.36 illing J	Drill Time (	(ft/ht/No .0 draulic,	zzies (/32*) 32 , Drill Co	Plow Rate (gpm 252
Bit Ru/Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15    Drilling Param BHA No.   D 13 WOB (1000lbf)   F 40	T-20S , 50 x OD (in) 6.750 eters: 10. epth Start (ftk 7,709.0 PM (rpm)	O21367 String Con Hughes Kelly  OftKB (B) Depth E 7,7	ponents GT-20S  and (ftKB) (19.0) psi) Rot	Bit Duil 2-NO-A-1-0-N , Bit Sub, Dr  Cum Depth (ftKB) 10.0 HL (1000lbf)	O-TD  ill Collar, Dr  Drill Time (hrs) 1.00 U HL (1000lbf)	2.36 illing J	Drill Time (1.00 (1000lbf)	(ft/ht/No .0 draulic,	zzies (/32*) 32 , Drill Co	Plow Rate (gpm 252
Bit Ru/Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15    Drilling Param BHA No.   D 13 WOB (1000lbf)   F 40	T-20S , 5 x OD (in) 6.750  eters: 10. epth Start (ftk 7,709.0 RPM (rpm) 60	O21367 String Con Hughes Kelly  OftKB (B) Depth E 7,7	ponents GT-20S  and (ftKB) (19.0) psi) Rot	Bit Duil 2-NO-A-1-0-N , Bit Sub, Dr  Cum Depth (ftKB) 10.0 HL (1000lbf)	Drill Time (hrs) 1.00 U HL (1000lbr) 176	2.36 illing J	Drill Time (1.00 (1000lbf)	(ft/ht/No0	zzies (/32*) 32 , Drill Co	Plow Rate (gpm 252)
7719.15  Drilling Param BHA No. D 13  WOB (1000lbf) F	T-20S , 5 x OD (in) 6.750  eters: 10. epth Start (ftk 7,709.0 RPM (rpm) 60	O21367   String Con   Hughes   Kelly   OftKB   Carron Con	ponents GT-20S  and (ftKB) (19.0) psi) Rot	Bit Duil 2-NO-A-1-0-N , Bit Sub, Dr  Cum Depth (ftKB) 10.0 HL (1000lbf)	O-TD  Till Collar, Dr  Drill Time (hrs) 1.00 U HL (1000lbf) 176  VS Dir (*)	2.36 illing J	Drill Time (1.00 (1000lbf)	(ft/ht/No0	32 Drill Co DP (ft/hr) 10.0 Torque	Plow Rate (gpm 252)
Bit Ru/Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15    Drilling Param BHA No.   D 13 WOB (1000lbf)   F 40  Wellbores  Main Hole	T-20S , 5 x OD (in) 6.750  eters: 10. epth Start (fil/ 7,709.0 PM (rpm) 60	O21367 String Con Hughes Kelly OftKB (B) Depth E 7,7 SPP (g 28	IADC 2-2 ponents GT-20S ind (ftKB) (19.0)   19.0   No.0	Bit Duil 2-NO-A-1-0-N , Bit Sub, Dr  Cum Depth (ftKB) 10.0 HL (1000lbf)	O-TD  Till Collar, Dr  Drill Time (hrs) 1.00 U HL (1000lbf) 176  VS Dir (*)	2.36 rilling J Cum	Drill Time (1.00 (1000lbf)	(ft/ht/No0	32 Drill Co DP (ft/hr) 10.0 Torque	2/32/32 billar, Drill Pipe Flow Rate (gpm 252 Off Btm Tq
Bit Ru/Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15    Drilling Param BHA No.   D 13 WOB (1000lbf)   F 40  Wellbores	T-20S , 5 x OD (in) 6.750  eters: 10. epth Start (fil/ 7,709.0 PM (rpm) 60	O21367 String Con Hughes Kelly OftKB (B) Depth E 7,7 SPP (g 28	IADC 2-2 ponents GT-20S ind (ftKB) (19.0)   19.0   No.0	Bit Duil 2-NO-A-1-0-N , Bit Sub, Dr  Cum Depth (ftKB) 10.0 HL (1000lbf)	O-TD  Till Collar, Dr  Drill Time (hrs) 1.00 U HL (1000lbf) 176  VS Dir (*)	2.36 rilling J Cum	Drill Time (1.00 (1000lbf)	(ft/ht/No.).0 draulic,	32 Drill Co DP (ft/hr) 10.0 Torque	2/32/32 billar, Drill Pipe Flow Rate (gpm 252 Off Btm Tq
Bit Ru/Bit 9RR 8 3/4in, G Len (ft) Ma 7719.15  Drilling Param BHA No. D 13 WOB (1000lbf) F 40  Wellbores  Main Hole  Directional Su	T-20S , 5 x OD (in) 6.750  eters: 10. epth Start (ftk 7,709.0 RPM (rpm) 60  Wellbox	O21367 String Con Hughes Kelly OftKB (B) Depth E 7,7 SPP (g 28	IADC 2-2 ponents GT-20S ind (ftKB) (19.0)   19.0   No.0	Bit Duil 2-NO-A-1-0-N , Bit Sub, Dr  Cum Depth (ftKB) 10.0 HL (1000lbf)	O-TD  Till Collar, Dr  Drill Time (hrs) 1.00 U HL (1000lbf) 176  VS Dir (*)	2.36 rilling J Cum	Drill Time (1.00 (1000lbf)	(ft/hr/No.).0 draulic, hr/Int RC Drilling	22zles (/32**) 32  Drill Co DP (ft/hr) 10.0 Torque	2/32/32 billar, Drill Pipe Flow Rate (gpm 252 Off Btm Tq
Bit Ru/Bit 9RR   8 3/4in, G Len (ft)   Ma 7719.15    Drilling Param BHA No.   D 13 WOB (1000lbf)   F 40  Wellbores  Main Hole  Directional Su Description SINGLE SHOT	T-20S , 5 x OD (in) 6.750  eters: 10. epth Start (ftk 7,709.0 RPM (rpm) 60  Wellbox	O21367 String Con Hughes Kelly OftKB (B) Depth E 7,7 SPP (g 28	IADC 2-2 ponents GT-20S ind (ftKB) (19.0)   19.0   No.0	Bit Duil 2-NO-A-1-0-N , Bit Sub, Dr  Cum Depth (ftKB) 10.0 HL (1000lbf)	O-TD  Till Collar, Dr  Drill Time (hrs) 1.00 U HL (1000lbf) 176  VS Dir (*)	2.36 rilling J Cum	Drill Time (1.00 (1000lbf) 168	(ft/hr/No.).0 draulic, hr/Int RC Drilling	22zles (/32**) 32  Drill Co DP (ft/hr) 10.0 Torque	2/32/32 billar, Drill Pipe Flow Rate (gpm 252 Off Btm Tq
Bit Ru/Bit 9RR 8 3/4in, G Len (ft) Ma 7719.15  Drilling Param BHA No. D 13 WOB (1000lbf) F 40  Wellbores  Main Hole  Directional Su	T-20S , 5 x OD (in) 6.750  eters: 10. epth Start (ftk 7,709.0 RPM (rpm) 60  Wellbox	O21367   String Con Hughes Kelly   OffKB   7,7   SPP (g 28   28   28   28   38   38   38   38	IADC 2-2 ponents GT-20S ind (ftKB) (19.0)   19.0   No.0	Bit Duil 2-NO-A-1-0-N , Bit Sub, Dr  Cum Depth (ftKB) 10.0 HL (1000lbf)	O-TD  Till Collar, Dr  Drill Time (hrs) 1.00 U HL (1000lbf) 176  VS Dir (*)	2.36 rilling J Cum	Drill Time (1.00 (1000lbf) 168	(ft/hr No.	22zles (/32**) 32  Drill Co DP (ft/hr) 10.0 Torque	2/32/32 billar, Drill Pipe Flow Rate (gpm 252 Off Btm Tq

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Curn. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
7,709.0	7,719.0
Depth Progress (ftKB)	Drilling Time (hrs)
10.0	1.00

### Ops Supervisors

Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Rod Cuthill, Drilling Foreman Mark Moennich, Drilling Sup't Don Helms, Mud Engineer Roger Bromley, Tool Pusher Bill Hedglin, Geologist

## Rigs: Bill Martin Jr., 3

John Day, Tool Pusher

## Rigs: Patterson U.T.I, 104

Jesse Blanchard, Drilling Manager

1, IDECO,			
Pump Number	Pump Rating (hp)	Rod Diameter (in)	
1	550.0	2.5197	
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)	
5	15.00	0.105	

## Pump Checks

	P (psi)	Slow Spd	(strokes/min)	Eff (%)
	0.0	No	0	90
2	IDECO	MM 550		

Pump Number	Pump Rating (hp)	Rod Diameter (in)
2	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	0.105

## Pump Checks

P (psi)	Slow Spd	(strokes/min)	Eff (%)
280.0	No	60	90
ROP <sub>e</sub>			

Туре	Nom Sz (in)	P(wkg) (psi)
Annular Preventers	13 5/8	1,500.0
Annular Preventers	11	1,500.0
Annular Preventers	11	1,

Mud Additive Amounts			
Description	Consumed	Daily Cost (\$)	
BAROID USA PAC-R	2.0	218	
BAROID USA PLUG-GIT	30.0	563	
BAROID USA REGULAR BARITE	50.0	182	
BAROID USA BARO SEAL COURSE	80.0	1,120	

## Formation Pick Groups: Drilling Sam...

Formation Picks Group

**Drilling Sample** 

Name	Top (ftKB)
Ferron	7,667.0
Bluegate	5,672.0
Emery	4,280.0

Report Printed: 12/12/2002

Tatisman Energy Canada - Daily Drilling Report Page 2/2
Well Name: FORTUNA MIDDLE N INTAIN #21-16 Da 12/10/2002, Report: 44.0, DFS: 44.00
Job Type: Drilling - original

Date 10/28/2002	Rig Release Date	KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	Name Mancos	3,073
ly Summary		1 0012.00			Star Point	2,700
•					Intermediate Casing, 4,4 Casing Run Date Max OD (in) Grad	13.0ftKB
					Casing Run Date Max OD (in) Grad	le Wt (lbs/ft)
					11/26/2002 9 5/8 J	-55 36.00
					! !	

Talisman Energy Canada - Daily Drilling Report

Well Name: FORTUNA MIDDLE NUNTAIN #21-16 Job Type: Drilling - original

Rio Release Date KB Elevation (ft) Spud Date Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 Daily Summary Road Condition Hole Condition Cloudy Dry Good Operations at Report Time 06:00 hrs Dec 12, Circ and cond hole to log Operations This Report Period Log from Bridge at 7256 ft to 4413 ft. Trip in to clean out. Plugged bit with LCM. Trip and unplug jets, Trip in and clean out. Ream and wash from 7256 ft to 7500ft. Operations Next Report Period Ream wash to bottom from 7500 ft. Circ, wiper trip, circ, trip to log, log Time Log Start Date End Time Dur (hrs) Code Activity Comment 00:00 07:00 7.00 11 Wireline Logs Run FMI to bridge at 7256 ft and log out. Lay down tools for clean out. 07:00 21:00 14.00 06 Tripping Trip in to 4500 ft. Bit plugged with LCM. Trip out wet. Clean out BHA. Trip in to 7256 ft and tag bridge. 00:00 3.00 03 Ream and wash to bottom. Pushing 21:00 Reaming something ahead of the bit. Reaming at 7500 ft at 24:00 hrs. Drill Strings: BHA #14, Slick Bit Rui Bit IADC Bit Dul TFA (incl Noz) (in2 ROP (ft/h/ Nozzles (/32") 9RR: 8 3/4in, GT-20S , 5021367 2.36 32/32/32 Len (ft) Max OD (in) 7689.57 6.750 Hughes GT-20S, Bit Sub, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe, **Drilling Parameters: 0.0ftKB** Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr.Int ROP (ft/hr) Flow Rate (gpm) 14 7,690.0 7,690.0 0.0 0.00 0.00 252 WOB (1000lbf) Rot HL (1000lbf) PU HL (1000lbf) RPM (rpm) SPP (psi) SO HL (1000lbf) Drilling Torque Off Btm Ta 50 500.0 168 164 172 Wellbores VS Dir (\* Wellbore Name KO MD (ftKB) Main Hole 90.00 300.0 Directional Surveys: SINGLE SHOT **BOPs** Survey Company SINGLE SHOT Patterson Crew

Total AFE Amt (\$) 37511 Daily Cost Total Cum. Cost To Date Daily Mud Cost Mud Additive Cost To Da Deoth Start (ftKB) Depth End (ftKB) 7,719.0 7,690.0 Depth Progress (ftKB) Drilling Time (hrs) 29.0 0.00

) 12/11/2002, Report: 45.0, DFS: 45.00

**Page 1/2** 

#### **Ops Supervisors**

Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Rod Cuthill, Drilling Foreman Mark Moennich, Drilling Sup't Don Helms, Mud Engineer Randy Hackford, Tool Pusher Bill Hedglin, Geologist

#### Rigs: Bill Martin Jr., 3 Rig Superviso

John Day, Tool Pusher

## Rigs: Patterson U.T.I, 104

Rig Supervisor

Jesse Blanchard, Drilling Manager

#### 1, IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 Liner Size (in) Stroke (in) V/Stk (bbl/stk) 0.105 5 15.00

#### 2, IDECO, MM-550 Pump Number Pump Rating (hp) Diameter (in) 550.0 2.5197

Liner Size (in) Stroke (in) V/Stk (bbl/stk) 5 15.00 0.105

120.0		
	Nom Sz	
Туре	(in)	P(wkg) (psi)
Annular Preventers	13 5/8	1,500.0
Annular Preventers	11	1,500.0

Mud Additive Amou	Mud Additive Amounts				
Description	Consumed	Daily Cost (\$)			
BAROID USA PAC-R	1.0	109			
BAROID USA EZ-MUD	2.0	93			
BAROID USA MUD ENG LIVING ALLOWANCE	3.0	105			
BAROID USA ALDACIDE G	3.0	927			
BARIOD USA MUD CHECK	3.0	600			
BAROID USA CAUSTIC SODA	4.0	154			
BAROID USA COTTONSEED HULLS	14.0	223			
BAROID USA BARO SEAL COURSE	20.0	280			
BAROID USA REGULAR BARITE	30.0	109			
BAROID USA PLUG-GIT	75.0	1,409			

Report Printed: 12/12/2002

Page 2/2

ı aıı≲man ⊑nergy Canada - Daily Drilling Keport LEN JNTAIN #21-16. Da 12/11/20 12/11/2002, Report: 45.0, DFS: 45.00 Well Name: FORTUNA MIDDLE I

Job Type: Drilling - original

Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) 10/28/2002 8672.00 8655.00 17.00 Daily Summary

Mud Additive Amounts				
Description	Consumed	Daily Cost (\$)		
BAROID USA BARO SEAL MEDIUM	115.0	1,610		
BAROID USA QUICK GEL	122.0	348		

Formation Pick Groups: Drilling Sam... Formation Picks Group

Drilling Sample

9 ,	
Name	Top (ftKB)
Ferron	7,667.0
Bluegate	5,672.0
Emery	4,280.0
Mancos	3,073.0
Star Point	2,700.0
	····

Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade Wt (i Wt (lbs/ft) J-55 36.00 11/26/2002 9 5/8

Report Printed: 12/12/2002

CONFIDENTIAL



Service, Quality and Accuracy

P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-687-5311 Email: talon@etv.net

December 27, 2002

Mr. Eric Jones
Petroleum Engineer
Bureau of Land Management
82 East Dogwood
Moab, Utah 84532

RE: Sundry Notice (Weekly Drilling Reports)—Fortuna (US), Inc.

Middle Mountain #21-16— 1,309' FSL, 834' FEL
Section 21, T16S, R6E, SLB&M, Emery County, Utah

43-015-30436

Dear Mr. Jones:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the *Sundry Notices* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed application. Please feel free to contact myself or Mr. Mel Knezevich of Fortuna (US), Inc. at 1-780-402-1296 if you have any questions or need additional information.

Sincerely,

Don Hamilton

Don Hamilton

Agent for Fortuna (US), Inc.

**Enclosures** 

cc: Mr. Mike Kaminski, BLM-Price Field Office

Mr. Carter Reed, USDA Forest Service-Price SO

Mr. Tom Lloyd, USDA Forest Service—Ferron DO

Mrs. Carol Daniels, Division of Oil, Gas and Mining

Mr. Arne Hamarsnes, Fortuna (US), Inc.

Mr. Mark Moenich, Fortuna (US), Inc.

**RECEIVED** 

JAN 0 2 2003

DIV. OF OIL, GAS & MINING

Form 3160-5

Final Abandonment Notice

# DEPARTMENT OF THE INTERIOR

Form 3160-5 (June 1990) DEPARTM	NITED STATES ENT OF THE INTERIOR F LAND MANAGEMENT		Budget Bureau No. 1004-0135 Expires: March 31, 1993
	S AND REPORTS ON WELLS drill or to deepen or reentry to a different reservoir.	5.	Lease Designation and Serial No. UTU-77263
	FOR PERMIT—" for such proposals	6.	If Indian, Allottee or Tribe Name N/A
SUBMI	T IN TRIPLICATE	7.	If Unit or CA, Agreement Designation
	CONFIDENTIAL		N/A
. Type of Well Oil X Gas	COMMINE	8.	Well Name and No.
2. Name of Operator			Middle Mountain #21-16
Fortuna (US), Inc.		9.	API Well No.
. Address and Telephone No.			43-015-30426
Suite 3400, 888 3rd Street S	W, Calgary, Alberta T2P5C5 403-237	'-1163   <sup>10.</sup>	Field and Pool, or Exploratory Area Wildcat
. Location of Well (Footage, Sec., T., R., M., or S	urvey Description)		
1309' FSL, 834' FEL		11.	County or Parish, State
SE/4 SE/4, Section 21, T16	S, R6E, SLB&M		Emery County, Utah
2. CHECK APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE,	REPORT,	OR OTHER DATA
TYPE OF SUBMISSION	TYP	E OF ACTION	V
Notice of Intent		- · · · · · · · · · · · · · · · · · · ·	
X Subsequent Report	Change of Name	Char	nge of Plans

13. Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached are the weekly drilling reports for the Middle Mountain #21-16 well

Recompletion

**Plugging Back** 

Casing Repair

Altering Casing

Weekly Drilling Reports

**RECEIVED** JAN 0 2 2003

**New Construction** 

Water Shut-Off

Dispose Water

Non-Routine Fracturing

Conversion to Injection

FORM APPROVED

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true	e and correct		
Signed Don Hamilton Don Hamilton	Title Agent for Fortuna US	Dat	e <u>December 27, 2002</u>
(This space for Federal or State office use)			
Approved by	Title	_Date	

Report Printed: 12/22/2002

Tall—Ian Energy Canada - Daily Drillir Report Page 1/2
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Dai: 12/9/2002, Report: 43.0, DFS: 43.00

Spud Date 10/28/2002 Daily Summary	Kig Rel	ease Date	KB Elevation (ft) 8672.00	Ground Elevat 865	Annual Control of the	B-Ground Distance (ft) 17.00	AFE No. 37511 Daily Cost Total	Total AFE	
Weather		Road Co	ondition	Hole	Condition			COST	
Clear		Dry		Los	s circ and tig	ht.	Daily Mud Cost	Mud Additi	ve Cost To Da
Operations at Report Til 06:00 hrs Dec 10,		and for logs					Depth Start (ftKB)	Depth End	(ftKB)
Operations This Report		ond for logs.					7,709.0		709.0
		. Trip assembly	. Cure losses. Trip	in to drill. 🦳 🔿	OMEID	CAITINI	Depth Progress (ftKB)	Drilling Tim	
Operations Next Report				,		FNIA	0.0	1	0.00
Clean to bottom a	no oriii ane	eau.				E	Ops Supervisors		
<b>Time Log</b> Start Date   End Time   I	Nur (hee)   C	ode	Activity					ontact	
00:00 03:45	3.75 05		and/or Circulate m	ud Mix and	Comn Dump 250 bb	Is of LCM @ 25%.	Arnie Hamarsnes, I Rod Cuthill, Drilling		jineer
03:45 07:15	3.50 06	Tripping		Wiper tri to 7425 f to 7267 f	p. Hole very t t. Hole was v t.	ight. Pull from 7709 ery tight form 7425	Mel Knezevich, Drill Mark Moennich, Dri Don Helms, Mud Er	ing Forem lling Sup't	an
07:15 12:00	4.75 06	Tripping		Run to th		acked assembly. open nozzel bit. Mix e losses.	Roger Bromley, Too Bill Hedglin, Geolog	l Pusher	
12:00 14:30	2.50 06	Tripping			•	egain circulation.	Rigs: Bill Martin Jr	3	
14:30 19:30	5.00 05		and/or Circulate m	ud Mix and p volume a	oump LCM. Nond circulation	Mud is 45% LCM by	Rig Supervisor John Day, Tool Pus		
				regained			Rigs: Patterson U.	T.I, 104	
19:30 21:00	1.50 09	· · · · · · · · · · · · · · · · · · ·	rilling Line	Slip and			Rig Supervisor		
21:00 23:00 23:00 00:00	2.00 06	Tripping			drill ahead.		Jesse Blanchard, Di	iling Man	ager
	1.00 03	Reaming			7480 ft. Not sily. Wash to	a serious bridge, it bottom.	1, IDECO, MM-550 Pump Number Pump Ratin 1 550.		Diameter (in) 2.5197
<b>Mud Checks: 7,70</b>		12/9/2002 00:00 Depth (ftKB)	)  T(fl) (°F)	Density (lb/gal)	Vis (s/qt)	Plas Vis (cp)	Liner Size (in) Stroke (		Stk (bbl/stk)
	2/9/2002 00:	1 1 -1 - 1 - 1	,,,,,,,	8.5	43	10.0	1.4	5.00	0.105
	10 sec (cp)	gel 10 min (cp)	Filtrate (mL/30min)	HTHP Filt (mL/30mi	n Filter Cake (in)	MBT (lb/bbl)	2, IDECO, MM-550		
10.0 pH	4.0	9.0	DY ( - 1 ( - 1 )	1001	<del>-</del>		Pump Number Pump Ratir	ng (hp)  Rod [	Diameter (in)
ime (lb/bbl) pH	8.2	Pm (mL/mL)	Pf (mL/mL)	Calcium (mg/L)	Potassium (mg/	L) Polymer (lb/gal)	2 550.	0	2.5197
chlorides (mg/L) Sar	nd (%)	Solids (%)	Percent Oil (%)	Percent Water (%)	LG Solids (%)	Electric Stab (V)	Liner Size (in) Stroke (	in) V/ 5.00	5tk (bbl/stk) 0.105
Orill Strings: BHA	#12, Pac	ked Hole					BOPs		
it Ru(Bit	00 5004	IADC Bit		TFA (incl Noz) (in² F			Type	Nom S (in)	P(wkg) (ps
PRR 8 3/4in, GT-2 en (ft) Max OE		36 / 2-2-1 ng Components	NO-A-1-0-NO-HP	0.59	14.5	16/16/16	Annular Preventers		1 1,500.
			Reamer - 3 Pt, Sta	bilizer, Short Dr	ill Collar, Stal	bilizer, NMDC,	Mud Additive Amou	ınts	
	Sta	bilizer, Drill Col	lar, Drilling Jars - H	ydraulic, Drill Co	ollar, Drill Pip	e, Kelly	Description	Consumed	Daily Cost (\$
Prilling Paramete	rs: 0.0ftKI						BAROID USA	1.0	10
HA No. Depth	Start (ftKB) D	epth End (ftKB) Cui	m Depth (ftKB) Drill Time	(hrs) Cum Drill Tie	me (hr Int ROP (ft	/hr) Flow Rate (gpm)	PAC-R	2.0	
12 7, /OB (1000lbf) RPM 40	709.0 (rpm) 80	7,709.0 SPP (psi) Rot HI 1,600.0	636.0 0.0 (1000lbf) PU HL (1000	Olbf) SO HL (1000II	1	440 que Off Btm Tq	BAROID USA SODA ASH BAROID USA	3.0	2
		<del></del>	170 185	168			CAUSTIC SODA	3.0	11
Drill Strings: BHA it RuBit DRR 8 3/4in, GT-20		IADC Bit	Dull NO-A-1-0-NO-TD	TFA (incl Noz) (in² R 2.36	OP (ft/hr Nozzles	(/32") 32/32/32	BAROID USA MUD TRANSPORT	20.0	1,50
en (ft) Max OD 7719.15 6.7			Bit Sub, Drill Collar	· <u>.</u>			BAROID USA QUICK GEL	72.0	20
rilling Paramete	rs: 0.0ftKE						BAROID USA PLUG-GIT	110.0	2,06
	709.0	7,709.0	n Depth (ftKB) Drill Time 0.0 0.0 .(1000lbf) PU HL (1000	0.00	ne (hr Int ROP (ft/ of) Drilling Torq	252	BAROID USA COTTONSEED HULLS	145.0	2,31
40	60		172 176	168			BAROID USA	175.0	2,45
Velibores	Wellbore Na	me	VS Dir	(*)	KO MC	(ftKB)	BARO SEAL MEDIUM	175.0	∠, <del>4</del> 5
lain Hole				90.00		300.0			
Directional Survey	/s: SINGL	E SHOT			Company		Formation Pick Gro Formation Picks Group Drilling Sample	ups: Drill	ing Sam
INGLE SHOT				Patte	erson Crew		Name		Top (ftKB)
						ĺ	Bluegate	<del></del>	5,672.0
						1	Emery Mancos		4,280.0 3,073.0
							indicos		3,013.0

| Page 2/2 | Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 | 12/9/2002, Report: 43.0, DFS: 43.00 | Job Type: Drilling - original

ľ	Spud Date	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Name	Top (ftKB)
	10/28/2002		8672.00	8655.00	17.00	Star Point	2,700.0
	Daily Summary					Blackhawk	1,700.0
1							2

| Intermediate Casing, 4,413.0ftKB | Casing Run Date | Max OD (in) Grade | Wt (lbs/ft) | 11/26/2002 | 9 5/8 | J-55 | 36.00

Mancos

Star Point

3,073.0

2,700.0

Report Printed: 12/22/2002

~F =	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	AFE No.	Total AFE	Amt (\$)
10/28/2002	<u> </u>	8672.00	8655.00	17.00	37511	Cum C	To Dot:
aily Summary			The second secon		Daily Cost Total	Cum. Cost	10 Date
feather		Condition	Hole Condition	ed tight	Daily Mud Cost	Mud Additiv	ve Cost To Da
lear	Dry		Loss circ an	ia tignt.			
6:00 hrs Dec 11, log	bridge at 7256 ft		No. 1		Depth Start (ftKB)	Depth End	
perations This Report Perio		and the second s			7,709.0		719.0
		e. Condition hole trip ou	t and log.		Depth Progress (ftKB)	Drilling Tim	
perations Next Report Perio	od				10.0	1	1.00
og hole, strap in, con	ndition and trip to VS	SP.			Ops Supervisors		
ime Log					Co	ntact	
art Date End Time Dur (h		Activity		Comment	Arnie Hamarsnes, D		
	.75 03 Reamin	19	Wash to bottom.		Mel Knezevich, Drilli	_	an
	.00 02 Drilling		Drill to 7719		Rod Cuthill, Drilling I		
		on and/or Circulate mu		ndition hole.	Mark Moennich, Drill		
	.00 06 Tripping		Trip out to log.		Don Helms, Mud En	-	
0:00 00:00 4	.00 11 Wireline	e Logs	Rig in loggers an	d log.	Roger Bromley, Too		
rill Strings: BHA #1	3, Slick				Bill Hedglin, Geologi	st	
t RuiBit	IADC		TFA (incl Noz) (in² ROP (ft/hr)		Dines Bill Manda	•	
RR 8 3/4in, GT-20S		-2-NO-A-1-0-NO-TD	2.36 10.0	32/32/32	Rigs: Bill Martin Jr.	, 3	
en (ft) Max OD (in)			Dalling ton 11 1 1	- Dell College Dell Di-	John Day, Tool Push	ner	
7719.15 6.750	•	5 , Bit Sub, Drill Collar,	Drilling Jars - Hydrauli	ic, Drill Collar, Drill Pipe,	22,, 100,1 451		
i	Kelly				Rigs: Patterson U.1	.l, 104	
rilling Parameters:					Rig Supervisor	illing Man-	
·		Cum Depth (ftKB) Drill Time (			Jesse Blanchard, Dr	ming Man	ayer
13 7,709	,	10.0 1.00		10.0 252	1, IDECO, MM-550		
OB (1000lbf) RPM (rpm 40 6(		172 PU HL (1000)	bf) SO HL (1000lbf) Drilli 168	ng Torque Off Btm Tq	Pump Number Pump Ratin		
40 60	200.0	1/2 1/0	100		1 550.0		2.5197
<u>/ellbores</u>	M Man	1000	(a)	VO MD (AVD)	Liner Size (in) Stroke (i		Stk (bbl/stk)
lain Hole	ellbore Name	VS Dir (	90.00	KO MD (fiKB) 300.0		.00	0.105
		:	30.00	300.0	Pump Checks		
irectional Surveys:	SINGLE SHOT					Strokes	D) == (24)
escription			Survey Compan Patterson C	-	P (psi) Slow Spd 0.0 No	(strokes/mir	n) Eff (%) 0 90
INGLE SHOT			raileisun C	ICW	<del> </del>		U 91
urvey Data MD (ftKB) Incl (	(°)   Azm (°)	TVD (fiKB) NS (fi	EW (ft)	VS (ft) DLS (*/100ft)	2, IDECO, MM-550	·,, .,=	<del></del>
MD (ftKB)   Incl ( 7,670.00	1.00 103.00	L	92.81 -50.81	-50.81 0.22	Pump Number Pump Ratin 2 550.1	- 1	Diameter (in) 2.5197
. 10.0.0					2 350.0		
					Liner Size (in) Stroke (i		Stk (bbl/stk)
					i	.00	0.105
					Pump Checks	T =:	<del></del>
					P (psi) Slow Spd	Strokes (strokes/mir	n) Eff (%)
					280.0 No	1	0 90
							<u> </u>
					BOPs	Nom S	· ·
					Туре	(in)	
					Annular Preventers		11 1,500.
					Mud Additive Amou	inte	
					Description		Daily Cost (\$)
					BAROID USA	2.0	21
					PAC-R		
					BAROID USA	30.0	563
					PLUG-GIT		
					BAROID USA	50.0	18
					REGULAR BARITE		
					BAROID USA	80.0	1,12
					BARO SEAL	1	.,.=
					COURSE		
						<u> </u>	
					Formation Pick Gro	ups: Dril	ling Sam
					Formation Picks Group		
					Drilling Sample		
					Name		Top (ftKB)
					Bluegate		5,672.
					Emery		4,280.
					Mancos		3.073 (

Tali. an Energy Canada - Daily Drillir Report Page 2/2
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Date 12/10/2002, Report: 44.0, DFS: 44.00
Job Type: Drilling - original

ud Date Rig Release Da 10/28/2002	te KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	Name Blackhawk	Top (ftKB) 1,700.
aily Summary	0072.00	3030.00		Intermediate Casing, 4,413. Casing Run Date Max OD (in) Grade 11/26/2002 9 5/8 J-55	OftKB
				Casing Run Date Max OD (in) Grade	Wt (lbs/ft) 36.00
				11/20/2002 9 5/8 3-55	30.00
				. i l	

Tali an Energy Canada - Daily Drillir Report

Date: 12/11/2002, Report: 45.0, DFS: 45.00

Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Job Type: Drilling - original

Spud Da			ig Release	Date	KB Elevat		Ground	Elevation (ft	) КВ-(	Ground Distance (ft)	AFE No.	
	0/28/2					8672.00		8655.00	<u></u>	17.00	375	
Daily S		ary									Daily Cost To	tal
Weather					d Condition			Hole Cond	ition		Delt Mad On	
Cloudy				Dry				Good			Daily Mud Co	st /
		oort Time c 12, Circ a	nd cond	holo to I							Depth Start (fi	KB)
		C 12, Circ a	ina cona	HOIC IO	og.						7,71	
			ft to 44	13 ft Trin	in to clean	out Plugged	hit with	ICM Tri	n and unnli	ug jets. Trip in	Depth Progres	
and cle	ean ou	t. Ream an	d wash f	rom 7250	6 ft to 7500f	t.	OIL WILL	LOW. TH	o and unph	ag jets. Tilp ili	29	.0
Operatio	ns Next f	Report Period				** * * * * * * * * * * * * * * * * * * *		000		** * * * * * * * * * * * * * * * * * * *	-	
Ream	wash t	o bottom fr	om 7500	ft. Circ,	wiper trip,cir	c, trip to log,	log.				Ops Supe	rvisors Contr
Time t	-oa								******	a. 7 1 1 1 2 hours	Arnie Ham	arsnes. Dril
Start Dat	e End T	ime Dur (hrs)	Code	<u> </u>	Activ	ity			Commen	t	1 3	vich, Drilling
00:00	07:0	7.00	):11	Wirelin	e Logs					56 ft and log out.		I, Drilling Fo
	1						•		ls for clear			nnich, Drillin
07:00	21:0	0 14.00	06	Trippin	g					gged with LCM.	Don Helms	s, Mud Engi
		1	i	1						BHA. Trip in to		kford, Tool
	:		,	1			725	6 ft and ta	ig bridge.		1 1	n, Geologist
21:00	00:0	3.00	03	Reamir	ng					m. Pushing	- J	,
	:			:						bit. Reaming at	Rigs: Bill	Martin Jr.,
	i		1	1			750	0 ft at 24:	00 hrs.		Rig Supervisor	
Drill S	tringe	BHA #14,	Slick								John Day,	Tool Pushe
Bit RurBi			Ollok	IADO	Bit Dull	TF	A (incl No	z) (in² ROP (i	ft/hri Nozzles (/	32")	Rigs: Patt	erson U.T.I
9RR:8	3/4in,	GT-20S , 5	5021367	2-	-2-NO-A-1-0	-NO-TD	2.36		,	32/32/32	Rig Supervisor	
Len (ft)	- 1	Max OD (in)		mponents		<del></del>					Jesse Blan	chard, Drilli
7689	.57	6.750		s GT-205	5 , Bit Sub,	Drill Collar, D	Prilling J	lars - Hydr	aulic, Drill	Collar, Drill Pipe,	1, IDECO.	MM-550
	i	,	Kelly									Pump Rating (
Drilline	o Para	meters: 0.0	OftKB								]] 1	550.0
BHA No.				End (ftKB)	Cum Depth (fth	(B) Drill Time (hr	s) Cum	Drill Time (h	r Int ROP (ft/hr	) Flow Rate (gpm)	Liner Size (in)	Stroke (in)
14		7,690.0		690.0	0.0	0.00		0.00		252	5	15.0
WOB (10	,	RPM (rpm)	SPP			PU HL (1000lbf	SO HI		Drilling Torque	Off Btm Tq	2, IDECO.	1414 EEO
	) 	50	50	0.00	168	172		164				Pump Rating (
Wellbo	res										2	550.0
		Wellbo	re Name			VS Dir (*)			KO MD (		Liner Size (in)	Stroke (in)
Main H	ole						90.00		1 4	300.0	5	15.0
Directi	onal S	urveys: Si	NGLE S	HOT							BOPs	
Description		_						Survey Con			BUFS	
SINGL	E SHO	·						Patterso	n Crew			уре
											Annular Pre	eventers
											Mud Addit	ive Amount

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
7,719.0	7,690.0
Depth Progress (ftKB)	Drilling Time (hrs)
29.0	0.00

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# Supervisors Contact

e Hamarsnes, Drilling Engineer Knezevich, Drilling Foreman Cuthill, Drilling Foreman Moennich, Drilling Sup't Helms, Mud Engineer dy Hackford, Tool Pusher ledglin, Geologist

## : Bill Martin Jr., 3

## : Patterson U.T.I, 104

e Blanchard, Drilling Manager

1, IDECO, 1	MM-550	
Pump Number	Pump Rating (hp)	Rod Diameter (in)
1	550.0	2.5197
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
5	15.00	. 0.105

#### ECO, MM-550 Number Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 ize (in) Stroke (in) V/Stk (bbl/stk) 15.00

#### Nom Sz P(wkg) (psi) 11 1,500.0 Туре (in) lar Preventers

0.105

	เกเร	
Description	Consumed	Daily Cost (\$)
BAROID USA PAC-R	1.0	109
BAROID USA EZ-MUD	2.0	93
BAROID USA MUD ENG LIVING ALLOWANCE	3.0	105
BAROID USA ALDACIDE G	3.0	927
BARIOD USA MUD CHECK	3.0	600
BAROID USA CAUSTIC SODA	4.0	154
BAROID USA COTTONSEED HULLS	14.0	223
BAROID USA BARO SEAL COURSE	20.0	280
BAROID USA REGULAR BARITE	30.0	109
BAROID USA PLUG-GIT	75.0	1,409

Report Printed: 12/22/2002

Talis an Energy Canada - Daily Drillin Report

Page 2/2 Date. 12/11/2002, Report: 45.0, DFS: 45.00 Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Job Type: Drilling - original

KB-Ground Distance (ft) KB Elevation (ft) Ground Elevation (ft) Rig Release Date Spud Date 17.00 8672.00 8655.00 10/28/2002 **Daily Summary** 

**Mud Additive Amounts** Consumed Daily Cost (\$) Description BAROID USA 1,610 115.0 BARO SEAL MEDIUM BAROID USA 122.0 348 QUICK GEL

Formation Pick Groups: Drilling Sam... Formation Picks Group Drilling Sample

Top (ftKB) Bluegate 5,672.0 Emery 4,280.0 Mancos 3,073.0 Star Point 2,700.0 1,700.0 Blackhawk

Intermediate Casing, 4,413.0ftKB Wt (lbs/ft) Casing Run Date Max OD (in) Grade 36.00 11/26/2002 9 5/8 J-55

Report Printed: 12/22/2002

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Talis an Energy Canada - Daily Drillin Report
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16
Data 12/12/200 Date 12/12/2002, Report: 46.0, DFS: 46.00

10/28/200		e Date K	8 Elevation (ft) 8672.00	Groun	nd Elevatio 8655.		Ground Distance (ft)	AFE No. 37511		al AFE An	III ( <b>4</b> )
Daily Summar	1		5572.00				17.00	Daily Cost Total		n. Cost To	Date
Veather		Road Condi	ition		Hole C	Condition				II. 000t 10	Dute
Clear		Dry			Good			Daily Mud Cost	Muc	Additive	Cost To Da
perations at Repor		······································									
6:00 hrs Dec	,							Depth Start (ftKB) 7,690.0		oth End (ft	
perations This Rep		m. Circulata an	d condition halo	Minor tri	- 000 <del>8</del>	Circulata an	d condition. Pump			o, / ing Time	90.0
lug, trip to log		in. Circulate an	a condition note.	wiper tri	p 900 it.	. Circulate and	u condition. Pump	0.0	,	-	00
perations Next Rep	_		·	131	Table 1			-			
/SP, clean out								Ops Supervi	SOFS Contact	<del></del>	
ime Log						· · · · · · · · · · · · · · · · · · ·	564	Arnie Hamars		a Engir	neer
start Date End Time	e Dur (hrs) Code	•	Activity	- 1		Comme	nt	Mel Knezevic	•		
0:00 02:15	2.25 03	Reaming		W	ash / re	am from 7500	oft to 7690 ft.	Mark Moennic	,		
2:15 05:15	3.00 06	Tripping				900 ft to 680		Don Helms, M	lud Engine	er	
5:15   08:30	3.25 05	Condition ar	nd/or Circulate m				hole. Mix and	Randy Hackfo	ord, Tool Pu	usher	
		+				ghted slug.		Bill Hedglin, G	Seologist		
8:30 12:30	4.00 06	Tripping			<u> </u>		ut the first 900 ft.	Di Dill 84-			•
2:30 12:30	11_	Wireline Log	js	Lo	g with S	Schlumberger.		Rigs: Bill Ma	rtin Jr., 3		
	7,690.0ftKB, 12/							John Day, Too	ol Pusher		
ype	Date	Depth (ftKB)	T(fl) (°F)	Density (lb.		Vis (s/qt)	Plas Vis (cp)				
Sel-Chem ield Point (cp)	12/12/2002 00:00 gel 10 sec (cp)	7,690.0 gel 10 min (cp)	Filtrate (mL/30min)	HTHP Filt (	-	88 Filter Cake (in)	23.0	Rigs: Patters	on U.T.I, 1	04	
19.0	6.0	30.0	10.0	THE PART	mesomin	2.000	MBT (lb/bbl)	Rig Supervisor Jesse Blancha	ard Drilling	Manar	ner .
me (lb/bbl)	рН	Pm (mL/mL)	Pf (mL/mL)	Calcium (m	ig/L)	Potassium (mg/L)	Polymer (fb/gal)	1		···anag	,
	8.0		0.000	20.0	000		•	1, IDECO, MA Pump Number Pu		Pod Die	mater (in)
	Sand (%)	Solids (%)	Percent Oil (%)	Percent Wa	ater (%)	LG Solids (%)	Electric Stab (V)	1	mp Kaung (np) 550.0		.5197
600.000	<u> </u>	i		<u> </u>	اـــــا	L		Liner Size (in)	Stroke (in)	-	k (bbl/stk)
	HA #14, Slick							5	15.00	7,04	0.105
RuiBit	T-20S , 502136	IADC Bit Du	ill D-A-1-0-NO-TD	TFA (incl N 2.36		OP (ft/hr Nozzles (/	·	2, IDECO, MN	1 FEA		
		Components	-A-1-0-NO-1D	2.30	<u> </u>		32/32/32	Pump Number Pui		Rod Dia	meter (in)
		•	A COME DAIL CALL						nio Rauno (no)		
	12 - 0		IL SUD, DITH COHA	r, Drilling	Jars - H	lydraulic, Drill	Collar, Drill Pipe.	2	550.0		.5197
	Kelly	·	t Sub, Drill Colla	r, Drilling	Jars - H	lydraulic, Drill	Collar, Drill Pipe,	2		2	.5197 ((bbl/stk)
rilling Parame			C Sub, Drill Colla	r, Drilling	Jars - H	lydraulic, Drill	Collar, Drill Pipe,	2	550.0	2	
Orilling Paramo	eters: 0.0ftKB		Depth (ftKB) Drill Time			lydraulic, Drill		Liner Size (in)	550.0 Stroke (in) 15.00	2	(bbl/stk)
HA No. De	eters: 0.0ftKB epth Start (ftKB) Dept 7,690.0	th End (ftKB) Cum C 7,690.0	Depth (ftKB) Drill Time	(hrs) Cur	m Drill Tim 0.00	ie (hr Int ROP (ft/h	r) Flow Rate (gpm)	Liner Size (in) 5 Pump Checks	550.0 Stroke (in) 15.00	V/Str	(bbl/stk)
14 No. De 14 OB (1000lbf) R	eters: 0.0ftKB epth Start (ftKB) Dept 7,690.0 7 PM (rpm) SPI	th End (ftKB) Cum D 7,690.0 P (psi) Rot HL (1	Depth (ftKB) Drill Time 0.0	(hrs) Cur	m Drill Tim 0.00 IL (1000lbl	ie (hr Int ROP (ft/h	r) Flow Rate (gpm) 252	Liner Size (in) 5 Pump Checks P (psi) Slo	550.0 Stroke (in) 15.00 S sw Spd St (stroi	V/Stk	((bbl/stk) 0.105 Eff (%)
1A No. De	eters: 0.0ftKB epth Start (ftKB) Dept 7,690.0 7 PM (rpm) SPI	th End (ftKB) Cum C 7,690.0	Depth (ftKB) Drill Time 0.0	(hrs) Cur	m Drill Tim 0.00	e (hr Int ROP (ft/h	r) Flow Rate (gpm) 252	Liner Size (in) 5 Pump Checks P (psi) Slo	550.0 Stroke (in) 15.00	V/Str	((bbl/stk) 0.105 Eff (%)
14 No. De 14 De 15 De 16 De 17	eters: 0.0ftKB  ppth Start (ffKB) Dept 7,690.0  PM (rpm) 50	th End (ftKB) Cum D 7,690.0 P (psi) Rot HL (1	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	(hrs) Cur	m Drill Tim 0.00 IL (1000lbl	e (hr int ROP (ft/n	r) Flow Rate (gpm) 252 e Off Blm Tq	Liner Size (in) 5 Pump Checks P (psi) Slo	550.0 Stroke (in) 15.00 S sw Spd St (stroi	V/Sti-	((bbl/stk) 0.105 Eff (%)
14 No. De 14 De 14 De 15 De 16 De 16 De 17	eters: 0.0ftKB epth Start (ftKB) Dept 7,690.0 7 PM (rpm) SPI	th End (ftKB) Cum D 7,690.0 P (psi) Rot HL (1	Depth (ftKB) Drill Time 0.0	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	e (hr Int ROP (ft/h	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Sic 500.0 BOPs	550.0 Stroke (in) 15.00 S sw Spd St (stroi	V/Sth	( (bbl/stk) 0.105 Eff (%)
HA No. 14 OB (1000lbf) RI O fellbores Ain Hole	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	(hrs) Cur	m Drill Tim 0.00 IL (1000lbl 164	e (hr int ROP (ft/n	r) Flow Rate (gpm) 252 e Off Blm Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs	550.0 Stroke (in) 15.00 S S S Sww Spd (strok No	V/Sti-	( (bbl/stk) 0.105  Eff (%) 9
HA No. 14 OB (1000lbf) RI O //ellbores ain Hole	eters: 0.0ftKB  ppth Start (ffKB) Dept 7,690.0  PM (rpm) 50	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	n Drill Tim 0.00 IL (1000lbl 164	ie (hr]Int ROP (ft/h f) Drilling Torqu KO MD (	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Sto 500.0 BOPs Type Annular Preven	550.0  Stroke (in) 15.00  S S Stroke Spd (stroke) No	V/Sth	( (bbl/stk) 0.105 Eff (%)
HA No. 14 OB (1000lbf) RI O /ellbores lain Hole irectional Surescription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Sic 500.0 BOPs Type Annular Prever	550.0  Stroke (in) 15.00  S S S S W Spd (strok No  Inters  Amounts	v/Sth	Eff (%) P(wkg) (p 1,500
A No. 14  OB (1000lbf) RI  O /ellbores  ain Hole irectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	ie (hr]Int ROP (ft/h f) Drilling Torqu KO MD (	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Sto 500.0 BOPs Type Annular Preven	550.0  Stroke (in) 15.00  S S Signary Spd (strok No  Inters  Amounts Cons	v/Sth	(bbl/stk) 0.105  Eff (%) (9) (9) 1,500
A No. 14  DB (1000lbf) RI  O   Vellbores  ain Hole  irectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING	Stroke (in) 15.00  S S S S S S S S S S S S S S S S S S	2   V/Stk	(bbl/stk) 0.105  Eff (%) (9) (9) 1,500
A No. 14  DB (1000lbf) RI  O   Vellbores  ain Hole  irectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Prever Mud Additive Description BAROID USA	Stroke (in) 15.00  S S S S S S S S S S S S S S S S S S	2   V/Stk	(bbl/stk) 0.105  Eff (%) (9) (9) 1,500
AA No. 14 OB (1000lbf) RI O /ellbores ain Hole irectional Sur	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA	Stroke (in) 15.00  S S S S WW Spd (strok No  Inters  Amounts Cons MUD	2   V/Stk	Eff (%)  P(wkg) (r  1,500
AA No. 14 OB (1000lbf) RI O /ellbores ain Hole irectional Sur	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE	Stroke (in) 15.00  S S S S WW Spd (strok No  Inters  Amounts Cons MUD	rokes kes/min) 60  Nom Sz (in) 11  umed Di 1.0	Eff (%) P(wkg) (p 1,500
A No. 14  DB (1000lbf) RI  O   Vellbores  ain Hole  irectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA	Stroke (in) 15.00  S S S S WW Spd (strok No  Inters  Amounts Cons MUD	v/strokes kes/min) 60 Nom Sz (in) 11 umed Di 1.0	Eff (%)  P(wkg) (r  1,500
AA No. 14 OB (1000lbf) RI O /ellbores ain Hole irectional Sur	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G	Stroke (in) 15.00  S S S S WW Spd (strok No  Inters  Amounts Cons MUD	rokes kes/min) 60  Nom Sz (in) 11  umed Di 1.0	Eff (%) P(wkg) (r 1,500
A No. 14 DB (1000lbf) RI 0 Velibores ain Hole irectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G BAROID USA	Stroke (in) 15.00  S S S W Spd (strok No  No  No  MUD	rokes kes/min) 60  Nom Sz (in) 11  umed Di 1.0	Eff (%) P(wkg) (r 1,500 aily Cost (f
A No. 14 DB (1000lbf) RI 0 Velibores ain Hole irectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G BAROID USA ALDACIDE G BAROID USA EZ-MUD	Stroke (in) 15.00  S S W Spd (strok No  Inters  Amounts Cons MUD	2   V/Sth	Eff (%)  P(wkg) (r 1,500  aily Cost (f
A No. 14 DB (1000lbf) RI 0 Pelibores ain Hole rectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G BAROID USA EZ-MUD BAROID USA	Stroke (in) 15.00  S S S W Spd (strok No  Inters  Amounts Cons MUD	rokes kes/min) 60  Nom Sz (in) 11  umed Di 1.0  1.0	Eff (%)  P(wkg) (r  1,500  aily Cost (
A No. 14 DB (1000lbf) RI 0 Pelibores ain Hole rectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G BAROID USA ALDACIDE G BAROID USA ALDACIDE G BAROID USA CAUSTIC SOL	Stroke (in) 15.00  S S S W Spd (strok No  No  No  MUD  DA	2   V/Sth	Eff (%)  P(wkg) (r  1,500
A No. 14 DB (1000lbf) RI 0 Pelibores ain Hole rectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum C 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G BAROID USA ALDACIDE G BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA	Stroke (in) 15.00  S S S W Spd (strok No  No  No  MUD  DA	2   V/Sth	Eff (%)  P(wkg) (r  1,500
A No. 14 DB (1000lbf) RI 0 ellbores ain Hole rectional Sur	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum D 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G BAROID USA EZ-MUD BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA QUICK GEL	Stroke (in) 15.00  S S S S S S S S S S S S S S S S S S	2   V/Sth	Eff (%)  P(wkg) (r  1,500  aily Cost (
A No. 14 DB (1000lbf) RI 0 Velibores ain Hole irectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum D 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G BAROID USA ALDACIDE G BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA	Stroke (in) 15.00  S S S S S S S S S S S S S S S S S S	2   V/Sth	Eff (%) P(wkg) (r 1,500 aily Cost (f
AA No. 14 OB (1000lbf) RI O /ellbores ain Hole irectional Sur	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum D 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA ALDACIDE G BAROID USA EZ-MUD BAROID USA CAUSTIC SOD BAROID USA QUICK GEL BAROID USA REGULAR BAI	Stroke (in) 15.00  S S S S S S S S S S S S S S S S S S	2	(bbl/stk) 0.105  Eff (%) 9 1,500  aily Cost (3
A No. 14 DB (1000lbf) RI 0 Pelibores ain Hole rectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum D 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	Pump Checks P (psi) Slo 500.0 BOPs Type Annular Preve Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BAROID USA CHECK BAROID USA ALDACIDE G BAROID USA ALDACIDE G BAROID USA CAUSTIC SOE BAROID USA CAUSTIC SOE BAROID USA CAUSTIC SOE BAROID USA QUICK GEL BAROID USA	Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) (strok No No No No No No No No No No No No No	2	Eff (%)  P(wkg) (r  1,500  aily Cost (
A No. 14 DB (1000lbf) RI 0 Pelibores ain Hole rectional Surscription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum D 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Sic 500.0 BOPs  Type Annular Preveit Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BAROID USA CHECK BAROID USA CHECK BAROID USA CHECK BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA COLUCK GEL BAROID US	Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) Stroke	2	Eff (%)  P(wkg) (r  1,500  aily Cost (6)
AA No. 14 OB (1000lbf) RI O /ellbores ain Hole irectional Sur	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum D 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs  Type Annular Preve  Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA CHECK BAROID USA CLECK BAROID USA CLECK BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA COLUCK GEL COLUCK GEL BAROID USA COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUC	Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) Stroke	2	Eff (%) P(wkg) (r 1,500  aily Cost (3  20  61  20  g Sam
HA No. 14 OB (1000lbf) RI O /ellbores lain Hole irectional Surescription	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum D 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs  Type Annular Preve  Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA CHECK BAROID USA CLECK BAROID USA CLECK BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUC	Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) Stroke	2	Eff (%)  P(wkg) (p 1,500  aily Cost (\$  20  61  9  15  2  16  g Sam  op (fiKB) 5,672.
14 No. 14 De 14 No. 15 No. 16	eters: 0.0ftKB  poth Start (ftKB) Dept 7,690.0 7  PM (rpm) 50  Wellbore Name	th End (ffKB) Cum D 7,690.0 P (psi) Rot HL (1 500.0 16	Depth (ftKB) Drill Time 0.0 0000lbf) PU HL (100 58 172	Olbf) SO H	m Drill Tim 0.00 IL (1000lbl 164	f) Drilling Torqui	r) Flow Rate (gpm) 252 e Off Bim Tq	2 Liner Size (in) 5 Pump Checks P (psi) Slo 500.0 BOPs  Type Annular Preve  Mud Additive Description BAROID USA ENG LIVING ALLOWANCE BARIOD USA CHECK BAROID USA CHECK BAROID USA CLECK BAROID USA CLECK BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA CAUSTIC SOL BAROID USA COLUCK GEL COLUCK GEL BAROID USA COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUCK GEL COLUC	Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) 15.00 s Stroke (in) Stroke	2	Eff (%)  P(wkg) (p 1,500  61  9  15  20  63  46  9  15  20  65  46  9  16

Talis an Energy Canada - Daily Drillin Report Page 2/2
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Date 12/12/2002, Report: 46.0, DFS: 46.00
Job Type: Drilling - original

Spud Date Rig F 10/28/2002	Release Date KB E	Elevation (ft) 8672.00	Ground Elevation (ft)	KB-Ground Distance (ft)	Nan	ne	Top (ftKB)
10/28/2002		9672.00	0055.00				
		0072.00	8655.00	17.00	Star Point		2,700.0
Daily Summary			<u> </u>		Blackhawk		1,700.0
					The Competition	all keeping on ke	7 x m
					Intermediate C	Casing, 4,41	3.0ftKB
					Casing Run Date Ma	ax OD (in) Grade	Wt (lbs/ft)
					11/26/2002	9 5/8 J-5	55 36.00

Report Printed: 12/22/2002

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Talisan Energy Canada - Daily Drilling Report

Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Date-12/13/2002, Report: 47.0, DFS: 47.00

Job Type: Drilling - original

KB-Ground Distance (ft) Spud Date KB Elevation (ft) Ground Elevation (ft) Rig Release Date 8655.00 17.00 10/28/2002 8672.00 Daily Summary Road Condition Hole Condition Dry Good Clear Operations at Report Time 06:00 hrs Dec 14, Circ and cond to case Operations This Report Period Complete logging with Schlumberger. Rig in Baker Atlas and run VSP. Rig down VSP equipment and start in the hole. Operations Next Report Period Clean out trip and run casing Time Log
Start Date End Time Dur (hrs) Code Comment Wireline Logs Complete logging operations with 00:00 02:00 2.00 11 Schlumberger. 20.50 11 Rig in Atlas and run VSP 22:30 Wireline Logs 02:00 Clean out trip. 00:00 1.50 06 Tripping 22:30 Drill Strings: BHA #15, Slick IADC Bit Dull TFA (incl Noz) (inz ROP (ft/hi Nozzles (/32") Bit Rui Bit 2-2-NO-A-1-0-NO-TD 32/32/32 9RR 8 3/4in, GT-20S , 5021367 2.36 Max OD (in) String Components Len (ft) Hughes GT-20S , Bit Sub, Drill Collar, Drilling Jars - Hydraulic, Drill Collar, Drill Pipe, 7689.57 6.750 Kelly **Drilling Parameters: 0.0ftKB** Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) BHA No. 252 15 7,690.0 7,690.0 0.0 0.00 Rot HL (1000lbf) PU HL (1000lbf) Off Btm Tq WOB (1000lbf) SPP (psi) SO HL (1000lbf) Drilling Torque 35 500.0 175 0 Wellbores VS Dir (\*) KO MD (ftKB) Wellbore Name Main Hole 90.00 300.0 Directional Surveys: SINGLE SHOT Survey Company SINGLE SHOT Patterson Crew

AFE No.			And	/ <b>\$</b> \		
375	11	Total AFE	Am	. (3)		
Daily Cost Total	al	Cum. Cos	То	Date		
Daily M. of Co.				Seed To Date		
Daily Mud Cos	i	Mud Additive Cost To Date				
Depth Start (ftl	KB)	Depth End (ftKB)				
7,69				0.0		
Depth Progres 0.		Drilling Tir	ne (1 0.0			
		<u></u>	0.0			
Ops Supe						
Arnie Ham		ntact rilling En	ain	Per		
Mel Kneze						
Mark Moen						
Don Helms	, Mud Eng	gineer				
Randy Had	•		٢			
Bill Hedglin	, Geologi	st				
Rigs: Bill I	Martin Jr.	, 3				
Rig Supervisor						
John Day,	Tool Push	er				
Rigs: Patte	erson U.T	l, 104				
Rig Supervisor						
Jesse Blan	chard, Dri	lling Mar	nag	er		
1, IDECO,	MM-550					
Pump Number	Pump Ratin 550.0			neter (in) 5197		
Lines Size (iz)	4			(bbl/stk)		
Liner Size (in) 5		.00	(DDI/STK) 0.105			
l						
2, IDECO, Pump Number	Pump Ratin	g (hp) Rod	Dia	neter (in)		
2	550.0			5197		
Liner Size (in)				(bbl/stk)		
5	15	חח :		0.105		
		.00				
Pump Che						
	cks	Strokes	in)	Eff (%)		
Pump Che P (psi) 500.0		Strokes (strokes/m	in)	Eff (%)		
P (psi) 500.0	c <b>ks</b> Slow Spd	Strokes (strokes/m				
P (psi)	c <b>ks</b> Slow Spd	Strokes (strokes/m	60 Sz	90		
P (psi) 500.0 BOPs	Slow Spd No	Strokes (strokes/m	Sz	90 P(wkg) (psi)		
P (psi) 500.0 BOPs	Slow Spd No	Strokes (strokes/m	60 Sz	90 P(wkg) (psi)		
P (psi) 500.0  BOPs  Annular Pre  Mud Addit	Slow Spd No No ype eventers	Strokes (strokes/m ( Nom (in)	Sz 11	90 P(wkg) (psi) 1,500.0		
P (psi) 500.0  BOPs The Annular Pre Mud Addition Descrip	Slow Spd No No ype eventers ive Amou	Strokes (strokes/m (strokes/m (in))	Sz 11	90 P(wkg) (psi) 1,500.0 nily Cost (\$)		
P (psi) 500.0  BOPs The Annular Pre Mud Addithe Description USENG LIVIN	Slow Spd No No ype eventers ive Amou	Strokes (strokes/m ( Nom (in)	Sz 11	90 P(wkg) (psi) 1,500.0		
P (psi) 500.0  BOPs The Annular Prescription Description Use Service Descripti	Slow Spd No No ype eventers ive Amou	Strokes (strokes/m (strokes/m (in))	Sz 11	90 P(wkg) (psi) 1,500.0 nily Cost (\$)		
P (psi) 500.0  BOPs  Annular Pre Mud Addit Descrip BAROID U: ENG LIVIN ALLOWAN BARIOD U:	Slow Spd No No sype eventers ive Amou otion SA MUD G CE	Strokes (strokes/m (strokes/m (in))	Sz 11	90 P(wkg) (psi) 1,500.0 nily Cost (\$)		
P (psi) 500.0  BOPs  I Annular Pre Mud Addition Descript BAROID UI ENG LIVIN ALLOWAN BARIOD UI CHECK	slow Spd No No sype eventers ive Amou otion SA MUD G CE	Strokes (strokes/m (in))  Ints  Consumed 1.0	Sz 11	90 P(wkg) (psi) 1,500.0 aiiy Cost (\$) 35		
P (psi) 500.0  BOPs  Annular Pre Mud Additi Descrip BAROID UI ENG LIVIN ALLOWAN BARIOD UI CHECK BAROID UI	Slow Spd No No sype eventers ive Amou otion SA MUD G CE SA MUD	Strokes/m (strokes/m (in))	Sz 11	90 P(wkg) (psi) 1,500.0 sity Cost (\$)		
P (psi) 500.0  BOPs  I Annular Pre Mud Addition Descript BAROID UI ENG LIVIN ALLOWAN BARIOD UI CHECK	Slow Spd No No sype eventers ive Amou otion SA MUD G CE SA MUD	Strokes (strokes/m (in))  Ints  Consumed 1.0	Sz 11	90 P(wkg) (psi) 1,500.0 aiiy Cost (\$) 35		
P (psi) 500.0  BOPs  The secretary of th	Slow Spd No No Sype eventers ive Amou otion SA MUD G CE SA MUD	Strokes (strokes/m (in)) Ints Consumed 1.0	Sz 111	90 P(wkg) (psi) 1,500.0 iiiy Cost (\$) 35 200		
P (psi) 500.0 BOPs T: Annular Pre Mud Additi Descrip BAROID U: ENG LIVIN ALLOWAN BARIOD U: CHECK BAROID U: QUICK GE: Formation Formation Picks	Slow Spd No  No  ype eventers ive Amou otion SA MUD G CE SA MUD SA L  Pick Gro s Group	Strokes (strokes/m (in)) Ints Consumed 1.0	Sz 111	90 P(wkg) (psi) 1,500.0 iiiy Cost (\$) 35 200		
P (psi) 500.0  BOPs  The Annular Present Service Servi	slow Spd No No No No No No No No No No No No No	Strokes (strokes/m (in)) Ints Consumed 1.0	Sz 111 De	90 P(wkg) (psi) 1,500.0 aity Cost (\$) 35 200 63 g Sam		
P (psi) 500.0 BOPs  To Annular Pre Mud Addition Description BAROID USENG LIVIN ALLOWAN BARIOD USCHECK BAROID US	Slow Spd No  No  ype eventers ive Amou otion SA MUD G CE SA MUD SA L  Pick Gro s Group	Strokes (strokes/m (in)) Ints Consumed 1.0	Sz 111 De	90 P(wkg) (psi) 1,500.0 iiiy Cost (\$) 35 200 63 g Sam		
P (psi) 500.0  BOPs  To Annular Pre Mud Addition Description BAROID USENG LIVIN ALLOWAN BARIOD USENG LIVIN ALLOWAN BARIOD USENG LIVIN GUICK GEI Formation Pick Drilling San Bluegate	slow Spd No No No No No No No No No No No No No	Strokes (strokes/m (in)) Ints Consumed 1.0	Sz 111 De	90 P(wkg) (psi) 1,500.0 iiiy Cost (\$) 35 200 63 g Sam op (fiKB) 5,672.0		
P (psi) 500.0  BOPs  To Annular Pre Mud Additive Description ALLOWAN BARIOD USCHECK BAROID USCHE	slow Spd No No No No No No No No No No No No No	Strokes (strokes/m (in)) Ints Consumed 1.0	Sz 111 De	90 P(wkg) (psi) 1,500.0  iiy Cost (\$) 35  200 63 g Sam  op (fiKB) 5,672.0 4,280.0		
P (psi) 500.0  BOPs  To Annular Pre Mud Addition Description BAROID USENG LIVIN ALLOWAN BARIOD USENG LIVIN ALLOWAN BARIOD USENG LIVIN GUICK GEI Formation Pick Drilling San Bluegate	slow Spd No No No No No No No No No No No No No	Strokes (strokes/m (in)) Ints Consumed 1.0	Sz 111 De	90 P(wkg) (psi) 1,500.0 iiiy Cost (\$) 35 200 63 g Sam op (fiKB) 5,672.0		

Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade Wt (

1,700.0

Wt (lbs/ft)

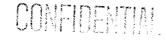
36.00

Blackhawk

11/26/2002 9 5/8

Tali Jan Energy Canada - Daily Drilling Report Page 1/1
Well Name: FORTUNA MIDDLE MONTAIN #21-16 Dai 12/14/2002, Report: 48.0, DFS: 48.00

Spud Date		. •	Release D	ate	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	
10	/28/2002			8672.00		8655.00	17.00	
Daily S	ummary							
Weather			Road Co	ndition	Hole Condition			
Cloudy				Dry		Good		
•	s at Report							
	rs Dec 15		ising.					
•	s This Repo							
			down p	ipe, run ca	sing.			
,	s Next Repo							
Run ca	sing and	ement.	Nipple u	p on 7".				
Time L	og							
	End Time				Activity		Comment	
00:00	03:30	3.50	06	Tripping		Trip in, break circ	every 11 stands.	
03:30	08:45	5.25	05	Condition	and/or Circulate mud	Circulate and cor	ndition hole. Pump pill.	
	16:45	8.00	06	Tripping		Safety meeting, lay down drill pipe and collars.		
08:45	1					Collars.		
08:45 16:45	00:00	7.25	12	Run Casin	g & Cement		ig up and run casing.	
	1	7.25	12	Run Casir	g & Cement		ig up and run casing.	
16:45	1		12 re Name	Run Casir	g & Cement  VS Dir (*)		ig up and run casing.	
16:45	res			Run Casin				
16:45 <b>Wellbo</b> Main He	ole	Wellbor	re Name			Safety meeting, r	KO MD (#KB)	
16:45 <b>Wellbo</b> Main He	res ole onal Sur	Wellbor	re Name			Safety meeting, r	KO MD (#KB) 300.0	



AFE No. 375	11	I Otal AF	E Amt (\$)
Daily Cost Tota		Cum. Co	ost To Date
Daily Mud Cos		Mud Add	ditive Cost To Da
Depth Start (fti	(B)	Denth E	nd (ftKB)
7,69	•	Depuis	7,690.0
Depth Progres	s (ftKB)	Drilling 1	Time (hrs)
0.0	0		0.00
Ops Super		ntact	
Arnie Hama			ngineer
Mel Knezev		-	-
Mark Moen	nich, Drill	ing Sup	o't
Don Helms		-	
Randy Hac	•		er
Bill Hedglin	i, Geologis	SI	
Rigs: Bill I	Martin Jr.	, 3	non announced a necession of a second
Rig Supervisor John Day,	Tool Push	er	
Rigs: Patte Rig Supervisor		.i, 104	
Jesse Blan		lling Ma	anager
1, IDECO,	MM-550		
Pump Number	Pump Ratin		od Diameter (in)
1	550.0	)	2.5197
Liner Size (in)	Stroke (ii		V/Stk (bbl/stk)
. 5	15	.00	0.105
2, IDECO,		(b - ) 1 <b>D</b> -	4 Di
Pump Number 2	550.0		od Diameter (in) 2.5197
Liner Size (in)	Stroke (ir	n)	V/Stk (bbl/stk)
5		.00	0.105
BOPs			
-			n Sz
را Annular Pre	/pe eventers		n) P(wkg) (p: 11 1,500.
Mud Additi			
Descrip		Consume	d Daily Cost (\$
BAROID US		1.	0 3
ENG LIVIN ALLOWAN			
BARIOD US CHECK	SA MUD	1.0	0 20
		<del></del>	
Formation Formation Picks		ups: D	rilling Sam
Drilling San			
	Name		Top (ftKB)
Bluegate			5,672.
Emery Mancos			4,280.
Mancos Star Point			3,073. 2,700.
Blackhawk			1,700.
****	<del></del>		
Intermedia Casing Run Dat	te Casing	, 4,413	.OftKB
Jasing Kun Dat	Wax OD (II		
11/26/2002	9 5/8	J-5	

Tali )an Energy Canada - Daily Drillir Report
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16
Da 12/15/2002. Report: Da 12/15/2002, Report: 49.0, DFS: 49.00

Job Type: Drilling - original

Spud Date		, -	Release [	ate	KB Elevation (ft)	Ground	Elevation (ft)	KB-Ground Distance (ft)	
10	/28/2002				8672.00		8655.00	17.00	
Daily S	ummary								
Veather				Road C	Condition		Hole Condition		
Clear				Dry			Cased		
	at Report								
		6, Pick up	p 3 1/2 s	string.					
	This Repo								
			Cement	casing. S	et slips and WOC, flo	ats failed	Nipple up or	n 7" casing.	
•	Next Repo								
Test BC	)P, pick ι	ıp 3 1/2 s	string.						
Time Lo	oa								
	End Time		Code		Activity			Comment	
00:00	07:30	7.50	12	Run Cas	sing & Cement	Run	casing and t	ag bottom.	
07:30	10:30	3.00	12	Run Cas	ing & Cement	Circ	ulate casing		
10:30	13:30	3.00	12	Run Cas	ing & Cement	Plug	Cement casing. Good returns throu Plug bumped and floats failed. Hold pressure on casing.		
13:30	21:30	8.00	13	Wait On	Cement		t on cement on ng slips.	due to floats failing. Set	
21:30	00:00	2.50	14	Nipple U Stack	p /Nipple Down BOP	Cut casi	casing and ning. 25 days a	Remove cement head. ipple up BOP to 7" and \$1,000,000.00 over 00 ft deeper than prog.	
Wellbo	res								
		Wellbor	re Name		VS Dir (			KO MD (ftKB)	
Main Ho	ole					90.00		300.	
	nal Sun	eys: Sit	NGLE S	нот					
Directio							Survey Compan	v	
Direction Description SINGLE	1						Patterson C	•	

CONFIDENTIAL

AFE No.	Total AFE Amt (\$)
37511	
Daily Cost Total	Cum. Cost To Date
Daily Mud Cost	Mud Additive Cost To Date
Depth Start (ftKB)	Depth End (ftKB)
7,690.0	7,690.0
Depth Progress (ftKB)	Drilling Time (hrs)
0.0	0.00
	<del></del>

### **Ops Supervisors**

Arnie Hamarsnes, Drilling Engineer Mel Knezevich, Drilling Foreman Ernie Natte, Drilling Foreman Mark Moennich, Drilling Sup't Don Helms, Mud Engineer Randy Hackford, Tool Pusher Bill Hedglin, Geologist

## Rigs: Bill Martin Jr., 3

Rig Supervisor

John Day, Tool Pusher

## Rigs: Patterson U.T.I, 104

Rig Supervisor

Jesse Blanchard, Drilling Manager

Pump Number	Pump Rating (hp)	Rod Diameter (in)	
1	550.0	2.5197	
Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)	
5	15.00	0.105	

#### 2, IDECO, MM-550 ump Number Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 Liner Size (in) Stroke (in) V/Stk (bbl/stk) 0.105 15.00

## BOPs

Туре	Nom Sz (in)	P(wkg) (psi)
Annular Preventers	11	1,500.0

#### Formation Pick Groups: Drilling Sam.. Formation Picks Group

Drilling Sample

Name	Top (ftKB)
Bluegate	5,672.0
Emery	4,280.0
Mancos	3,073.0
Star Point	2,700.0
Blackhawk	1,700.0

#### Intermediate Casing, 4,413.0ftKB Wt (lbs/ft)

Casing Run Date Max OD (in) Grade 11/26/2002 9 5/8 J-5 36.00

Tali jan Energy Canada - Daily Drillir Report Page 1/1
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Da. 12/16/2002, Report: 50.0, DFS: 50.00

Spud Date	/28/2002	Rig Release I	Date KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	AFE No.	I .	otal AFE Amt (\$)
			8072.00	1 0000.00		3751 Daily Cost Tota	i	um. Cost To Date
	ummary		Road Condition	(14-1		July Cost Total		diff. Cost 10 Date
Weather Snowin	<u> </u>		Snow covered	Hole Condition Cased		Daily Mud Cost	M	lud Additive Cost To D
	y satReport⊺	Time	Show covered	Caseu				
		7, Dry up hole	40	NOON A A Front King Come Car.	**** 1 21 <b>1</b>	Depth Start (ftK	B) D	epth End (ftKB)
	s This Repo			计计划机具件	7464	7,690		7,690.0
		OP, wait for ram	1 <b>S</b> .	机运用 电线点算	1 / There	Depth Progress		rilling Time (hrs)
	s Next Repo					0.0		0.00
Test B0	DP. Dry u	p hole and drill a	ahead.			Ops Super	vienre	
Time L	OŒ					Opa Super	Conta	ct
		Dur (hrs) Code	Activity		Comment	Arnie Hama	rsnes, Drill	ing Engineer
00:00	02:30	2.50 14	Nipple Up /Nipple Down BOP Stack	Nipple up BOP.		Ernie Natte, Mel Knezev	•	
02:30	02:45	0.25 15	Test BOP	Test Blind ram a for 10 min.	gainst casing to 1500 psi	Mark Moens	nich, Drilling	g Sup't
02:45	17:00	14.25 06	Tripping	Pick up 3 1/2 stri	ina.	Randy Hack	-	
17:00	22:00	5.00 15	Test BOP		st casing to 1500 psi.	Bill Hedglin,		431161
22:00	00:00	2.00 00	Undefined Status		he rams stamped 3 1/2	om Heugilli,	Geologist	
		2.00,00	0.13004 0.13.130	are not 3 1/2 the		Rigs: Bill N	lartin Jr., 3	3
					·	Rig Supervisor		
	rings: Bl	łA #16, Slick	IADC Bit Dull	A (incl Noz) (in² ROP (ft/hri	M	John Day, T	ool Pusher	•
		-1 , ZA12JM	4-5-FC-A-4-0-NO-CP	2.36 12.9	32/32/32	Rigs: Patte	rson U.T.I,	104
Len (ft) 580.9		4.750 Hughe	omponents s GT-1 , Bit Sub, Shock Sub, Dril	l Collar, Drilling Jars	- Hydraulic Down,	Rig Supervisor Jesse Bland	hard, Drillin	ng Manager
		Drilling	Jars - Hydraulic Up, Drill Collar			1, IDECO, A	AM-550	
Drilling	Parame	ters: 0.0ftKB						np) Rod Diameter (in)
BHA No.			End (ftKB)   Cum Depth (ftKB)   Drill Time (hrs	Cum Drill Time (hr Int	ROP (ft/hr) Flow Rate (gpm)	1	550.0	2.5197
16			690.0 0.0	0.00		Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
NOB (100	Olbf) RP	M (rpm) SPP	(psi) Rot HL (1000lbf) PU HL (1000lbf)		ng Torque Off Btm Tq	5	15.00	0.105
			107 107	107		2, IDECO, N	IM-550	
Wellbo	res							np) Rod Diameter (in)
		Wellbore Name	V\$ Dir (*)		KO MD (ftKB)	2	550.0	2.5197
Main H	ole			90.00	300.0	Liner Size (in)	Stroke (in)	V/Stk (bbl/stk)
Directio	onal Surv	eys: SINGLE S	НОТ			5	15.00	
Descriptio	n			Survey Compar		BOPs	•	
SINGLE	SHOT			Patterson C	rew	DUFS		Nom Sz
						Туј	oe	(in) P(wkg) (p
						Annular Pre	venters	11 1,500
						Formation I Formation Picks Drilling Sam	Group	s: Drilling Sam.
							Name	Top (ftKB)
						Bluegate	1 100 /10	5,672
						Emery		4,280
						Mancos		3,073
						Star Point		2,700
						Blackhawk		1,700
						DIACKHAWK		1,700
						Intermediate		
						Casing Run Date	: 1	1 '
						11/26/2002	9 5/8	J-55 36.00

Tali an Energy Canada - Daily Drillir Report Page 1/2
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Data 12/17/2002, Report: 51.0, DFS: 51.00

Spud Date 10/28/2002				8672.00		8655.00	ĺ	17.00	37511	Total AFE	
Daily Summary				3072.00		0000.00			Daily Cost Total	Cum. Cos	t To Date
Veather			Road Condi			Hole Condition		7777			
Clear Operations at Report Tim	ne		Snow co	vered		Cased			Daily Mud Cost	Mud Addit	ive Cost To Dat
6:00 hrs Dec 18,		irc to core	<b>)</b> .						Depth Start (ftKB)	Depth End	(ftKB)
perations This Report F									7,690.0	- 4	,745.0
Wait on rams. Tes up core bbl. Start i				ist ahead to Ferr	on top at 7	7735. Drill to 7	7745. Trip	out and make	Depth Progress (ftKB) 55.0	Drilling Tir	ne (hrs) 4.25
Operations Next Report I		10 0010	•		HAM	or programme and	:::::		-		
Trip in core barrel		соге.			Ulling				Ops Supervisors	Contact	
Time Log							+ + + + + + + + + + + + + + + + + + + +		Arnie Hamarsnes,		gineer
Start Date End Time D		Code		Activity			Comment		Mel Knezevich, Dri		
00:00 03:30 1 03:30 04:00	3.50 0 0.50 1		ndefined S	tatus		ait on rams. So st BOP.	ee inciden	it report.	Emie Natte, Drilling	-	
04:00 06:00	2.00 0		rilling			ll out float and	l shoe		Mark Moennich, Dr	• .	
06:00 11:00	5.00 0		•	d/or Circulate m		up the hole.			Don Helms, Mud E Randy Hackford, T		
11:00 15:15	4.25 0		rilling			ll ahead in 10	ft intervals	s checking	Bill Hedglin, Geolog		
						mples. Ferron					
15:15 16:45	1.50 0			d/or Circulate m				for core barrel.	Rigs: Bill Martin J	r., 3	
16:45 20:00 20:00 23:30	3.25 0 3.50 0		ripping			out to pick u		I.	John Day, Tool Pus	sher	
23:30 00:00	0.50 0		ripping ripping			ke up core ba o in with core l					
	<del></del>		ipping			o in with core i	Dallel		Rigs: Patterson U	.T.I, 104	****
Drill Strings: BHA	\ #16, SI	ICK	IADC Bit Du	<u></u>	TFA (incl No	oz) (in²¦ROP (ft/h/l	Nozzles (/32")	5	Jesse Blanchard, D	rilling Man	ager
10 6 1/4in, GT-1			í	-A-4-0-NO-CP	2.36			2/32/32	1, IDECO, MM-550		
en (ft) Max OD 580.99 4.7		tring Compo		uh Shook Sub i	Deill Callar	Drilling Ion	L.J. raina 15.	- D	Pump Number Pump Rat	ing (hp) Rod	
360.99 4.7	i			ub, Shock Sub, i lic Up, Drill Colla		, Drilling Jars	- myaraun	c Down,	1 550		2.5197
	<u>i</u>								Liner Size (in) Stroke 5 1	(in) :V	/Stk (bbl/stk) 0.105
Iniiina Parametei									I <del></del>		
Drilling Parameter HA No. Depth	Start (ftKB)	Depth End	(ftKB) Cum D	epth (ftKB) Drill Time	(hrs) Cum	n Drill Time (hr Int f	ROP (ft/hr)	Flow Rate (gpm)	2 IDECO MM SEO		
BHA No. Depth 16 7,I	Start (ftKB) 690.0	Depth End 7,745	.0 !	55.0 4.2	25	4.25	12.9		2, IDECO, MM-550 Pump Number Pump Rat		Diameter (in)
3HA No. Depth 16 7,1 WOB (1000lbf) RPM (	Start (ftKB) 690.0 (rpm)	Depth End 7,745 SPP (psi)	0.0 Rot HL (1	55.0 4.2 000lbf) PU HL (100	25 01bf) SO HI	4.25 L (1000lbf)   Drillii		Flow Rate (gpm) Off Btm Tq		ng (hp) Rod	Diameter (in) 2.5197
BHA No. Depth 16 7, VOB (1000lbf) RPM (	Start (ftKB) 690.0 (rpm) 55	Depth End 7,745 SPP (psi) 280.0	0.0 Rot HL (1	55.0 4.2 000lbf) PU HL (100	25 01bf) SO HI	4.25	12.9		Pump Number Pump Rat 2 550 Liner Size (in) Stroke	ing (hp)  Rod  .0  (in) V/	2.5197 Stk (bbl/stk)
16 7,1 WOB (1000lbf) RPM (	Start (ftKB) 690.0 (rpm) 55	Depth End 7,745 SPP (psi) 280.0	0.0 Rot HL (1	55.0 4.2 000lbf) PU HL (1000 10 140	25 Olbr) SO HI	4.25 L (1000lbf)   Drillii	12.9 ng Torque	Off Btm Tq	Pump Number Pump Rat 2 550 Liner Size (in) Stroke 5 1	ng (hp) Rod .0	2.5197
### No.   Depth   16	Start (ffKB) 690.0 (rpm) 55 4 <b>#17, SI</b> 233, 091	Depth End 7,745 SPP (psi) 280.0 ick	Rot HL (1)	55.0 4.2 000lbf) PU HL (1000 10 140	25 Olbr) SO HI	4.25 L (1000lbf) Drittii 140	12.9 ng Torque	Off Btm Tq	Pump Number Pump Rat 2 550 Liner Size (in) Stroke	ing (hp)   Rod   	2.5197 Stk (bbl/stk) 0.105
### No.   Depth   16   7,	Start (ftKB) 690.0 (rpm) 55 <b>417, SI</b> 233, 091	Depth End	Rot HL (1) 14 IADC Bit Du	55.0 4.2 000lbf) PU HL (100 10 140	25 Olbf) SO HI TFA (incl No	4.25 L (1000lbf) Drillii 140  z) (in² ROP (ft/hr) N	12.9 ng Torque	Off Btm Tq	Pump Number   Pump Rat   2   550	(in)   Rod   (in)   V/   5.00   Nom 5   (in)	2.5197 Stk (bbl/stk) 0.105
HA No. Depth 16 7,  VOB (1000lbf) RPM ( 15  Drill Strings: BHA lit RulBit 11 6 1/8in, CMD2 en (ft) Max OD	Start (ftKB) 690.0 (rpm) 55 <b>417, SI</b> 233, 091 (in) SI	SPP (psi) 280.0  1250  tring Compose Seo Diamo	Rot HL (1) 14  IADC Bit Duments and CMD23	55.0 4.2 000lbf) PU HL (1000 10 140	25 Olbf) SO HI TFA (incl No	4.25 L (1000lbf) Drillii 140  z) (in² ROP (ft/hr) N	12.9 ng Torque	Off Btm Tq	Pump Number   Pump Rat   2   550	(in)   Rod   (in)   V/   5.00   Nom 5   (in)	2.5197 Stk (bbl/stk) 0.105
### No.   Depth   16   7,0   7	Start (fiKB) 690.0 (rpm) 55 <b>4#17, SI</b> 233, 091 (in) SI	ick 1250 tring Compor	Rot HL (1) 14  IADC Bit Duments and CMD23	55.0 4.2 000lbf) PU HL (100 10 140 13, Core Barrel, I	25 Olbf) SO HI TFA (incl No	4.25 L (1000lbf) Drillii 140  z) (in² ROP (ft/hr) N	12.9 ng Torque	Off Btm Tq	Pump Number Pump Rat 2 550 Liner Size (in) Stroke 5 1 BOPs Type Annular Preventers Mud Additive Amo	ng (hp)   Rod   .0	2.5197 Stk (bbl/stk) 0.105  Sz P(wkg) (psi) 11 1,500.0
### No.   Depth   16   7,	Start (RKB) 690.0 (rpm) 55  #17, Sli 233, 091 ((in) St 750 C C rs: 0.0ft(KB) Start (RKB)	ick 1250 tring Compose Orilling Jan  KB	Rot HL (1  14  IADC Bit Du  nents and CMD23 s - Hydrau  (ffKB)   Cum D	55.0 4.2 000lbf) PU HL (1006 10 140  11	TFA (incl No	4.25 L (1000lbf) Drillii 140  z) (in² ROP (ft/hr) N	12.9 ng Torque lozzles (/32") - Hydraulic	Off Btm Tq	Pump Number Pump Rat 2 550  Liner Size (in) Stroke 5 1  BOPs  Type  Annular Preventers  Mud Additive Amo  Description	ng (hp)   Rod   .0     V/   5.00     Nom 5   (in)   Unts     Consumed	2.5197   Sik (bbl/sik)   0.105     Sz
### No.   Depth   16   7,	Start (RKB) 690.0 (rpm) 55 <b>#17, Sli</b> 233, 091 ((in) St 750 C  C  rs: 0.0ft/Start (RKB) 745.0	ick 1250 tring Compose Orilling Jarrok  KB Depth End 7,745	Rot HL (1  14  IADC Bit Du  nents and CMD23 s - Hydrau  (ffKB)   Cum D	55.0 4.2 000lbf) PU HL (1000 10 140  11	25 Olbr) SO HI TFA (incl No Drill Collar, If (hrs) Cum	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/high) Drilling Jars	12.9 ng Torque lozzies (/32") - Hydraulio	Off Btm Tq  C Down,	Pump Number Pump Rat 2 550 Liner Size (in) Stroke 5 1 BOPs Type Annular Preventers Mud Additive Amo	ng (hp)   Rod   .0	2.5197 Stk (bbl/stk) 0.105  Sz P(wkg) (psi) 11 1,500.0
### No.   Depth   16   7,	Start (RKB) 690.0 (rpm) 55 <b>#17, Sli</b> 233, 091 ((in) St 750 C  C  rs: 0.0ft/Start (RKB) 745.0	ick 1250 tring Compose Orilling Jan  KB	Rot HL (1  14  IADC Bit Du  nents and CMD23 s - Hydrau  (ffKB)   Cum D	55.0 4.2 000lbf) PU HL (1006 10 140  11	25 Olbr) SO HI TFA (incl No Drill Collar, If (hrs) Cum	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/high) Drilling Jars	12.9 ng Torque lozzies (/32") - Hydraulio	Off Btm Tq	Pump Number Pump Rat 2 5500 Liner Size (in) Stroke 5 1 BOPs Type Annular Preventers Mud Additive Amo Description BAROID USA PLUG-GIT BAROID USA MICA	Nom 5	2.5197   Sik (bbl/sik)   0.105     Sz
### No.   Depth   16   7,0	Start (RKB) 690.0 (rpm) 55 <b>#17, Sli</b> 233, 091 ((in) St 750 C  C  rs: 0.0ft/Start (RKB) 745.0	ick 1250 tring Compose Orilling Jarrok  KB Depth End 7,745	Rot HL (1  14  IADC Bit Du  nents and CMD23 s - Hydrau  (ffKB)   Cum D	55.0 4.2 000lbf) PU HL (1000 10 140  11	25 Olbr) SO HI TFA (incl No Drill Collar, If (hrs) Cum	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/high) Drilling Jars	12.9 ng Torque lozzies (/32") - Hydraulio	Off Btm Tq  C Down,	Pump Number Pump Rat 2 5500 Liner Size (in) Stroke 5 1 BOPs Type Annular Preventers Mud Additive Amo Description BAROID USA PLUG-GIT BAROID USA MICA COURSE	Nom 5	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615
### No.   Depth   16   7,0	Start (RKB) 690.0 (rpm) 55 <b>#17, Sli</b> 233, 091 ((in) St 750 C  C  rs: 0.0ft/Start (RKB) 745.0	ick 1250 tring Compose Secoliamo Orilling Jar KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  nents and CMD23 s - Hydrau  (ffKB)   Cum D	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbr) SO HI TFA (incl No Drill Collar, If (hrs) Cum	4.25 L (1000lbf)   Drilling   Drill Time (hr Int F   0.00   Drilling   Drill Time (hr Int F   0.00   C   Drill Time (hr Int F   0.00   C   Drilling   Dril	12.9 ng Torque lozzies (/32") - Hydraulio	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 5500 Liner Size (in) Stroke 5 1 BOPs Type Annular Preventers Mud Additive Amo Description BAROID USA PLUG-GIT BAROID USA MICA COURSE BAROID USA	Nom 5	2.5197   Sik (bbl/sik)   0.105   P(wkg) (psi)   11   1,500.0   Daily Cost (\$)   -1,615
### No.   Depth   16   7,	Start (RKB) 690.0 (rpm) 55  #17, Si 233, 091 (in) Si 750 C C rs: 0.0fti Start (RKB) 745.0 (rpm)	ick 1250 tring Compose Secoliamo Orilling Jar KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  nents and CMD23 s - Hydrau  (ffKB)   Cum D	55.0 4.2 000lbf) PU HL (1000 10 140  11	25 Olbr) SO HI TFA (incl No Drill Collar, If (hrs) Cum	4.25 L (1000lbf)   Drilling   Drill Time (hr Int F   0.00   Drilling   Drill Time (hr Int F   0.00   C   Drill Time (hr Int F   0.00   C   Drilling   Dril	12.9 ng Torque lozzies (/32") - Hydraulio	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number   Pump Rat 2   5500   Liner Size (in)   Stroke 5   1   BOPs   Type   Annular Preventers   Mud Additive Amo   Description   BAROID USA   PLUG-GIT   BAROID USA   MICA   COURSE   BAROID USA   SODA ASH	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615  -506
### No.   Depth   16   7,0	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf)   Drilling 140  Drilling Jars - Drill Time (hr Int F 0.00   1000lbf)   Drilling	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 5500 Liner Size (in) Stroke 5 1 BOPs  Type Annular Preventers Mud Additive Amo Description BAROID USA PLUG-GIT BAROID USA MICA COURSE BAROID USA SODA ASH BAROID USA	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615
BHA No. 16 T, WOB (1000lbf) 15 RPM (15 T) RP	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/his) Drilling Jars Drill Time (his Int F 0.00 L (1000lbf) Drillin Survey Company	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 550  Liner Size (in) Stroke 5 1  BOPs  Type Annular Preventers  Mud Additive Amo Description  BAROID USA PLUG-GIT  BAROID USA SODA ASH  BAROID USA QUICK FOAM	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615  -506  -52
#HA No.   Depth   16   7,   #WOB (1000lbf)   RPM ()   ### 15   The properties of the	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf)   Drilling 140  Drilling Jars - Drill Time (hr Int F 0.00   1000lbf)   Drilling	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 5500 Liner Size (in) Stroke 5 1 BOPs  Type Annular Preventers Mud Additive Amo Description BAROID USA PLUG-GIT BAROID USA MICA COURSE BAROID USA SODA ASH BAROID USA	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615  -506
### No.   Depth   16   7,	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/his) Drilling Jars Drill Time (his Int F 0.00 L (1000lbf) Drillin Survey Company	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 550  Liner Size (in) Stroke 5 1  BOPs  Type Annular Preventers  Mud Additive Amo Description  BAROID USA PLUG-GIT  BAROID USA MICA COURSE  BAROID USA SODA ASH  BAROID USA QUICK FOAM  BAROID USA HC2	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615 -526 553
#HA No.   Depth   16   7,   #WOB (1000lbf)   RPM ()   ### 15   The properties of the	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/his) Drilling Jars Drill Time (his Int F 0.00 L (1000lbf) Drillin Survey Company	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 5500 Liner Size (in) Stroke 5 1 BOPs  Type Annular Preventers  Mud Additive Amo Description BAROID USA PLUG-GIT BAROID USA SODA ASH BAROID USA QUICK FOAM BAROID USA HC2 BAROID USA MUD ENG LIVING	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615 -526 553
HA No. 16	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/his) Drilling Jars Drill Time (his Int F 0.00 L (1000lbf) Drillin Survey Company	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 550  Liner Size (in) Stroke 5 1  BOPs  Type Annular Preventers  Mud Additive Amo Description  BAROID USA PLUG-GIT  BAROID USA SODA ASH  BAROID USA QUICK FOAM  BAROID USA HC2  BAROID USA MUD ENG LIVING ALLOWANCE  BAROID USA	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615 -526 553 75 175
HA No. 16	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/his) Drilling Jars Drill Time (his Int F 0.00 L (1000lbf) Drillin Survey Company	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 550  Liner Size (in) Stroke 5 1  BOPs  Type Annular Preventers  Mud Additive Amo Description  BAROID USA PLUG-GIT  BAROID USA MICA COURSE  BAROID USA SODA ASH  BAROID USA QUICK FOAM  BAROID USA MUD ENG LIVING ALLOWANCE  BAROID USA EZ-MUD  BAROID USA PAC-R  BAROID USA QUICK GEL	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615 -526 553 75 175
#HA No.   Depth   16   7,   #WOB (1000lbf)   RPM ()   ### 15   The properties of the	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/his) Drilling Jars Drill Time (his Int F 0.00 L (1000lbf) Drillin Survey Company	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 550  Liner Size (in) Stroke 5 1  BOPs  Type Annular Preventers  Mud Additive Amo Description  BAROID USA PLUG-GIT  BAROID USA MICA COURSE  BAROID USA SODA ASH  BAROID USA QUICK FOAM  BAROID USA MUD ENG LIVING ALLOWANCE  BAROID USA EZ-MUD  BAROID USA PAC-R  BAROID USA QUICK GEL  BAROID USA QUICK GEL  BAROID USA QUICK FOAM	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615 -506 -52  553 75 175  279 763 4,069
PHA No. 16 T, WOB (1000lbf) 15 PHA No. 15 PHA No. 16 S No. 17 No. 17 No. 17 No. 18 No.	Start (RKB) 690.0 (rpm) 55  *#17, SI  233, 091 (in) SI 750 C C  rs: 0.0ftl Start (RKB) 745.0 (rpm)  Wellbore I	ick 1250 tring Compose Period Depth End 7,745 SPP (psi) 280.0  ick 1250 See Diamo Orilling Jai KB Depth End 7,745 SPP (psi)	Rot HL (1  14  IADC Bit Du  IADC Bit Du  IADC Bit Du  (ftKB) Cum D  Rot HL (1)	55.0 4.2 000lbf) PU HL (1006 10 140 11 13, Core Barrel, I lic Up, Drill Colla epth (ftKB) Drill Time 0.0 000lbf) PU HL (1006	25 Olbf) SO HI TFA (incl No Drill Collar, If (hrs) Cum Olbf) SO HL	4.25 L (1000lbf) Drillin 140  22) (int ROP (ft/his) Drilling Jars Drill Time (his Int F 0.00 L (1000lbf) Drillin Survey Company	12.9 ng Torque lozzies (/32") - Hydraulio ROP (ft/hr) ng Torque	C Down, Flow Rate (gpm) Off Btm Tq	Pump Number Pump Rat 2 550  Liner Size (in) Stroke 5 1  BOPs  Type Annular Preventers  Mud Additive Amo Description  BAROID USA PLUG-GIT  BAROID USA MICA COURSE  BAROID USA SODA ASH BAROID USA QUICK FOAM  BAROID USA MUD ENG LIVING ALLOWANCE  BAROID USA EZ-MUD  BAROID USA PAC-R  BAROID USA QUICK GEL  BAROID USA	Nom 5 (in)   Nom	2.5197 Sik (bbl/sik) 0.105  2 P(wkg) (psi) 11 1,500.0  Daily Cost (\$) -1,615 -506 -52 553 75 175 279 763

Tal' nan Energy Canada - Daily Drillir Report Page 2/2
Well Name: FORTUNA MIDDLE McUNTAIN #21-16 Da. 12/17/2002, Report: 51.0, DFS: 51.00

Job Type: Drilling - original

KB Elevation (ft) Rig Release Date Ground Elevation (ft) KB-Ground Distance (ft) Spud Date 17.00 10/28/2002 8672.00 8655.00 Daily Summary

Mud Additive Amounts								
Description	Consumed	Daily Cost (\$)						
BAROID USA REGULAR BARITE	86.0	312						
BAROID USA SAWDUST	115.0	546						

Formation Pick Groups: Drilling Sam...
Formation Picks Group

Drilling Sample

Name	Top (ftKB)
Ferron	7,735.0
Bluegate	5,672.0
Emery	4,280.0
Mancos	3,073.0
Star Point	2,700.0

Intermediate Casing, 4,413.0ftKB
Casing Run Date Max OD (in) Grade Wt ( 11/26/2002 9 5/8 J-55 36.00

Report Printed: 12/22/2002

Report Printed: 12/22/2002

Depth End	t To Date
Mud Addit Depth Enc 7 Drilling Tir	tive Cost To Da
Mud Addit Depth Enc 7 Drilling Tir	tive Cost To Da
Depth Enc 7 Drilling Tir	d (ftKB)
Depth Enc 7 Drilling Tir	d (ftKB)
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7 Drilling Tir	
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IT L 404	
<i>i</i> . i .i, 104	
Deillian AA-	2000
Juling Mar	ıayer
0	
ting (hp) Rod	Diameter (in)
0.0	2.5197
	//Stk (bbl/stk)
	0.105
13.00	0.100
D	
ting (hp) Rod	Diameter (in)
0.0	2.5197
e (in) 3	//Stk (bbl/stk)
	0.105
. 5.00	
Strokes	!
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6	50 9
Nom	Sz
Nom (in)	
(in)	
(in)	) P(wkg) (p:
(in)	P(wkg) (p. 11 1,500.
(in)  S  Ounts  Consumed	P(wkg) (page 11 1,500.  Daily Cost (\$
(in)	P(wkg) (page 11 1,500.  Daily Cost (\$
(in)  S  Ounts  Consumed	P(wkg) (page 11 1,500.  Daily Cost (\$
(in)  S  Ounts  Consumed	P(wkg) (p: 11 1,500. Daily Cost (\$
ounts Consumed	P(wkg) (p: 11 1,500. Daily Cost (\$
Ounts Consumed 0.0	P(wkg) (p: 11 1,500 Daily Cost (\$
consumed 0.0	P(wkg) (p: 11 1,500 Daily Cost (\$
Ounts   Consumed   0.0   4.0   P   6.0	P(wkg) (p: 11 1,500. Daily Cost (\$
Ounts Consumed 0.0	P(wkg) (p: 11 1,500. Daily Cost (\$
Ounts   Consumed   0.0   4.0   P   6.0	P(wkg) (p: 11 1,500. Daily Cost (\$
Ounts   Consumed   0.0     4.0       6.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69
Ounts   Consumed   0.0   4.0   P   6.0	P(wkg) (p: 11 1,500. Daily Cost (\$
Ounts   Consumed   0.0     4.0       6.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82.  Illing Sam
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82  Illing Sam  Top (ftKB) 7,735.
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82  Illing Sam  Top (ftKB) 7,735. 5,672.
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82  Illing Sam  Top (ftKB) 7,735.
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82  Illing Sam  Top (fkB) 7,735. 5,672. 4,280.
Ounts   Consumed   0.0	P(wkg) (p: 11 1,500.  Daily Cost (\$ 61 69 5,82  Illing Sam  Top (ftKB) 7,735. 5,672.
	rilling Sup's Engineer Fool Pushe gist  Jr., 3 Isher  J.T.I, 104  Drilling Mai 0.0 Ishing (hp) Rod 0.0 Ish

Tal nan Energy Canada - Daily Drillir Report Page 2/2
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Da. 12/18/2002, Report: 52.0, DFS: 52.00
Job Type: Drilling - original

ud Date 10/28/2002	Rig Release Date	KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft
aily Summary					11/26/2002 9 5/8 J-55 36.0
					•
					22 62 62 63 64 64

Report Printed: 12/22/2002

	10/28/2002		8672.00 8655.00 17.00		Ground Distance (ft) 17.00	AFE No. 3751			E Amt (\$)				
	ummary									Daily Cost Total Cum. Cost			st To Date
Weather Clear				d Condition ow covered		Hole Condition Sloughing shale				Daily Mud Cost		Mud Add	itive Cost To Dat
	s at Report 1	lime .		OW COVERCE		12	, ough	ig snaic					
		), Trip to in	vestigate.							Depth Start (ftKI		Depth En	id (ftKB) 7,778.0
	s This Repor		ft Drill ahear	i Ream 773:	3 to 7763 ft. D	orill ahead	l			Depth Progress		Drilling T	•
	s Next Repo		it. Dim ancac	2. 1 (00111 7 7 0 0		****	Vini		17743	33.0	)		3.25
Drill ah	ead.									Ops Super	isors/		
Time L							· · · · ·	The State of Contract			Con		
Start Date 00:00	End Time	Dur (hrs)   14.50 03	Code   Reami	Activit	ly	Ream	from 7	Commer 715 ft to 7		Arnie Hama Mel Knezevi	•	•	•
14:30	16:00	1.50 02						5 to 7763.		Ernie Natte,		-	
16:00									nd lay down core	Mark Moenn			
						bbl. Tr 7733 f		in to 7733	3 ft. Bridge at	Don Helms, Randy Hack	Mud Eng	ineer	
17:15	21:45	4.50 03	Ream	ing		Ream	back t	7763 ft.		Bill Hedglin,			•
21:45	23:30	1.75 02	2 Drilling	)					mix barite to hold	l i	<u></u>	_	
								ressure in d to 7778.	creased losses	Rigs: Bill M Rig Supervisor	arun Jr.,	3	
22.20	00:00	0.50 03	D			i			m out hole due to	John Day, T	ool Push	er	
23:30	00.00	0.50 0.	B Reami	ing			ıg off. F		7750 ft, no more	Rigs: Patter	son U.T.	i, 104	
D-111 04		1440 00	-1-		····	progre				Rig Supervisor Jesse Blanc	hard, Dril	ling Ma	nager
Bit Rui Bit		IA #18, Sli		C Bit Dull	TF	A (incl Noz) (i	in² ROP (	ft/hr Nozzles (	/32")	1, IDECO, N			
		K-20, ZT37				2.36	6.8	3	32/32/32	Pump Number I	ump Rating 550.0		d Diameter (in) 2.5197
Len (ft) 569.			ring Components uahes STX-2	0. Bit Sub. D	rill Collar. Dri	lling Jars -	- Hvdra	ulic Down.	Drilling Jars -	Liner Size (in)	Stroke (in	i	V/Stk (bbl/stk)
	-		ydraulic Up, I			<b></b>				5	15.		0.105
Drilling		ters: 33.0fl								2, IDECO, N	IM-550		
BHA No. 18	1 .	th Start (ftKB) 7,745.0	Depth End (ftKB) 7,778.0	Cum Depth (ftK 33.0	(B) Drill Time (hrs 3.25		ill Time (f .25	rint ROP (ft/h 10.2	r) Flow Rate (gpm) 252	Pump Number If	ump Rating 550.0		d Diameter (in) 2.5197
WOB (10	i	M (rpm)			PU HL (1000lbf)			Drilling Torqu		Liner Size (in)	Stroke (in		V/Stk (bbl/stk)
2	5	80	1,350.0	112	132	10	2			5	15.		0.105
Wellbo	res			····		,				BOPs	•	•	
Main H	ole	Wellbore N	lame		VS Dir (*)	90.00		KO MD	(RKB) 300.0		_	Norri (in	
		reys: SING	I E SHOT	· · · · · · · · · · · · · · · · · · ·						Annular Prev			11 1,500.0
Description	N .	eys. Silvo	LE SHO!				urvey Co			Mud Additiv	e Amous	nts	
SINGLI	E SHOT					Р	atterso	n Crew		Descript	on (	Consume	Daily Cost (\$)
										BAROID US ENG LIVING ALLOWANG	;	1.0	35
										BARIOD US CHECK		1.0	200
										BAROID US BARA DEFO	- 1	1.0	153
										BAROID US CAUSTIC SO		2.0	77
										BAROID US MAN		4.0	
										BAROID US BARAZAN D		29.0	1
										BAROID US QUICK GEL	A	38.0	1
										BAROID US REGULAR B		510.0	1,851
										Formation F Formation Picks Drilling Sam	Group D <b>le</b>	ıps: Dr	
											lame		Top (ftKB)
										Ferron Bluegate			7,735.0 5,672.0
										Emery			4,280.0
										Mancos			3,073.0
													i

Tal' nan Energy Canada - Daily Drillir Report Page 2/2
Well Name: FORTUNA MIDDLE Mic JNTAIN #21-16 Da. 12/19/2002; Report: 53.0; DFS: 53.00
Job Type: Drilling - original

ud Date 10/28/2002	Rig Release Date	KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	Star Point	Top (ftKB)
aily Summary					Intermediate Casing, Casing Run Date Max OD (in)	a trade de la companya dela companya dela companya dela companya de la companya d
					Casing Run Date Max OD (in) ( 11/26/2002 9 5/8	J-55 36.00
				Ì	1	

Spud Date	Rig Releas	e Date	KB Elevation (ft)	Ground Elev	ation (ft) KB-0	Ground Distance (ft)	AFE No. To	tal AFE Amt (\$)
10/28/200			8672.00	86	55.00	17.00	37511	
Daily Summan	<b>y</b>						Daily Cost Total Cu	m. Cost To Date
Veather		Road Cor			le Condition			
Clear		Snow o	overed	S	loughing shale		Daily Mud Cost Mu	d Additive Cost To Da
perations at Report		I-:II:4 7045					Depth Start (ftKB) De	pth End (ftKB)
Operations This Rep	l's Birthday by d	illining at 7615	II.				7,778.0	7,790.0
Clean to bottom							Depth Progress (ftK8) Dri	Iling Time (hrs)
perations Next Rep							12.0	1.25
Orill ahead.								
rima t an							Ops Supervisors Contact	
Time Log Start Date   End Time	Dur (hrs)   Code	e	Activity		Commer	ıt	Arnie Hamarsnes, Drillin	
0:00 02:45	2.75 03	Reaming		Reami	ng back to botton		Mel Knezevich, Drilling	
2:45 06:00	3.25 06	Tripping		Trip ou	t and check bit. N	Not reaming well.	Ernie Natte, Drilling For	
6:00 10:00	4.00 06	Tripping		Trip in	to clean out hole	and drill ahead.	Mark Moennich, Drilling	
0:00 22:45	12.75 03	Reaming	*********	Reamir	ng from 7725 to 7	763 ft. Working	Don Helms, Mud Engine	
				tight an	d stuck pipe as r	equired. Raising	Randy Hackford, Tool P	
				weight	to 10 ppg.		Bill Hedglin, Geologist	40
2:45 00:00	1.25 02	Drilling		Drill ah	ead.		Jiii riodgiini, Occiogist	
lead Observes 7	770 00KD 40						Rigs: Bill Martin Jr., 3	
	7,778.0ftKB, 12/	/20/2002 00:0	T(fl) (°F)	Density (lb/gal)	Vis (s/qt)	Plas Vis (cp)	Rig Supervisor	
Gel-Chem	12/20/2002 00:00	7,778.0		9.5	51	22.0	John Day, Tool Pusher	
ield Point (cp)	gel 10 sec (cp)	gel 10 min (cp)	Filtrate (mL/30min	1	min Filter Cake (in)	MBT (lb/bbl)	Rigs: Patterson U.T.I,	104
21.0	7.0	13.0	8.4		2.000		Rig Supervisor	
ime (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Calcium (mg/L)	Potassium (mg/L)	Polymer (lb/gal)	Jesse Blanchard, Drilling	g Manager
	9.0	10-11-1-12-1				0.0	1, IDECO, MM-550	,
hlorides (mg/L)	Sand (%) 0.1	Solids (%) 5.1	Percent Oil (%)	Percent Water (%	6) LG Solids (%) 0.9	Electric Stab (V)	Pump Number Pump Rating (h)	p) Rod Diameter (in)
	0.1	3.1			U.5	<u> </u>	1 550.0	2.5197
	HA #18, Slick						Liner Size (in) Stroke (in)	V/Stk (bbl/stk)
it Rul Bit	W 00 3T07 IT	IADC Bit I	Dull		ROP (ft/hr Nozzles (/		5 15.00	
12 6 1/8in, ST		Components		2.36	6.8	32/32/32	2 10500 444 550	
569.62			t Sub, Drill Collar	Drilling Jars -	Hydraulic Down	Drilling Jars -	2, IDECO, MM-550 Pump Number Pump Rating (hp	n) Rod Diameter (in)
303.02		aulic Up. Drill (		, Dinning Gars	riyaraane bown,	Drilling Odio	2 550.0	2.5197
							Liner Size (in) Stroke (in)	V/Stk (bbl/stk)
	eters: 12.0ftKB		6 water to we		T	· Jen Bro	5 15.00	
HA No. De		th End (ftKB)   Cum 7,790.0	Depth (ftKB) Drill Tim	e (hrs) Cum Drill	Time (hr Int ROP (ft/hr 0 9.6	) Flow Rate (gpm) 252		
- 1 .	LL		(1000lbf) PU HL (10				Pump Checks	Strokes
25			112 13					okes/min) Eff (%)
					· · · · · · · · · · · · · · · · · · ·	<del></del>	1,550.0 No	60 9
Velibores	Wellbore Name		VST	Dir (*)	KO MD (	rKR)	BOPs	
fain Hole				90.00		300.0		Nom Sz
	ONO! F	SUCT					Туре	(in) P(wkg) (p
HIPECTIONAL SUI	veys: SINGLE	SHUI		Sur	vey Company	· · · · · · · · · · · · · · · · · · ·	Annular Preventers	11 1,500
INGLE SHOT				'_	itterson Crew		Mud Additive Amounts	
MOLL ONO!					itterson orew			sumed Daily Cost (\$
							BAROID USA MUD	40.0 3,00
							TRANSPORT	
								100.0 3,99
							REGULAR BARITE	
							Formation Pick Groups Formation Picks Group	s: Drilling Sam.
							Drilling Sample	
							Name	Top (ftKB)
							Ferron	7,735.
							Bluegate	5,672
							Emery	4,280
							Mancos	3,073.
							Star Point	2,700.
•								2,700
							Intermediate Casing, 4,	
							Casing Run Date Max OD (in) Gr	ade Wt (lbs/ft)
							11/26/2002 9 5/8	J-55 36.00
							i t	

Vell Name: FORTUNA MIDDLE M-UNTAIN #21-16 Da 12/21/2002, Report: 55.0, DFS: 55.00

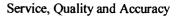
Report Printed: 12/22/2002

						76					
Spud Date 10	e 0/28/2002	Rig Relea	ase Date K	B Elevation (ft) 8672.00	Ground Elevati 8655	1.1	Ground Distance (ft) 17.00	AFE No. 375		Total AFE	Amt (\$)
	ummary							Daily Cost Tot	al	Cum. Cost	To Date
Weather Clear			Road Cond			Condition ughing shale in	nprovina	Daily Mud Cos	st	Mud Additi	ve Cost To Date
	s at Report							Depth Start (ft	KB)	Depth End	(#KB)
	anead (d s This Repo	7955 ft. ort Period						7,79	0.0	7	924.0
		e losses. Drill	ahead.		UUIVI	ULITH	i kan	Depth Progres		Drilling Tin	ne (hrs) 21.75
	s Next Repo	on Period Possible bit trip	p.								
Time L	oa							Ops Supe		ontact	
Start Date 00:00	End Time	Dur (hrs) Co	de Drillina	Activity	Dell about	Commer	A SECURITION OF THE SECURITION	Arnie Ham		•	•
00:00	03:45 06:00	3.75 02 2.25 05		nd/or Circulate m		id with 10.4 pp oump calcium (	<u> </u>	Mel Kneze Ernie Natte		•	ian
		:			circ pill.	Regain circulat	tion. Lost 100	Mark Moer			
06:00	00:00	18.00 02	Drilling		bbls.	od Miv mud on	d build volume.	Don Helms	-	•	
JO:00	00.00	10.00 02	Drining		Maintain	mud weight at improving.		Randy Had Bill Hedglir			
Mud Cl	hecks: 7	,850.0ftKB, 1	2/21/2002 00:00		<u> </u>			Rigs: Bill		., 3	
Туре	I	Date	Depth (ftKB)	T(fl) (°F)	Density (lb/gal)	Vis (s/qt)	Plas Vis (cp)	John Day,		her	
Gel-Chi Yield Poin		12/21/2002 00:00 gel 10 sec (cp)	o 7,850.0 gel 10 min (cp)	70.0 Filtrate (mL/30min)	10.0 HTHP Filt (mL/30mi	51 n Filter Cake (in)	16.0 MBT (lb/bbl)	Rigs: Patt			
	1.0	6.0	10.0	8.4	ļ <u>.</u>	2.000		Rig Supervisor			
Lime (lb/b	DI)	рН 8.5	Pm (mL/mL) 0.150	Pf (mL/mL) 0.080	Calcium (mg/L) 60.000	Potassium (mg/L)	Polymer (lb/gal) 1.2	Jesse Blan		illing Man	ager
Chlorides 400	(mg/L) .000	Sand (%) 0.1	Solids (%) 6.0	Percent Oil (%)	Percent Water (%)	LG Solids (%) 0.3	Electric Stab (V)	1, IDECO, Pump Number		•	Diameter (in) 2.5197
Drill St	rings: B	HA #18, Slick	IADC Bit D	ull	TFA (incl Noz) (in² F	OP (ft/hrt Nozzles (/	32")	Liner Size (in)	Stroke (		'Stk (bbl/stk)
12 6		X-20, ZT37JT			2.36	6.8	32/32/32	5	15	5.00	0.105
en (ft) 569.6	:		Components	Sub, Drill Collar,	Drilling Jars - H	vdraulic Down	Drilling Jars -	Pump Che	cks	Strokes	1
000.0	-		raulic Up, Drill C		Diming valor 11	yaraano bonn,	Drining Outs	P (psi)	Slow Spd	(strokes/mi	
		ters: 134.0ftl		·				1,650.0	No	6	0 90
BHA No. 18		pth Start (ftKB) De 7,790.0		Depth (ftKB)   Drill Time 179.0 21.		me (hr int ROP (ft/h	r) Flow Rate (gpm) 252	2, IDECO, Pump Number		ig (hp) Rod l	Diameter (in)
WOB (100	Olbf) RF	PM (rpm) S	PP (psi) Rot HL (	1000lbf) PU HL (100	Olbf) SO HL (1000)			2	550.0		2.5197
25		80	1,650.0 1	12 132	102			Liner Size (in)	Stroke (i	5.00 V/	Stk (bbl/stk) 0.105
Wellbo		Wellbore Nam	ne	VS Di		KO MD (	ftKB)	Pump Che	cks		
Main Ho	ole				90.00		300.0	P (psi)	Slow Spd	Strokes (strokes/mir	) Eff (%)
N 1 - 1 -	-	veys: SINGLE	E SHOT		Cunio	Composy		1,650.0	No	6	
Description SINGLE	SHOT					y Company erson Crew		BOPs		•	
								T	/pe	Nom S (in)	Z P(wkg) (psi)
								Annular Pre			1,500.0
								Mud Addit			
								Descrip BAROID U		Consumed 2.0	Daily Cost (\$) 70
								ENG LIVIN	_		
								BARIOD US CHECK	SA MUD	2.0	400
								BAROID US BARAZAN	-	6.0	2,464
								BAROID US QUICK GEI		20.0	57
			•					BAROID US		40.0	3,000
								BAROID US	SA	140.0	4,483
								BAROID US	SA	140.0	4,151
								BAROID US BARACARE		182.0	5,828
				* - M							

a la man Energy Canada - Daily Drilling Report Page 2/2

d Date	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Mud Additive Am	ounts	<del></del>
10/28/2002		8672.00	8655.00	17.00	Description		Daily Cost (\$
ily Summary					BAROID USA REGULAR BARIT	690.0 E	2,50
					Formation Pick G Formation Picks Group Drilling Sample	roups: Dri	ling Sam.
					Name		Top (ftKB)
					Ferron		7,735
					Bluegate	1	5,672
					Emery		4,280
					Mancos		3,073
					Star Point	į	2,700
					1.00	<u>_</u>	
					Intermediate Cas Casing Run Date Max O	<b>ng, 4,413.0</b> (in)Grade	Wt (lbs/ft)
					11/26/2002 9 5		36.00

Report Printed: 12/22/2002





P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-687-5311 Email: talon@etv.net

January 2, 2003

Mr. Eric Jones Petroleum Engineer Bureau of Land Management 82 East Dogwood Moab, Utah 84532

RE: Sundry Notices (Weekly Drilling Reports, Production Casing and Cement Reports)
—Fortuna (US), Inc.

Middle Mountain #21-16—1,309' FSL, 834' FEL Section 21, T16S, R6E, SLB&M, Emery County, Utah

43-015-30426

Dear Mr. Jones:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the *Sundry Notices* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed application. Please feel free to contact myself or Mr. Mel Knezevich of Fortuna (US), Inc. at 1-780-402-1296 if you have any questions or need additional information.

Sincerely,

Don Hamilton

Agent for Fortuna (US), Inc.

**Enclosures** 

cc: Mr. Don Stephens, BLM-Price Field Office

Mr. Carter Reed, USDA Forest Service-Price SO

Mr. Tom Lloyd, USDA Forest Service-Ferron DO

Mrs. Carol Daniels, Division of Oil, Gas and Mining

Mr. Arne Hamarsnes, Fortuna (US), Inc.

Mr. Mark Moenich, Fortuna (US), Inc.

RECEIVED

DIV. OF OIL, GAS & MINING

BEARINGS/ SEALS REASON PULLED TOTAL GAGE WT. OF STRING TOTAL DAYWORK NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HOURS DAILY MUD COST DRILLER Brack Childs

© 1995 International Association of Drilling Contractors

TOTAL MUD COST

IADC - API OFFICIAL DAILY DRILLING REPORT FORM





ELD OR DISTRIC	СТ		CC	UNTY E	me	ky.		STATE / COU	NTRYUTI	9h	WIRE L	INE REC	י טחט	EEL NO.					ž.
		SIZE	MAH		WEIG & GR	GHT/ RADE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE		NO. LI	NES		LENGTH	SLIPPED		
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LAST CASING TUBING OR LINER											WEAR O	R TRIPS			<u> </u>	·- · - · · · · · · · · · · · · · · · ·	<del></del> -		···········
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										·	ļ			<del>                                     </del>		-	-	<u> </u>	ļ
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			REAM.R	CORE	(6			RY) ROTATAB	MY WT. ON	PUMP PRESSURE	10 10 17 17					P .		1 1927	TOTAL
Aliastorias (* 1841). Britania (* 1861).			REAM.R	CORE			RECOVE		RY WT. ON EE BIT	PUMP	10 10 17 17	S.P.M.	LINER			P .		S.P.M.	
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CUMULATIVE ROTATING HOURS DAILY MUD COST TOTAL MUD COST

> IADC - API OFFICIAL DAILY DRILLING REPORT FORM **APPROVED**

> > PRINTED IN U.S.A.



**APPROVED** 

IELD OR DISTR			OUNTY	EME	RY		STATE / COUN	(tAh			INE REC	ORD R	EEL NO.					
ange gjedelig M	6126	e promi	Et 1s	WEIGH & GRAD	T /	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE /	18	NO. LII	VES 10	-	LENGTH	SLIPPED		E. Transier
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TUBING OR LINER					-	-				WEAR O	R TRIPS			<u> </u>	<del>.</del>	·		
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<b>DEPTH IN</b>		DRILL D REAMR COREC	CORE NO.	(SHO			ROTAL TABL SPEE	WT. ON BIT	PUMP		Γ		1			PUMI	T	TOTAL PUMP OUTPUT
<b>DEPTH IN</b>		DRILL D REAMR COREC	CORE NO.	(SHO			ROTAL TABL SPEE	WT. ON BIT	PUMP PRESSURE		Γ		1			PUMI	T	TOTAL PUMP OUTPUT
<b>ОЕРТН IN</b>		DRHLD REAMR COREC	CORE NO.	(вно		RECOVER		WT. ON BIT	PUMP PRESSURE		S.P.M.	LINER SIZE	1			PUMI	T	TOTAL PUMP OUTPUT
DEPTH IN	TO DEPTI		NO.	(SHO				WT. ON BIT	PUMP PRESSURE		Γ	LINER SIZE	1			PUMI LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT
<b>ДЕРТН IN</b>	TO DEPTI		NO.	,	OW CORE	RECOVER			PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ.
DEPTH INT	TO DEPTI		NO.	,	OW CORE	RECOVER			PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ.
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DEPTH INTERPRETATION	TO DEPTI	DEV.	NO.	IR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ.
DEPTH INTERPRETATION RECORD	N DEPTI	H DEV.	NO.	IR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ.
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DEPTH INTERPRETATION RECORD	N DEPTI	DEV.	NO.	IR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ.
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DEPTH INT	N DEPTI	ELAPSE TIME	NO.	IR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ.
DEPTH INTERPRETATION RECORD	N DEPTI	ELAPSE TIME	NO.	IR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ. DISP.
DEPTH INTERPRETATION RECORD	N DEPTI	ELAPSE TIME	NO.	IR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ. DISP.
DEPTH INTERPRETATION RECORD	N DEPTI	ELAPSE TIME	NO.	IR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	HORIZ. DISP.
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	ISE	<del></del>					WELL NO.	API W	EPORT	BER		F	WATER	DEPTH	DATE	=
	middi	12	ma,	. n+	S4./A	,	21-16									
OP	PATURE OF OPER		101	LAI			<u> </u>	CONT	RACTOR			7.51	<u> </u>		1/-7-   RIG	NO.
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					=			SIGIA	A .	CONTRAC	1083 100	7 7				
D.	P. SIZE WEIGHT		PADE	TOOL	JT O.D.	TYPE THRE	EAD STRING N	O. PUMP	NO.	PUI	MP MANUAC	TURER	-	TYPE	STR	OKE
Z	11/2/6.0	0 1		61	14	4/2×	H ' )	7		T	dec	0		558		<u> </u>
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	TIME DISTRIBUTI	ON - HOU	IRS			LING ASS (At end of to			BIT	RECORD			MUD R	ECORD		
COL	E - OPERATION	NIGHT	DAY	NO.	ı	TEM	LENGTH	BIT NO.				TIME		<u> </u>		1
1.	RIG UP AND FEAR DOWN	7	5		ВІТ			SIZE				WEIGHT		-	<del> </del>	1
2.	ORILL ACTUAL							IADC CO	DE			PRESSURE GRADIENT				-
3.	REAMING			]	-			MANUFA	CTURER			FUNNEL			<u> </u>	$-\parallel$
	CORING			-	-	OD		TYPE				VISCOSITY	<del>  ,                                   </del>	<del>                                     </del>	<del>                                     </del>	4
5. {	CONDITION MUD CIRCULATE			<b>]</b>	<del> </del>	OD		SERIAL N	10.		<u> </u>	PV/YP	<del>                                     </del>	//	<u> </u>	_
6.	TRIPS	2		<b> </b>	-	OD		JETS				GEL STRENGTH		/_		
7. I	UBRICATE RIG					OD		TFA	.	<u>.                                    </u>		FLUID LOSS				
	REPAIR RIG					OD		DEPTH O				рН				
9. (	OUT OFF DRILLING LINE											SOLIDS	-			
10. (	DEVIATION SURVEY							TOTAL DI			<del></del>					
11. \	VIRE LINE LOGS				STAND	S D.P.		<u> </u>					MUD & CHEM			1
12. F	RUN CASING & CEMENT	ļ			SINGLE	S D.P.		TOTAL H		STRUCTURE	-	TYPE	AMOUNT	TYPE	AMOUNT	
13. \	VAIT ON CEMENT			-	KELLY	DOWN		INNER	OUTER		. LOCATION	<del></del>				-
	IIPPLE UP B.O.P.	_3_	7	<u> </u>	+			BEARINGS/ SEALS		OTHER	REASON			-		-
	EST B.O.P.			<b> </b>	TOTAL		·	SEALS	GAGE	OTHER DULL CHAR.	PULLED				<u> </u>	
	PRILL STEM TEST			WT. O	FSTRING	<del></del>		<u> </u>				٠.	-			
	LUG BACK			REMA	RKS											
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	·····				<del></del>		Transis de la companya della companya della company	672				7	• /	<del>1 ·</del>		
22.					DRIL			672			ILLER	7	nf	<u> </u>		┢
22.	A. PERFORATING					LING ASSE	MBLY	672	BIT F	DR	ILLER	7	MUD RI	ECORD		-
22.	A. PERFORATING B. TUBING TRIPS			NO.	<u> </u>	LING ASSE	MBLY	672	<u></u>		ILLER	TIME	MUD RI	ECORD		
22.				NO.	<u> </u>	LING ASSE At end of to	EMBLY ur)			ECORD	ILLER	TIME	MUD RI	ECORD		
22.	B. TUBING TRIPS			NO.	17	LING ASSE At end of to	EMBLY ur)	BIT NO.		STC	ILLER	<del></del>	MUD RI	ECORD		
22.	B. TUBING TRIPS C. TREATING			NO.	17	LING ASSE At end of to	EMBLY ur)	BIT NO.	DE DE	STC 1214	ILLER	WEIGHT PRESSURE GRADIENT FUNNEL	MUD RI	ECORD		
22.	B. TUBING TRIPS C. TREATING D. SWABBING			NO.	17	LING ASSE At end of too	EMBLY ur)	BIT NO. SIZE IADC COD	DE CTURER	STC 1214	ILLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	MUD RI	ECORD		
22.	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING			NO.	17	LING ASSE At end of too EM	EMBLY ur)	BIT NO. SIZE IADC COD	DE CTURER	STC 12 1/4 11/6 STC SS+C	ILLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	MUD RI	ECORD		
22.	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F.			NO.	17	LING ASSE At end of too	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC	ETURER  FD.  O. mL	STC 12 1/4 11 6 STC SS+C 4284	ILLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID	MUD RI	ECORD		
COMPLETION	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.	12	12	NO.	17	LING ASSE At end of too EM	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO	ETURER  FD.  O. mL	STC 12 1/4 11/6 STC SS+C	ILLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS	MUD RI	ECORD		
22. 23. NOILETION	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.	SUMMARY	12	NO.	17	At end of too EM OD OD	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS	ETURER FO	STC 12 1/4 11 6 STC SS+C 4284	ILLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID	MUD RI	ECORD		
COMPLETION	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME	SUMMARY	12	NO.	17	CD OD	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA	DE CTURER  DO. ML	STC 12 1/4 11 6 STC SS+C 4284	ILLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS	MUD RI	ECORD		
22. 23. NOLETION	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE	SUMMARY	12	NO.	17	CD OD	EMBLY ur)	BIT NO. SIZE IADC COD MANUFACT TYPE SERIAL NO JETS TFA DEPTH OL	DE CTURER  D. m/L	STC 12 1/4 11 6 STC SS+C 4284	ILLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH  SOLIDS				
COMPLETION	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE	SUMMARY	12	NO.	BIT	CD OD	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN	DE CTURER  D. ML	STC 12 1/4 11 6 STC SS+C 4284	ILLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH  SOLIDS	MUD & CHEMI		AMOUNT	
COMPLETION COMPLETION	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE IS W) CONTR. D.P.	SUMMARY	12	NO.	BIT	OD OD OD	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN	DE CTURER  FO  D. ML  SILLED  DURS  CUTTING	STC 12'4 116 STC SS+C 4284 3x18		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDED		-4
COMPLETION COMPLETION	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE) IS W/ CONTR. D.P. IS W/ OPR. D.P. IS W/ OPR. D.P.	SUMMARY	12	NO.	BIT	OD OD OD OD OD OD OD OD OD OD OD OD OD O	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE	DE CTURER  FO. ML	STC 12'4 116 STC SS+C 4284 3x18	LOCATION	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDED		
NOLLINON	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE) IS W/ CONTR. D.P. IS W/ OPR. D.P. IS W/ OPR. D.P.	SUMMARY	12	NO.	BIT  STANDS SINGLE	OD OD OD OD OD OD OD OD OD OD OD OD OD O	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE	DE CTURER  FO  D. ML  SILLED  DURS  CUTTING	STC  12 14  11 6  STC  SS+C  4284  3x 18		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDED		-4
COMPLETION OUT	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE) IS W/ CONTR. D.P. IS W/ OPR. D.P. IS W/ OPR. D.P.	SUMMARY	12		STANDS SINGLE KELLY (	OD OD OD OD OD OD OD OD OD OD OD OD OD O	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DF TOTAL HC	DE ETURER  DO. M/L  UT  BILLED  DURS  CUTTING  OUTER	STC 12'4 116 STC SS+C 4284 3x18	LOCATION	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDED		
OTA OUP	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE IS W/ CONTR. D.P. IS W/ OPR. D.P. IS WITHOUT D.P. IS STANDBY	SUMMARY	12		STANDS SINGLE KELLY ( TOTAL	OD OD OD OD OD OD OD OD OD OD OD OD OD O	EMBLY ur) LENGTH	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/	DE ETURER  DO. M/L  SILLED  DURS  CUTTING  OUTER  GAGE	STC  J2'4  J1'6  STC  SS+C  4Z8Y  3X18  STRUCTURE DULL CHAR	LOCATION REASON PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	CALS ADDED		
NOUF COTAL	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE IS W/ CONTR. D.P. IS W/ OPR. D.P. IS STANDBY	SUMMARY	12	WT. Of	STANDS SINGLE KELLY ( TOTAL	OD OD OD OD OD OD OD OD OD OD OD OD OD O	EMBLY ur)	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/	DE ETURER  DO. M/L  SILLED  DURS  CUTTING  OUTER  GAGE	STC  J2'4  J1'6  STC  SS+C  4Z8Y  3X18  STRUCTURE DULL CHAR	LOCATION REASON PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	CALS ADDED		
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NOLETION OT A TOUR OUT	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE BS WY CONTR. D.P. BS WY OPR. D.P. BS WITHOUT D.P. BS WITHOUT D.P. BS STANDBY LDAYWORK F DAYS SPUD LATIVE TING HOURS	SUMMARY	12	WT. OF	STANDS SINGLE KELLY C TOTAL STRING	OD OD OD OD OD OD OD OD OD OD OD OD OD O	EMBLY ur) LENGTH	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/	DE ETURER  DO. M/L  SILLED  DURS  CUTTING  OUTER  GAGE	STC  J2'4  J1'6  STC  SS+C  4Z8Y  3X18  STRUCTURE DULL CHAR	LOCATION REASON PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	CALS ADDED		
OTA OUF	B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  LS  DAYWORK TIME (OFFICE USE IS W) CONTR. D.P.  IS W/ OPR. D.P.  IS WITHOUT D.P.  IS STANDBY  L DAYWORK  F DAYS SPUD  LING HOURS  MUD COST	SUMMARY	12	WT. OF	STANDS SINGLE KELLY C TOTAL STRING	OD OD OD OD OD OD OD OD OD OD OD OD OD O	EMBLY ur) LENGTH	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/	DE ETURER  DO. M/L  SILLED  DURS  CUTTING  OUTER  GAGE	STC  J2'4  J1'6  STC  SS+C  4Z8Y  3X18  STRUCTURE DULL CHAR	LOCATION REASON PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	CALS ADDED		
COWELLION OTA OTA OTA OTA OTA OTA OTA	B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE BS WY CONTR. D.P. BS WY OPR. D.P. BS WITHOUT D.P. BS WITHOUT D.P. BS STANDBY L DAYWORK F DAYS SPUD LLATIVE TING HOURS MUD COST	SUMMARY ONLY)		WT. OF REMAI	STANDS SINGLE KELLY ( TOTAL STRING	OD OD OD OD OD OD OD OD OD OD OD OD OD O	LENGTH  LENGTH	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/	DE ETURER  D. ML  JT  BILLED  DURS  CUTTING  OUTER  GAGE	STC  12'4  11'6  STC  SS+C  4284  3x18  STRUCTURE DULL CHAR  OTHER CHAR	LOCATION REASON PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	CALS ADDED		-4
COWELLION OTA OTA	B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  LS  DAYWORK TIME (OFFICE USE IS W) CONTR. D.P.  IS W/ OPR. D.P.  IS WITHOUT D.P.  IS STANDBY  L DAYWORK  F DAYS SPUD  LING HOURS  MUD COST	SUMMARY ONLY)		WT. OF REMAI	STANDS SINGLE KELLY ( TOTAL STRING	OD OD OD OD OD OD OD OD OD OD OD OD OD O	EMBLY ur) LENGTH	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/	DE ETURER  D. ML  JT  BILLED  DURS  CUTTING  OUTER  GAGE	STC  12'4  11'6  STC  SS+C  4284  3x18  STRUCTURE DULL CHAR  OTHER CHAR	LOCATION HEASON PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	CALS ADDED		





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r transplace (September 1997)		SIZE	- MAI				NO.	LENG	ты	RKB. TO CSG. HD.	SET AT	SIZE	1/8	NO. LI			LENGTH	SLIPPED	· .	<del></del>
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CASING TUBING OR LINER	-	*						+	-		-	WEAR OF	R TRIPS			J				
OR LINER	,							<del> </del>			:	SINCE LA	AST CUT							
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DEPTH IN	YTERV	AL 🕶	DRILL.D REAM.R	CORE		FO	RMATION		ROTAR'	WT. ON	PUMP	PUMP	NO. 1	PUN	IP NO. 2	PUMI	P NO. 3	PUM	P NO. 4	TOTAL
FROM	5 t.	го	COREC	NO.	(	SHOW C	ORE RECOV	ERY)	SPEED	BIT	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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		DEPTH	DEV.		DIR.	TVE	HORI DISF	Z. P. D	EPTH	DEV.	DIR.	TVD	HO	RIZ. SP.	DEPTH	DEV.	DIR	. Т	VD	HORIZ. DISP.
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1000	<b>A</b>				7	$+ \nu$	17ple	u	ر_ر	1507	, Ke	MOU	<u> </u>	4C 19	Va	140	R	tata	et	-0
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DEPTH IN	ITERV	AL		<b> </b>			<del></del>	7				PUMP	NO. 1	PUN	P NO. 2	PUMI	P NO. 3	PUMI	NO. 4	
FROM		го	DRILLD REAMR COREC	CORE NO.	(8		RMATION ORE RECOVE	RY)	TABLE SPEED	WI. UN	PUMP PRESSURE	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	TOTAL PUMP OUTPUT
								* .	<u> </u>			SIZE		SIZE		SIZE		SIZE	-	-
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DEVIATIO		DEFIN	DEV.		in.	IVL	DISF	·   Di	PIH	DEV.	DIR.	TVD	Dis	5P.	DEPTH	DEV.	DIR	·   T	VD	DISP.
RECORL								-									•			
TIME			ELAPSE	D CO	DE NO.	DETA	ILS OF OPER	BATIONS	IN SEQU	IENCE AND	REMARKS		<u> </u>				.			
FROM	<b> </b>	то	TIME											•						
6:00	9.7	20	<u> 3</u>	/-	2/	N:	pple .	NP.	Cho	kel	ine, uke	* A	CLUV	nul	ator	- lin	es(/	Func	tion	rest
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REPORT NO.

LEASE						WELL NO.	API W	ELL NUM	BER			WATER	DEPTH	DA	ΤE
OPERATOR	dd/e	7	Nous	ntou	<u> </u>	21-16	CONT	RACTOR						11-3	7- 0
J. LHATON	'' - 1								9	11-	-, -	<b>\</b> 1			G NO.
SIGNATUR	E OF OFE	Afors	EPRESE	NTATIV	Ē <sub>.</sub>		SIGNA	TURE OF	کرمور CONTRACT	OR'S TOOL	PUSHER	119.		10	4
	MA	11	5					Rose	. 3	la .					
D.P. SIZE	WEIGH	G	RADE	TOOL	T O.D. TYPE THE	READ STRING NO	O. PUMP	NO.		P MANUFACT	TURER		TYPE	S	TROKE ENGTH
41/2	20.0	·	E	6/	4 4/21	CH 1		,	Id	1410			550	1	15
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18		<u> </u>		THE STATE OF THE S											
TIME	DISTRIBUT	ION – HOU	JRS		DRILLING AS		1.	BIT	RECORD			MUD R	ECORD		
CODE - OPE	ERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.				TIME		T	1 1 1	-1
1. RIG UP A	ND NWN	1	1	╁	BIT 12 1/4	_	SIZE		10 1/4		WEIGHT				
2. DRILL AC	·		<u> </u>	1/	BIT /2.14	1.00	IADC COL	DE	12/4		PRESSURE		ļ		
3. REAMING		<u> </u>		1/	BHSUB	2,33	MANUFAC		116		GRADIENT		ļ		
4. CORING		<del>                                     </del>		3	8 "DC &	90,71		CIUNEN	STC		FUNNEL VISCOSITY			ļ.,	
5. & CIRCUI	ON MUD	1			X0 0X	2.29	TYPE	•	955+C		PV/YP				
6. TRIPS		23		1/	6"DC or	30.11	SERIAL N	io. M	4284		GEL STRENGTH			/	
7. LUBRICA	TE RIG			1	TARS OF	20 1	JETS		3x/8	•	FLUID LOSS			1	
8. REPAIR F	RIG	1/2		4	6"DC's		TFA				pH	<u> </u>		1	
9. CUT OFF DRILLING	: G LINE		1	1	DIIA	7 1 7 . 7 .	DEPTH O	UT			SOLIDS				<b>-</b>   (
10. DEVIATIO	ON SURVEY			╢	BAT	275.17	DEPTH IN	<b>!</b>						+	<b>-</b>
11. WIRE LIN	IE LOGS						TOTAL DI	RILLED			··	MUD & CHEM	ICALS ADDE	O O	
12. RUN CASIN	NG & CEMENT			14	STANDS D.P		TOTAL H	OURS			TYPE	AMOUNT	TYPE	AMOU	
13. WAIT ON	CEMENT			1	SINGLESD.P		INNER	CUTTING	STRUCTURE DULL CHAR	LOCATION	Sodash	20			
14. NIPPLE U	JP B.O.P.				KELLY DOWN		ļ				DAP	65			
15. TEST B.C	).P.	ļ	n		TOTAL		-BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED					
16. DRILL ST	EM TEST		1	WT. O	F STRING				CHAN.		<u> </u>				
17. PLUG BA	CK						<u> </u>	I			-1		<u> </u>		-
18. SQUEEZE	E CEMENT			REMA	RKS	And the second s	X				olce.	12hr:			
19. FISHING					20115.5	A STATE OF THE PARTY OF THE PAR						-			4
20. DIR. WOF				$\blacksquare$	<u>:::::::::::::::::::::::::::::::::::::</u>	<del>FNTIAL</del>								<del> </del>	
21. T3A	·A		¥			LIVIT	<del> </del>						1A	·	
22. Cross	è					e e e e e e e e e e e e e e e e e e e			DRI	LLER	ken	yh.		`	
23.1	~ t.	2	•		DRILLING AS			BIT	RECORD			MUD R	ECORD		
A. PER	RFORATING				(At end of t	T	DIT NO	.		<u> </u>		T	· -	Tarret.	
B. TUB	ING TRIPS			NO.	ITEM	LENGTH	BIT NO.		2		TIME	ļ			
C. TRE	ATING			1/_	BIT 12/4	1.00	SIZE		1214		WEIGHT				
D. SWA	ABBING			/	Bit Sub	2.33	IADC COL		116		PRESSURE GRADIENT	10			
E. TES	TING			3	8"DC500	90.51	MANUFAC	CTURER	STC		FUNNEL VISCOSITY	War			
8 F.				1	X/D 00	7.70	TYPE	,	7554 C		PV/YP	1	7	17	
G.				17	11.00	7	SERIAL N	O. ML	4284		GEL STRENGTH	7	7	1-7	
н.				1	¥		JETS		3×18		FLUID	<del>                                     </del>	/	<del>                                     </del>	1
TOTALS	_	12	12	1-	Jer 3 00		TFA				LOSS			-	
DA	YWORK TIME (OFFICE US	E SUMMARY E ONLY)	7	4	6" DC 30		DEPTH O	UT			pH				
HOURS W/ CO	ONTR. D.P.			1	BHA	275.17	DEPTH IN	ı	1864		SOLIDS			<u> </u>	
HOURS W/ OF	PR. D.P.			▮			TOTAL DE	RILLED	70,0						
HOURS WITH	IOUT D.P.			8	STANDS D.P.	749.32	TOTAL HO	DURS			TYPE	MUD & CHEM AMOUNT	TYPE	D AMOUI	
HOURS STAN	IDBY			2	SINGLES D.P.	The state of the state of	INNER		STRUCTURE DULL CHAR	LOCATION				and the second	
					KELLY DOWN	39.10	INVER	OUIER	DULL CHAR	LOCATION					1
					TOTAL	1/25	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED					
				WT. O	FSTRING <7			<del> </del>	CHAR.		<b></b>			<del> </del>	-
				REMA	,	000	<u> </u>	<u>ار در ک</u>	1.01	14. 14	<u> </u>		L	1	-
TOTAL DAYW	VORK				Des	el 55 4	1549	MOFK	11:44	KINK	rrille	4			-
NO. OF DAYS FROM SPUD	1			J.A.C	C 2400	)		المحكر	er 12	413					
CUMULATIVE ROTATING H	OURS			Ma	inn 130	B					<del></del>		·· · · · · · · · · · · · · · · · · · ·		
DAILY MUD C	OST			$\Delta_{\nu}$	u 99	A - 20 - 11	william.						`		
TOTAL MUD (	COST			1 V _	DWELL !	16	. —		Dei	TIEB BY	9 20	alubo			
© 1995 Internatio	nal Association o	f Drilling Contra	actors	ÍΑĎ	C - API OFFIC	IAL DAILY D	RILLING	REPOR	RT FORM				<del> </del>		



	. 11		<del>,                                    </del>	EL	NER	4		11.	tah			INE RECO		REEL NO.					
. sain sain sain	<b>.</b>	SIZE	MAI	Œ	& GHAL		dins -	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	1/8	NO. LI	NES / 2	>	LENGTH	SLIPPED		
LAST CASING							The Control	o a pinera o ra			LENGTH	CUT OFF	<del></del> -		PRESE	NT LENGT	Н	i	
TUBING OR LINER		14									WEAR O	R TRIPS				*			
	F		+						<u> </u>		SINCE LA	TIVE							
											WEAR O	R TRIPS			7===				
DEPTH IN	NTERV	/AL **	DRILL.D REAMR	CORE NO.			NATION	ROT	HE WILLIAM			NO. 1	PUM	IP NO. 2	PUM	P NO. 3	PUM	P NO. 4	TOTAL
FROM		то	COREC	110.	(SH	OW COR	E RECOVE	RY) SPE	ED BIT	PRESSURE	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	OUTPU
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DEVIATIO	SNI SNI	DEPTH	DEV.		iR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	TVD	HOR DISI		DEPTH	DEV.	DIR	.   1	TVD	HORIZ. DISP.
RECORE			_							` .									
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FROM	LOG	то	ELAPSEI TIME	CO	DE NO.	DETAILS	OF OPER	ATIONS IN SE	QUENCE ANI	D REMARKS									
6:00	10	2.00	Ш		21	21	マ	11.0 1			. / .	-	>						
		<u>ی ن ر.</u>	<del>-7</del>	- 4		7/1	<u> </u>	MAS	12	JOIN	45	D.P							
0:00	-			- 1	5	Tes	4 15	OPS	Tes	4 #4	/ An	nule	۲٢_	1200	251	10 1	<u> </u>		
	<u> </u>			_	1	<sup>4</sup> 1,2	43	Pipe .	cams	170	0 /	omi	<u> </u>	#6	Blu	ud F	Ram	£ 17	200
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	120		·	-		Sg.	1200	30+	Crum.	Note:	( <del>sg</del> .=	#/,Z,	3 R	an u	2,+hc	ust f	ડીસ્ટ	ling	Down
· ·	17	00			, <del>, -</del> C	<del>Sg</del> . S <del>g</del> . 1	1200 Psi. A	30+	4 N.	Note: t. Ne	(39.3 eds	#/, Z,; Chr	z R.	d.	2,+hc	t to	ડેલ્લ	ling	Down
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1700						sg. 1 sg. 1 wo	1200 PSI, A BL RK 1	30+ « Tes M - on 3	Bul)		وطع	Che +	rge Nr.	d.				)	Down;
	18	8020	DOM I D			<del></del>			<u>'</u>		eds e }	Cho,	rge Nr.	1, p. 4.	یخ	n h	Kui	mil	Down's
DEPTH IN	/S	8020 AL	DRILLD REAMR COREC	CORE		FORM	1200 PSI, A BL RK I	ROTA	RY		PUMP LINER	Cho,	LINER PUMI	d. //p/~	PUME	M.Re	Keer	mil	TOTAL
FROM	/S	\$620 AL	REAMR COREC	CORE NO.	(знс	FORM W CORE	ATION RECOVER	ROTA TAB SPEI	WT. ON BIT	PUMP PRESSURE	eds e }	Cho,	PUMI LINER SIZE	P NO. 2  S.P.M.	یخ	n h	Kui	mil	TOTAL
DEPTH IN	/S	\$620 AL	REAM.R	CORE NO.		FORM W CORE	ATION	ROTA	WT. ON BIT	PUMP	PUMP LINER	Cho,	LINER PUMI	d. //p/~	PUME	M.Re	Keer	mil	<del> </del>
DEPTH IN	/S	\$620 AL	REAMR COREC	CORE NO.	(знс	FORM W CORE	ATION RECOVER	ROTA TAB SPEI	WT. ON BIT	PUMP PRESSURE	PUMP LINER	Cho,	PUMI LINER SIZE	P NO. 2  S.P.M.	PUME	M.Re	Keer	mil	<del> </del>
DEPTH IN	/S	\$620 AL	REAMR COREC	CORE NO.	(знс	FORM W CORE	ATION ERECOVER	ROTA TABB SPEI	WT. ON BIT	PUMP PRESSURE	PUMP LINER	Chr.	PUMI LINER SIZE	P NO. 2  S.P.M.	PUME	M.Re	Keer	PNO. 4	240
DEPTH IN FROM	/ S	\$620 AL	REAMR COREC	CORE NO.	(SHE	FORM W CORE	ATION RECOVER	ROTA TABB SPEI	WT. ON BIT	PUMP PRESSURE	PUMP LINER	Cho,	PUMI LINER SIZE	P NO. 2  S.P.M.	PUME	M.Re	PUMF LINER SIZE	PNO. 4	<del> </del>
DEPTH IN	//S	3020 AL TO 25	REAMR COREC	CORE NO.	(SHE	FORM W CORE	ATION ERECOVER	ROTA TABLE SPEI	WT. ON BIT	PUMP PRESSURE	PUMP	Chr.	PUMI LINER SIZE	PNO.2  S.P.M.  65	PUMF LINER SIZE	PNO. 3	PUMF LINER SIZE	PNO. 4	Z40
DEPTH IN FROM ID 6 4 DEVIATION RECORD	/S	3020 AL TO 25	DEV.	CORE NO.	(SHE	FORM W CORE	ATION ERECOVER	ROTA TABLE SPEI	WT. ON BIT	PUMP PRESSURE	PUMP	Chr.	PUMI LINER SIZE	PNO.2  S.P.M.  65	PUMF LINER SIZE	PNO. 3	PUMF LINER SIZE	PNO. 4	Z40
DEPTH IN FROM	/S	3020 AL TO 25	REAMR COREC	CORE NO.	(SHC	FORM	ATION FRECOVER THORIZ DISP.	ROTA TABLE SPEI	MT. ON BIT	PUMP PRESSURE 400	PUMP	Chr.	PUMI LINER SIZE	PNO.2  S.P.M.  65	PUMF LINER SIZE	PNO. 3	PUMF LINER SIZE	PNO. 4	Z40
DEPTH IN FROM DEVIATION RECORD TIME FROM	/S	7620 AL TO 25	DEV.	CORE NO.	(SHO	FORMW CORE	HORIZ DISP.	ROTA TABISPEI	DEV.	PUMP PRESSURE 400	PUMP	Chr.	PUMI LINER SIZE	PNO.2  S.P.M.  65	PUMF LINER SIZE	PNO. 3	PUMF LINER SIZE	PNO. 4	Z40
DEPTH IN FROM DEVIATION RECORD TIME FROM JSOD	//2 //// //// //// //// //// //// ////	AL TO 25	DEV.	CORE NO.	(SHC)	FORM CORE	HORIZ DISP.	ROTA TABLE SPEI	DEV.	PUMP PRESSURE 400 DIR.	PUMP	Chr.	PUMI LINER SIZE	PNO.2  S.P.M.  65	PUMF LINER SIZE	PNO. 3	PUMF LINER SIZE	PNO. 4	Z40
DEPTH IN FROM ID 64  DEVIATION RECORD TIME FROM ISOD 1900	/S	7000 АL ТО 25 ВЕРТН	DEV.	CORE NO.	(SHC) Serve R	TVD ETAILS	HORIZ DISP.	ROTATABLE SPEI	DEV.	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE	Chry, NO. 1 S.P.M.	PUMI LINER SIZE	PNO. 2 S.P.M. 65	PUMF LINER SIZE	PNO. 3 S.P.M.	PUMF	PNO. 4 S.P.M.	Z40
DEPTH IN FROM ID 6 4  DEVIATION RECORD	/S	AL TO 25	DEV.	CORE NO.	(SHC) Serve R	TVD ETAILS	HORIZ DISP.	ROTATABLE SPEI	DEV.	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE	Chry, NO. 1 S.P.M.	PUMI LINER SIZE	PNO. 2 S.P.M. 65	PUMF LINER SIZE	PNO. 3 S.P.M.	PUMF	PNO. 4 S.P.M.	Z40
DEPTH IN FROM DEVIATION RECORD TIME FROM 1800 1900 19:30	/S	7000 DEPTH  TO  O  O  O  O  O  O  O  O  O  O  O  O	DEV.	CORE NO.	(SHC) Serve R	TVD ETAILS	HORIZ DISP.	ROTATABLE SPEI	DEV.	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE	Chry, NO. 1 S.P.M.	PUMI LINER SIZE	PNO. 2 S.P.M. 65	PUMF LINER SIZE	PNO. 3 S.P.M.	PUMF	PNO. 4 S.P.M.	Z40
DEPTH IN FROM 1064  DEVIATION RECORD TIME FROM 1900 1900 19:30	/S ITERV  /// // // // // // // // // // // //	7020 ΔL TO 25 DEPTH TO () () () () () () () () () () () () () (	DEV.	CORE NO.	(SHO) E	TVD  ETAILS	HORIZ DISP.	DEPTH ATIONS IN SECULATIONS (A Seculation)	DEV.	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE	Chan, NO.1 S.P.M.	PUMI LINER SIZE	PNO.2 S.P.M. G5	PUMF LINER SIZE	PNO. 3 S.P.M.	PUMF	PNO. 4 S.P.M.	Z40
DEPTH IN FROM 1064  DEVIATION RECORD TIME FROM 1900 19:30 2300	/S  TERV  1/2  LOG  1/9  //2  2/3  //3	DEPTH  TO 000 000 000 000 000 000 000 000 000 0	DEV.	CORENO.	(SHC) Serve  R  E NO. C  6 -  7 2	TVD  ETAILS	HORIZ DISP.	DEPTH ATIONS IN SECULATIONS IN SECURITY IN SECULATIONS IN SECULATIONS IN SECULATIONS IN SECURITY IN SECUR	DUENCE AND	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE	Chan, NO.1 S.P.M.	PUMI LINER SIZE	PNO.2 S.P.M. G5	PUMF LINER SIZE	PNO. 3 S.P.M.	PUMF	PNO. 4 S.P.M.	Z40
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DEPTH IN FROM 1064  DEVIATION RECORD 1800 1900 19:30 2300 2300	/S ITERV 1/2 1/2 2 1/3 2:	DEPTH  TO 000 000 000 000 000 000 000 000 000 0	DEV.	CORE NO.	(SHC) Sence R  E NO. C  (G)  (G)  (G)  (G)  (G)	TVD  ETAILS  OF:	HORIZ DISP.	DEPTH ATIONS IN SECOND TO LOS	DUENCE AND	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE  TVD	Chr. Chr. NO.1 S.P.M. HORIDISP	PUMI LINER SIZE 5'	PNO.2  S.P.M.  65  DEPTH	PUMF LINER SIZE	PNO.3 S.P.M.  DIR.	PUMF LINER SIZE	P NO. 4 S.P.M.	Z40
DEPTH IN FROM 1064  DEVIATION RECORD 1900 1900 1900 1900 130 2300 2300	/S ITERV  //2  //2  //2  //2  //3  //3  //3  //	7000 Да. То 25 Обртн То 200 730 730 30	DEV.  ELAPSED TIME  // Z  // Z  // Z	CORE NO.	(SHC) Sence R  E NO. C  (G)  (G)  (G)  (G)  (G)	TVD  ETAILS  OF:	HORIZ DISP.	DEPTH ATIONS IN SECOND TO LOS	DUENCE AND	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE  TVD	Chr. Chr. NO.1 S.P.M. HORIDISP	PUMI LINER SIZE 5'	PNO.2  S.P.M.  65  DEPTH	PUMF LINER SIZE	PNO.3 S.P.M.  DIR.	PUMF LINER SIZE	P NO. 4 S.P.M.	Z40
DEPTH IN FROM 1064  DEVIATION RECORD 1900 1900 1900 1900 130 2300 2300	/S ITERV  //2  //2  //2  //2  //2  //2  //2  /	25 DEPTH  TO 25 100 100 100 100 100 100 100 100 100 10	DEV.  ELAPSED TIME  // Z  // Z  // Z	CORE NO.	(SHC) Sence R  E NO. C  (G)  (G)  (G)  (G)  (G)	TVD  ETAILS  OF:	HORIZ DISP.	DEPTH ATIONS IN SECULATIONS IN SECURITY IN SECULATIONS IN SECULATIONS IN SECULATIONS IN SECURITY IN SECUR	DUENCE AND	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE  TVD	Chr. Chr. NO.1 S.P.M. HORIDISP	PUMI LINER SIZE 5'	PNO.2  S.P.M.  65  DEPTH	PUMF LINER SIZE	PNO.3 S.P.M.  DIR.	PUMF LINER SIZE	P NO. 4 S.P.M.	Z40
DEPTH IN FROM 1064  DEVIATION RECORD 1900 1900 1900 1900 130 2300 2300	/S ITERV  //2  //2  //2  //2  //2  //2  //2  /	25 DEPTH  TO 25 100 100 100 100 100 100 100 100 100 10	DEV.  ELAPSED TIME  // Z  // Z  // Z	CORE NO.	(SHC) Sence R  E NO. C  (G)  (G)  (G)  (G)  (G)	TVD  ETAILS  OF:	HORIZ DISP.	DEPTH ATIONS IN SECOND TO LOS	DUENCE AND	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE  TVD	Chr. Chr. NO.1 S.P.M. HORIDISP	PUMI LINER SIZE 5'	PNO.2  S.P.M.  65  DEPTH	PUMF LINER SIZE	PNO.3 S.P.M.  DIR.	PUMF LINER SIZE	P NO. 4 S.P.M.	Z40
DEPTH IN FROM 1064  DEVIATION RECORD 1800 1900 19:30 2300 2300	/S ITERV  //2  //2  //2  //2  //2  //2  //2  /	25 DEPTH  TO 25 100 100 100 100 100 100 100 100 100 10	DEV.  ELAPSED TIME  // Z  // Z  // Z	CORE NO.	(SHC) Sence R  E NO. C  (G)  (G)  (G)  (G)  (G)	TVD  ETAILS  OF:	HORIZ DISP.	DEPTH ATIONS IN SECOND TO LOS	DUENCE AND	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE  TVD	Chr. Chr. NO.1 S.P.M. HORIDISP	PUMI LINER SIZE 5'	PNO.2  S.P.M.  65  DEPTH	PUMF LINER SIZE	PNO.3 S.P.M.  DIR.	PUMF LINER SIZE	P NO. 4 S.P.M.	Z40
DEPTH IN FROM 1064  DEVIATION RECORD 1900 1900 1900 1900 130 2300 2300	/S ITERV  //2  //2  //2  //2  //2  //2  //2  /	25 DEPTH  TO 25 100 100 100 100 100 100 100 100 100 10	DEV.  ELAPSED TIME  // Z  // Z  // Z	CORE NO.	(SHC) Sence R  E NO. C  (G)  (G)  (G)  (G)  (G)	TVD  ETAILS  OF:	HORIZ DISP.	DEPTH ATIONS IN SECOND TO LOS	DUENCE AND	PUMP PRESSURE 400 DIR.	PUMP LINER SIZE  TVD	Chr. Chr. NO.1 S.P.M. HORIDISP	PUMI LINER SIZE 5'	PNO.2  S.P.M.  65  DEPTH	PUMF LINER SIZE	PNO.3 S.P.M.  DIR.	PUMF LINER SIZE	P NO. 4 S.P.M.	Z4O HORIZ DISP
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NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HOURS

DAILY MUD COST TOTAL MUD COST



Acc 2450

Mann 1300 Ann 850

> APPROVED PRINTED N U.S.A.



ler /zhos

DRILLER BLOOD

	ICT		Ew Ew	GR	-4		STATE/COU	NIHY Sign		WIRE L	INE REC	ORD	REEL NO.					
	SIZE	MA	KE	& GI		NO.	PENSON.	RKB. TO	SET AT	SIZE	1/8	NO.	LINES /C	)	LENGTH	SLIPPED		
LAST CASING						Park Company	and the second			LENGTH	CUT OFF				NT LENGTI	7		
CASING TUBING OR LINER										WEAR O	R TRIPS							
										CUMULA WEAR O	TIVE	-	<del></del>					
DEPTH IN	TERVAL **		[								NO. 1		UMP NO. 2	T 500	ID NO. 6	T		
FROM	TO	DRILLD REAMR COREC	CORE NO.		FORM SHOW COR	IATION E RECOVE	ROT/ TAB RY) SPE	LE WILLOW	PUMP PRESSURE		Ι		·	LINER	P NO. 3	LINER	P NO. 4	TOTAL
			,	<u> </u>		* 1 11 1				LINER SIZE	S.P.M.	LINE	S.P.M.	SIZE	S.P.M.	SIZE	S.P.M.	OUTPU
				+					-			-		-			<del> </del>	<u> </u>
-				<del> </del>					<del> </del>				<del></del>	<del>                                     </del>				ļ
<del></del>	DEPTH	DEV		DIR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	TVD	HOF	IIZ.	DEPTH	DEV	DID	<u> </u>	10	HORIZ.
DEVIATION RECORD									Dirt.	'''	Dis		DEFIN	DEV.	DIR.	<u>'</u>	VD	DISP.
				-														
FROM I	LOG TO	ELAPSE TIME	D CC	ODE NO.	. DETAILS	OF OPER	ATIONS IN SE	QUENCE AND	D REMARKS	· · · · · · · · · · · · · · · · · · ·							<del> , L</del>	
4:00	8:00	2		- ·	11.6	1.1	\ T21		1 >0		<del></del>							
			-	41_	- WBI	K O	7/01/	orey.	line		1			-,				
5:00	10:00		-	<u> </u>	70	OF	*/BA	+ 1/4	· BI+	#2	7/	EAM	me A	TE	ST H	AMI	ner	(OK)
10:00	12:00		-	4	TH	4 m	Bit	429	AAN	AMA	<b>-</b>		1 \		<del></del>	<u> </u>		
2:00	13:00	<u> </u>		7	Kio	\ Sé	rvice	_ (W	ork o	n R	dol	ey	line	<u>.</u> )				
3,30	350	13	2	10	R5	7 S	Surv	eag	1/.	2 D	earc	~	)					
3:30	15:30	11/	2 3	22	FOR	mat	T Goi	est	FORIN	ester	2 1	Λ <b>ο</b> .:	s N/s	Tint.	PO 17	h.,		
8:30	1800	21	5.	21	Ric	u	o Cho	Va	Mari	fol		11	20/1	2	DR	1000	9://	110
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DEPTH INT	TERVAL	DRILLD REAMR	CORE NO.		FORM		ROTA TABI	RY WT. ON	PUMP	PUMP	NO. 1		IMP NO. 2		P NO. 3	PUMF	NO. 4	TOTAL
FROM	то	COREC		(5	SHOW CORE	RECOVER	(Y) SPEI	D BIT	PRESSURE	LINER SIZE	S.P.M.	LINE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
1125	1160	<b>\( \)</b>		≾	مرر) م	Shal	e 35	5 5	A:									
				-			<del></del>					-						
						HORIZ		T			I нов	ız. II						BRI7
DEVIATION	DEPTH	DEV.		DIR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	TVD	HOR	IZ.	DEPTH	DEV.	DIR.	יד	VD 3	PRIZ. DISP.
DEVIATION RECORD		DEV.		DIR.	TVD	DISP	DEPTH	DEV.	DIR.	TVD	HOR	IZ.	DEPTH		DIR.	T**	VD	ORIZ. DİSP.
RECORD TIME L	.OG			DIR.		DISP.				TVD	HOR	IZ.	DEPTH		DIR.	77	VD.	PRIZ. DİSP.
TIME L	LOG TO	DEV.	D co	DDE NO.	DETAILS	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS		DISI					T	VD I	GRIZ. DISP.
TIME L	0G TO J:DO	ELAPSEI TIME	D co	DDE NO.	DETAILS	OF OPERA		QUENCE AND	REMARKS	nd (	ras	B	ster	slin	es	94		
TIME L	LOG TO	ELAPSEI TIME	D co	DDE NO.	DETAILS	OF OPERA	ations in sec	nuence and	REMARKS	nd (	ras	B	ster	slin	es	94		
TIME L	0G TO J:DO	ELAPSE TIME	D co	DDE NO.	DETAILS	OF OPERA	ations in second of the plants	nuence and	REMARKS	nd (	ras	B		slin	es	94		
TIME L FROM 1800	0G TO J:DO	ELAPSEI TIME	0 co	DDE NO.	DETAILS Well	OF OPERA	oke n	nuence and nan: f	PREMARKS	nd (	ras	B	ster	slin	es	94		
TIME L FROM  1800  1:00	1:00 1:00 2:30	ELAPSE TIME	© co	DDE NO.	DETAILS Well	OF OPERA	THE DIE	nuence and nanif	all par	nd a	ras	Bu	ster.	slin	es	, I,	/sta	
TIME L FROM 1800 1:00	1:00 2:30	ELAPSE TIME	ص ده از کار	DDE NO. 21 5	DETAILS Well	OF OPERA	THOUSIN SECTIONS I	nuence and nanif ry, p.	DREMARKS  DID a  ALL Paul  S  W/A	nd a	ras	Bu	ster.	slin	es	, I,	/sta	
TIME L FROM 1800 1:00 300 4.00	3:00 400 5:30	ELAPSEI TIME  7 21.	ر الا الا	DDE NO. 21 5 3	DETAILS Well	OF OPERA	TIONS IN SEC OKE M JED JOSE JOSE JOSE JOSE JOSE JOSE JOSE JOSE	DUENCE AND Manifordinal Ty, for 2 - 1160 1160 James	PREMARKS  DID a  ALIPAN  SS  W/A	nd acak	ras e O	Bu	ster	s lin	es Vicue	, I,	/sta	
TIME L FROM 1800 1:00 300 4.00	3:00 400	ELAPSEI TIME	ر الا الا	DDE NO. 21 5	DETAILS Well	OF OPERA	TIONS IN SEC OKE M JED JOSE JOSE JOSE JOSE JOSE JOSE JOSE JOSE	DUENCE AND Manifordinal Ty, for 2 - 1160 1160 James	DREMARKS  DID a  ALL Paul  S  W/A	nd acak	ras e O	Bu	ster	s lin	es Vicue	, I,	/sta	
TIME L FROM 1800 1:00 300 4.00	3:00 400 5:30	ELAPSEI TIME  7 21. 1/2 1/2 1/2	CO CO	DDE NO. 21 5 3	DETAILS Well	OF OPERA	TIONS IN SEC OKE M JED JOSE JOSE JOSE JOSE JOSE JOSE JOSE JOSE	DUENCE AND Manifordinal Ty, for 2 - 1160 1160 James	PREMARKS  DID a  ALIPAN  SS  W/A	nd acak	ras e O	Bu	ster	s lin	es Vicue	, I,	/sta	
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TIME L FROM 1800 1:00 300 4.00	3:00 400 5:30	ELAPSEI TIME  7 21. 1/2 1/2 1/2	) co	DDE NO. 21 5 3	DETAILS Well	OF OPERA	TIONS IN SEC OKE M JED JOSE JOSE JOSE JOSE JOSE JOSE JOSE JOSE	DUENCE AND Manifordinal Ty, for 2 - 1160 1160 James	PREMARKS  DID a  ALIPAN  SS  W/A	nd acak	ras e O	Bu	ster	s lin	es Vicue	, I,	/sta	
TIME L FROM 1800 1:00 300 4.00	3:00 400 5:30	ELAPSEI TIME  7 21. 1/2 1/2 1/2	) co	DDE NO. 21 5 3	DETAILS  Well  Blow  In  Details  Chain  Details	OF OPERA  OF A  A  A  A  A  A  A  A  A  A  A  A  A	THOUSEN SECTIONS I	Duence and Manifer Ty, po - 1160 James alce	PREMARKS  DID a  LIPAN  SS  W/A	nd acak	ras e Ou	Bu	ster	s lin	es Vicue	, I,	/sta	
TIME L FROM 1800 1:00 300 4:00 5:30	3:00 400 5:30	ELAPSEITIME 7 21.	2 C	DDE NO. 21 5 3	DETAILS  Well  Blow  In  Details  Chain  Details	OF OPERA  OF A  A  A  A  A  A  A  A  A  A  A  A  A	TIONS IN SEC OKE M JED JOSE JOSE JOSE JOSE JOSE JOSE JOSE JOSE	Duence and Manifer Ty, po - 1160 James alce	PREMARKS  DID a  LIPAN  SS  W/A	nd acak	ras e Ou	Bu	ster	s lin	es Vicue	, I,	/sta	
TIME L FROM 1800 1:00 2:30 4:00 5:30	3:00 400 5:30 5:30 6:00	ELAPSEITIME 7 21.	2 C	DDE NO. 21 5 3	DETAILS  Well  Blow  In  Details  Chain  Details	OF OPERA  OF API O	THE DAY OF PARCE	DUENCE AND Manifery, pur 1160 James Ally DRI	PREMARKS  DID a  LIPAN  S  W/A	nd Cock	ras e Ou	Bu	ster	ter	es Vicue	, I,	/sta	!

No. 3006				<u> </u>		LLING REPOR				EPORT N			
LEASE	vI s	l			WELL NO.	API WELL NU	MBER			WATER	DEPTH	DATE	
MIN DUCE	Mo	unsp	Ej N		21-16	CONTRACTO	B			<u> </u>		-/O	<u>-/)</u>
En p +	4	a de						, /	)al 1	TT		1.10	110. 722
SIGNATURE OF PR	HATON'S	EPRESE	NTATIVE	<b>.</b>		SIGNATURE	OF CONTRACT	OR'S TOOL	<i>Pusp</i> ier	1 1		1/6	14
	12	5				P	R	0.	,				
D.P. SIZE WEIG	HT G	RADE	TOOL J	T O.D. TYPE THE	READ STRING NO	PUMP NO.	PUMI	P MANUF	URER		TYPE	STF	OKE IGTH
4/2 70			6	14 4/4	X.A	1	TNE	· (C)		40	<u> </u>	1	<
7					777	2	The	<u></u>		C) 4	50	7	
TIME DISTRIBU	TION - HOL	JRS		DRILLING AS		81	T RECORD			MUD R	FCORD		
	*	T		(At end of t	T				-	I	T	<u> </u>	
NO OPERATION RIG UP AND	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.	3		TIME				
1. RIG UP AND TEAR DOWN	-	-		BIT 12/4	1,00	SIZE	12/4		WEIGHT				
2. DRILL ACTUAL		8	1	Bit SuB	2.33	IADC CODE			PRESSURE GRADIENT				
3. REAMING			3	8" DC 00	an 11	MANUFACTURE	4-17		FUNNEL VISCOSITY				
4. CORING		ļ	,		- 20	TYPE 67	28C		PV/YP	<del>                                     </del>	7	7	1
5. & CIRCULATE	*		<b> </b>	XO OD	2.67	SERIAL NO.	nn Z In			<del>//</del>	//	<del>/</del>	-
6. TRIPS			<b> </b>	6 DCOD	30.11	JETS	13/		GEL STRENGTH		/_	/_	4
7. LUBRICATE RIG			1	TAKES OD	29.02	TFA	pen		FLUID LOSS				
8. REPAIR RIG			4	6"DC 00	119.71	DEPTH OUT			рΗ				
9. CUT OFF DRILLING LINE				844	27/17		+ , , .		SOLIDS				
10. DEVIATION SURVEY	·	1/2		-		DEPTH IN	1160						
11. WIRE LINE LOGS			11	STANDS D.P.		TOTAL DRILLED				MUD & CHEMI	I ICALS ADDED		
12. RUN CASING & CEMEN	г					TOTAL HOURS	8		TYPE	AMOUNT	TYPE	AMOUN <sup>-</sup>	
13. WAIT ON CEMENT			X	SINGLES D.P.		INNER OUTE	NG STRUCTURE DULL CHAR.	LOCATION	acid	// * ^		<del></del>	4
14. NIPPLE UP B.O.P.				KELLY DOWN					BAMCA	15846			
15. TEST B.O.P.				TOTAL		BEARINGS/ SEALS GAG	OTHER E DULL CHAR.	REASON PULLED	DAP	65X			
16. DRILL STEM TEST			WT. OI	F STRING 6 Z	200				HC-2	INGAL	-		
17. PLUG BACK		<del> </del>	₽				1						
, LOG Brion			<b>!</b>		T	<u> </u>		<u>.l.</u>		<del>-</del> 11-		1/00	
18. SQUEEZE CEMENT			REMAI	RKS		- Comment of the Comm		1, .	į.	Boiled	- 0	HRS	
			REMAI	RKS /				J	į.	Boiled	- 0	HRS	
18. SQUEEZE CEMENT			REMAI	rks /					į į	Boiled	20	HRS	
18. SQUEEZE CEMENT 19. FISHING			REMA	CONFI						Boiler	2 0	HRS	-
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21.			REMAI	CONFIL	DENTIAL	abuer.	DRII	LLER	3	Soiled L. M.	- O	HRS	
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK		1/2/	REMAI	CONFIL	DENTIAL Bum Ga	<u>uebree</u>		LLER		Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. Formeake 23. 144. Parp.		1/2	REMAI	CONFIL CONFIL	DENTIAL Bur Ga SEMBLY	2.4 PRF	DRII F RECORD	LLER	<i>J</i>	Sos (Ed	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PRINCAKE  23. 165. Purp.  A. PERFORATING		1/2	REMAI	CONFILE CAY OF THE PROPERTY OF	DENTIAL Bur Ga SEMBLY	2.4 PRF		LLER	TIME	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. J.G., Pup.  A. PERFORATING  B. TUBING TRIPS  C. TREATING		1/2	DJA	CONFIL DRILLING ASS (At end of t	DENTIAL Bum Gu SEMBLY our)	Вг	T RECORD	LLER	<i>A</i>	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. J.G., Pup.  A. PERFORATING  B. TUBING TRIPS  C. TREATING		1/2	DJA	DRILLING ASS (At end of t	Bum Gu Bem Gu SEMBLY our)	BIT NO.	T RECORD	LLER	TIME WEIGHT	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. J.G., Pup.  A. PERFORATING  B. TUBING TRIPS  C. TREATING		1/1/2	NO. /	DRILLING ASS (At end of the state of the sta	Bum Cores SEMBLY our) LENGTH (,00 2,33	BIT NO. SIZE	3 12 1/4	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. J.G., Pup.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING		1/2	DJA	DRILLING ASS (At end of t	Bur Go SEMBLY our) LENGTH (,00 2,33 90.71	BIT NO. SIZE IADC CODE MANUFACTUREF	3 12 1/4	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. Fame AKE  23. Fame AKE  24. A PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.		1/1/2	NO. /	DRILLING ASS (At end of the state of the sta	SEMBLY our)  LENGTH  (,00  2,33  90.7/	BIT NO. SIZE IADC CODE MANUFACTURES TYPE TYPE TYPE TTQ	TRECORD  3 12'/4 14 14 14 15 14 15 15 16 16 17 16 17 18 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. J.G. P.P.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.		1/2	NO. /	DRILLING ASS (At end of the state of the sta	ENTIAL  Bur Go  SEMBLY  OUT)  LENGTH  (,00  2,33  90.71  2,29	BIT NO. SIZE IADC CODE MANUFACTURER TYPE GT2 SERIAL NO. 6	3 12 1/4	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. Fame AKE  23. Fame AKE  24. A PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.			NO. /	DRILLING ASS (At end of the state of the sta	ENTIAL   Bum Cor   SEMBLY   OUT     LENGTH     (,00     2,33     90.7     2,29     30.1	BIT NO. SIZE IADC CODE MANUFACTURES TYPE GT2 SERIAL NO. 6	TRECORD  3 12'/4 14 14 14 15 14 15 15 16 16 17 16 17 18 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. Famcake  23. Ms. Fup  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS		12	NO. /	DRILLING ASS (At end of the state of the sta	ENTIAL Bum Go SEMBLY our) LENGTH (,00 2,33 90.71 2,29 30.11 29.02	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  TYPE  SERIAL NO.  JETS  TFA	TRECORD  3 12'/4 14 14 14 15 14 15 15 16 16 17 16 17 18 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. FAME AKE  23. M.S., Purp.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L		12	NO. /	DRILLING ASS (At end of the state of the sta	ENTIAL Bum Go SEMBLY our) LENGTH (,00 2,33 90.71 2,29 30.11 29.02	BIT NO.  SIZE  IADC CODE  MANUFACTURER  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT	TRECORD  3 12'/4 14 14 14 15 14 15 15 16 16 17 16 17 18 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	LLER	TIME WEIGHT PRESSURE GRADIENT FUNDEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PARCAKE  23. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L  HOURS W/ CONTR. D.P.	ME SUMMAR	12	NO. /	DRILLING ASS (At end of the state of the sta	ENTIAL Bum Go SEMBLY our) LENGTH (,00 2,33 90.71 2,29 30.11 29.02	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  TYPE  SERIAL NO.  JETS  TFA	TRECORD  3 12'/4 14 14 14 15 14 15 15 16 16 17 16 17 18 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	Soiled L.K.	1	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. FOWEAKE  23. J. J. J. J. J. J. J. J. J. J. J. J. J.	ME SUMMAR	12	NO. 1 1 3 1 1 1 4	DRILLING ASS (At end of the state of the sta	ENTIAL Bum Go SEMBLY our) LENGTH (,00 2,33 90.71 2,29 30.11 29.02	BIT NO.  SIZE  IADC CODE  MANUFACTURER  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT	3 12'/4 12'/4 147C 8C 0003/7 Open	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI	ECORD	HRS	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PARCAKE  23. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L  HOURS W/ CONTR. D.P.	ME SUMMAR	12	NO. /	DRILLING ASS (At end of the state of the sta	ENTIAL Bum Go SEMBLY our) LENGTH (,00 2,33 90.71 2,29 30.11 29.02	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS	3 12'/4 847C 86 0003/7 0pen	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	Soiled L.K.	ECORD CALS ADDED TYPE	HR S	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. FOWEAKE  23. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L  HOURS W/ CONTR. D.P.	ME SUMMAR	12	NO. 1 1 3 1 1 1 4	DRILLING ASS (At end of the state of the sta	ENTIAL Bum Gas SEMBLY our) LENGTH (,00 2,33 90.71 2,29 30.11 29.02 119.71 275,17	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS	3 12'/4 847C 86 0003/7 Open 1/160 193/4		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI	ECORD CALS ADDED		
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	ME SUMMAR	12	NO. 1 1 3 1 1 1 4	DRILLING ASS (At end of the standard of the st	ENTIAL Bum Gas SEMBLY our) LENGTH (,00 2,33 90.71 2,29 30.11 29.02 119.71 275,17	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN  INNER OUTE	12 1/4  12 1/4  14 1/6  16 1/6  17 3/4  NG STRUCTURE R DULL CHAR.		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD & CHEMI  AMOUNT  6 SX	ECORD CALS ADDED TYPE	AMOUNT	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PANCAKE  23. J.G., P.P.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	ME SUMMAR	12	NO. 1 1 3 1 1 1 4	DRILLING ASS (At end of the stands of the st	ENTIAL Burgs SEMBLY our) LENGTH (,00 2,33 90.7/ 2,29 30.11 29.02 1/9.7/ 275,17	BIT NO.  SIZE  IADC CODE  MANUFACTURER  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN	12 1/4  12 1/4  14 1/6  16 1/6  17 3/4  NG STRUCTURE R DULL CHAR.		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD & CHEMI  AMOUNT  6 SX	ECORD CALS ADDED TYPE	AMOUNT	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PANCAKE  23. J.G., P.M.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	ME SUMMAR	12	NO. 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DRILLING ASS (At end of the stands of the st	ENTIAL Burgs SEMBLY our) LENGTH (,00 2,33 90.7/ 2,29 30.1/ 29.02 1/9.7/ 275,17	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN  INNER OUTE	TRECORD  3 12'/4 8 HTC 8C 0003/7 DPEN 1/100 1934 NG STRUCTURE R DULL CHAR	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD RI  MUD & CHEMI  AMOUNT  6 SX  6 SK  3 Lams	ECORD CALS ADDED TYPE	AMOUNT	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	ME SUMMAR	12	NO. 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DRILLING ASS (At end of I)  ITEM  BIT 12 1/4  B/SJB  8"0 5 0D  10"	ENTIAL Burgs SEMBLY our) LENGTH (,00 2,33 90.7/ 2,29 30.11 29.02 1/9.7/ 275,17	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN  INNER OUTE	12 1/4  12 1/4  14 1/6  16 1/6  17 3/4  NG STRUCTURE R DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD & CHEMI  AMOUNT  6 SX	ECORD CALS ADDED TYPE	AMOUNT	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TI (OFFICE L  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	ME SUMMAR	12	NO. 1 1 3 1 1 4 5 WT. OI	DRILLING ASS (At end of I)  ITEM  BIT 12 1/4  B/SJB  8"0 5 0D  10"	ENTIAL Burgs SEMBLY our) LENGTH (,00 2,33 90.7/ 2,29 30.11 29.02 1/9.7/ 275,17	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN  INNER OUTE	12 1/4  12 1/4  14 1/6  16 1/6  17 3/4  NG STRUCTURE R DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD RI  MUD & CHEMI  AMOUNT  6 SX  6 SK  3 Lams	ECORD CALS ADDED TYPE	AMOUNT	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. FOWEAKE  23. A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS WITHOUT D.P. HOURS STANDBY	ME SUMMAR	12	NO. 1 1 3 1 1 4 5 WT. OI	DRILLING ASS (At end of I)  ITEM  BIT 12 1/4  B/SJB  8"0 5 0D  10"	ENTIAL Burgs SEMBLY our) LENGTH (,00 2,33 90.7/ 2,29 30.11 29.02 1/9.7/ 275,17	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN  INNER OUTE	12 1/4  12 1/4  14 1/6  16 1/6  17 3/4  NG STRUCTURE R DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD RI  MUD & CHEMI  AMOUNT  6 SX  6 SK  3 Lams	ECORD CALS ADDED TYPE	AMOUNT	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. A. PERFORATING B. TUBING TRIPS  C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ TOPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK  NO. OF DAYS	ME SUMMAR	12	NO.  1  1  1  1  1  1  1  1  1  1  1  1  1	DRILLING ASS (At end of I)  ITEM  BIT 12 1/4  B/SJB  8"0 5 0D  10"	ENTIAL Bum Con SEMBLY our) LENGTH (.00 2.33 90.71 2.29 30.11 29.02 119.71 275,17 1402 40 1717 000	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE GT2  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN  INNER OUTE  BEARINGS/ GAGI  FUCL	12 1/4  12 1/4  14 1/6  16 1/6  17 3/4  NG STRUCTURE R DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD RI  MUD & CHEMI  AMOUNT  6 SX  6 SK  3 Lams	ECORD CALS ADDED TYPE	AMOUNT	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. POWEAKE  23. A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TI (OFFICE L. HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS W/ OPR. D.P. HOURS STANDBY  TOTAL DAYWORK  NO. OF DAYS FROM SPUD CUMULATIVE	ME SUMMAR	12	NO. 1 1 3 1 1 4 5 WT. OI REMAI	DRILLING ASS (At end of the stands of the st	ENTIAL Bum Con SEMBLY our) LENGTH (.00 2.33 90.71 2.29 30.11 29.02 119.71 275,17 1402 40 1717 000	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN  INNER OUTE	12 1/4  12 1/4  14 1/6  16 1/6  17 3/4  NG STRUCTURE R DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD RI  MUD & CHEMI  AMOUNT  6 SX  6 SK  3 Lams	ECORD CALS ADDED TYPE	AMOUNT	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22. PAWCAKE  23. A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS STANDBY  TOTAL DAYWORK  NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HOURS	ME SUMMAR	12	NO. 1 1 3 1 1 4 5 WT. OI REMAI	DRILLING ASS (At end of I  ITEM  BIT 10 1/4  BIT 10 1/4  BIT 10 1/4  BIT 10 1/4  BIT 10 1/4  BIT 10 1/4  BIT 10 1/4  STANDS DE  KELLY DOWN  TOTAL  FSTRING 6 4  RKS FOR Y  L 150	ENTIAL Bum Con SEMBLY our) LENGTH (.00 2.33 90.71 2.29 30.11 29.02 119.71 275,17 1402 40 1717 000	BIT NO.  SIZE  IADC CODE  MANUFACTUREF  TYPE GT2  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTIN  INNER OUTE  BEARINGS/ GAGI  FUCL	TRECORD  3 12'/4 86 0003/7 DPEN 1/60 1934 NG STRUCTURE R DULL CHAR. E OTHER CHAR.	LOCATION REASON PULLED	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI  MUD RI  MUD & CHEMI  AMOUNT  (0 SX  10 SK  3 Cans  12 HR	ECORD CALS ADDED TYPE	AMOUNT	

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	CT		EM	1820	ey.		STATE	COUNTAL +41	4			NE REC		EEL NO.					
	SIZE	MA	Œ.	WEI & GR	GAT.	JOINTS	CEN	in J	KB TO .	-SETAT .	SIZE	18	NO. LII	NES		LENGTH	SLIPPED		
LAST CASING							1 33-4		16	THE PERSON NAMED IN	LENGTH	CUT OFF			PRESEN	T LENGTH			
LAST CASING TUBING OR LINER											WEAR OF	R TRIPS			•				
											CUMULA WEAR OF	TIVE							
DEPTH IN	TEDVAL						\				PUMP		PUM	P NO. 2	DIME	NO. 3	DIMÍ	NO. 4	
		DRILLD REAMR COREC	CORE NO.	(		MATION RE RECOVE	RY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
FROM	TO /			<u>                                     </u>				45/	2000		SIZE		SIZE		SIZE	3.F.m.	SIZE	O.F.Rai.	-
160	1381							1/60	34		⇒.	0	5	35					
													<b> </b>	-					<del> </del>
	DEPTH	DEV	1	DIR.	TVD	HORIZ	z.	рертн	DEV.	DIR.	TVD	HOF	RIZ.	DEPTH	DEV.	DIR.	<u> </u>	VD	HORIZ. DISP.
DEVIATIO	N Jan J	1 ./		JIN.	170	Dist	-   -	ZEF IO	DEV.	Din.	140	Dis	)F.	UCFIN	DEV.	Din.	'	<b>V</b>	DISF.
RECORD	1019		_				-  -		····	-		<u> </u>							
TIME		ELAPSE	D CO	DE NO	DETAIL	S OF OPER	RATIONS	IN SEQUE	ENCE AND	REMARKS	1	<u> </u>				1	ļ		
FROM	ТО	TIME	-					/ :	./		າ								
1600	0700		1	22	IN	Stalle	DA.	Ket .	CHArg	E X	4m C	ake.		ESE					
700	0830	1//	ر کار	3	Hoop	KUD	Į,	1	10	Jump	Xa	Re	50	EFE	Ji.	+ u	SIHH	WA	FER
1830	0930	1		6	67	H.					•				70				
1030	1340	411	4	7	1	P 56 A	u te	1)0	Lu	1)01	1. 61	SM I	11/2	./	. /-	256			
711	1///	1/	_		7416	-16-19	+ fe-	W.	TEAL.		g rk	OM I	160	<del>_</del>	0./2		<del></del>		
345	17/5	21	Z /	2	131						<u> </u>	····							
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DEPTH IN	ITERVAL	DRILLD	CORE			MATION		ROTARY	ŴŢ. ON	PUMP	<u> </u>		PUN	IP NO. 2	<b>-</b>	P NO. 3		P NO. 4	TOTAL
DEPTH IN	TERVAL TO	DRILLD REAMR COREC	CORE NO.			MATION RE RECOVE	ERY)	ROTARY TABLE SPEED		PUMP	PEMF LINER SIZE	5	· ·	T	PUMF LINER SIZE	P NO. 3	PUMI LINER SIZE	P NO. 4	TOTAL PUMP OUTPU
FROM		DRILLD REAMR COREC	CORE NO.				ERY)	ROTARY TABLE SPEED		1	<u> </u>	5' NO.1	PUN	T	<b>-</b>	<del>i</del>		1	PUMP
FROM	то		CORE NO.				ERY)			1	<u> </u>	5' NO.1	PUN	T	<b>-</b>	<del>i</del>		1	PUMP
	то		CORE NO.			RE RECOVE				1	<u> </u>	15' NO.1 S.P.M.	PUN LINER SIZE	T	<b>-</b>	<del>i</del>		1	PUMP
FROM	то 1 <b>720</b>	0	NO.	DIR.						1	<u> </u>	5' NO.1	PUN LINER SIZE	T	<b>-</b>	<del>i</del>	LINER	1	PUMP
FROM	1720	0	NO.		SHOW CO	RE RECOVE		45/6	29/25		ZINER SIZE	15' NO.1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
FROM  38    DEVIATION RECORD	TO 1720	DEV	NO.		SHOW CO	RE RECOVE		45/6	29/25		ZINER SIZE	15' NO.1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
FROM 38 1	TO 1720	0	NO.		TVD	HORI DISF	Z.	US/6	29/3 DEV.		ZINER SIZE	15' NO.1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	1720 DEPTH	DEV DEV	NO.	DIR.	TVD	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTH  LOG TO 20:15	DEV	NO.	DIR.	TVD  DETAIL	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON TO 20:15 20:30	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	ZINER SIZE	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTH  LOG TO 20:15	DEV	NO.	DIR.	TVD  DETAIL	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON TO 20:15 20:30	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON TO 20:15 20:30	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON TO 20:15 20:30	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON TO 20:15 20:30	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON DEPTHON TO 20:15 20:15 20:30 6:00	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON TO 20:15 20:30	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON DEPTHON TO 20:15 20:15 20:30 6:00	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON DEPTHON TO 20:15 20:15 20:30 6:00	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 1720  DEPTHON DEPTHON TO 20:15 20:15 20:30 6:00	DEV	NO.	DIR.	TVD  DETAIL  Oc)	HORI DISF	Z.	US/6	29/3 DEV.	DIR.	TVD	5 NO. 1 S.P.M.	PUN LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP

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-IELD OR DISTR	RICT		CC	YTNUC	us 6	LI	,		STATE / C	OUNTR	AH	/	WIRE L	INE REC	ORD R	EEL NO.				2,541.02	
		SIZE	MAI		WEI		N	O. NTS	LENGTI	, ,	KS TO	SELAK	SIZE /	400	NO. LIN	IES 10	at ya ta	LENGTH	SLIPPED		<del></del>
LAST		·				T	5511				11	<del>)</del>	TENETH	COTOFF	A	10	PRESEN	IT LENGTH	i		
CASING TUBING OR LINER						<u> </u>					16		WEAR OI	R TRIPS				-			
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		20.00	1		<u> </u>						<u> </u>	1	WEAR O		T		T				T
DEPTH IN			DRILLD REAMR COREC	CORE NO.	١,		ORMAT	TION ECOVERY	n F	OTARY TABLE SPEED	WT. ON	PUMP PRESSURE	LINER	NO. 1	-	P NO. 2	LINER	NO. 3	LINER	NO. 4	TOTAL PUMP OUTPUT
FROM	10	ro					-			0	10		SIZE	S.P.M.	LINER	S.P.M.	SIZE	S.P.M.	SIZE	S.P.M.	001101
400	171	2								AD	21	10	5"	35		<del> </del>			ļ		
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		DEPTH	DEV.		DIR.	TV	/D	HORIZ. DISP.	DEF	РΤΗ	DEV.	DIR.	TVD	HOI	RIZ. SP.	DEPTH	DEV.	DIR.	т	VD	HORIZ. DISP.
DEVIATIO RECORI		RIC	1/	2																	
Tible	100					<u> </u>															
FROM	LOG	то	ELAPSE TIME	D CO	DE NO	DET.	AILS OF	F OPERA	TIONS IN	SEQUI	ENCE AND	REMARKS									
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1300	/-	330	1/	5	10	/	Ju.	، ر رحد					7								
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1/20	16	70-1	12	/ /	7	1	r !		<u> </u>	<i></i>		90Z Funt	· · ·	0.0-	.b ^				·		
1700	10	60	/-( 		<del>/</del>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	17	7/0	.) E.B.	:#1 <u>E</u>		915	, 10 rJ	rire	<u> </u>	<i>~</i> \		•			<del></del> .
700	18	00		-		19	rrg	170	ح	<u> </u>	2 /	415					<u> </u>		~-		<del>/</del>
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DEPTH IN	NTERV	AL	DRILL D	CORE		FC	ORMAT	TION	1.11	OTARY	WT. ON	PUMP		NO.1	PUM	P NO. 2	PUMF	NO. 3	PUMF	) NO. 4	TOTAL
DEPTH IN	7.5	<b>AL</b>	DRILL.D REAM.R COREC	CORE NO.			1.0	FION DECOVERY	r) [1	OTARY TABLE SPEED		PUMP PRESSURE		NO. 1 ,	PUM LINER SIZE	P NO. 2	PUMP LINER SIZE	NO. 3 S.P.M.	LINER SIZE		TOTAL PUMP OUTPUT
FROM	7.5	го	DRILLD REAMR COREC	CORE NO.			1.0	1	() F	OTARY TABLE SPEED	80/	PUMP PRESSURE	LINER	<del>                                     </del>	LINER	T	LINER	Fig. 1		) NO. 4	TOTAL PUMP OUTPUT
FROM	1	го	COREC	CORE NO.	(		1.0	1	r) E	-0/		PRESSURE	LINER SIZE	S.P.M.	LINER	T	LINER SIZE	Fig. 1	LINER SIZE	) NO. 4	TOTAL PUMP OUTPUT
FROM	1	то О <b>О</b>	O COREC	NO.		SHOW	CORER	HORIZ.		%		PRESSURE 70	LINER SIZE	3.5-	LINER SIZE	T	LINER SIZE	Fig. 1	LINER SIZE	) NO. 4	
FROM	AQ DN	DEPTH	DEV	NO.	DIR.		CORER	ECOVER	DEF	%		PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	T	LINER SIZE	Fig. 1	LINER	) NO. 4	TOTAL PUMP OUTPUT HORIZ. DISP.
FROM 1915	AQ DN	то О <b>О</b>	DEV	NO.		SHOW	CORER	HORIZ.		%	20/2	PRESSURE 70	LINER SIZE	3.5-	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
PROM  19/5  DEVIATION RECORD	AC DN D	DEPTH	DEV.	NO.		TV	ORÉ R	HORIZ. DISP.	DEF	<b>%</b>	DEV.	PRESSURE 70	LINER SIZE	3.5-	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
PROM /9 / S DEVIATION RECORD TIME FROM	DN D	DEPTH	DEV	NO.	DIR.	TV	ORÉ R	HORIZ. DISP.	DEF	<b>%</b>	DEV.	PRESSURE	LINER SIZE	3.5-	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
PROM  19/5  DEVIATION RECORD	AC DN D	DEPTH	DEV.	NO.	DIR.	TV	ORÉ R	HORIZ. DISP.	DEF	<b>%</b>	DEV.	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
PROM /9 / S DEVIATION RECORD TIME FROM	DN D	DEPTH	DEV.	2 CO	DIR.	TV	ORÉ R	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
PROM /9 / S DEVIATION RECORD TIME FROM	DN D	DEPTH 1921	DEV.	2 CO /2	DIR.	TV	ORÉ R	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
PROM /9 / S DEVIATION RECORD TIME FROM	DN D	DEPTH 1921	DEV.	2 CO	DIR.	TV Detro	ORÉ R	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
PROM /9 / S DEVIATION RECORD TIME FROM	DN D	DEPTH 1925 TO 1,30	DEV.	No. 2 2 1 2 1 2 1	DIR.	TV Detro	IN AILS OF	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
DEVIATION FROM  18:00 21:30 21:45	DN D	DEPTH 1924 TO 1:30 1:45 3:60 400	DEV.	No. 2 2 1 2 1 2 1	DE NO 2 10 2 1	DA R O	IN AILS OF	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	NO. 4 S.P.M.	HORIZ.
DEVIATION FROM  18:00 21:30 21:45	2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DEPTH 1924 TO 1,'30 1,'45 3,'00 100 1130	DEV.	No. 2 2 1 2 1 2 1	DIR. 2	DA R O	AILS OF AILS OF THE AILS OF TH	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	DIR.	LINER	NO. 4 S.P.M.	HORIZ. DISP.
DEVIATION FROM  18:00 21:30 21:45	2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DEPTH 1925 TO 1,'45 3,'60 400 1130 30	DEV.	No.	DE NO 2 10 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DA R O	AILS OF AILS OF THE AILS OF TH	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	DIR.	LINER	NO. 4 S.P.M.	HORIZ. DISP.
DEVIATION RECORD  TIME FROM  18:00 21:15 23:00 21:30 21:30 1:30 1:30 1:30 1:30	200 2 2 2 2 2 2 2 1 1 1 1 5	DEPTH 1924 TO 1,30 1,43 3,00 1,30 3,00 1,30	DEV.  ELAPSE TIME  3 1	No.	2 10 2 4	DA R O	AILS OF AILS OF THE AILS OF TH	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	TVD	5.P.M. 35-1-1/2 4 C	LINER SIZE	S.P.M.	LINER	DIR.	LINER	NO. 4 S.P.M.	HORIZ. DISP.
DEVIATION FROM  18:00 21:30 21:45	200 2 2 2 2 2 2 2 1 1 1 1 5	DEPTH 1924 TO 1,30 3,00 1,30 3,00	DEV.  DEV.  LAPSE TIME  3 1  11  12  3  11  12	No.	DE NO 2 10 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DA R O	AILS OF AILS OF THE AILS OF TH	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	LINER SIZE	5.P.M. 35-1-1/2 4 C	LINER SIZE	S.P.M.	LINER	DIR.	LINER	NO. 4 S.P.M.	HORIZ. DISP.
DEVIATION RECORD  TIME FROM  18:00 21:15 23:00 21:30 21:30 1:30 1:30 1:30 1:30	200 2 2 2 2 2 2 2 1 1 1 1 5	DEPTH 1924 TO 1,30 1,43 3,00 1,30 3,00 1,30	DEV.  DEV.  LAPSE TIME  3 1  11  12  3  11  12	No.	2 10 2 4	DA R O	AILS OF AILS OF THE AILS OF TH	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.	TVD	5.P.M. 35-1-1/2 4 C	LINER SIZE	S.P.M.	LINER	DIR.	LINER	NO. 4 S.P.M.	HORIZ. DISP.
FROM  19/5  DEVIATION  TIME FROM  18:00  21:15  23:00  21:45  23:00  21:30  L1:30  L1:30	200 2 2 2 2 2 2 2 1 1 1 1 5	DEPTH 1924 TO 1,30 1,43 3,00 1,30 3,00 1,30	DEV.  DEV.  LAPSE TIME  3 1  11  12  3  11  12	No.	2 10 2 4	DA P	AILS OF AILS OF THE AILS OF TH	HORIZ. DISP.	DEF	<b>%</b>	DEV.	DIR.  DIR.	TVD	5.P.M. 35-1-1/2 4 C	LINER SIZE	S.P.M.	LINER	DIR.	LINER	NO. 4 S.P.M.	HORIZ. DISP.
DEVIATION 18:00 21:30 21:45 23:00 21:30 1:30 1:30 1:30 1:30 1:30 1:30 1:30	200 2 2 2 2 1 1 5 6	DEPTH 1924 TO 1:30 1:45 3:60 1:30 1:30	DEV.  DEV.  LAPSE TIME  3 1  11  12  3  11  12	No.  2  1  2  1  2  1  2  3  4	DE NO 2 10 2 6 6 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TV Detro Q Q T Q T	AALS OF TO TO TO TO TO TO TO TO TO TO TO TO TO	HORIZ. DISP.  FOPERA  F./  SU  H.  Ke	TIONS IN  19 1  19 BC  11 A	TH I SEQUIT	DEV.  ENCE AND  FILL  UN  L	DIR.  DIR.	TVD	11/2 4 2 5	LINER SIZE	S.P.M.	LINER	DIR.	LINER	NO. 4 S.P.M.	HORIZ. DISP.
DEVIATION 18:00 21:30 21:45 23:00 21:30 1:30 1:30 1:30 1:30 1:30 1:30 1:30	200 2 2 2 2 1 1 5 6	DEPTH 1924 TO 1:30 1:45 3:60 1:30 1:30	DEV.	No.  2  1  2  1  2  1  2  3  4	DE NO 2 10 2 6 6 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TV Detro Q Q T Q T	AALS OF TO TO TO TO TO TO TO TO TO TO TO TO TO	HORIZ. DISP.  FOPERA  FOPERA  API OF	TIONS IN  19 1  19 1  19 1  19 1  10	SEQUITE SEQUIT	DEV.  ENCE AND  FILL  UN  L	PRESSURE 70 DIR. PREMARKS 191 192 1-up	TVD  TVD  197  197  197  197  197	5.P.M. 35-1-1/2 4 C	LINER SIZE	S.P.M.	DEV.	DIR.	LINER	VD VD	HORIZ. DISP.
DEVIATION 18:00 21:130 21:130 21:30 1:30 1:30 1:30 1:30 1:30 1:30 1:30	200 2 2 2 2 1 1 5 6	DEPTH 1924 TO 1:30 1:45 3:60 1:30 1:30	DEV.	No.  2  1  2  1  2  1  2  3  4	DE NO 2 10 2 6 6 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TV Detro Q Q T Q T	AALS OF TO TO TO TO TO TO TO TO TO TO TO TO TO	HORIZ. DISP.  FOPERA  FOPERA  API OF	TIONS IN  19 1  19 BC  11 A	SEQUITE SEQUIT	DEV.  ENCE AND  FILL  UN  L	DIR.  DIR.  DIR.  DIR.  PREMARKS  191  400  LLING FI	TVD  TVD  197  197  APPI	S.P.M.  35- HOIS  11/2  4  C Solve FORM	LINER SIZE	S.P.M.	DEV.	DIR.	LINER	VD VD	HORIZ. DISP.

CUMULATIVE ROTATING HOURS

DAILY MUD COS

TOTAL MUD O



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**APPROVED** 

FIELD OR DISTR	HCT	C	YTAUC	Ela	6		STATE / COUN	TRY THE		WIRE L	INE REC	ORD R	REEL NO.					and the second
	SIZE	МА	KE	WE/GH & GRAI	HT DE J	NO. IOINTS	LENGTH .	RKB. TO CSG. HD.	"SETAT "	SIZE	18	NO, LI	NES	Bernaria (Art.)	LENGTH	SLIPPED	:	
LAST											CUTOFF		A 10. LT 2	PRESE	NT LENGTH			
CASING TUBING OR LINER						-			-	WEAR	R TRIPS AST CUT			4	<u> </u>		·····	
					-					CUMULA WEAR O						<del></del>		
			<u>.</u> !							<del>                                     </del>	<del> </del>	<del> </del>		<del></del>				
DEPTH IN	ITERVAL	DRILLD REAMR	CORE NO.	(0)		ATION	ROTAF TABLI SPEEI	WT. ON	PUMP PRESSURE		P NO. 1	<del> </del>	IP NO. 2	+	P NO. 3		NO. 4	TOTAL
FROM	то	COREC		(Sn	OW CONE	E RECOVE		1	- I Micosoffe	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	OUTPUT
2000	7252				· · · · · ·		19/5	2/20	110	5	38	5"		<b>5</b> "				
-								-					ļ					
	·	T	<u> </u>	<u></u>		HORIZ	,	<u> </u>	1	ļ	7 110	1					<u> </u>	
DEVIATIO	DEPTH	7	. C	DIR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	TVD	HOI	P.	DEPTH	DEV.	DIR.		VD	HORIZ. DISP.
RECORD		1 2	-			-	-			ļ						-		
TIME	LOG	ELABOR		<u> </u>		<u> </u>									1			
FROM	ТО	ELAPSE TIME	CO	DE NO.	DETAILS	OF OPER	ATIONS IN SEQ	UENCE ANI	DREMARKS		<u> </u>							
2600	1145	53/4	1 7	7	Del	920	000'	40	215	72								
145	12.15	1/2		0	30	F					,							· · · · · · · · · · · · · · · · · · ·
12 15	1715	5		2	10	~	1/2		22	24-	7							
1110	1112		/		ה אמצע. אה	$q \propto l$	36	_+0	_ <u> </u>			_						
11/5	1145	7	Z	7	-24	7 y 5	EXUL	<i>ce</i>		18	OP		·					
1745	1800	1/4	4 6	2	Del	92.	247	40	22	52	~			· · · · · · · · · · · · · · · · · · ·		**		
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DEPTH IN	TE BYAL					NIV 24 48 42												
oer to in										OUM	NO. 1	Butt	ID 110 A					<del>                                      </del>
FROM		DRILLD REAMR COREC	CORE NO.	(SH	FORM/ OW CORE		ROTAR TABLE	WT. ON	PUMP PRESSURE		NO. 1		P NO. 2		P NO. 3	PUMP	NO. 4	TOTAL PUMP
FROM	то	COREC	CORE NO.	(SH		ATION RECOVER	SPEEC		PRESSURE	LINER SIZE	NO. 1 S.P.M.	LINER SIZE		PUMI LINER SIZE	P NO. 3	PUMP LINER SIZE	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
	то	DRILL.D REAM.R COREC	CORE NO.	(\$H			SPEEC	WT. ON BIT	PRESSURE	LINER SIZE	<u> </u>				1	<del></del>	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
		COREC	CORE NO.	(зн			SPEEC		PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		1	<del></del>	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
22.52	то	COREC	CORE NO.	(ѕн		RECOVER	A O/II		PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		1	<del></del>	S.P.M.	
252	TO F	D DEV.	NO.	(SH			A O/II		PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		1	<del></del>	S.P.M.	TOTAL PUMP OUTPUT
	TO DEPTH	DEV.	NO.		OW CORE	HORIZ	90///	10/20	O-160	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	то , , , , , , , , , , , ,	D DEV.	NO.		OW CORE	HORIZ	90///	10/20	O-160	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION	то , , , , , , , , , , , ,	DEV.	NO.	IR.	TVD	HORIZ DISP.	90///	10/20 DBy.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	10 DEPTH 223	DEV. 8 3	D COD	IR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH 223	DEV. 83°	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  (8',00)  10',30	DEPTH 223 LOG TO 19:30 20:00	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	PO///	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  (8',00)  10',30	DEPTH 223	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  (8',00)  10',30	DEPTH 223 LOG TO 19:30 20:00	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  (8',00)  10',30	DEPTH 223 LOG TO 19:30 20:00	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  (8',00)  10',30	DEPTH 223 LOG TO 19:30 20:00	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  (8',00)  10',30	DEPTH 223 LOG TO 19:30 20:00	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  (8',00)  10',30	DEPTH 223 LOG TO 19:30 20:00	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  (8',00)  10',30	DEPTH 223 LOG TO 19:30 20:00	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  /8',00  10',30  20',00	DEPTH 223 LOG TO 19:30 20:00	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  /8:00  10:30  20:00	DEPTH 223 LOG TO 20100000000000000000000000000000000000	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  18:00  10:30  20:00	DEPTH 223 LOG TO 201000 LOG TO 201000 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	JENCE AND	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  18:00  10:30  20:00	DEPTH 223 LOG TO 20100000000000000000000000000000000000	DEV. 8.3 ELAPSE TIME	D COL	IR. DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.  DREMARKS	S "	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  18:00  10:30  20:00	DEPTH 223 LOG TO 19:30 20:00 6:00 6:00 89 K 89 K	DEV. 8 3 ELAPSETTIME	D COL	IR. DE NO.	TVD  DETAILS (  Or )	HORIZ DISP.	DEPTH ATIONS IN SEQUENCE AS SECUENCE SEQUENCE SE	DEN.	DIR.	S"  TVD	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD  TIME I FROM  18:00  10:30  20:00	DEPTH 223 LOG TO 201000 LOG TO 201000 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO 20100 LOG TO	DEV. 8 3 ELAPSETTIME	D COL	IR. DE NO.	TVD  DETAILS (  Or )	HORIZ DISP.	DEPTH	DEN.	DIR.	S''	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	DIR.	LINER	S.P.M.	HORIZ DISP.
DEVIATION RECORD  TIME I FROM  18:00  10:30  20:00	DEPTH 223 LOG TO 19:30 20:00 6:00 6:00 89 K 89 K	DEV. 8 3 ELAPSETTIME	D COL	IR. DE NO.	TVD  DETAILS (  Or )	HORIZ DISP.	DEPTH ATIONS IN SEQUENCE AS SECUENCE SEQUENCE SE	DEN.	DIR.	TVD	S.P.M.	LINER SIZE	S.P.M. ( <i>p</i> )	DEV.	DIR.	LINER	S.P.M.	HORIZ DISP.

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	HCT		DUNTY	4 E E	24			/COUNTR	~		WIRE LI	INE REC	ORD R	EEL NO.					
	SIZE	МА			внт	NO. JOINTS	LENG	атн С	RKB, TO SG. HD.	SETAT	SIZE	18	NO. LI	ES //A	1. * 1	LENGTH	SLIPPED	44.	
LAST CASING										-	LENGTH	CUT OFF	***************************************	Walter Art & China		VI LENGTH			÷
TUBING OR LINER											WEAR OF	R TRIPS	<b>X</b>		.]	<del></del>			<del>,,</del>
		<del> </del>									CUMULA	TIVE						-	
DEPTH IN	TERVAL										WEAR OF	NO.1		210.0	T				T
FROM		DRILLD REAMR COREC	CORE NO.	(1		MATION RE RECOVE	RY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP		Γ	LINER	P NO. 2	<del> </del>	P NO. 3	LINER	P NO. 4	TOTAL
235C	2394			·				90	10/20	180	SIZE	S.P.M.	SIZE	S.P.M.	LINER	S.P.M.	SIZE	S.P.M.	OUTPUT
										<u>                                     </u>				ļ	<del> </del>	<u> </u>	ļ	<u> </u>	
DEVIATIO RECORD				DIR.	TVD	HORIZ DISP.		EPTH	DEV.	DIR.	TVD	HOF	RIZ.	DEPTH	DEV.	DIR.	Т	VD	HORIZ. DISP.
									·										
FROM	LOG TO	ELAPSE TIME	D COI	DE NO.	. DETAILS	S OF OPER	ATIONS	IN SEQUI	ENCE AND	REMARKS	-		··· · · · · · · · · · · · · · · · · ·	<u>.</u>					
0600	0900	<u>}</u> }		Z	1	230	<u></u> ぐっ			) 27	7.			<del></del>		<del></del>	· · · · · · · · · · · · · · · · · · ·		
2000	1430	1/2			Mag	561 R	<u>ے ر</u>			37		· · · · · · · · · · · · · · · · · · ·		<u> </u>		•			
1900	11 11	13/4		<u>ري.</u> ح	1 /						·		<del></del>						
1930	11/5	17	1	<u> </u>	Delg	: 23	12		<b>2</b>	394					`		1	<u>.</u>	
115	1800	67	4 (	_	X00	Ho, C	HH	ige.	451	394 JA, 6	61,H	. 5	up	- BK		IN	<u>'</u>		
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DEPTH IN		DRILLD REAMR	CORE	(6		AATION	200	ROTARY	WT. ON	PUMP	PUMP			NO. 2		, NO. 3		NO. 4	TOTAL
FROM	то	DRILL.D REAM.R CORE.C	CORE NO.	(\$		AATION E RECOVER		ROTARY TABLE SPEED	BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1	LINER SIZE	S.P.M.	PUMI LINER SIZE	NO.3	PUMF LINER SIZE	NO. 4	TOTAL PUMP OUTPUT
FROM		DRILLD REAMR COREC	CORE	(\$				ROTARY TABLE SPEED	BIT	PUMP	PUMP			T T		r		T	TOTAL PUMP OUTPUT
FROM	то	DRILL D REAM R COREC	CORE NO.	(\$					BIT	PUMP PRESSURE	PUMP LINER SIZE		LINER SIZE	S.P.M.		r		T	TOTAL PUMP OUTPUT
FROM	TO 2473	D	NO.		SHOW CORI	E RECOVER		110/00	/O	PUMP PRESSURE	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
FROM  2394  DEVIATION	TO 2473	DEV.	NO.	(S					BIT	PUMP PRESSURE	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		r	LINER	S.P.M.	PUMP
FROM 2394	TO 2473	DEV.	NO.		SHOW CORI	E RECOVER		110/00	/O	PUMP PRESSURE	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	TO 2473  DEPTH 2350  LOG	DEV.	NO.		TVD	E RECOVER	DI	110/µ0	/O DEV.	PUMP PRESSURE	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	TO 2473  DEPTH 2356  LOG TO	DEV.	D COD	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH 235	DEV.	D COD	IR.	TVD	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	TO 2473  DEPTH 2356  LOG TO	DEV.	D COD	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH 235	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD DETAILS	HORIZ DISP.	DI	110/µ0	/O DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5'' TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD  DETAILS  Q C	HORIZ DISP.	ATIONS  ATIONS	IN SEQUE	DEV.	PUMP PRESSURE D/1100 DIR. REMARKS	PUMP LINER SIZE  5''  TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	DEPTH 2350  18:30  19:00	DEV.	D COL	DE NO.	TVD  DETAILS  Q C	HORIZ DISP.	ATIONS  ATIONS	IN SEQUE	DEV.	PUMP PRESSURE DIR.	PUMP LINER SIZE  5''  TVD	S.P.M.	LINER SIZE	S.P.M. 35/40	LINER SIZE	S.P.M.	LINER	S.P.M.	HORIZ. DISP.

1644-							****			ريسمو			10.	
LEASE	1 /	. , , ,		/	``		WELL NO.	API WELL	NUMBER			WATER	DEPTH	DA
OPERATOR	PULE	MO	runt	Ain	U.	$\perp \dot{a}$	21-16	CONTRAC	TOR		1	<u></u>		1-14
				,				JUNIO	Dolle	1121	Not-	NTT		
SIGNATUR	E OF OPEA	TOR FR	FRESE	NTATIV	<b>E</b>	. :,	4	SIGNATUR	RE OF CONTRAC	CTOR'S TOOL	L PUSHER,	11		10
1	Hair	U.	Z		<u></u>			Ha	redy &	Flac	hop	rd		
D.P. SIZE	WEIGHT		BADE	TOOL	-	THREAD	STRING NO	PUMP NO.	B	UMP MANUFAC	TUBER -	1 1 2 2 2	TYPE	i i
4/2	-20	1/2		11	94 4/	eX#	226	1	IDEC			5	50	
		7						2	IDEC	آ			50	
	ļ						<u></u>							$\perp$
						<u> </u>				<del></del>	<del></del>			
TIME	DISTRIBUTIO	ON – HOU	IRS		DRILLING (At end	ASSEMI of tour)	BLY	;	BIT RECORD			MUD R	ECORD	
CODE NO OPE		NIGHT	DAY	NO.	ITEM		LENGTH	BIT NO.	4		TIME			
1. RIG UP A TEAR DO	MN WN			1/	BIT /2/	4	1,00	SIZE	12/4		WEIGHT			
2. DRILL AC	TUAL	11/2	11		Bit 348/	nX-2	33/0 04	IADC CODE			PRESSURE GRADIENT			
3. REAMING	à 				Q" X	7	1 300	MANUFACTU	RER STO	<del></del>	FUNNEL			
4. CORING				1	DEAME -	OD D	1.09	TYPE	FAC		VISCOSITY	+ /		.,
5. & CIRCUL	DIM MUD _ATE			1/	D,	6051	129.6	SERIAL NO.	1 11 J	<b>34</b>	PV/YP	<del>                                     </del>	<del>                                     </del>	
6. TRIPS				1/	X0/34.5	48 2.	1/9.87	JETS	711270	4'	GEL STRENGTH			
7. LUBRICA	TE RIG		1/2	3	6"DC	00 8	8.71	TFA	3//0	-	FLUID LOSS			
8. REPAIR F				1	JARS	00	29.02				рН			
9. CUT OFF DRILLING	LINE			8	6"00	1	38.99	DEPTH OUT	2000	,	SOLIDS			
10. DEVIATIO	)N SURVEY	1/2	1/2		BHA	1/	97 17.	DEPTH IN	2394	-	1			.,
11. WIRE LIN	E LOGS			200	STANDS	D.P.	7 100	TOTAL DRILL	1/				IICALS ADDED	
12. RUN CASIN	√G & CEMENT			14	1	- 0	4125	TOTAL HOUR		2	TYPE	AMOUNT	Funtric	AMOU
13. WAIT ON	CEMENT			1	+	D.P.	31		UTTING STRUCTUR DUTER DULL CHA			4851	Dead	3
14. NIPPLE U	IP B.O.P.				KELLY DOWN			DEADWOO		, , , , , , , , , , , , , , , , , , , ,	SOUR	4 5X	E-MUD)	16
15. TEST B.O	).P.				TOTAL			BEARINGS/ SEALS (	GAGE OTHER CHAR.	REASON PULLED	Banacas	10 346		
16. DRILL ST	EM TEST			WT. C	OF STRING			T		1				
											BASCOS	5 gal		1
17. PLUG BA	CK			PEM1	ARKS F	W	1 : D1	1 K	>	<u> </u>	Barcar	53AL		_i
17. PLUG BA	-			REMA	IRKS F	K	1:04	1 = B	) m Gav	ndnev	Barw	59 <sup>#L</sup>		
	-			,REMA			NITINI	1 x 3	? 1Um Gav	adnev	Barw	59#0		
18. SQUEEZE	ECEMENT			REMA	CONF	K.,	NTIAL	Ley B	? !Um Gav	adnev	BASOS	5340		
18. SQUEEZE	ECEMENT			REMA	CONF	K z	NTIAL	1 B		adnev	Barcar			
18. SQUEEZE 19. FISHING 20. DIR. WOF	ECEMENT			REMA	CONF	K z DEI	NTIAL	Ley B		DRILLER	Barur	Du		
18. SQUEEZE 19. FISHING 20. DIR. WOF 21.	ECEMENT				CONFI			Ley B			Barur	Du	ECORD	a to
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22.	ECEMENT			- D/	CONFI	ASSEME I of tour)	BLY		D		J.R.	Du	ECORD	
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.	E CEMENT			D/	CONFI		LENGTH	BIT NO.	BIT RECORD	DRILLER &	TIME	Du	ECORD	
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB	E CEMENT  RK  FORATING  ING TRIPS			- D/	CONFI		BLY	BIT NO. SIZE	D	DRILLER &	TIME WEIGHT	MUD R	ECORD	
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB	E CEMENT  RK  FORATING  ING TRIPS			- D/	CONFI	of tour)	LENGTH	BIT NO. SIZE IADC CODE	BIT RECORD	DRILLER &	TIME WEIGHT PRESSURE GRADIENT	MUD R	ECORD	
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB	E CEMENT  RK  FORATING  ING TRIPS  EATING  ABBING			- D/	DRILLING (At end BIT 12 1/4	of tour)	LENGTH	BIT NO. SIZE IADC CODE MANUFACTUR	BIT RECORD	DRILLER &	TIME WEIGHT	MUD R		d
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA	E CEMENT  RK  FORATING  ING TRIPS  EATING  ABBING			- D/	DRILLING (At end BIT 11/L B/5/1900	or tour)	LENGTH 1,00 33 38,81	BIT NO. SIZE IADC CODE MANUFACTUL TYPE	BIT RECORD	DRILLER &	TIME WEIGHT PRESSURE GRADIENT FUNNEL	MUD R		d
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA E. TES	E CEMENT  RK  FORATING  ING TRIPS  EATING  ABBING			- D/	DRILLING (At end BIT 12 1/4	of tour)	LENGTH 1,00 33 38,81	BIT NO. SIZE IADC CODE MANUFACTUI TYPE	BIT RECORD	DRILLER &	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	MUD R		d
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA E. TES F.	E CEMENT  RK  FORATING  ING TRIPS  EATING  ABBING			- D/	DRILLING (At end BIT 121/L B/5440  Reamer	on le	LENGTH 1,00 33 38,86	BIT NO. SIZE IADC CODE MANUFACTUI TYPE	BIT RECORD  121/L  RER STC	DRILLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	MUD R		
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H. TOTALS	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING	12	12	- D/	DRILLING (At end BIT 121/L B/5440  Reamer	on le	LENGTH 1,00 33,81 1,70 33,91 1,70 33,91 1,70 33,91	BIT NO. SIZE IADC CODE MANUFACTUI TYPE SERIAL NO.	BIT RECORD  121/L RER STC FDS ML 4284	DRILLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	MUD R		
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H. TOTALS	E CEMENT  RK  FORATING  ING TRIPS  EATING  ABBING	SUMMARY		D/ NO 1/2/1/3-	DRILLING (At end BIT 121/L B/5440  Reamer	on less on les	LENGTH 1,00 33,81 1,79 1,79 1,79 1,79 1,79 1,79 1,79 1,7	BIT NO. SIZE IADC CODE MANUFACTUI TYPE SERIAL NO. JETS	BIT RECORD  121/L RER STC FDS ML 4284	DRILLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH	MUD R		
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H. TOTALS	E CEMENT  RK  FORATING  ING TRIPS  EATING  ABBING  TING	SUMMARY	12	- D/	DRILLING (At end BIT 121/L B/5440  Reamer	on less on les	LENGTH 1,00 33,81 1,70 33,91 1,70 33,91 1,70 33,91	BIT NO. SIZE IADC CODE MANUFACTUI TYPE SERIAL NO. JETS TFA	BIT RECORD  121/L RER STC FDS ML 4284	DRILLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	MUD R		
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H.  TOTALS DA	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  YWORK TIME (OFFICE USE	SUMMARY		D/ NO1/2/1/3-8	DRILLING (At end BIT 121/L B/5440  Reamer	0D 0D 0D 0D 0D 0D 0D 0D 0D 0D 0D 0D 0D 0	LENGTH 1,00 33,81 1,79 1,79 1,79 1,79 1,79 1,79 1,79 1,7	BIT NO. SIZE IADC CODE MANUFACTUI TYPE SERIAL NO. JETS TFA DEPTH OUT	BIT RECORD  121/L  RER STC  FDS  ML 4284  3418	DRILLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH	MUD R	eate	
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H.  TOTALS DA	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  YWORK TIME (OFFICE USE  DOTR. D.P.	SUMMARY		D/ NO 1/2/1/3-	DRILLING (At end BIT 121/L B/5440  Reamer	00 00 00 00 00 00 00 00 00 00 00 00 00	LENGTH 1,00 338,91 1,00 338,91 1,00 338,91 1,00 338,91 1,00 38,91 38,99	BIT NO.  SIZE  IADC CODE  MANUFACTUR  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN	BIT RECORD  121/L  RER STC  FDS  ML 1284  3×18	DRILLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH	MUD R		
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H.  TOTALS DA HOURS W/ CO	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  TING  OFFICE USE  ONTR. D.P.  PR. D.P.  IOUT D.P.	SUMMARY		D/ NO1/2/1/3-8	DRILLING (At end ITEM  BIT 13/1  B/SUMAD  REAME  KO DC  LO'OC  LO'OC  BHA	OD 5 0D 5 0D 0D 5 0D 0D 0D 0D 0D 0D 0D 0D 0D 0D 0D 0D 0D	LENGTH 1,00 338,81 1,06 339,61 29,62 38,99 9,7,12	BIT NO.  SIZE  IADC CODE  MANUFACTUI  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLI  TOTAL HOUR	BIT RECORD  121/  121/  RER STC FDS  ML 128C  3×18  3×18  DITING STRUCTURE	DRILLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD R	EQ+6	
18. SQUEEZE  19. FISHING  20. DIR. WOF  21.  22.  23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H.  TOTALS  DA  HOURS W/ CO HOURS W/ CO	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  TING  OFFICE USE  ONTR. D.P.  PR. D.P.  IOUT D.P.	SUMMARY		D/ NO1/2/1/3-8	DRILLING (At end ITEM BIT 12/12 B/SUMAD REAME! XO LO'DC STANDS STANDS	OD S OD S OD S OD S OD S OD S OD S OD S	LENGTH 1,00 338,91 1,00 338,91 1,00 338,91 1,00 338,91 1,00 38,91 38,99	BIT NO.  SIZE  IADC CODE  MANUFACTUI  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLI  TOTAL HOUR  CU	BIT RECORD  121/  121/  RER STC FDS  ML 128C  3×18  3×18  13 3C  ED  ITTING STRUCTURE	DRILLER	TIME WEIGHT PRESSURE GRADIENT FUNCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD R	eate	
18. SQUEEZE  19. FISHING  20. DIR. WOF  21.  22.  23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H.  TOTALS  DA  HOURS W/ CO HOURS W/ CO	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  TING  OFFICE USE  ONTR. D.P.  PR. D.P.  IOUT D.P.	SUMMARY		D/ NO1/2/1/3-8	DRILLING (At end ITEM BIT JAMAD READ YOU'DE YOU'DE YOU'DE STANDS SINGLES	OD S OD S OD S OD S OD S OD S OD S OD S	LENGTH 1,00 338,81 1,06 339,61 29,62 38,99 9,7,12	BIT NO.  SIZE  IADC CODE  MANUFACTUI  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLI  TOTAL HOUR  CU  INNER  CHARLES  BEARINGS	BIT RECORD  121/  121/  RER STC  FDS  ML 1281  3X18  DITTING STRUCTUF  DUIL CH	DRILLER  RE AR. LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHEM	eate A A BICALS ADDED TYPE Poly	
18. SQUEEZE  19. FISHING  20. DIR. WOF  21.  22.  23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H.  TOTALS  DA  HOURS W/ CO HOURS W/ CO	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  OFFICE USE  ONTR. D.P.  PR. D.P.  IOUT D.P.	SUMMARY		D/ No1/2/1/3-1-8 23	DRILLING (At end ITEM BIT  B/SUMAD  REALING  (AT END  REALING  STANDS  SINGLES  KELLY DOWN	OD S OD S OD S OD S OD S OD S OD S OD S	LENGTH 1,00 338,81 1,06 339,61 29,62 38,99 9,7,12	BIT NO.  SIZE  IADC CODE  MANUFACTUR  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLI  TOTAL HOUR  CU  INNER  C	BIT RECORD  121/  121/  RER STC  FDS  ML 1284  3418  2394  ED  OTHER DULL CH	DRILLER  RE AR. LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE DOP SOLIDS	MUD & CHEM AMOUNT  18 4	eate A A BICALS ADDED TYPE Poly	
18. SQUEEZE  19. FISHING  20. DIR. WOF  21.  22.  23.  A. PER B. TUB C. TRE D. SWA E. TES F. G. H.  TOTALS  DA  HOURS W/ CO HOURS W/ CO	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  OFFICE USE  ONTR. D.P.  PR. D.P.  IOUT D.P.	SUMMARY		D/ NO 1/1 3 - 8 23 \	DRILLING (At end ITEM BIT  B/5  Reamer  Reamer  Reamer  STANDS  SINGLES  KELLY DOWN  TOTAL  DE STRING	00 00 00 00 00 00 00 00 00 00 00 00 00	LENGTH 1.00 338.86 1.06 339.86 299.87 299.87 299.87 299.87	BIT NO.  SIZE  IADC CODE  MANUFACTUI  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLI  TOTAL HOUR  CU  INNER  CHARLES  BEARINGS/ SEALS  CO  O  O  O  O  O  O  O  O  O  O  O  O	BIT RECORD  121/  121/  RER STC  FOS  ML 1284  3418  2394  ED  OTHER DULL CHAR.  GAGE OTHER DULL CHAR.	DRILLER  RE AR. LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHEM	eate A A BICALS ADDED TYPE Poly	
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SW/ E. TES F. G. H.  TOTALS  DA HOURS W/ CO HOURS W/ CO HOURS STAN	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  YWORK TIME (OFFICE USE DOTR. D.P. 1001' D.P. 1100' D.P.	SUMMARY		D/ No1/2/1/3-1-8 23	DRILLING (At end ITEM BIT  B/SUSA  REAME  LO'OCS  STANDS  SINGLES  KELLY DOWN  TOTAL  DE STRING	00 00 00 00 00 00 00 00 00 00 00 00 00	LENGTH 1.00 338.86 1.06 339.86 299.87 299.87 299.87 299.87	BIT NO.  SIZE  IADC CODE  MANUFACTUR  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLI  TOTAL HOUR  CU  INNER  C	BIT RECORD  121/  121/  RER STC  FOS  ML 1284  3418  2394  ED  OTHER DULL CHAR.  GAGE OTHER DULL CHAR.	DRILLER  RE AR. LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE DOP SOLIDS	MUD & CHEM	eate A A BICALS ADDED TYPE Poly	
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SW/ E. TES F. G. H.  TOTALS DA  HOURS W/ CO HOURS W/ OF HOURS W/ OF	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  YWORK TIME (OFFICE USE DOTR. D.P. 1001' D.P. 1100' D.P.	SUMMARY		D/ NO 1/1 3 - 8 23 \	DRILLING (At end ITEM BIT  B/5  Reamer  Reamer  Reamer  STANDS  SINGLES  KELLY DOWN  TOTAL  DE STRING	00 00 00 00 00 00 00 00 00 00 00 00 00	LENGTH 1.00 338.86 1.06 339.86 299.87 299.87 299.87 299.87	BIT NO.  SIZE  IADC CODE  MANUFACTUI  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLI  TOTAL HOUR  CU  INNER  CHARLES  BEARINGS/ SEALS  CO  O  O  O  O  O  O  O  O  O  O  O  O	BIT RECORD  121/  121/  RER STC  FOS  ML 1284  3418  2394  ED  OTHER DULL CHAR.  GAGE OTHER DULL CHAR.	DRILLER  RE AR. LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE DOP SOLIDS	MUD & CHEM	eate A A BICALS ADDED TYPE Poly	
18. SQUEEZE 19. FISHING 20. DIR. WOF 21. 22. 23.  A. PER B. TUB C. TRE D. SW/ E. TES F. G. H.  TOTALS  DA HOURS W/ CO HOURS W/ CO HOURS STAN	E CEMENT  RK  RFORATING  RING TRIPS  RATING  ABBING  TING  TING  TING  TING  OFFICE USE  DNTR. D.P.  PR. D.P.  IOUT D.P.  IDBY	SUMMARY		D/ NO 1/1 3 - 8 23 \	DRILLING (At end ITEM BIT  B/5  Reamer  Reamer  Reamer  STANDS  SINGLES  KELLY DOWN  TOTAL  DE STRING	00 00 00 00 00 00 00 00 00 00 00 00 00	LENGTH 1.00 338.86 1.06 339.86 299.87 299.87 299.87 299.87	BIT NO.  SIZE  IADC CODE  MANUFACTUI  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILLI  TOTAL HOUR  CU  INNER  CHARLES  BEARINGS/ SEALS  CO  O  O  O  O  O  O  O  O  O  O  O  O	BIT RECORD  121/  121/  RER STC  FOS  ML 1284  3418  2394  ED  OTHER DULL CHAR.  GAGE OTHER DULL CHAR.	DRILLER  RE AR. LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE DOP SOLIDS	MUD & CHEM	eate A A BICALS ADDED TYPE Poly	



	HCT			EMI	kky	<u>,                                    </u>		STATE	La.	A		WIRE L	INE REC	ORD	REEL NO.					
		SIZE	MA	1	WEIG & GR	SHT ADF	NO. JOINTS	LENGT	гн ,	RKB. TO CSG. HD.	SETAT	SIZE.	1/81	MO.	LINES		LENGTH	SLIPPED	tail in	Jan W
LAST	-		+		a uH	ADE	JUINTS		-+	Jou. HD.		the second second	CUT OFF	1	10	PRESE	IT LENGTE	######################################		
CASING TUBING	<b> </b>		-				7					<u> </u>						• .		
OR LINER												WEAR O SINCE L	R TRIPS AST CUT							
							,			-		CUMULA WEAR O	TIVE R TRIPS							****
DEPTH IN	(TED)	/A1											NO. 1	n	JMP NO. 2		240.0			7
T			DRILL.D REAMR COREC	CORE	10		MATION RE RECOVE	nv.	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	-	T NO. 1	-	<del></del>	+	P NO. 3	<del></del>	P NO. 4	TOTAL PUMP
FROM		то	COREC		(3	now co	NE NECOYE					LINER SIZE	S.P.M.	Line	E S.P.M.	LINER	S.P.M.	LINER	S.P.M.	OUTPU
2473	2	594							110/	12	250	5"		5	1 38/40	<b>)</b>				
								ĺ	715		750				700					
rm																	1			
		DEPTH	DEV.		HR.	TVD	HORIZ DIŞP.	Z. DE	РТН	DEV.	DIR.	TVD	HOF	RIZ.	DEPTH	DEV.	DIR.	\	VD	HORIZ. DISP.
DEVIATIO RECORD		7450	12	2											32, 111		- Ont.	<del></del>	+	DIGF.
	• (	75	720	,   -								-					+	-		
TIME	LOG		ELAPSEI		DE NO.	DETAIL	S OF OPEN	ATIONOU	V 05011		SELLABUS	<u> </u>								
FROM		то	TIME		DE NO.	DETAIL	S OF OPER		N SEQUI	ENCE ANL	HEMARKS									
2600	09	730	3/2		2	Del	9 24	13	to a	249	78		,							
2430	11	00	1/2		1	1	/ <del>-                                   </del>		~21	1 / /	, ,								· .	
100	<i>, ,</i> .	7	780				JUR.	(	<u> </u>	<u> </u>							-			
000	1	115	<b>15</b> /4	-	2_	L	elg-	249	8_	too	2590	2								
715	1	145	· /z	1/1	3	J.	2/2 3	ELLI	ica		<del>/</del>	SUN	2		<u></u>	RI	>			
2015	1/8	00	1/4	, .	2	13	61 -	00		.1	•	-94				<del></del>				- 7.1.
17.3	10	00				1/1	erg F	2 S Z	<u> </u>	4-0	<u> </u>	3 77		•	<del></del>					
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				.		1									742					
			<del></del>	+	<u></u> -								-							· · · · ·
						F .														
DEPTH IN																				
<b>DEI</b> 1.77 MX	TERV	AL	DRILL.D	CORE		FOR	MATION	ı,	OTARY	WT. ON	PUMP	PUMP	NO. 1	Pί	IMP NO. 2	PUMF	NO. 3	PUMP	NO. 4	TOTAL
FROM	•	AL TO	DRILL.D REAMR COREC	CORE NO.	(SI		MATION RE RECOVER	RY)	POTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1	LINE	R	LINER	NO. 3 S.P.M.	LINER	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
		то	REAMR	CORE NO.	(Si			RY)	TABLE SPEED	BIT	PRESSURE	LINER			R S.P.M.		Ι .	·	<u> </u>	PUMP
			REAMR COREC	CORE NO.	(si			RY)	POTARY TABLE SPEED	WI. OR	PUMP PRESSURE	LINER		LINE SIZI	R S.P.M.	LINER	Ι .	LINER	<u> </u>	PUMP
		то	REAMR COREC	CORE NO.	(s)			RY)	TABLE SPEED	BIT	PRESSURE	LINER	S.P.M.	LINE SIZI	R S.P.M.	LINER	Ι .	LINER	<u> </u>	PUMP
		то 23	REAMR COREC	CORE NO.	(si		RE RECOVER	RY) ;	TABLE SPEED	BIT	PRESSURE	LINER	S.P,M.	LINE SIZI	R S.P.M.	LINER	Ι .	LINER	S.P.M.	PUMP OUTPUT
FROM 25-9 L	270	то ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	REAMR COREC	<b>NO.</b>	(SI			RY)	TABLE SPEED	BIT	PRESSURE	LINER	S.P.M.	LINE SIZI	R S.P.M.	LINER	Ι .	LINER SIZE	S.P.M.	PUMP
T	270	то 23	REAMR COREC	<b>NO.</b>	E.	HOW COF	HORIZ	RY)	TABLE SPEED	/ (2)	L/50	LINER	S.P,M.	LINE SIZI	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27 <i>0</i>	то ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	REAMR COREC	<b>NO.</b>	E.	HOW COF	HORIZ	RY)	TABLE SPEED	/ (2)	L/50	LINER	S.P,M.	LINE SIZI	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
PROM 259 L	27 <i>(</i> N	то ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	REAMR COREC	<b>NO.</b>	E.	TVD	HORIZ	RY)	IST	/ O	L-150	LINER	S.P,M.	LINE SIZI	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27 <i>(</i>	DEPTH 2583	DEV.	<b>NO.</b>	E. DE NO.	TVD	HORIZ DISP.	DEF	IST	/ O	L-150	LINER	S.P,M.	LINE SIZI	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	270 N LOG	DEPTH 2583	DEV.	D COD	IR. DE NO.	TVD  DETAIL:	HORIZ DISP.	RY)	IST	/ O	L-150	TVD	S.P,M.	LINE SIZI	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27 <i>(</i>	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COD	E. DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO. 2	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV.  BLAPSET TIME	D COL	IR. DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO. 2	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO. 2	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO. 2	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO. 2	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	27( N LOG	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO.	TVD  DETAIL:	HORIZ DISP.	DEF	IST	/ O	DIR.  REMARKS	TVD	S.P.M.	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT
DEVIATION RECORD TIME FROM 19:00 9:45	16 20 16	DEPTH 2583	DEV. 3 3° ELAPSET TIME	D COL	E DE NO.	TVD  DETAILS  Or  Or	HORIZ DISP.	DEF	IST IS SEQUE	DEV.	DIR.  REMARKS	TVD	HORDIS	LINE SIZI	R S.P.M.	DEV.	S.P.M.	Liner	S.P.M.	PUMP OUTPUT

INO	· <b>3</b> U	JUDO	)			ı		D.	AILY DR	LLING RI	EPORT	Г	ĺ		R	EPORT	NO.			
LEA	SE		***			و	* .	١	WELL NO.	API WE	LL NUM	IBER	<u>'a</u>			WATE	R DEPTH		DATE	_
10	uik	DE		Noun	fa:	N		2	1-16									11-14	5-01	Z
OPE	RATOR	£					'			CONTR	RACTOR	1	11			_ `			RIG NO	<u>5</u>
CICA	POR	TUN	ATODIC D		T A TO (F	•		<del></del>			T. IDE 40	<u> H</u> A	HE	Ryon	) 471	- ()	ely		04	
SiGn	VATTIRE	OF OPER	ATORSH	PRESEN	TATIVE	<b>.</b>				SIGNA	TUBE	F CONTRAC	CYOR	'S TOOL	PUSHER	Ď	ar fan de		-	
ح	Sizema	to	KIL.	ا							an	roll	1	Vac	elefor		1	,T)	STROK	F
1/4/14P	A TOWN	WEIGHT		ADE	loor 1	I O.D.	TYPE THR	EAD	STRING NO	. PUMP N	10.	→ Pt	JMP M	ANUFACT	URER		ATTPE		STROK	<u>H</u> .
4	12	10		K	10/	4	4/2	K/H	226	_		1 DE	20	<u>ئے ک</u>	part of the second	- Î <i>S</i>	50		15	
	-		<u> </u>							12		I Dec	10	S. Line	-	_5	50	-	_/5	
<u> </u>											<u> </u>				uk <sup>3</sup> ,			_		
<del></del>					III .			,,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>												
	TIME D	DIST <del>RIB</del> UTI	ION - HOU	IRS		DRI	LLING ASS (At end of t		LY		BIT	RECORD				MUD	RECORD			
COD	E - OPEI	RATION	NIGHT	DAY	NO.		ITEM		LENGTH	BIT NO.		4	Τ		TIME			Τ.		
	RIG UP AN				<b> </b>	<u> </u>	/	<del>-</del>		SIZE		7	+				· · · · · · · · · · · · · · · · · · ·	+		
	PRILL AC		-	5/2		BIT /	214	<del></del>	00			1214	+		WEIGHT					
	REAMING			0/2	1/1	Bit	Sun X	2.3	2886	IADC COD			$\perp \perp$		PRESSURE GRADIENT			$\perp$		
					2	5"DE	. OD	61	.09	MANUFAC	CTURER	SIC	-		FUNNEL VISCOSITY					
	CORING CONDITION CIRCUL	ON MUD		13/	1/	REA	MEA	5.	34/206	TYPE	F	103			PV/YP	/	/		7	
		ATE	<u>S</u>	174	17	XO.	LAKE	2.2	9/200	SERIAL N	O. MZ	4284	0		GEL	7	1.7	+	7	
	RIPS		11/2	4/4	1/1	111	3 ( 200		19.87	JETS		x /8			STRENGTH FLUID LOSS		<del>                                     </del>	+		
	UBRICA1		-	<u> </u>	3_		OD OD	8	8.71	TFA		7					<u> </u>	+		
	REPAIR R		<u> </u>		1	JA	RG OD	2	9.02	DEPTH O	UT				pH			—		
9. D	OT OFF PRILLING	LINE	<del> </del>	.,	8	6"	DC	23	38.99	DEPTH IN		2394	<del>,                                       </del>		SOLIDS					TOLIB
10. D	EVIATIO	N SURVEY		1/2		BI	44	4	97.17	TOTAL DF		2377	+							Ė
11. V	VIRE LINE	E LOGS	51/2			STAN	DS D.P.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TOTAL HO		2011	+-		TYPE	MUD & CHE	MICALS ADDE		TAUON	NGHT
12. R	RUN CASIN	IG & CEMENT			ļ	SINGL	D.P.		· · · · · ·	TOTAL HO		G STRUCTUR	₹E			- 4	1111	- Aiv	10011	
13. V	VAIT ON	CEMENT		<u> </u>		<u> </u>	Y DOWN			INNER	OUTER			OCATION	DZP	26	ac	-		
14. N	IIPPLE U	P B.O.P.	ļ	ļ	<u></u>	<del> </del>				BEARINGS/		OTHER			B212cA	3				
15. T	EST B.O.	.P.				TOTA	L 			BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.		REASON PULLED	Barriog	1584	R	$\perp$		
16. D	RILL STE	EM TEST			WT. O	FSTRIN	ıg ,													
17. P	LUG BAC	CK			RÈMA	RKS	en ni enve	· par	ورايمت فتعافشه مثانا	Z grown na				Bo	iler	12h	25			
18. S	QUEEZE	CEMENT						3.		7							-			
19. F	ISHING					$\cap$	NEI	)[	NTIAL		······									
20. D	IR. WOR	ik .				<u> </u>	11111	1	ATIAL	- 1										
21.						/	1		2						-20	<del>/)</del>				
22.					1)//	9	CKX	_2	Sumbo	ARDI	EK	D	PILLE	R /	5. F	Yeu				
23.						DRI	LLING ASS (At end of t		LY		BIT	RECORD				MUD	RECORD			
	A. PERI	FORATING			NO.	Γ	ITEM	r i	LENGTH	BIT NO.		T	1		TIME		T	<u> </u>	<u>- 67</u>	ĺ
	B. TUBI	ING TRIPS			NO.		11EM						+		TIME			-		ĺ
z	C. TREA	ATING				BIT	12/4	/	1,00	SIZE		12/4	+,	11	WEIGHT	,		$\bot$		
ETIO	D. SWA	ABBING				BIS	UB	2	133	IADC COL	DE 		$\perp \perp$		PRESSURE GRADIENT					
COMPLETION	E. TEST	TING			13	81/	<u>ک</u> ح‱	90	7 7/	MANUFAC	CTURER	STC	$\perp$		FUNNEL VISCOSITY					
ន	F.							2	.29	TYPE	<del></del>	FOS			PV/YP	7	1 /	$\top$	7	
	G.				2		<u>00</u>	0	0 7	SERIAL N	O. ML	4284	1		GEL	7	1 /	-	4	
	н.				حـا	0	<u>JC.óo</u>	8	0.11	JETS		3×18	$\neg$		STRENGTH	/	+-/-	+		-
TOTA	<u> </u>		17	12		7	ars od	2	9.02	TFA					LOSS			+		
	DA	YWORK TIMI	E SUMMARY		8	6	W.S.	2	38,99	DEPTH O	UT	<del> </del>	+		pH			1		
HOU		(OFFICE US ONTR. D.P.	E UNLY)					Ĺ		DEPTH IN		2394	+		SOLIDS					2 2 2
	RS W/ OF	12.	+	+		12	JIA	4	97.12	TOTAL DE	,	8374	Н—		1					I >
		OUT D.P.	<del>                                     </del>		24	STAN	DS D.P.		7 7/1			201	_		7/05		MICALS ADD		101117	2
	RS STAN					SING	LESD.P.			TOTAL HO		G STRUCTUR			TYPE	AMOUNT	TYPE	AN	MOUNT	
					2	-		$\vdash$		INNER	OUTE			OCATION	AAL.	455	X	$\dashv$		l
			-	-	<b> </b>	KELL	Y DOWN	62	0	BEARINGS/		OTHER	+	REASON	Sourcat	00g 1		<del></del>		
			+		<b> </b>	ТОТА				BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.		REASON PULLED						
			-	-	WT. O	F STRIN	16 9 Co	DO	00						<u> </u>					ı
<u> </u>		·00	-		REMA	RKS	Fork	1,1	ft.	W.V	'e	Lind	علا	au	BAS	IER.	12 h	, RS		
	DE DAYS		<u></u>		Λ		9<	[ N	Ò			امر	ر ان	<del>ربن</del>	21		·/			
	OF DAYS M SPUD ULATIVE					<u></u>		\	<u>~</u>			~ <u>~ `</u>	~ \	<u>پ</u>		10.				
ROTA	ATING HO	DURS			Ιw	CA		10												
	Y MUD C			₩.	M	$\alpha \acute{\lambda}$	( L	<u>00</u>				· · · · · ·	+	$\rightarrow$	<del>-</del> -,	++-	<del> </del>			
TOTA	AL MUD C	COST				$\mathcal{O}'$	4	<u>S'</u>				C	RILLE	R	صمح	Wh	~ <u>~</u>	<del></del>		L
© 1995	5 Internation	nal Association	of Dailling Contra	actors		C - A		iAL	DAILY D	RILLING <b>F</b>		RIFOR	M	1	• •	-				

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	NCT	C	OUNTY	u E L	e/		STATE / C	OUNTE +41			WIRE L	NE REC	ORD	REEL NO.		7,5-5			**************************************
	SIZE	МА	KE		GHT RADE	NO. JOINTS	LENGT	, ,	RKB. TO SG. HD.	SET AT	SIZE	1/8	NO.	<b>が</b> うつ		LENGTH	SLIPPED		taren a
LAST CASING TUBING									16		LENGTH	CUT OFF	٠٠٠٠,		PRESE	NT LENGTH	1	200.00	20 4/85 6
TUBING OR LINER						· -		1	-		WEAR OF	R TRIPS							
							-		<del></del>		CUMULA WEAR OF	TIVE	-			m			
DEPTH IN	ITERVAL	DRILLD		1	500	44700		OTABY			PUMP		PU	MP NO. 2	PUM	P NO. 3	PUM	NO. 4	
FROM	то	REAMR COREC	NO.			MATION RE RECOVE	RY)	OTARY ABLE SPEED	WT. ON BIT	PUMP	LINER SIZE	S.P.M.	LINE	R S.P.M.	LINER	S.P.M.	LINER	S.P.M.	TOTAL PUMP OUTPUT
2703	2770					· · · · · · · · · · · · · · · · · · ·	1	9/-	10/	350/	5"	-	5		+		SIZE		
								77.5		1410			کسته	160	1			-	
		<u> </u>			Ţ														
DEVIATIO	DEPT	1 7	//	DIR.	TVD	HORIZ DISP.	DEP	тн	DEV.	DIR.	TVD	HOF		DEPTH	DEV.	DIR.	Т	VD	HORIZ. DISP.
RECORD		721	4		<u> </u>		#			<u> </u>						ļ			
TIME	LOG	ELAPSE	D 00		 														
FROM	то	TIME	-	DDE NO.	DETAILS	S OF OPER	ATIONS IN	SEQUE	ENCE AND	REMARKS						· · · · · · · · · · · · · · · · · · ·			
2600	0830	2/1	-	2	DA	elg.	270	3	10	274	18								
2830	0900	1-	<u>,                                     </u>	10	Su	R						,					_		
2900	1200	3	ء ا	2	Del	027	748		40	27	75								
200	1245	3/4	1 2	<u> </u>	Cil	ecl.													7.
245	1700	4	1/2 /	6	Pm	H. 1.	D. Ma	NES	1 391	+ Ry gran	u =	54/x	45	5,80	37	H.			
1700	1600	1			Ban	al	Cie	6	)/	1-2-7-	1	- DC:							
					121-12		- / /			и.									
			-		DI	7	T. T			24		$\mathcal{L}$		1,	1/1	11			
		<del>                                     </del>			1,4	-	-5/-	<u> </u>		J 7	4	10a	<b>D</b> (	Y.	K	Hy	in	X	2
	<del></del>																	<del></del>	<del> </del>
	<del></del> -	-	_	<del>_</del> .	+-	4			· · ·						٧				
	·		-		-	<del></del>	<del></del>												
				<del>i -</del>		<del></del>	1.												
DEPTH INT	TO	DRILLD REAMR COREC	CORE NO.	(S		IATION E RECOVER	RO T.	TARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP	<del></del>	PUI	WP NO. 2	PUMP		PUMP		TOTAL PUMP
- Trom					· · · · · · · · · · · · · · · · · · ·						LINER SIZE	S.P.M.	SIZE	S.P.M.	SIZE	S.P.M.	LINER	S.P.M.	OUTPUT
				1											[				
														-		-			ŀ
					<del></del>											-			
	DEPTH	DEV.		DIR.	TVD	HORIZ. DISP.	DEPT	ъ	DEV.	DIR.	TVD	HOR	IZ.	DEPTH	DEV.	DIR.	T	/D   1	ORIZ.
DEVIATION RECORD	v -	DEV.	E	DIR.	TVD	HORIZ. DISP.	DEPT	-Н	DEV.	DIR.	TVD	HOR	IZ.	DEPTH	DEV.	DIR.	TV	/D !	HORIZ. DISP.
RECORD	N			DIR.	TVD	HORIZ. DISP.	DEPT	TH	DEV.	DIR.	TVD	HOR DISI	IZ.	DEPTH	DEV.	DIR.	TV	/D I	HORIZ. DISP.
	N	DEV.		DIR.  DE NO.		HORIZ, DISP.	DEPT				TVD	HOR	IZ.	DEPTH	DEV.	DIR.	TV	/D	HORIZ. DISP.
RECORD TIME L	OG					DISP.	DEPT				TVD	HOR	IZ.	DEPTH	DEV.	DIR.	TV	/D   1	HORIZ. DISP.
RECORD TIME L	OG					DISP.	DEPT				TVD	HOR	IZ.	рертн РОС	DEV.	DIR.	n 1'	1 A	HORIZ. DISP.
RECORD TIME L	OG TO 23,00					DISP.	DEPT				TVD	HOR DIS	n)	Ро(	DEV.	DIR.	6 1	3+ 1	ORIZ. DISP.
RECORD TIME L	23,00 23,00	ELAPSEI TIME				DISP.	DEPT				J Cuo	HOR DIS	n)	PO(	DEV.	DIR.	6 1 <u>'</u>	yb 1	HORIZ. DISP.
RECORD TIME L	23,00 23,00	ELAPSEI TIME				DISP.	DEPT				Jua Lua	HORDISI	n)	PO(	DEV.	DIR.	6 1	3+ 1	HORIZ. DISP.
RECORD TIME L	23,00 23,00	ELAPSEI TIME				DISP.	DEPT				TVD	HOR DIS	n)	PO(	DEV.	DIR.	6 1	3+1	HORIZ. DISP.
RECORD TIME L	23,00 23,00	ELAPSEI TIME				DISP.	DEPT				TVD	HOR DIS	n)	PO(	DEV.	DIR.	6 1	) <del>1</del> 1	HORIZ. DISP.
RECORD TIME L	23,00 23,00	ELAPSEI TIME				DISP.	DEPT				TVD	HORDISI	h)	PO(	DEV.	DIR.	0 1 <u>'</u>	yb 1	HORIZ. DISP.
RECORD TIME L	23,00 23,00	ELAPSEI TIME				DISP.	DEPT				TVD	HOR DIS	n)	PO(	DEV.	DIR.	6 1	3 <sup>+</sup> 1	HORIZ. DISP.
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RECORD TIME L	23,00 23,00	ELAPSEI TIME				DISP.	DEPT				TVD	HORDISI	n)	POC	DEV.	DIR.	6 1	) † 1.	P.C.
RECORD TIME L	23,00 23,00	ELAPSEI TIME				DISP.	DEPT				TVD	HOR DIS	n)	PO(	DEV.	DIR.	6 1	3+ 1	DISP.
TIME L FROM (8: 00 23:00 00:30	23,00 23,00 62:30	ELAPSEI TIME  5 1 1/2 5 1/2	) col		DETAILS  Circ Sta RIU  BO	OF OPERA	TIONS IN STATE OF THE PROPERTY	Co		REMARKS  L (B)  L (S)	012 C	Disi Disi	Z.	POCUME	DEV.	DIR.	6 1 N	3+1.	PC.
TIME L FROM (8', 00 23',00 00', 30')	23,00 23,00	ELAPSEI TIME  5 1 1/2 5 1/2	) col			DISP.	TIONS IN STATE OF THE PROPERTY			REMARKS  L (B)  L (S)	TVD	Disi Disi	h)	POC	DH perg	L/3	ν-O	3+ 1.	DC.

DAILY MUD COST TOTAL MUD COST

NO. OF DAYS CUMULATIVE ROTATING HOURS





APPROVED

IELD OR DIST	HICI			UNTY	m E.	Ry		STATE / CO	DUNTRY	*	WIRE L	NE REC	ORD	REEL NO.					
rydychlore i		SIZE	MAR		WEIG & GR/		NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE 1	1/4	NO. L	NES.	o <b>ja</b> produks	LENGTH	SURPED.		14.5 A
LAST						$\overline{}$					LENGTH	CUT OFF		70	PRESE	I IT LENGTH		A COMPLETE SACE	******* · *
CASING TUBING OR LINER	-					-+					WEAR O	R TRIPS		<del></del>	<u> </u>		<u></u>		
	-		-	-		-					SINCE LA	AST CUT							
	1.										WEAR O	R TRIPS							
DEPTH II	NTERV	/AL	DRILL.D REAM.R	CORE		FOR	MATION	R	TARY WT. OF	I PUMP		NO. 1	PU	MP NO. 2	PUMI	NO. 3	PUMF	NO. 4	TOTAL
FROM		то	COREC	NO.	(S	HOW CO	RE RECOVE	RY) s	SEED BIT	PRESSURE	LINER SIZE	S.P.M.	LINE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
2775											-								
																		1	<u> </u>
		DEPTH	DEV.		IR.	TVD	HORIZ DISP.	DEP	H DEV.	DIR.	TVD	HOF	RIZ. SP.	DEPTH	DEV.	DIR.	Т	VD	HORIZ. DISP.
DEVIATIO RECORI																			
FROM	LOG	то	ELAPSEI TIME	CO	DE NO.	DETAIL	S OF OPER	ATIONS IN	SEQUENCE AN	ID REMARKS				···········					
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DEPTH IN	ITERV	AL	DRILL_D REAM.R	CORE			MATION	Ro		PUMP	PUMP	NO. 1		MP NO. 2	<del> </del>	NO. 3	-	NO. 4	TOTAL
DEPTH IN	-	AL TO	DRILLD REAM.R COREC	CORE NO.	(SI		MATION RE RECOVER	PO T/		PRESSURE	PUMP LIMAR SIZE		PUI LINEF SIZE		PUMF LINER SIZE	NO. 3	PUMP LINER SIZE	NO. 4	TOTAL PUMP OUTPUT
	-	го	DRILLD REAMR COREC	CORE NO.	(SI						PUMP	NO. T			<del> </del>	Γ	-	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
FROM	1	го		CORE NO.	(SI				TARY WT. ON BLE BIT		PUMP LIMAR SIZE	NO. 1			<del> </del>	Γ	-	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
FROM	1	го		CORE NO.	(SI				TARY WT. ON BLE BIT		PUMP LIMAR SIZE	NO. T			<del> </del>	Γ	-	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
FROM 27 75	29	го	DEV	NO.	(SI			JK 11	TARY WT. ON BILE BIT		PUMP LIMAR SIZE	NO. T	LINEF SIZE		<del> </del>	Γ	LINER	S.P.M.	TOTAL PUMP OUTPUT
FROM 27 75	29 DN	ro 200	DEV	NO.	81	e c	RE RECOVER	JK 11	TARY WT. ON BIT	450	PUMP Limbs SIZE	NO. T	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
FROM 27 75	29 DN	TO O O	O DEV.	NO.	81	e c	RE RECOVER	JK 11	TARY WT. ON BIT	450	PUMP Limbs SIZE	NO. T	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
PROM 27 75 DEVIATION RECORD	29 DN LOG	DEPTH 2883	DEV	NO.	81	TVD	HORIZ, DISP.	DEPT	TARY WT. ON BIT	DIR.	PUMP Limbs SIZE	NO. T	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
PROM 27 75  DEVIATION RECORD	29 DN LOG	TO O O	DEV.	NO.	IR.	TVD	HORIZ, DISP.	DEPT	TARY WT. ON BIT	DIR.	PUMP Limbs SIZE	NO. T	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
PROM 27 75 DEVIATION RECORD	29 Log	DEPTH 2803	DEV.	D COL	BIR. DE NO.	TVD	HORIZ, DISP.	DEPT	TARY WT. ON BIT	DIR.	PUMP LIME SIZE TVD	S.P.M.  S.P.M.  HOP DIS	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ.
PROM 27 75 DEVIATION RECORD	29 Log	DEPTH 2803	DEV.	D COL	IR.	TVD	HORIZ, DISP.	DEPT	TARY WT. ON BIT	DIR.	PUMP Limbs SIZE	S.P.M.  S.P.M.  HOP DIS	LINEF SIZE	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
PROM 27 75 DEVIATION RECORD	29 Log	DEPTH 2803	DEV.	D COL	BIR. DE NO.	TVD	HORIZ, DISP.	DEPT	TARY WT. ON BIT	DIR.	PUMP Cline SZE	NO. TO S.P.M.	LINEF SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
TIME FROM	29 Log	DEPTH 2803	DEV.	D COD	BI. DE NO.	TVD	HORIZ. DISP.	DEPT	TARY WT. ON BIT	DIR.	PUMP Cline SZE	NO. TO S.P.M.	SIZ.	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	LOG	DEPTH 2803 TO 0,30	DEV.	D COD	BI. DE NO.	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	NO. TO S.P.M.	SIZ.	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	LOG	DEPTH 2803 TO 0,30	DEV.	D COD	BI. DE NO.	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	NO. TO S.P.M.	SIZ.	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	LOG	DEPTH 2803 TO 0,30	DEV.	D COD	BI. DE NO.	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	NO. TO S.P.M.	SIZ.	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	LOG	DEPTH 2803 TO 0,30	DEV.  CLAPSEC TIME  21:1  1/2  1/2	D COD	BI. DE NO.	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	NO. TO S.P.M.	SIZ.	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	2°	DEPTH 2803 TO 0,30	DEV.  CLAPSEC TIME  21:1  1/2  1/2	D COD	BI. DE NO.	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	NO. TO S.P.M.	SIZ.	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	2°	DEPTH 2803 TO 0,30	DEV.  CLAPSEC TIME  21:1  1/2  1/2	D COD	BI. DE NO.	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	NO. TO S.P.M.	SIZ.	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	2°	DEPTH 2803 TO 0,30	DEV.  CLAPSEC TIME  21:1  11:2  11:1  11:2  11:1  11:2  11:1	D COD	BI. DE NO.	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	s.p.m.	SIZE SIZE	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	2°	DEPTH 2803 TO 0,30	DEV.  CLAPSEC TIME  21:1  11:2  11:1  11:2  11:1  11:2  11:1	D COD	BI. DE NO. 2 0 2	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	s.p.m.	SIZE SIZE	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	2°	DEPTH 2803 TO 0,30	DEV.  CLAPSEC TIME  21:1  11:2  11:1  11:2  11:1  11:2  11:1	D COD	BI. DE NO. 2 0 2	TVD  DETAIL  G 1  Dr1	HORIZ. DISP.	DEPT ATIONS IN S  ATIONS IN S  ATIONS IN S	TARY WT. ON BIT	DIR.	PUMP Cline SZE	s.p.m.	SIZE SIZE	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.
TIME FROM  18'.00  100  130	2 Constant	DEPTH 2803	DEV.  CLAPSEC TIME  21:1  11:2  11:1  11:2  11:1  11:2  11:1	NO.	BI. DE NO. 2 0 2	TVD  DETAIL  Orl	HORIZ DISP.	DEPT ATIONS IN S 1/27 1/28	TARY WT. ON BILE BILE BILE BILE BILE BILE BILE BILE	DIR.	PUMP LINE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZ	NO. 1 S.P.M.  S.P.M.  S.P.M.  DISS	SIZE SIZE	S.P.M.	DEV.	s.p.m.	LINER	S.P.M.	HORIZ.

	0652					DAILY DRIL	LLING REPO	ORT '	l 🔍 🥜	R	EPORT NO	0.		
LEASE						WELL NO.	API WELL				WATER D	DEPTH	DATE	
middl	e m	سلا	at-	نسا		21-16							31-17-	-03
UPERATOR			_ <del></del>	, <u> </u>			CONTRACT	IOR		-			RIG	NO.
FOR TUBE OF	S OPERATO	OR'S	PRESE	<b>FATIVE</b>	<del></del>		SIGNATUR	RE OF CONTRACTO	-UT	*USHFP			10.	7
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	WEIGHT	Fa	ADE	TOOL JT	and the second of the second second second second	PEAD STRUMPAID	PUMP NO.	PUMF	IP MANUFACTU	IDER		TYPE	STR	ROKE NGTH
17	20/		٤	61/2	and the second of the second second second second	7 27/	7		DECO			550		<u>5</u>
		1					5		DEM			5 <u>50</u>		5
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						Agricultural materials and a second material and a second materials and a second materials and a second materials and a second materials and a second materials and a second materials and a second materials and a second materials and a second materials and a second materials and a second materials and a second materials and a second materials and a second material and a second materials and a second material and a second materials and a second material								
TIME DIST	TRIBUTION	1 – HOUR	75		DRILLING ASS			BIT RECORD			MUD RE	ECORD		T
CODE NO. – OPERAT	TION	NIGHT	DAY	NO.	(At end of to	LENGTH	BIT NO.	5		TIME			_	
1. RIG UP AND TEAR DOWN					BIT 17 1/4	1.00	SIZE	1214		WEIGHT	1			
2. DRILL ACTUA		1/3/	11		8" money	2.33	IADC CODE		<del></del>	PRESSURE GRADIENT	<b>\</b>	<del>(3)</del>	<del> </del>	
3. REAMING		<del>-4</del>				31312	MANUFACTU	IRER HTC		FUNNEL	. (0)	+	+	-
4. CORING				Z	8"DC500	61.09	TYPE	777		VISCOSITY	Non		+ ,	-
5. CONDITION M 5. & CIRCULATE	MUD		·		3PT Roman	4 3 W	SERIAL NO.	GT18	_	PV/YP	Y/\ \\	[Y]	1/2	
6. TRIPS			·		8 DCan	29.62	SERIAL NO. JETS	6000751		GEL STRENGTH	Xo	$\Box \mathcal{I}$	<b></b>	
7. LUBRICATE F	9IG		1/2		X/0 ~	2.29		3×24	·	FLUID LOSS	Po			
8. REPAIR RIG				1	20 CK 73"	88.51	TFA DEBTH OUT		·	рН			_	1
9. CUT OFF 9. DRILLING LIN	E	_		1	T	29.02	DEPTH OUT		-	SOLIDS	<del>                                     </del>	<del>                                     </del>		<u>،</u>
10. DEVIATION S		1/11	1/2	1	Jars L'ACS	238.99	DEPTH IN	2)25	<u> </u>	-	†	†	1	<b>-  </b>
11. WIRE LINE LO		<del>-+</del>		8	STANDS D.P.	<del>  497.12</del>	TOTAL DRILL	ED 239			MUD & CHEMI			NIGHT TO IR
12. RUN CASING &			-	20		2750.09		as ZD		TYPE	AMOUNT	TYPE		
13. WAIT ON CEN			1	2	SINGLESD.P.	66.70	CU	UTTING STRUCTURE OUTER DULL CHAR.		Basa ca t	15gals	<b>_</b>		_
13. WAIT ON CEN					KELLY DOWN	24-			Ī	Bou Cole	7			
14. NIPPLE UP B. 15. TEST B.O.P.			<u> </u>		TOTAL	3014	BEARINGS/ SEALS (	GAGE OTHER DULL CHAR.	REASON PULLED	Do-	900			_1
16. DRILL STEM		-	1	WT. OF	F STRING 10/	PRA		CHAR.	<del>                                     </del>	Siap.	12 C	T		1
17. PLUG BACK	+		<del> </del>		TOTAL LETIN	17 gr 20mm				and Ask	uasks .L	. , ,		-
17. PLUG BACK 18. SQUEEZE CE	MENT		<del>                                     </del>	REMAR	TIKS.		#81 <b>4</b> 3	Fo	aklif	+ K.s	KM.	1/25	-	-
18. SQUEEZE CE	•		<del> </del>		<del>الاالداد</del>	<del>][                                    </del>			0.10	H51	<u> </u>			-
19. FISHING 20. DIR. WORK	-		<del> </del>		UUNTIL	<u> 1EIXTTAL</u>							· · ·	_
20. DIR. WORK 21.			<del> </del>	1			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1							
22.			<del> </del>		-	10 10 10 10 10 10 10 10 10 10 10 10 10 1	lu Lj.∰	Do.	ILLER Z	w D.	de.s.	<u></u>		
23.		+	<del> </del>		DRILLING ASS	The second secon	3	BIT RECORD			Š	FCORE		<b>ा</b>
		•	<del> </del>	all .	(At end of t	The second secon					MUD RE	ATTEN TO SERVER	1997年	.al
A. PERFOR	RATING			<b> </b>		1	1-	<del></del>			MOD RE			
A. PERFOR				NO.	ITEM	LENGTH	BIT NO.	5		TIME	MODINE			
B. TUBING	TRIPS		· · · · · · · · · · · · · · · · · · ·	NO.	BIT 121/4	1.00	SIZE	5 121/4	<del></del>	WEIGHT		ted		
B. TUBING	TRIPS		·	NO.			<u> </u>		<del></del>			ted		
B. TUBING	TRIPS ING			NO.	BIT 121/4	1.00	SIZE	12/4		WEIGHT	Reves	ted		
B. TUBING  C. TREATIN  D. SWABBI	TRIPS ING			24	8" 12 1/4 8" MONE 1	1.00	SIZE IADC CODE	12/4		WEIGHT PRESSURE GRADIENT FUNNEL	Reves	ted	7	
B. TUBING C. TREATIN D. SWABBI E. TESTING	TRIPS ING			24	8" mone) 8" mone) 8 + 5 ub 8" De 500	1.00 24.86 61.09 5.34	SIZE IADC CODE MANUFACTU	12/4 JRER HTC		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	Aeres Wo	ted		
B. TUBING  C. TREATIN  D. SWABBI  E. TESTING  F.	TRIPS ING			24	8" 12 1/4 8" MONE 1	1.00 2433 24.86 61.09 5.34 29.62	SIZE IADC CODE MANUFACTU TYPE	12/4 JRER HTC GT18 600931		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID	Aeres Wo	ted		
B. TUBING  C. TREATIN  D. SWABBI  E. TESTING  F.  G.	TRIPS ING	,-		24	8" mone) 8" mone) 8 + 5 ub 8" De 500	1.00 233 24.86 61.09 5.34 29.62	SIZE IADC CODE MANUFACTU TYPE SERIAL NO.	IZ/4  JRER HTC  GT18		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS	Aeres Wo	ted		
B. TUBING C. TREATIN D. SWABBI E. TESTING F. G. H. TOTALS	TRIPS ING BING IG	J/2 SUMMARY DNI ''	12	24	8" mone) 8" mone) 8" Dc 500 3pt Reeps	1.00 2433 24.86 61.09 5.34 29.62	SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS	12/4 JRER HTC GT18 600931		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH	Aeres Wo	ted		
B. TUBING C. TREATIN D. SWABBI E. TESTING F. G. H. TOTALS	TRIPS ING BING IG  ORK TIME SI	J Z SUMMARY DNLY)		24	8" mone) 8" mone) 8" Dc 500 3pt Reeps	1.00 2433 24.86 61.09 5.34 29.62	SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA	12/4 JRER HTC 6T18 600931 3X24		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS	Aeres Wo	ted		
B. TUBING  C. TREATIN  D. SWABBI  E. TESTING  F.  G.  H.  TOTALS  DAYWOO	TRIPS ING ING IG  VORK TIME SI FFICE USE O	J/2 IUMMARY ONLY)		24	8" mone) 8" mone) 8" Dc 500 3pt Reeps	1.00 2133 24.60 61.09 29.62 2.29 9.87 29.62 2.29	SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN	12/4  JRER HTC  GT18  600931  3x24		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH	Aeres Wo	ted		
B. TUBING  C. TREATING  D. SWABBI  E. TESTING  F.  G.  H.  TOTALS  DAYW  (OF	ORK TIME SI FICE USE O	J/Z IUMMARY DNLY)		1 2 1 1 1 2 1 7	BIT 12'/4 8" MONE 8" DX'500 3pt Ream 8" DC 00 X O 00 Shock Sub C" DC'8 00 Javs	1.00 233 24.86 61.09 29.62 2.29 9.87 29.87 29.87 738.99 197.12	SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL	12/4  JRER HTC  GT18  600931  3X24  2775  ED 318		WEIGHT  PRESSURE GRADIENT FUNNEL VISCOSITY  PV/YP  GEL STRENGTH FLUID LOSS  pH  SOLIDS	A eres	ed /		
B. TUBING  C. TREATIN  D. SWABBI  E. TESTING  F.  G.  H.  TOTALS  DAYW (OF  HOURS W/ OPR. I	ORK TIME SI OFFICE USE O TR. D.P. D.P.	J/Z :UMMARY ONLY)		1 2 1 1 1 3 1 8	BIT 1214 8" Mone) 8 TX SOD 3pt Reams 7" DC OD X O OD Shock Sub 6" DC'S	1.00 233 24.66 61.09 5.34 29.62 2.29 9.87 738.99 497.12 25.24	SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOUR	12/4  JRER HTC  GT18  600931  3X24  2775  ED 318  RS 2/3// UTTING STRUCTURE		WEIGHT  PRESSURE GRADIENT FUNNEL VISCOSITY  PV/YP  GEL STRENGTH FLUID LOSS  pH  SOLIDS	MUD & CHEMI	MICALS ADDIT TYPE		DAY TOUR
B. TUBING  C. TREATIN  D. SWABBI  E. TESTING  F.  G.  H.  TOTALS  DAYW  (OF  HOURS W/ CONT  HOURS W/ THOURS W/ THOURS  HOURS W/ THOURS	ORK TIME SI OFFICE USE O TR. D.P. D.P.	J/Z IUMMARY JNLY)		1 2 1 1 1 2 1 7	BIT 12/4  3"MONE)  8" MONE)  8" DX'SOD  3pt Reason  7" DC OD  X O OD  Shock Sub  6" DC'S  SINGLES D.P.	1.00 233 24.60 61.09 5.34 29.62 2.29 9.87 738.99 197.72 25.34 32.80	SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOUR CU INNER C	12/4  JRER HTC  GT18  600931  3X24  2775  ED 318  3	R. LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BARNAT	MUD & CHEMI	AICALS ADDITION TYPE		
B. TUBING  C. TREATIN D. SWABBI E. TESTING F. G. H.  TOTALS  DAYWOO HOURS W/ CONT HOURS W/ OPR. II HOURS WITHOUT	ORK TIME SI OFFICE USE O TR. D.P. D.P.	UMMARY JNLY)		1 2 1 1 1 3 1 8	BIT 12 1/4  8" MONE  8 1 5 16  8" DC 50D  X O OD  Shock Sub  " DC 5  " DC 5  SINGLES D.P.  KELLY DOWN	1.00 2.33 2.33 2.33 61.09 2.29 2.29 2.29 2.87	SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOUR INNER CL	JRER HTC GTI8  GD0093  3X24  2775  LED 318  RS 2/3/ UTTING STRUCTURE OUTER DULL CHAR.	a. LOCATION	WEIGHT  PRESSURE GRADIENT FUNNEL VISCOSITY  PV/YP  GEL STRENGTH FLUID LOSS  pH  SOLIDS	MUD & CHEMI	MICALS ADDIT TYPE		
B. TUBING  C. TREATIN  D. SWABBI  E. TESTING  F.  G.  H.  TOTALS  DAYW  (OF  HOURS W/ CONT  HOURS W/ OPR. II  HOURS WITHOUT	ORK TIME SI OFFICE USE O TR. D.P. D.P.	UMMARY JNLY)		1 2 1 1 1 3 1 8 27	BIT 12/4 8" MONE 8" MONE 8" DC SOD 3 PLEERS 9" DC OD X O OD Shock Sulv " DC SOD TOCK SINGLES D.P. KELLY DOWN TOTAL	1.00 233 24.60 61.09 5.34 29.62 2.29 9.87 738.99 197.72 25.34 32.80	SIZE  IADC CODE  MANUFACTU  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOUR  CU  INNER  CHARLES  BEARINGS/	12/4  JRER HTC  GT18  600931  3X24  2775  ED 318  RS 2/3// UTTING STRUCTURE	R. LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BARNAT	MUD & CHEMI	AICALS ADDITION TYPE		
B. TUBING  C. TREATIN  D. SWABBI  E. TESTING  F.  G.  H.  TOTALS  DAYW  (OF  HOURS W/ CONT  HOURS W/ OPR. II  HOURS WITHOUT	ORK TIME SI OFFICE USE O TR. D.P. D.P.	J > UMMARY NLY)		1 2 1 1 1 3 1 8 27	BIT 12/4 8" MONE 8" MONE 8" DC SOD 3 PLEEDE 9" DC OD X O OD Shock Sub 6" DC'S SINGLES D.P. KELLY DOWN TOTAL	1.00 2.33 2.33 2.33 61.09 2.29 2.29 2.29 2.87	SIZE  IADC CODE  MANUFACTU  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOUR  CU  INNER  BEARINGS/ SEALS	JRER HTC GT18 LDO093 3X24  2775 LED 318 RS 2/3/L UTTING STRUCTURE OUTER DULL CHAR.  GAGE OTHER DULL CHAR.	a. LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BARNAT  BARNAT	MUD & CHEMI AMOUNT	AICALS ADDITION TYPE		
B. TUBING C. TREATIN D. SWABBI E. TESTING F. G. H.  TOTALS  DAYW (OF HOURS W/ OPR. I HOURS WITHOUT HOURS STANDBY	ORK TIME SIFFICE USE OF TR. D.P. D.P. D.P.	/2 UMMARY UNLY)		1 2 1 1 1 3 1 8 27	BIT 12/4  3"MONE SINGLES D.P.  KELLY DOWN  TOTAL  S"MONE SINGLES D.P.	1.00 233 24.66 61.09 5.34 29.62 2.29 9.87 738.99 497.12 25.24 32.10 40.00 3.093	SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOUR INNER CL	JRER HTC GT18 LDO093 3X24  2775 LED 318 RS 2/3/L UTTING STRUCTURE OUTER DULL CHAR.  GAGE OTHER DULL CHAR.	a. LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BARNAT  BARNAT	MUD & CHEMI AMOUNT	AICALS ADDITION TYPE		
B. TUBING C. TREATIN D. SWABBI E. TESTING F. G. H. TOTALS DAYW (OF HOURS W/ CONT HOURS W/ OPR. HOURS STANDBY TOTAL DAYWOR NO. OF DAYS	ORK TIME SIFFICE USE OF TR. D.P. D.P. D.P.	J Z UMMARY JNLY)		2 1 1 1 2 1 2 7 27 X	BIT 12'/4  8" MONE  8" MONE  8" D' SOD  3 PL PORE  9" DC OD  X O OD  Shock Sub  " DC'S  SINGLES D.P.  KELLY DOWN  TOTAL  F STRING 16 I	1.00 233 24.66 61.09 5.34 29.62 2.29 9.87 738.99 497.12 25.24 32.10 40.00 3.093	SIZE  IADC CODE  MANUFACTU  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOUR  CU  INNER  BEARINGS/ SEALS	JRER HTC GT18 LDO093 3X24  2775 LED 318 RS 2/3/L UTTING STRUCTURE OUTER DULL CHAR.  GAGE OTHER DULL CHAR.	A LOCATION PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BARNAT  BARNAT	MUD & CHEMI AMOUNT	AICALS ADDITION TYPE		
B. TUBING C. TREATIN D. SWABBI E. TESTING F. G. H. TOTALS  DAYWOR HOURS W/ CONT HOURS W/ TOTAL HOURS STANDBY  TOTAL DAYWOR NO. OF DAYS FROM SPUD CUMULATIVE	A TRIPS ING ING ING ING ING ING ING ING ING ING	J Z UMMARY NILY)		1 2 1 1 1 3 1 8 27	BIT 12'/4  8" MONE  8" MONE  8" MONE  8" DC SOD  3 PLEEDE  9" DC OD  X O OD  Shock Sub  " DC'S  SINGLES D.P.  KELLY DOWN  TOTAL  FSTRING 16 1  RKS	1.00 1.00 1.09	SIZE  IADC CODE  MANUFACTU  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOUR  CU  INNER  BEARINGS/ SEALS	JRER HTC GT18  LDO093  3X24  2775  LED 318  RS 2/3/L  UTTING STRUCTURE OUTER DULL CHAR.  GAGE OTHER DULL CHAR.	A LOCATION PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BARNAT  BARNAT	MUD & CHEMI AMOUNT	AICALS ADDITION TYPE		
B. TUBING  C. TREATIN  D. SWABBI  E. TESTING  F.  G.  H.  TOTALS  DAYWOR  HOURS W/ CONT  HOURS W/ OPR. II  HOURS STANDEN  TOTAL DAYWOR  NO. OF DAYS  FROM SPUD  CUMULATIVE  ROTATING HOUR	ATRIPS  ING  ING  ING  ING  ING  ING  ING  IN	J/2 UMMARY NLY)		2 1 1 1 2 1 2 7 27 X	BIT 12'/4  8" MONE  8" MONE  8" D' SOD  3 PL PORE  9" DC OD  X O OD  Shock Sub  " DC'S  SINGLES D.P.  KELLY DOWN  TOTAL  F STRING 16 I	1.00 1.00 1.09	SIZE  IADC CODE  MANUFACTU  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOUR  CU  INNER  BEARINGS/ SEALS	JRER HTC GT18  LDO093  3X24  2775  LED 318  RS 2/3/L  UTTING STRUCTURE OUTER DULL CHAR.  GAGE OTHER CHAR.	A LOCATION PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BARNAT  BARNAT	MUD & CHEMI AMOUNT	AICALS ADDITION TYPE		
B. TUBING C. TREATIN D. SWABBI E. TESTING F. G. H. TOTALS  DAYWOR HOURS W/ CONT HOURS W/ OPR. I HOURS STANDBY TOTAL DAYWOR NO. OF DAYS FROM SPUD CUMULATIVE	ATRIPS  ING  ING  ING  ING  ING  ING  ING  IN	J/Z UMMARY NLY)		2 1 1 1 2 1 2 7 27 X	BIT 12/4  8" MONE  8" DC SOD  3 PLEADE  8" DC OD  X O OD  Shock Sub  "PCK OD  TOTAL  FSTRING 161  RKS  C. 3500  AN. 800	1.00 1.00 1.09	SIZE  IADC CODE  MANUFACTU  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOUR  CU  INNER  BEARINGS/ SEALS	JRER HTC GT18  LDO093  3X24  2775  LED 318  RS 2/3/L  UTTING STRUCTURE OUTER DULL CHAR.  GAGE OTHER CHAR.	A LOCATION PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BARNAT  BARNAT	MUD & CHEMI AMOUNT	AICALS ADDITION TYPE		

DEPTH INTERVAL FROM TO 2900 30/4  DEVIATION RECORD FROM TO COD //30  //30 //30  //30 //30  DEPTH INTERVAL FROM TO COD //30  //30 //30  DEPTH INTERVAL FROM TO COD //30  //30 //30  DEPTH INTERVAL FROM TO COD //30  DEPTH INTERVAL FROM	DRILLD REAM.R CORE.C	CORE NO.	FORM (SHOW CORI	NO. JOINTS  HATION E RECOVER  OF OPERA  C. C. C. C. C. C. C. C. C. C. C. C. C. C	DEF	ROTARY TABLE SPEED	PRKB. TO SSG. HD.  WIT. ON BIT  DEV.	PUMP PRESSURE	LENGTH WEAR OF SINCE LA CUMULA WEAR OF PUMP LINER SIZE 5''	CUT OFF  R TRIPS ST CUT TIVE R TRIPS  NO. 1  S.P.M.  HORIZ. DISP.	PUMP P	10	AND SHEET	NO. 3 S.P.M.	PUMP	P NO. 4 S.P.M.	TOTAL
DEPTH INTERVAL FROM TO PEVIATION RECORD  TIME LOG FROM TO  292  TIME LOG FROM TO  292  TIME LOG FROM TO  292  TIME LOG FROM TO  292  TIME LOG FROM TO  292  TIME LOG FROM TO  293  230  230  230  230  230  230  230	DRILL.D REAM.R COREC  DELAPSED TIME  5 1/2  1/2  5 1/2	CORE NO. (4	FORM (SHOW CORI	HATION E RECOVER  OF OPERA  S  S  S  S  S  S  S  S  S  S  S  S  S	DEF	ROTARY TABLE SPEED	WT. ON BIT  DEV.	PUMP PRESSURE DIR.	LENGTH WEAR OF SINCE LA CUMULA: WEAR OF PUMP LINER SIZE  5''	CUT OFF  R TRIPS ST CUT TIVE R TRIPS  NO. 1  S.P.M.  HORIZ. DISP.	PUMP I	NO. 2 S.P.M.	PUMP	NO. 3	PUMP	P NO. 4 S.P.M.	TOT/PUM OUTP
DEPTH INTERVAL FROM TO 2900 30/4  DEVIATION RECORD TO COO //30	PTH DEV. 2) 2°  ELAPSED TIME  5 1/2  1/2  5 1/2	NO. (6)	TVD  DETAILS  DETAILS  DETAILS	HORIZ DISP.  OF OPERA  S. C. C. C. C. C. C. C. C. C. C. C. C. C.	DEF	PTH SEQUE	DEV.	DIR. REMARKS	WEAR OF SINCE LA CUMULA WEAR OF PUMP LINER SIZE	TRIPS ST CUT TIVE TRIPS TRIPS NO. 1 S.P.M. HORIZ. DISP.	INER	NO. 2 S.P.M.	PUMP	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOT/PUM OUTP
DEPTH INTERVAL FROM TO POPULATION RECORD  DEVIATION TO POPULATION TO POP	PTH DEV. 2) 2°  ELAPSED TIME  5 1/2  1/2  5 1/2	NO. (6)	TVD  DETAILS  DETAILS  DETAILS	HORIZ DISP.  OF OPERA  S. C. C. C. C. C. C. C. C. C. C. C. C. C.	DEF	PTH SEQUE	DEV.	DIR. REMARKS	SINCE LA CUMULA: WEAR OF PUMP LINER SIZE  TVD	NO. 1 S.P.M.  HORIZ. DISP.	INER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUN OUTF
PROM   TO   PROM   PR	PTH DEV. 2) 2°  ELAPSED TIME  5 1/2  1/2  5 1/2	NO. (6)	TVD  DETAILS  DETAILS  DETAILS	HORIZ DISP.  OF OPERA  S. C. C. C. C. C. C. C. C. C. C. C. C. C.	DEF	PTH SEQUE	DEV.	DIR. REMARKS	PUMP LINER SIZE  5'	NO. 1 S.P.M. HORIZ DISP.	INER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUN OUTF
PROM   TO   PROM   PR	PTH DEV. 2) 2°  ELAPSED TIME  5 1/2  1/2  5 1/2	NO. (6)	TVD  DETAILS  DETAILS  DETAILS	HORIZ DISP.  OF OPERA  S. C. C. C. C. C. C. C. C. C. C. C. C. C.	DEF	PTH SEQUE	DEV.	DIR. REMARKS	PUMP LINER SIZE 5'' TVD	S.P.M. I	INER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUM OUTP
PROM   TO   2900   30/4	PTH DEV. 2) 2°  ELAPSED TIME  5 1/2  1/2  5 1/2	NO. (6)	TVD  DETAILS  DETAILS  DETAILS	HORIZ DISP.  OF OPERA  S. C. C. C. C. C. C. C. C. C. C. C. C. C.	DEF	PTH SEQUE	DEV.	DIR. REMARKS	S'	S.P.M. HORIZ DISP.	INER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUM OUTP
DEVIATION RECORD TO 1/3D 1/3D 1/3D 1/3D 1/3D 1/3D 1/3D 1/3D	PTH DEV. 22 2°  ELAPSED TIME 5 1/2 7 2 5 1/2	DIR.  CODE NO.  Z  /D  7  2	Details  Details  Details  Details	HORIZ, DISP.  OF OPERA  S. C. C. C. C. C. C. C. C. C. C. C. C. C.	DEF	PTH SEQUE	DEV.	DIR. REMARKS	SIZE  5''  TVD	5 D HORIZ.	SIZE				SIZE		2/
DEVIATION RECORD TO 292  TIME LOG FROM TO 200 /230 /200 /20	PTH DEV. 22 2°  ELAPSED TIME 51/2 1/2 51/2 51/2	DIR.  CODE NO.  Z  JD  2	Details  Details  Circ  Sei	OF OPERA  S C/	DEI	PTH N SEQUE	DEV.	REMARKS	TVD	HORIZ. DISP.	DE	ЕРТН	DEV.	DIR	T		
TIME LOG	2) 2°  ELAPSED TIME  5½  /2  /2  5/2	DIR.  CODE NO.  Z  JD  2	Details  Details  Circ  Sei	OF OPERA  S C/	ATIONS IN	N SEQUE	ENCE AND	REMARKS		DISP.	DE	EPTH	DEV.	DIR	T		
TIME LOG PROM TO  JAN  JAN  JAN  JAN  JAN  JAN  JAN  JA	2) 2°  ELAPSED TIME  5½  /2  /2  5/2	DIR.  CODE NO.  Z  JD  2	Details  Details  Circ  Sei	OF OPERA  S C/	ATIONS IN	N SEQUE	ENCE AND	REMARKS		DISP.	DE	ЕРТН	DEV.	DIR.	T		
TIME LOG	2) 2°  ELAPSED TIME  5½  /2  /2  5/2	CODE NO. Z /D 7 2	Details  Details  Circ  Sei	OF OPERA	ATIONS IN	N SEQUE	ENCE AND	REMARKS		DISP.	DE	EPTH	DEV.	OIR.	T		
TIME LOG FROM TO  (OD //3D  //3D	ELAPSED TIME  5 1/2  1/2  5 1/2  5 1/2	Z /0 7 2	Drie Ciè Sei Drie	5 ¢/			3		`@	20							
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130	51/2 51/2 1/2 51/2 51/2	Z /0 7 2	Drie Ciè Sei Drie	5 ¢/			3		`@	20							
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DEPTH INTERVAL FROM TO 3014 3093  DEVIATION RECORD  TIME LOG FROM TO 200 5:45	5/2		Drl	54/3	296	7.5	30/	'e.J									
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DEVIATION RECORD  TIME LOG FROM TO	DRILLD REAMR COREC	CORE NO. (s	FORM		Ħ	OTARY TABLE SPEED	WT. ON	PUMP PRESSURE	PUMP		PUMP N	NO. 2	PUMP	NO. 3	PUMP	NO. 4	TOT/
DEVIATION RECORD  TIME LOG FROM TO	COREC	, (S	SHOW CORE	RECOVERY	(Y)	SPEED	BIT	PRESSURE	LINER SIZE	S.P.M.	INER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	OUTP
TIME LOG FROM TO	P			4		100	13	470	5"	20				· .			<u> </u>
TIME LOG FROM TO	<del>                                     </del>															August San Market Co.	
TIME LOG FROM TO				HORIZ.						HORIZ.							LÔDIZ
TIME LOG FROM TO	PTH DEV.	DIR.	TVD	DISP.	DEP	РТН	DEV.	DIR.	TVD	DISP.	DEI	PTH	DEV.	DIR.	ΤV	/D	HORIZ. DISP.
FROM TO 5:45		-	ļ								-		Carlos de la companya	Same and the same of the same	_		
FROM TO 5:45	FLARSED		<u> </u>														
,	ELAPSED TIME	CODE NO.	DETAILS	OF OPERA	TIONS IN	SEQUE	ENCE AND	REMARKS"			The state of the s	 					
545 6:00	- 113/	/ 2	Drlg	:17.	3014	<u>.</u> -	3693	2	J. 1888	Market							
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LEASE					WELL NO.	API WE	LL NUM	BER			WATER	DEPTH		DATE	
middle	mo	Lund	air	ا	21-15								11-	14-	
OPERATOR .						CONTR	RACTOR							RIG N	
FOR TUNC	ATOPER	EDBECEL	UMATIVE	,		SIGNA	ttes.	SOM	UTI	DUCHED				104	<u>/</u> _
SIGNATURE OF OPEN		PHESE	PATIVE			SIGNA	TUME OF	CONTRACT	OR'S TOOL	. PUSHER	1		V - 4 * *		
D.P. SIZE WEIGH		Total 1	TOOL	FO.B. TYPE THR	EAD STRING NO	PUMP	an	ay	P MANUFACT	Confi	ord	TYPE		STROL	Œ
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7/2 20	, (//	1=	6	Y X F	7 226			<u> </u>	ECO.			<u>530</u>	-+	<u> 15</u>	
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TIME DISTRIBUT	ION - HOU	JRS		DRILLING ASS (At end of t			BIT	RECORD			MUD RI	CORD			
CODE - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.		5		TIME		-	T		
1. RIG UP AND TEAR DOWN	<u> </u>		╂.	BIT 17 1/2	2	SIZE		12/4		WEIGHT		e	,		
2. DRILL ACTUAL	7	10%	1	8.ts.b	1.00 2.53	IADC COD	)E	16/4		<u> </u>	.6				
3. REAMING	+ +	10.5	1/2	2" Mone!	28.86					PRESSURE GRADIENT	No	1			
4. CORING			1/	8.003 3.00 2000	5.34	MANUFAC	JIUNEN	HTC		FUNNEL VISCOSITY	W .	X			
5. & CIRCULATE			1/,	8"DC OD	29.62	TYPE		GT18		PV/YP	1	ω /		/	
6. TRIPS				1 / C / S00	9.80	SERIAL N	60	00931		GEL STRENGTH				7	
7. LUBRICATE RIG		1/2	2	0		JETS		3×24		FLUID LOSS					
8. REPAIR RIG	-	12	1-7-	6"DC 5 00		TFA				pH			+-		
_ CUT OFF	<del> </del>	+	1	Jeks OD		DEPTH O	UT				-		-		١.
DIVIDLING CINE		,	1	6"DC5	238.99	DEPTH IN		2775		SOLIDS					3
10. DEVIATION SURVEY		<del>  '</del>		BHA	497.12	TOTAL DE	RILLED	448		<u> </u>					1
11. WIRE LINE LOGS	<del>                                     </del>		29	STANDS D.P.	27/2.49	TOTAL HO	DURS.			TYPE	MUD & CHEMI	CALS ADD		MOUNT	3
12. RUN CASING & CEMENT				SINGLES D.P.	, ,		CUTTING	STRUCTURE		Rasafat	15ank				
13. WAIT ON CEMENT	ļ	<del> </del>	1	KELLY DOWN	241	INNER	OUTER	DULL CHAR	LOCATION	PALLAT	1 J. 1				
14. NIPPLE UP B.O.P.			ļ	TOTAL	740	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	Harry 7	oo Magas		_		
5. TEST B.O.P.		<u> </u>	<b> </b>	<u> </u>	352361	SEALS	GAGE	CHAR.	POLLED	URP	70565		+		
6. DRILL STEM TEST			WI. O	F STRING 10	3,000			<u> </u>		Dodelica	1054				
17. PLUG BACK	ļ	ļ	REMAI	RKS	A STATE OF THE PARTY OF THE PAR	7		For	Klift	Kirk	L mil	ler			
18. SQUEEZE CEMENT	-			COVICI				Ro	iles	124	155				
19. FISHING				CUNTI	UENTIA				•	<u>-</u>					
20. DIR. WORK					·	4				·-··					
21. WALOOK hab	وك				······································	_ السياح			7	. 1/	) ,				
22.	ļ	1.	-			<u> </u>		DRI	LLER /	rad f	Id on	سه	$\cong$		┢
23.		- ,		DRILLING ASS (At end of t			BIT	RECORD			MUD R	ECORD			
A. PERFORATING	ļ	1	NO.	ITEM	LENGTH	BIT NO.		5		TIME	T				
B. TUBING TRIPS	ļ			BIT 121/1	1.00	SIZE		12/4		WEIGHT		x ed	+		
C. TREATING			<b> </b>	B172/4 B17546	2.33	IADC COD	)F	12/4		┪	معي ١	\ <u>e</u> 1	+		
D. SWABBING  E. TESTING			1	4'moue	28.86	MANUFAC		22-4		PRESSURE GRADIENT FUNNEL	His	<u> </u>			
E. TESTING			2,	3pt Remo				HTC		VISCOSITY	9	ļ,			,
F			1,	FII DC OD	29.62	TYPE		<b>418</b>		PV/YP					
G.			,	SI 17 SOM	9.87	SERIAL N	O. (9C	0693	<del></del>	GEL STRENGTH		/			
н.			3	6"DC 50		JETS		3 X24		FLUID LOSS					
TOTALS		12	-		24	TFA				pH			_		
DAYWORK TIM (OFFICE US	E SUMMAR E ONLY)	Υ	╟─┴	Jarg 00	-	DEPTH O	UT			SOLIDS		-	+		
HOURS W/ CONTR. D.P.			8	G"DE'S	238,99	DEPTH IN	I	2775		SOLIDS					
HOURS W/ OPR. D.P.			<b></b>	BHA	497.12	TOTAL DE	RILLED				MUD & CUEN	ICAL C AD	DED		
HOURS WITHOUT D.P.			29	STANDS D.P.	2712	TOTAL HO	OURS	491/61	-	TYPE	MUD & CHEM AMOUNT	TYP		MOUNT	
HOURS STANDBY			VV	SINGLESD.P.	60.00	INNER	CUTTING	STRUCTURE	LOCATION	Baraca	13	F7	bun		
				KELLY DOWN	30.00	INVEN	OUILN	DOLL CHAN	LOCATION	0	raal				
				TOTAL		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	Baraca	115 5			- 1	
			WT O		* ~~			CHAR.		Var	40				
			<b>I</b>	10	3,000	0/10	24	<del>                                      </del>	<u> </u>	Dod 9	10	<u> </u>			
TOTAL DAYWORK			REMA	mrs Fue	133 "	948	7 9	av	for	KIIGE	Jake	Keli	ځومړ		
NO. OF DAYS FROM SPUD	J	1	~	.c. 1500	)		<i></i>			-					
CUMULATIVE ROTATING HOURS			m	n. 1560	) <u>,                                    </u>				Boile	er 12	Hrs				
DAILY MUD COST			A	nn. 800	-;										
TOTAL MUD COST		4	-	und 16	2 11						n 11	1 1			
	of Drilling Com		IAD	C - API OFFIC	ZIAL DAILY D	RILLING	REPO		ILLER (	XIVIV	1 th A	<u>~~</u>			_
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APPROVED APPROVED PRINTED IN U.S.A.

SECOND   SOUTH   SECOND   SE	FIELD OR DISTI	RICT	C	OUNTY					COUNTE			WIDE	INE DEO						Maria made and and	-
Color   Colo			$\perp$				NO				Г	<u> </u>			REEL NO.		LENGTH	QI (DDEN	MESS ALLOW	
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Control   Cont	LAST CASING			-								LENGTH	CUT OFF			PRESE	NT LENGTI	Н		
September   Sept	TUBING OR LINER											WEAR O	R TRIPS							
SEPTI HITEMAL   SOLD			<del>                                     </del>		<del>                                     </del>		1,					<del></del>				<del></del>				
TO   SOUTH   TO												WEAR O	R TRIPS							
3093 3223 D	DEPTH II	NTERVAL	DRILL.D			FOR	MATION		ROTARY	WT. ON	PUMP	PUMI	P NO. 1	PU	MP NO. 2	PUM	P NO. 3	PUM	P NO. 4	TOTAL
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DEPTH NTERVAL   SELLE   COOR	3002	3723	~		14	-10	-	3. 11.5	120	IRL	450/					<del> </del>	<del> </del>	- OILL		~ 17
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Depth Hyterval   Deva				-	+		<del>, , , , , , , , , , , , , , , , , , , </del>		<u> </u>	<del> </del>			<del>                                     </del>	-					<del> </del>	<b></b>
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3147   349	DEVIATION	ON MC			DIR.	TVD	DISP.	DI	EPTH	DEV.	DIR.	TVD	Dis	SP.	DEPTH	DEV.	DIR.	. т	VD	DISP.
THE LOS		o <u>305</u>				<u> </u>					<u> </u>									·
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						~	<del></del>	<b>→</b>	معد	1 3	77		14	*						
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FROM _TO CORE.C ONE ENANTON   FORM	DEPTH IN	TERVAL						,			T T	PIIMP	NO 1	PH	MP NO 2	Distan	NO 2	DUME	NO 4	
3323 3311			REAMR		(5				TABLE		PUMP PRESSURE		I	-			l		l	TOTAL
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DEVIATION RECORD  TIME LOG   ELAPSED   CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS  1800 2400 4 2 Drig F 3223 - 3293  2400 400 4 7 Put Seep on Helle, Try To build Volume  400 500 1 7 Try to united vole  Only Try to united vole  1905 (Mematonal Association of Deling Contractors)  IADC- API OFFICIAL DAILY DRILLING REPORT FORM	3223	3311	0		50	mg 3	£ 5/4	ale	100	19/10	48	5"	50							
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TIME LOG FROM TO FLAPSED CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS  1800 2400 400 4 7/Put Saap on Hole, try To build Values  400 500 1 7 Orlg f 3293 - 3311  500 400 1 71 Try to wall bood value  105 105 105 105 105 106 107 108 108 1095 1096 IMBRORDIONA Association of Drilling Contractors  IADC - API OFFICIAL DAILY DRILLING REPORT FORM																		<u> </u>		DIQI .
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1800 2400 6 2 Drig. F   3223-3293 2400 400 4 7/ Put Sag on Hile, try To build Volume 400 500 1 7 Orig f   3293-3311 500 600 1 71 Try to united volu  105 105 105 105 100 100 100 100 100 10	TIME	LOG	ELAPSE		DE NO	DETAIL	OF OPER	TIONO	N OF OUR								ــــــــــــــــــــــــــــــــــــــ			
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SOD GOD   71 Try to united hole  A 105  Lot 105  Lot 105  Lot 105  Lot 105  Lot 105  Lot 105  Lot 105  Lot 105  Lot 105  Lot 100  C 1995 International Association of Drilling Contractors  IADC - API OFFICIAL DAILY DRILLING REPORT FORM	2400		u	Ι.	,	2:1	1			11 %					11	1/1	-			
Try to united vole  1 71 Try to united vole  1 105  1 105  1 1 105  1 1 105  1 1 105  1 1 105  1 1 100  1 1 100  1 1 100  1 1 100  1 1 1 100  1 1 1 1	2700	700	7	$\dashv$	~/	Tut	doa	ρ_0	كرا	H0/4	e, Ta	4	To	bui	ld_	Volu	LMZ			
105  Det 105  Loco  1995 International Association of Drilling Contractors  IADC - API OFFICIAL DAILY DRILLING REPORT FORM	400	200	1	_	2	Or	19 F/	3:	293	<u>}                                    </u>	3311	<u> </u>		Nam.						
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M. ASIA					DAILY DR	ILLING RI	EPORT	Г	اً تحر	R	EPORT N	Ю.		
ALKK.M			<del></del>		WELL NO.	API WE	LL NUN	BER	rappy of	- <del></del> -	WATER	DEPTH	DA	TE
OPERATOR	Mon	nta	1		21-16				, <u>.</u>				11-19	•
Fort.						CONTR	ACTOR		ر					G NO.
SIGNATURE OF OP	ERATOR'S F	FPRESE	TATIVE	<u> </u>		SIGNA	TURE O	SONTRACT	OR'S TOO	L BUSHER		7	<u>/c</u>	94
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DIP SEE WEIG	знт. Д	RADE	TOOL		EAD STRING N	O. PLIMA	10	PUM	P MANUFAC	TURER	<i>y</i> - <i>u</i>	TYPE	S <sup>3</sup>	TROKE
4/2 2	<b>Y</b> /	E	6%	4 XH	1 226	. 7	die is de autom	IL	ECO			<i>55</i> 0		15
						7		ID	ECO			<u>550</u>		3
TIME DISTRIBU	JTION - HOL	JRS		DRILLING ASS (At end of t			BIT	RECORD			MUD R	ECORD		
CODE - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.		<u></u>		TIME		Τ	T	-
1. RIG UP AND TEAR DOWN		† — —		BIT		SIZE		12/4					<del> </del>	-1
2. DRILL ACTUAL	140	4%		3.+ suco	/.00		)F	1214		WEIGHT		×eo		_
3. REAMING	1	116		8"morel	2.33 28.34	MANUFAC				PRESSURE GRADIENT	Dece		-	
4. CORING			1/	3017000	5.34		OMEH	HTC		FUNNEL VISCOSITY	14,	3		
5. & CIRCULATE	Vn		1/	TO OD	29.62	TYPE		GTIS	<del></del>	PV/YP	_ / W	$[ \hspace{0.1cm} / \hspace{0.1cm} ]$	17	
6. TRIPS	3/0			Shock S. AD	9.87	SERIAL NO	J. 60	00931		GEL STRENGTH		7	7	
7. LUBRICATE RIG	_ <del> -&gt; %</del>	1/2	~	6"ix 5 00		JETS		3124		FLUID LOSS	1			
8. REPAIR RIG		12	,	_		TFA				pH			+	$-\parallel$
9. CUT OFF DRILLING LINE		<del> </del>		lass od	29.03	DEPTH OL	JT						-	$-\parallel$
10. DEVIATION SURVE	v	W	18	611 Ocs	238.99	DEPTH IN		2775		SOLIDS			-	
11. WIRE LINE LOGS	-	K		BHA	497.12	TOTAL DR	ILLED	623					<u> </u>	
12. RUN CASING & CEMEN	JT .		30	STANDS D.P.	2805.39	TOTAL HO	URS	533/4		TYPE	MUD & CHEMI AMOUNT	TYPE	D AMOU	
13. WAIT ON CEMENT	<u> </u>		2	SINGLESD.P.	61.89	INNER	CUTTING	STRUCTURE	LOCATION	Dan	100gs			
14. NIPPLE UP B.O.P.				KELLY DOWN	34-	BNNEA	OUIEN	DOCE CHAR.		1				
15. TEST B.O.P.	-			TOTAL	3704	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	Baracot	<b>-</b>		+	-
16. DRILL STEM TEST	-		WT OF	STRING	V218		CAGE	CHAR.	, occio	1)-bane	o Sga		·	-
17. PLUG BACK	+			105	000				<u> </u>	<u> </u>			1 1	_
18. SQUEEZE CEMENT			REMAF	KS	The second second			F	-Kli-	Ft K:	rk M	le		
19. FISHING	+			<b>CUVILI</b>	751714		<del></del>	B	eles	121	105		7	
20. DIR. WORK	<del>ا</del> ح			CUNTIL	JEN I IAI	1 7								
1 1 1		1/			· · · · · · · · · · · · · · · · · · ·									
Ludead Hole	<del>'</del>	1/2			Alba Haramana	and the second		55	1ED Z	roal P	1			
magna Huta	ol mas	5		DRILLING ASS	EMBLY				LLEH Y	Lace &				-
A. PERFORATING	4 7		<u> </u>	(At end of to			BIT	RECORD			MUD RE	ECORD		
B. TUBING TRIPS			NO.	ITEM	LENGTH	BIT NO.		5		TIME				
C TREATING			,	BIT 12/4	/ A.K	SIZE		12/4		WEIGHT		ted	1	
D. SWABBING	+		1/	B.5/.	133	IADC COD	E	771		PRESSURE GRADIENT	Des	67°		$\dashv$
D. SWABBING  E. TESTING	-		1//	- 78 marc	1 128,86	MANUFAC	TURER	Wir	<del></del>	FUNNEL	Y,5	atu	-	
F.	<del> </del>		7	O WALL	09/2/34	TYPE		716		VISCOSITY	$-\gamma$	- <i>/</i>	-	_
1.0	-	<u> </u>	1/1	X0 00	2.29	SERIAL NO	). ,	6718		PV/YP		/,	<del>                                     </del>	_
<del> </del>				Shack ou BOD	9,87	JETS	60	00431		GEL STRENGTH				
G.	II					1 5-13		12 X 9 4		FLUID LOSS				
G. Н.			3	his OD	49.71	TC A		- W.						
G. H. TOTALS  DAYWORK TI	ME SUMMARY	12	3	- 003	19 11	TFA		1		рН	-		-	
G. H. TOTALS  DAYWORK TI (OFFICE L	JSE ONLY)		3	Jars on	29.02	DEPTH OU	т			pH SOLIDS				
G. H. TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P.	JSE ONLY)		3	- 003	29.02 238.99	·	T	2775		<del></del>				
G. H. TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P.	JSE ONLY)		3	Sats on 6" Des	29.02 29.02 238.99 497.12	DEPTH OU	,	2775		SOLIDS	MUD & CHEMI	CALS ADDE		
G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	JSE ONLY)			BHA STANDS D.P.	29.71 29.02 238.99 497./2	DEPTH OU DEPTH IN TOTAL DRI	LLED URS	2775 638 554		SOLIDS	MUD & CHEMI	CALS ADDE	D AMOUN	
G. H. TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P.	JSE ONLY)			Sats on 6" Des	48.71 29.02 238.99 497./2	DEPTH OU DEPTH IN TOTAL DRI	LLED URS	2775 638 55 44 STHUCTURE	LOCATION	SOLIDS				
G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	JSE ONLY)			BHA STANDS D.P.	48.71 29.02 238.99 497./2	DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	LLED URS CUTTING	DULL CHAR.		SOLIDS				
G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	JSE ONLY)			STANDS D.P. SINGLES D.P.	48.71 29.02 238.99 497.12	DEPTH OU DEPTH IN TOTAL DRI	LLED URS CUTTING	DULL CHAR.	LOCATION REASON PULLED	SOLIDS				
G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	JSE ONLY)			STANDS D.P. SINGLES D.P. KELLY DOWN	48.71 29.02 238.99 497./2	DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	URS CUTTING OUTER			SOLIDS				
G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	JSE ONLY)			STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING	29.01 29.02 238.99 497.12	DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	URS CUTTING OUTER	DULL CHAR.		SOLIDS	AMOUNT	TYPE	AMOUN	
G. H. TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY	JSE ONLY)		WT. OF	STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING	29.02 29.02 238.99 497.12	DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	URS CUTTING OUTER	DULL CHAR.		SOLIDS		TYPE	AMOUN	
G. H. TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  OTAL DAYWORK IO. OF DAYS ROM SPUD	JSE ONLY)		WT. OF	STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING	29.02 238.99 497.12	DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	URS CUTTING OUTER	DULL CHAR.		SOLIDS	AMOUNT	TYPE	AMOUN	
G. H. TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  OTAL DAYWORK IO. OF DAYS	JSE ONLY)		WT. OF	STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING	29.02 29.02 238.99 497.12	DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	URS CUTTING OUTER	DULL CHAR.		SOLIDS	AMOUNT	TYPE	AMOUN	
G. H.  TOTALS  DAYWORK TI (OFFICE L HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK HO. OF DAYS ROM SPUD	JSE ONLY)		WT. OF	STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING	29.02 238.99 497.12	DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	URS CUTTING OUTER	DULL CHAR.		SOLIDS	AMOUNT	TYPE	AMOUN	





ELD OR DISTR			DUNTY	nes-	/		TATE/COU	_		WIRE L	NE REC	ORD F	REEL NO.					
	SIZE	MA	KE	WEIGH & GRAD	HT. DE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	1/8	NO. LI	NES 10		LENGTH	SLIPPED	والان علاوا المعاور	i ilina yi Kababati
LAST										LENGTH	CUT OFF			PRESEN	IT LENGTH	1		
LAST CASING TUBING OR LINER		<del>                                     </del>								WEAR O	R TRIPS							
OH EMEH	ļ									SINCE LA								
										CUMULA WEAR OI	R TRIPS							
DEPTH IN	TERVAL	DRILL.D	CORE		FORM	MATION	ROTA	ARY WT. ON	PUMP	PUMP	NO. 1	PUN	AP NO. 2	PUMP	NO. 3	PUMI	P NO. 4	TOTAL
FROM	то	REAMR COREC	NO.	(SH		E RECOVERY	) TAB SPE	ED BIT	PRESSURE	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
3311	3342		· · · · ·			1 -	10	0 18/20	480	5	20		-				-	
3342	3398	12		<del> </del> -	مهارخ-	ele_	10			5	28			<u> </u>				118
7215	310	المرا			<b>≯</b> ►	عاح	70	0 24	470	-2	22			<del> </del>				148
	DEPT	, , ,	<u> </u>	). NE		HORIZ. DISP.		<u> </u>	\	<u> </u>	HOF	RIZ.		<u> </u>	<u> </u>	<u> </u>	<u> </u>	HORIZ.
DEVIATIO	N	1		DIR.	TVD	DISP.	DEPTH	DEV.	DIR.	TVD	DIS	iΡ.	DEPTH	DEV.	DIR.	+	VD	DISP.
RECORD	330	×2 6					-	-		<b></b>								
TIME	LOG	ELAPSE	:D	<u> </u>			1		<u> </u>	<u> </u>						_		
FROM	то	TIME	co	DE NO.	DETAILS	OF OPERAT	IONS IN SE	QUENCE AND	REMARKS		_							
600	638	//2	7	21	T	, To 1	illor.	2 Hol	le									
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	700	1/-			D	11 1-	4 > 4	<i>U. j. U.</i>										
		1	4	2	Pul	1//04	STUS	>	<del>,</del>									
700	730	//2		2	Kid	Serv	ice		· · · · · · · · · · · · · · · · · · ·			*				·	··	
730	1230	5		27	Riv	no av	savi	water	in r	esco	ve.	nit	and	rel	ine	a:+	•	
1230	1200	1/2		6	77	1	رنزار	1	ins		-1					<del>J• /-</del>	• ,	
			_	T		<u>п 7</u>	<u></u>	<b>!</b>		. ^			<del></del>	<del></del> .,				
1300	1500	2		2	NS 1	19 +/	2311-	- 3342	<del>- , , , , , , , , , , , , , , , , , , ,</del>	No	ret	K C	<u>دے</u>					
1500	1530	1/3	4	0	Cis	-C +	Sur	ربعد	3302	٠ ۲	20							
1538	1800	2/	\r \ \	2	Dal	1201	3371	7 - 32	98									
2210	730 -	<u> </u>				15 <del>1</del> 7	33 1 A											
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DEPTH IN	TERVAL									PUMF	) NO. 1	PUI	IP NO. 2	PUMF	NO. 3	PUMI	P NO. 4	
DEPTH IN		DRILL.D REAM.R CORE.C	CORE	HS)	FORM	() & C	ROT/	LE WILDE	PUMP PRESSURE	<u> </u>	1	<del> </del>	AP NO. 2	-	NO. 3	<del> </del>	PNO.4	TOTAL
FROM	то	REAMR	CORE NO.	(SH	FORM	IATION	ROT/	LE WILDE	PRESSURE	LINER SIZE	S.P.M.	PUI LINER SIZE	<del></del>	PUMF LINER SIZE	NO. 3	PUMI LINER SIZE	P NO. 4	TOTAL PUMP
FROM		REAMR	CORE NO.	(SH	FORM	IATION	ROT/	ED BIT	PUMP PRESSURE	<u> </u>	1	<del> </del>	<del></del>	-	<u> </u>	LINER SIZE	Τ	PUMP
FROM	то	REAMR	CORE NO.	(SH	FORM	IATION	ROT/ TAB SPE	ED BIT	PRESSURE	LINER SIZE	S.P.M.	<del> </del>	<del></del>	-	<u> </u>	LINER SIZE	Τ	PUMP OUTPU
FROM	то	REAMR	CORE	(SH	FORM	IATION E RECOVERY	ROT/ TAB SPE	ED BIT	PRESSURE	LINER SIZE	s.p.m.	LINER	<del></del>	-	<u> </u>	LINER SIZE	S.P.M.	PUMP OUTPU
FROM 3399	то 34/3 <sub>ДЕРТ</sub>	REAMR COREC	NO.	(SH	FORM	IATION	ROT/ TAB SPE	ED BIT	PRESSURE	LINER SIZE	S.P.M.	LINER	<del></del>	-	<u> </u>	LINER	S.P.M.	PUMP OUTPU
FROM	TO 34/3	REAMR COREC	NO.	5	FORN IOW COR	MATION E RECOVERY	ROT/ TAB SPE	D 24	HBO	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
FROM	TO 34/3	REAMR COREC	NO.	5	FORN IOW COR	MATION E RECOVERY	ROT/ TAB SPE	D 24	HBO	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
FROM  3299  DEVIATION RECORD	TO 34/3  DEPTI	REAM.R COREC	NO.	SIR.	FORINGOW COR	HORIZ. DISP.	DEPTH	D 24	PRESSURE  L/80  DIR.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
FROM	TO 34/3	REAMR COREC	NO.	SIR.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.	PRESSURE  L/80  DIR.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
FROM  3299  DEVIATION RECORD	TO 34/3  DEPTI	REAM.R COREC	NO.	SIR.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO 34/3  DEPTI	REAM.R COREC	NO.	SIR.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.	DIR.	LINER SIZE  5	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO 34/3  DEPTI N LOG TO 7:30	REAM.R COREC	NO.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.	DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO  34/3  DEPT  N  LOG  TO  7:30	DEV	NO.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.	DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO  34/3  DEPT  N  LOG  TO  7:30	DEV	NO.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  QUENCE AND  QUENCE AND  QUENCE AND  QUENCE AND	DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO  34/3  DEPT  N  LOG  TO  7:30	DEV	NO.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  QUENCE AND  QUENCE AND  QUENCE AND  QUENCE AND	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO  34/3  DEPTI  N  TO  7:30  9:30	DEV	NO.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  DEV.  QUENCE AND  ACAM  GOOT	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO  34/3  DEPTI N  LOG TO  7:30  9:30  10:30	DEV	No.	DIR.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  QUENCE AND  QUENCE AND  QUENCE AND  QUENCE AND	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO  34/3  DEPTI N  100  7:30  9:30	DEV	No.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  DEV.  QUENCE AND  ACAM  GOOT	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD  TIME FROM  2: 30  2:30	TO  34/3  DEPTI N  LOG TO  7:30  9:30  10:30	DEV	No.	DIR.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  DEV.  QUENCE AND  ACAM  GOOT	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD  TIME FROM  2: 30  2:30	TO  34/3  DEPTI N  LOG TO  7:30  9:30  10:30	DEV	No.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  DEV.  QUENCE AND  ACAM  GOOT	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD  TIME FROM  2: 30  2:30	TO  34/3  DEPTI N  LOG TO  7:30  9:30  10:30	DEV	No.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  DEV.  QUENCE AND  ACAM  GOOT	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD	TO  34/3  DEPTI  N  DEPTI  N  7:30  9:30  10:30  2:30  5:00  6:00	DEV	No.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  DEV.  QUENCE AND  ACAM  GOOT	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD  TIME FROM  7: 40  7:30  7:30  7:30	TO  34/3  DEPTI  N  DEPTI  N  7:30  9:30  10:30  2:30  5:00  6:00	DEV	No.	DE NO.	FORINGOW COR	HORIZ. DISP.	DEPTH	DEV.  DEV.  QUENCE AND  ACAM  GOOT	PRESSURE 4/80  DIR.  DIR.	Liner Size	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD  TIME FROM  7: 40  7:30  7:30  7:30	TO  34/3  DEPTI  N  DEPTI  N  7:30  9:30  10:30  2:30  5:00  6:00	DEV	No.	DE NO.	TVD  DETAILS  ON COR	HORIZ, DISP.	DEPTH  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE	DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.  DEV.	PRESSURE 480  DIR.  DIR.  DIR.  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  T	TVD  TVD	s.p.m. 40 Horizon	LINEF	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEVIATION RECORD  TIME FROM  7:00  7:30  7:30  7:30  7:30	TO  34/3  DEPTI  N  DEPTI  N  7:30  9:30  10:30  2:30  5:00  6:00	BEAM.R COREC	No.	DE NO.	TVD  DETAILS  ON COR	HORIZ, DISP.	DEPTH  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE  JONS IN SE	DEV.  DEV.  QUENCE AND  ACAM  GOOT	PRESSURE 480  DIR.  DIR.  DIR.  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  TOO  COLL  T	TVD  TVD	s.p.m. 40 Horizon	LINEF	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU

KELLY DOWN BEARINGS/ SEALS REASON PULLED TOTAL GAGE REMARKS FUEL = 461 3 Regal operator - Jake Kelsex TOTAL DAYWORK NO. OF DAYS Man - 1366 CUMULATIVE ROTATING HOURS SED DAILY MUD COST Ann-

TOTAL MUD COST



APPROVED PRINTED IN U.S.A.



FIELD OR DISTR	RICT	T Co	DUNTY_		-		STATE / C	OUNTR	Y		<del>                                      </del>	·			<u>. 15.,</u>	<u> </u>			*. <del>(ji)</del>
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LAST CASING TUBING OR LINER				-							WEAR O	R TRIPS							-
								-			SINCE LA	TIVE							
DESTI IN				T.							WEAR O		T		T				<b>—</b>
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/600 /630 / <b>3</b> 30 DEPTH INT	1630 1830 1800 Terval	//Z	CORE	19	FORM	ATION	R	Z (	GFQ GFQ D 33	pump	PUMP	NO. 1	PUM	P NO. 2	PUMF	T	LINER	Ι	PUMP
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/600 /630 / <b>3</b> 30 DEPTH INT	1630 1830 1800 TERVAL TO	DRILL.D.REAMR COREC	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1800 TERVAL TO	DRILL.D. REAM.R CORE.C	CORE NO.	19	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1830 TERVAL TO  DEPTH	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1830 TERVAL TO  DEPTH	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1800 TERVAL TO DEPTH	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1800 TERVAL TO DEPTH	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1800 TERVAL TO DEPTH	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1800 1800 TO DEPTH N DEPTH N 1.30 11:30 11:30 11:30	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1800 TERVAL TO DEPTH	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
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DEPTH INTERIOR	1630 1830 1800 1800 TO DEPTH N DEPTH N DEPTH N 1.30 1.30 1.30 4.30	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
DEPTH INTERIOR	1630 1830 1800 1800 TO DEPTH N DEPTH N DEPTH N 1.30 1.30 1.30 4.30	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
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DEPTH INTERIOR	1630 1830 1800 1800 TO DEPTH N DEPTH N DEPTH N 1.30 1.30 1.30 4.30	DRILL.D REAM.R CORE.C	CORE NO.	(8 (8	FORM.	ATION RECOVER	PAT T T T T T T T T T T T T T T T T T T	DATARY ABLE PEED	WT. ON BIT	PUMP PRESSURE  DIR.  REMARKS	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
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	531 <sup>©</sup>				DAILY DRII	LLING REF	PORT		n Samuelar	RE	EPORT N	٥.		
LEASE					WELL NO.	API WEL	L NUMB	ER			WATER	DEPTH		DATE
Middle OPERATOR	Ma	un	ta	: ~	21-16								<u> </u>	21-0
	_					CONTRA			سدس				ļ	RIG NO. ノンタ
SIGNATURE OF OPE	ATOR 2 RI	EMESEN	TATIVE	<u> </u>		SIGNATU	JRE OF	CONTRACT	OR'S TOOL	PUSHER		<del></del>		707
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D.P. SZE WEIGH	π d	ADE	TOOLU		EAD STRING NO	PUMP NO.		PUM	MANUEACT	upda	at Later Complete Co.	TYPE		STROKE LENGTH
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TIME DISTRIBUT	rion – Hou	RS		DRILLING ASS (At end of t	· ·		BIT P	ECORD		÷.	MUD R	ECORD		
CODE - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.		6		TIME			T	
1. RIG UP AND 1. TEAR DOWN			,	BIT 1274		SIZE		12/4		WEIGHT		7	+	
2. DRILL ACTUAL*	4	8/2	1/	BHSUB	7.00	IADC CODE		76/7		PRESSURE GRADIENT		750	<del> </del>	
3. REAMING	1	1/2	4	8" MONEL	28.86			100		GRADIENT FUNNEL	1 56	مرسو	4—	
4. CORING			2/1	8"DC V/O OD		TYPE				VISCOSITY	10	<u>λ</u> γ		
5. & CIRCULATE		$\vdash$		Shacks bo	9.87	·····	GT			PV/YP	7/			
6. TRIPS		2/2	6	6" Des 00	178.95	SERIAL NO.	<u>~</u>	19 Dm		GEL STRENGTH	/~		1	
7. LUBRICATE RIG	<del> </del>	1/2	,	Jers on	70	JETS		3x28		FLUID LOSS			T	
8. REPAIR RIG			6	6" OC 5 00						pH			†	
9. CUT OFF DRILLING LINE						DEPTH OUT				SOLIDS			+	—
10. DEVIATION SURVEY				BHA	485.3)	DEPTH IN		3413					+	
11. WIRE LINE LOGS	-		<b> </b>			TOTAL DRIL	LLED	125		ļ.,	MUD & CHEMI	CALS ADDE		
12. RUN CASING & CEMENT	.		32	STANDS D.P.	2992,44	TOTAL HOU	JRS	81/2		TYPE	AMOUNT	TYPE		OUNT
13. WAIT ON CEMENT	<del></del>			SINGLESD.P.		C		STRUCTURE DULL CHAR.	LOCATION	Dan	140525			
14. NIPPLE UP B.O.P.				KELLY DOWN	26-					abrocat	20 ans	7		
15. TEST B.O.P.	-			TOTAL	3538,99	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	To Car	15 agl			
16. DRILL STEM TEST			WT. O	F STRING	2238,1			CHAH.		Congress Act	1164			
17. PLUG BACK	+		<b> </b>	·····		<u> </u>				POURTAL	7767			
18. SQUEEZE CEMENT	-		REMAI	<mark>RKS</mark> Paramengan yantusu est	COO STATE TO LOT THE THE TOTAL			Fo	or K (i.	12 Hz	CKW	iller		
19. FISHING			07.5	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon				$\mathbb{Z}$	siles	12 H	<u> </u>		-	
20. DIR. WORK				PONITIE	<del>ITNITIAL</del>									
21. UNION	8			<u> UUNTIL</u>	<u>JENTIAL</u>									
22.	<del>  •</del>				n er i kanan yang. Ti da kanan merupak pangan 190			DRII	LER X	adel	a Land	e	-	
23.	+			DRILLING ASS	SEMBLY		DIT C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				·		
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A. PERFORATING	1 1	1 6				<del></del>								
A. PERFORATING B. TUBING TRIPS			NO.	ITEM	LENGTH	BIT NO.		6		TIME			<u>k</u>	
B. TUBING TRIPS			NO.	BIT 1 2 1/4	1	BIT NO. SIZE		12'4		TIME WEIGHT	00/5	zate c		
B. TUBING TRIPS			NO.	BIT 121/4 BI+ SUB	1.00					WEIGHT	ten,	enter coted	<u></u>	
B. TUBING TRIPS			NO.  1 /1 2/	BIT 121/11  BIT 546  MONEL  TO DE	1,00 2,33 28,86 40,00	SIZE				WEIGHT PRESSURE GRADIENT FUNNEL	ter,	so tel		
B. TUBING TRIPS C. TREATING D. SWABBING			1/2	BIT 121/4 BI+ 5WD MORE! T' DC YO OD	1.00 2.33 28.86 40.00 2.29	SIZE IADC CODE MANUFACT	URER	1214		WEIGHT PRESSURE GRADIENT	- h	so el		
B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING			1/1/3/1	BIT 1 2 1/4 BI+ 546 MONE! 4" DC YO OD Shacksub	1:00 2:33 28.86 (10:00 2:29	SIZE IADC CODE MANUFACT	URER	12'4 HTC 28C		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	- A	so el		
B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.			1/2	BIT 1 2 1/4 BI+ SUB MONE! YO OD ShockSub	1.00 2.33 28.86 40.00 2.29 9.87	SIZE IADC CODE MANUFACTI TYPE	URER	12'4 HTC 28C		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH	/	so el	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.			1/1/3/1	BIT 1 2 1/4 BI+ 546 MONE! 4" DC YO OD Shacksub	1.00 2.33 28.86 40.00 2.29 9.87	SIZE IADC CODE MANUFACTI TYPE SERIAL NO.	URER	12'4 HTC 28C		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	- A	solet solet		
B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. TOTALS DAYWORK TIM	I 2	12	1/1/3/1	BIT / 2"/4 BI+ 546 MEN'E! TOC YO OD Shocksub 6" DC & Ja(5.00	1.00 2.33 28.86 40.00 2.29 9.87 178.96 29.02	SIZE IADC CODE MANUFACTI TYPE SERIAL NO. JETS TFA	GT.	12'4 HTC 28C		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID	/	so de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della con	<u> </u>	
B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS	AE SUMMARY SE ONLY)		1 1/2 1	BIT 1 2 1/4 BI+ 546 MEN'EL 4" DC YO 00 Shocksub 6" DC & Ja(5 00	1.00 2.33 28.86 40.00 2.29 9.87 178.95 29.02	SIZE  IADC CODE  MANUFACTI  TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT	GT.	12'4 HTC 28C 190m 7128		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	/ ten	solet solet		
B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE U	AE SUMMARY SE ONLY)		1 1/2 1	BIT 1 2 1/4 BI+ 546 MEN'EL 4" DC YO 00 Shocksub 6" DC & Ja(5 00	1.00 2.33 28.86 40.00 2.29 9.87 178.96 29.02	SIZE IADC CODE MANUFACTI TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN	GT.	12'4 HTC 28C		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	/ /	sodel sodel		——————————————————————————————————————
B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIN (OFFICE U)  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.	AE SUMMARY SE ONLY)		1/2/1	BIT / 2"/4 BI+ 546 MEN'E! TOC Shocksub 6" DC'S JA(5 00 6" DC'SOD 18HA	1.00 2.33 28.86 40.00 2.29 9.87 178.95 29.02 177.05	SIZE IADC CODE MANUFACTI TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRIL	GT W	12'4 HTC 28C 190m 7128		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHEM	<del></del>		
B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIN (OFFICE U)  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.	AE SUMMARY SE ONLY)		1 1/2 1	BIT / 21/4  BIT / 21/4  BIT / 21/4  BIT / 21/4  BIT / 21/4  BIT / 21/4  STANDS D.P.	1.00 2.33 28.86 40.00 2.29 9.87 178.95 29.02 177.05	SIZE IADC CODE MANUFACTI TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRIL TOTAL HOU	GT.	12'4 HTC 28C 190m 7128 3413		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI AMOUNT	CALS ADDE		/ / HOUNT
B. TUBING TRIPS  C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIM (OFFICE U HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	AE SUMMARY SE ONLY)		1/2/1	BIT 1 2 1/4  BIT 5 21/4  BIT 5 21/4  BIT 5 21/4  BIT 6 21/4  SHOCKSWD  GOD  GOD  GOD  GOD  STANDS  D.P.  SINGLES  D.P.	1.00 2.33 28.86 40.00 2.29 9.87 178.95 29.02 177.05	SIZE IADC CODE MANUFACTI TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRIL TOTAL HOU	GT.	12'4 HTC 28 C 19 Om 7128 3413	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS		<del></del>		OUNT
B. TUBING TRIPS  C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIM (OFFICE U HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	AE SUMMARY SE ONLY)		1/2/1	BIT 1 2 1/4 BIT 1 2 1/4 BIT 5 2 1/4 BIT 5 2 1/4 BIT 5 2 1/4 STANDS DP. KELLY DOWN	1.00 2.33 28.86 40.00 2.29 9.87 178.95 29.02 177.05	SIZE  IADC CODE  MANUFACTI TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOU	T LLED JRS CUTTING OUTER	12'4 HTC 28C 19 0w 7128 3413 125 STRUCTURE DULL CHAR.		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE  PAP Rayona T		<del></del>		/ / iount
B. TUBING TRIPS  C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIM (OFFICE U HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	AE SUMMARY SE ONLY)		1/1 2/1 1 1 4 33	BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  STANDS OD  STANDS D.P.  KELLY DOWN  TOTAL	1:00 2:33 25.56 40:00 9.87 176.95 29.02 177.05 4893	SIZE  IADC CODE  MANUFACTI TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOU	T LLED JRS	12'4 HTC 28 C 19 Om 7128 3413	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE		<del></del>		IOUNT.
B. TUBING TRIPS  C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIM (OFFICE U HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	AE SUMMARY SE ONLY)		1/1 2/1 1 1 4 33	BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  BIT / 2/4  STANDS OD  STANDS D.P.  KELLY DOWN  TOTAL	1.00 2.33 28.86 40.00 9.87 176.95 29.02 177.05 489.37	SIZE  IADC CODE  MANUFACTI TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRIL  TOTAL HOU  INNER  BEARINGS/ SEALS	T LLED JRS CUTTING OUTER	12'4 HTC 28C 19 0w 7128 3413 125 STRUCTURE DULL CHAR.		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE  PAP  Raignat  A 954		<del></del>		J J
B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIN (OFFICE U  HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY	AE SUMMARY SE ONLY)		1/1 2/1 1 1 4 33	BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  STANDS OD  STANDS D.P.  SINGLES D.P.  KELLY DOWN  TOTAL  FSTRING 1 09	1:00 2:33 25.56 40:00 9.87 176.95 29.02 177.05 4893	SIZE  IADC CODE  MANUFACTI TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRIL  TOTAL HOU  INNER  BEARINGS/ SEALS	T LLED JRS CUTTING OUTER	12'4 HTC 28C 19 0w 7128 3413 125 STRUCTURE DULL CHAR.		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE  PAP  Raignat  A 954		<del></del>		JOUNT.
B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIN (OFFICE U  HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK NO. OF DAYS	AE SUMMARY SE ONLY)		1/1 2/1 1 1 4 33	BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  BIT 1 2 1/4  STANDS OD  STANDS D.P.  SINGLES D.P.  KELLY DOWN  TOTAL  FSTRING 1 09	1:00 2:33 28.86 40:29 9.87 178.95 29.02 177.05 4893 3885	SIZE  IADC CODE  MANUFACTI TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRILL  TOTAL HOU	T LLED JRS CUTTING OUTER	12'4  HTC 28 C 19 OM 7128  3413  STRUCTURE DULL CHAR.  OTHER DULL CHAR.	REASON PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE  DAP  Rayarat Sadarat		<del></del>		IOUNT.
B. TUBING TRIPS  C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIM (OFFICE U  HOURS W/ CONTR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK NO. OF DAYS FROM SPUD CUMULATIVE	AE SUMMARY SE ONLY)		1/1 2/1 1 1 4 33	BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 12	1:00 2:33 25.56 42:29 9.87 176.95 29.02 177.05 1893 3085	SIZE  IADC CODE  MANUFACTI TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRIL  TOTAL HOU  INNER  BEARINGS/ SEALS	T LLED JRS CUTTING OUTER	HTC 28 C 19 OW 7128 3413 STRUCTURE DULL CHAR.		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE  DAP  Rayarat Sadarat		<del></del>		IOUNT.
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B. TUBING TRIPS  C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIM (OFFICE U  HOURS W/ CONTR. D.P. HOURS W/ TOPR. D.P. HOURS STANDBY  TOTAL DAYWORK NO. OF DAYS FROM SPUD CUMULATIVE	ME SUMMARY SE ONLY)		1/1 2/1 1 1 4 33	BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 121/4 BIT 12	1:00 2:33 25.56 42:29 9.87 176.95 29.02 177.05 1893 3085	SIZE  IADC CODE  MANUFACTI TYPE  SERIAL NO.  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRIL  TOTAL HOU  INNER  BEARINGS/ SEALS	T LLED JRS CUTTING OUTER	12'4  HTC 28 C 19 OM 7128  3413  STRUCTURE DULL CHAR.  OTHER DULL CHAR.	REASON PULLED	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE  DAP  Rayarat Sadarat		<del></del>		IOUNT.

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2. DRILL ACTUAL	11	6	1/1 8	Bitsub monel	2.53 28.85	IADC CODI	Ε			PRESSURE GRADIENT	٠ , را		$\nearrow$		
3. REAMING	<u> </u>		2/	m Des	60.00	MANUFAC	TURER	HTC		FUNNEL VISCOSITY	Vo	X			
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5. & CIRCULATE		5/2		ock So 600	9,87	SERIAL NO	). W	19 DM			<del>/\</del>	\\\	<del></del>		
6. TRIPS		1/2	6	<u>۱٬۵۲۶</u> ۵۵	178.95	JETS		1		GEL STRENGTH		/_/			
7. LUBRICATE RIG				Ers on	29.02			3X 28		FLUID LOSS					
8. REPAIR RIG				11006		TFA				рH					
CUT OFF 9. DBILLING LINE					177.05	DEPTH OU	Т			SOLIDS					Œ
9. DRILLING LINE 10. DEVIATION SURVEY	<del>                                     </del>		1 4	3HA	489.30	DEPTH IN		3413		SOLIDŞ		ļ		_	ᅙ
	-		1			TOTAL DRI	ILLED	249	•						NIGHT TOUR
11. WIRE LINE LOGS	-	ļ	3 3 ST	ANDS D.P.	3085.58	TOTAL HO	URS. 9	18		TYPE	MUD & CHEM AMOUNT	TYPE			ž
12. RUN CASING & CEMENT	ļ		-	NGLES D.P.	5000	TOTALTIO		S STRUCTURE		1000	TOTAL CL	11/ 0			
13. WAIT ON CEMENT					37.28	INNER	OUTER		LOCATION	Fab	0 & &	HL &	10 g		
14. NIPPLE UP B.O.P.			l Ki	ELLY DOWN	28-	7.5.5.000		071177			5100	Deloan	er 5 go	21	
15. TEST B.O.P.			TO	)TAL	3662.23	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	The state of					
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1800 2000 2100	70 2000	7 9	(g) (g) 2	Too TI Drk	# u # 2 7 \fr	liper,	eun, 1901	<b>√</b> &			e Sh	oc/<	- Special Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of	-			

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WEIGHT PRESSURE GRADIENT

COMPLETION IADC CODE D. SWABBING MANUFACTURER FUNNEL VISCOSITY 0728C E. TESTING TYPE F. PV/YP SERIAL NO. WIGD N G. GEL STRENGTH 118.9 JETS н FLUID LOSS THRES OD 79,02 TFA TOTALS рΗ 00 /17/03 DEPTH OUT SOLIDS 489.31 BAA HOURS W/ CONTR. D.P. DEPTH IN HOURS W/ OPR. D.P. TOTAL DRILLED MUD & CHEMICALS ADDED STANDS \_\_\_\_ D.F HOURS WITHOUT D.P. AMOUNT TOTAL HOURS AMOUNT 4 545 HOURS STANDBY SINGLES\_\_\_ D.P KELLY DOWN PAUL BEARINGS SEALS REASON PULLED DULL TOTAL . GAGE

SIZE

REMARKS TOTAL DAYWORK NO. OF DAYS

CUMULATIVE ROTATING HOURS D. 000

Rot 122,000 DAILY MUD COST TOTAL MUD COST

IADC - API OFFICIAL DAILY DRILLING REPORT FORM



WT. OF STRING



C. TREATING

	RICT			UNTY Y				STATE	COUNTR	RY /_	<del></del>	WIRE L	INE REC	ORD	REEL NO.		and the second second second	gyttengten in 1600	مدر وسده وساور دران	مار پوستان حوبيه
	- 4- 4- <b>8</b>	<b>ZE</b> x vivo	MAI		WE	<b>S</b> HT	NO.	EENG	ra !	RKB. JO SG. HD.	SET AT	SIZE /	1/8	TNO I	INES	^	LENGTH	SLIPPED		
LAST					<u> </u>		001113					LENGTH	CUT OFF				NT LENGTH	<u> </u>		
CASING TUBING OR LINER							·.		+			WEAR O	R TRIPS		w.	1				
									-			SINCE LA	TIVE							
DEPTH IN	NTERVA											WEAR O	NO.1	Три	AP NO. 2	DIM	P NO. 3	DUM	P NO. 4	
FROM	то		DRILLD REAMR COREC	CORE NO.	(1		MATION IE RECOVE		ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	LINER	S.P.M.	LINER		LINER	S.P.M.	LINER	S.P.M.	TOTA PUM OUTP
1018	410	2	n	· ·· · · ·	<	LIA	1 6	- <	7/	35	700	SIZE	<del>                                     </del>	SIZE		SIZE		SIZE	9.F.m.	-
#0 1 D	-11						<b></b>		13		100	3	65	3	65					
																				<u> </u>
DEVIATIO		DEPTH	DEV.		DIR.	TVD	HORIZ DISP.	Z. DI	PTH	DEV.	DIR.	TVD	HOI	RIZ. SP.	DEPTH	DEV.	DIR.	Ŧ	VD	HORIZ. DISP.
RECOR		004	10	<u> </u>				_												
TIME	LOG	- 1	FLADOR			<u> </u>														
FROM	ТС		ELAPSE!	,   COI	DE NO.	DETAILS	S OF OPER	ATIONS	N SEQUI	ENCE AND	REMARKS		······································							
01.00	B:L	5	23/	4	2	Dr/c	F	140	18	to	404	6								
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71.				-	<del>.,</del>	<del>                                     </del>					1.1.				<del></del>	-	·			
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NEPTH IN	7		15			Ba	) P	Dr	-	(	62			Diff	ID NO. 2	Dime	NO 9	OLINE		Ť
DEPTH IN	ITERVAL			CORE NO.	(S	FORM	ATION E RECOVER	1	-	WT. ON BIT	La 2	PUMP	NO. 1		IP NO. 2	<del> </del>	PNO. 3	LINER	NO. 4	PUMP
DEPTH IN	7	, F	7.5		(S	FORM	IATION	łY)	ROTARY TABLE SPEED	BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	LINER	S.P.M.	PUMF LINER SIZE	NO. 3 S.P.M.		NO. 4	PUMP
	ITERVAL TO	, F	7.5		(S	FORM	IATION	łY)	-	BIT	PUMP PRESSURE	PUMP	NO. 1 S.P.M.		S.P.M.	<del> </del>	T .	LINER	T	PUMP
	ITERVAL TO	, F	7.5		(S	FORM	IATION	łY)	ROTARY TABLE SPEED	BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	LINER	S.P.M.	<del> </del>	T .	LINER	T	PUMP
	to 430	, F	7.5	NO.	(S	FORM	IATION	<b>3Y)</b>	ROTARY TABLE SPEED	BIT	PUMP PRESSURE	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	TOTAL PUMP OUTPU
	ITERVAL TO		DRILL.D REAM.R COREC	NO.		FORM SHOW COR	IATION E RECOVER	<b>3Y)</b>	ROTARY TABLE SPEED	3 <i>9</i>	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	LINER SIZE	S.P.M.	<del> </del>	T .	LINER	S.P.M.	PUMP
DEVIATION RECORD	to 430	E F	DRILL.D REAMR POPIEC	NO.		FORM SHOW COR	IATION E RECOVER	<b>3Y)</b>	ROTARY TABLE SPEED	3 <i>9</i>	PUMP PRESSURE	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
FROM H/68	to 430	E F	DRILL.D REAM.R COREC	NO.		FORM CHOW CORI	HORIZ DISP.	TY)	ROTARY TABLE SPEED	3 <i>4</i> DEV.	PUMP PRESSURE	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 100 LOG	E F	DRILL.D REAMR POPIEC	D COL	IR.	FORM CHOW CORI	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 659/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	E E	DEV.	D COL	IR. DE NO.	FORM CHOW CORI	HORIZ DISP.	TY)	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 43 G	E E	DELLAPSED TIME	D COL	IR.	FORM CHOW CORI	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 43 G	DEPTH	DEV.	D COL	DE NO.	FORM CHOW CORI	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TO 4/3 C	DEPTH	DELAM.R COREC DEV.	D COD	DE NO.	TVD  DETAILS  Autority  4	HORIZ DISP.	DE	PTH	DEV.	PUMP PRESSURE 669/100 DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
DEVIATION RECORD	TERVAL TO 430  LOG TO 041  041		DELAM.R COREC  DEV.  ELAPSEC TIME 1/2 3/4	D COD	DE NO.	TVD  DETAILS  Delay  Cife	HORIZ DISP.	ATIONS II	PTH SEQUE	DEV.	PUMP PRESSURE 659/100 DIR.	TVD	NO. 1 S.P.M. HOP	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMI

LEA	\$F	1.4		-			ILLING R		DEC			-	NO.		
		۸۸.	1			WELL NO.	, j.	ELL NUM	BER			WATE	ER DEPTH	DATE	
OPE	PATOR	M	<b>TWAG</b>	All	^	121-16		RACTOR			<del></del>	<u>.                                    </u>		11.25	47.4
	art in	<b>.</b> ,					0		- 644	1	7-11	. <b>1</b>		RIG	
	ATURE OF OPER	ATOR'S B	EPRESE	<b>STATION</b>	E		SIGNA	TURE OF	CONTRACT	OR'S TOO	L PUSHER	ing		100	_/_
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<b>G</b>	SIZ WEIGHT	1	RADE	TOOL J	TO.D. TYPE TI	READ STRING	D. PUNP	NO/ 1	PUN	P MANUFAC	TUBBA	1 . Vol. 10.	TYPE	STRO	OKE
U	The 201	#/		1.	11. ~	4 224				,	0			LENG	<u> </u>
		11	$\frown$	6	<i>14</i>   X	HOAL	2		1	ece		<del>-  -</del>	550		
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	TIME DISTRIBUTI	· ·	IRS		DRILLING A (At end o			BIT	RECORD			MUE	RECORD		
CODI	- OPERATION	DAY	N. 1917	NO.	ITEM	LENGTH	BIT NO.		1-		TIME	T	· ·		1
	G UP AND EAR DOWN			<b> </b>	DIT.		SIZE		0		-		<del>-  </del> -		-
	RILL ACTUAL	11/2			BIT /2-/4/	100		_	12:14		WEIGHT	ļ		***	
		11/12		1	BIT SEA	2.33	IADC CO	DE			PRESSURE GRADIENT	i.,			
	EAMING		ļ i	2/1	200	(80/84)	MANUFA	CTURER	HTC		FUNNEL VISCOSITY		7	10. 3	1
	ORING				7		TYPE	E.T	286		PV/YP	1 /		<del>                                      </del>	1
5. &	ONDITION MUD CIRCULATE	4		<b> </b>	Shock &		SERIAL N	10.			GEL	//	+ 7	\ <u>*</u> /	-
6. T	RIPS	5h		la	6" D.C.	0 178/95	JETS		was		STRENGTH	/.	/	1 //	1
7. L	JBRICATE RIG	1/2	L	1	Jar -	29.02	., <del> </del>	-	3XXX		FLUID LOSS			. *.	
8. R	EPAIR RIG			4	6" dic	1	TIFA				pH				
9. C	JT OFF RILLING LINE			400	(a. U.C.	11:1:03	DEPTH O	UT			SOLIDS				_ ا
	EVIATION SURVEY	1/2		<b> </b>	e/_ t		DEPTH IN	١.	3413		302.03	1		-	. □
11 W	IRE LINE LOGS	12	<del></del>	1	BHA	489.37	TOTAL DI		1010						NIGHT TOUR
	JN CASING & CEMENT			41	STANDS D.	3831,48	TOTALH	50As	- ty. +		TYPE	MUD & CH	EMICALS ADDE	AMOUNT	Įž
	<del></del>		<u> </u>	2	SINGLES D.		<del></del>	CUTTING	STRUCTURE		DAD	7 4		1007	1
	AIT ON CEMENT				KELLY DOWN	407	INNER	OUTER	DULL CHAR.	LOCATION	NA T	11	<u> </u>		1
14. N	PPLE UP B.O.P.			<b>]</b>		70'	BEARINGS/ SEALS	-	OTHER DULL	REASON	Barcal	4			
	ST B.O.P.				TOTAL	4422	SEALS	GAGE	l Villia''	REASON PULLED	1				
15. TI	.01 0.0.1 .			<b>⊪</b>		17723	- JEALS	ļ	CHAR.		<b>↓</b>				411
	RILL STEM TEST			WT. O	F STRING	14723	JEALS		CHAR.		<del>                                     </del>	- 8: - 18: <sub>2</sub>			
16. D					1	17723		1	CHAR.	R	A	117			
16. D	RILL STEM TEST			WT. O	1	1.tt. 1		nds	CHAR.	Be	Mer	1012	LAX	55	
16. D 17. PI 18. Si	RILL STEM TEST				1	14723		nds	CHAR.	Bo	lev	1 - 12	しみゃ	55	
16. D 17. Pl 18. St	RILL STEM TEST  UG BACK  DUEEZE CEMENT				1	LINENT		nds	CHAR.	Bo	lev	1 = 12		55	
16. D 17. Pl 18. St	RILL STEM TEST  UG BACK  DUEEZE CEMENT  SHING  R. WORK		0		1	FIDENT		nds	CHAR.	Be	lev	12	LA *	55	
16. D 17. Pl 18. Si 19. Fl 20. Di 21.	RILL STEM TEST  UG BACK  QUEEZE CEMENT  SHING		8		1	FIDENT		nds	Say	Be		1 12		55	
16. D 17. P 18. S 19. F 20. D 21.	RILL STEM TEST  UG BACK  DUEEZE CEMENT  SHING  R. WORK		8		CON	FIDENT		Management to an angle of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the	SA Y	Be	sond	1 = 12 Jac		55	
16. D 17. Pt 18. St 19. Ft 20. Dt 21.	RILL STEM TEST LUG BACK RUEEZE CEMENT SHING R. WORK		8		CON	SSEMBLY		Management to an angle of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the	Say	Be		Aar		<i>3</i> 5	
16. D 17. Pl 18. Si 19. Fl 20. D 21. (1) 22.	COLOR OF THE PERFORATING		8		CON	SSEMBLY		Management to an angle of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the	SA Y	Bo		Aar	vom_	<i>55</i>	
16. D 17. Pf 18. S 19. Ff 20. D 21. J 22.	A PERFORATING		8	REMA	CON  DRILLING AS (At end of	FIDENT SSEMBLY (tour) LENGTH	I N. L.; IAL	Management to an angle of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the	SA Y	Bo	Now do	Aar	vom_	<b>35</b>	
16. D 17. Pl 18. Sc 19. Fl 20. Di 21. <b>()</b> 22.	A. PERFORATING B. TUBING TRIPS C. TREATING		8	REMA	CON  DRILLING AS (At end of	FIDENT SSEMBLY	BIT NO. SIZE	BIT	SA Y	Be	TIME WEIGHT	Aar	vom_		
16. D 17. Pi 18. Si 19. Fi 20. Di 21. (1) 22.	A PERFORATING		8	REMA	CON  DRILLING AS (At end of	FIDENT SSEMBLY (tour) LENGTH	BIT NO. SIZE IADC COD	BIT F	SA Y	Be	Now do	Aar	vom_	<i>55</i>	
16. D 17. Pf 18. Sc 19. Fi 20. Di 21. U 22.	A. PERFORATING B. TUBING TRIPS C. TREATING		8	REMA	CON  DRILLING AS (At end of	FIDENT SSEMBLY (tour) LENGTH	BIT NO. SIZE IADC COL	BIT F	SA Y	Bo	TIME WEIGHT	Aar	vom_		
16. D 17. PI 18. S 19. FI 20. D 21.  22.  23.	A PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING		8	REMA	CON  DRILLING AS (At end of	FIDENT SSEMBLY (tour) LENGTH	BIT NO. SIZE IADC COD	BIT F	SA Y	Bo	TIME WEIGHT PRESSURE GRADIENT FUNNEL	Aar	vom_		
16. D 17. Pi 18. Si 19. Fi 20. D 21. (2) 22.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING		8	REMA	DRILLING AS (At end of	SSEMBLY tour) LENGTH  1.00 12.33/48( 10.85/1.29 10.87	BIT NO. SIZE IADC COL	BIT F	SA Y	30 	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	Aar	vom_	<i>&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;</i>	
16. D 17. Pl 18. Si 19. Fl 20. Dl 21. U 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F.		8	REMA	CON  DRILLING AS (At end of	SSEMBLY tour) LENGTH  1.00 12.33/48( 10.85/1.29 10.87	BIT NO. SIZE IADC COL MANUFAC	BIT F	SA Y	Bo	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH	Aar	vom_		
16. D 17. Pi 18. Si 19. Fi 20. D 21. (2) 23.	A PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.		8	REMA	DRILLING AS (At end of	SSEMBLY    TOUT)   LENGTH   .00   2.33/48(   0.85/2.29   0.87   0.78,15	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N	BIT F	SA Y	Be	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	Aar	vom_		
16. D 17. Pi 18. Si 19. Fi 20. D 21. (2) 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S. DAYWORK TIME	SUMMARY	9	REMA	DRILLING AS (At end of ITEM  BIT 7/4  BIT 7/4  BIT 7/4  BIT 7/4  CONSTRUCTOR	SSEMBLY    TOUT)   LENGTH   .00   2.33/48(   0.85/2.29   0.87   0.78,15	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA	BIT F	SA Y	30 	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	Aar	vom_	<i>&gt;&gt;</i>	
16. D 17. Pt 18. St 19. Ft 20. D 21. 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S. DAYWORK TIME (OFFICE USE	SUMMARY	9	REMA	DRILLING AS (At end of ITEM  BIT 7/4  BIT 7/4  BIT 7/4  BIT 7/4  CONSTRUCTOR	SSEMBLY    TOUT)   LENGTH   .00   2.33/48(   0.85/2.29   0.87   0.78,15	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OF	BIT I	SA Y	Bo	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	Aar	vom_		H.
16. D 17. PI 18. Si 19. FI 20. DI 21. J 22. 23.  TOTAL	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S DAYWORK TIME (OFFICE USE	SUMMARY	9	REMA	DRILLING AS (At end of ITEM  BIT 7/4  BIT 7/4  BIT 7/4  BIT 7/4  CONSTRUCTOR	SSEMBLY    TOUT)   LENGTH   .00   2.33/48(   0.85/2.29   0.87   0.78,15	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA	BIT I	SA Y	Bo	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	Aar	vom_		TOUR
16. D 17. P1 18. S6 19. F1 20. D 21.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S. DAYWORK TIME (OFFICE USE S W/ OPR. D.P.	SUMMARY	9	REMA	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / MON  SHOK SIND  L''S CO  TARS O	SSEMBLY  CHOCK  CHOCK  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OF	BIT I	SA Y	3°	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	Mud	RECORD		DAY TOUR
16. D 17. P1 18. S1 19. F1 20. D 21. (2) 22. 23.  TOTAL HOUR HOUR	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S DAYWORK TIME (OFFICE USE S W/ CONTR. D.P. S W/ OPR. D.P.	SUMMARY ONLY)	9	REMA	DRILLING AS (At end of ITEM  BIT 7/4  BIT 7/4  BIT 7/4  BIT 7/4  CONSTRUCTOR	SSEMBLY  CHOCK  CHOCK  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL N JETS TFA DEPTH OI	BIT I	SA Y	Bo	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	Mud	RECORD	AMOUNT	DAY TOUR
16. D 17. P1 18. S1 19. F1 20. D 21. (2) 23.  TOTAL HOUR HOUR	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S. DAYWORK TIME (OFFICE USE S W/ OPR. D.P.	SUMMARY	9	REMA	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / MON  SHOK SIND  L''S CO  TARS O	SEMBLY  TOUT)  LENGTH   .00  2.33/88(  0.85/2.29  178.15  178.15  178.15  178.25  489.37	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OF	BIT I	DRIII RECORD  6 12/4 47C 6778C 19 DM 2×28 4/1/3		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D 17. P1 18. S1 19. F1 20. D 21. (2) 22. 23.  TOTAL HOUR HOUR	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S DAYWORK TIME (OFFICE USE S W/ CONTR. D.P. S W/ OPR. D.P.	SUMMARY	9	REMA	DRILLING AS (At end of ITEM BIT 7/4 Bit 100 SHAKS AD (") ( o TARS o BHH STANDS D.	SEMBLY  TOUT)  LENGTH   .00  2.33/88(  0.85/2.29  178.15  178.15  178.15  178.25  489.37	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OI DEPTH IN TOTAL DE	DE CTURER O. W	DRII RECORD  6 12/4 HTC 67780 19 DM 2×28 4/123		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D 17. P1 18. S1 19. F1 20. D 21. (2) 22. 23.  TOTAL HOUR HOUR	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S DAYWORK TIME (OFFICE USE S W/ CONTR. D.P. S W/ OPR. D.P.	SUMMARY ONLY)	9	REMA	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / 4/00  SHAKS OF  STARS OF  STARS OF  KELLY DOWN	SEMBLY  TOUT)  LENGTH   .00  2.33/88(  0.85/2.29  178.15  178.15  178.15  178.25  489.37	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OI TOTAL DE TOTAL HC	DE CTURER  O. JAJ  UT  CUTING  CUTING  OUTER	DRII RECORD  6 12/4  HTC 61-280 19 DM 2×28  STRUCTURE DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D 17. P1 18. S1 19. F1 20. D 21. (2) 22. 23.  TOTAL HOUR HOUR	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S DAYWORK TIME (OFFICE USE S W/ CONTR. D.P. S W/ OPR. D.P.	SUMMARY	9	NO. 1/1/2/1 1/6 1/4/2/	DRILLING AS (At end of ITEM BIT 7 /4 Bit 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 SHAKS 100 S	SEMBLY  TOUT)  LENGTH   .00  2.33/88(  0.85/2.29  178.15  178.15  178.15  178.25  489.37	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OI DEPTH IN TOTAL DE	BIT I	DRIII RECORD  6 12/4 47C 6778C 19 DM 2×28 4/1/3		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D 17. Pi 18. Si 19. Fi 20. Di 21. (2) 23.  NOLETAMOO  TOTAL HOUR HOUR HOUR	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S DAYWORK TIME (OFFICE USE S W/ CONTR. D.P. S W/ OPR. D.P.	SUMMARY	9	NO. 1 1 2/1 1 6 1 4 1 2 4 1 2 4 1 2 4 1	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / 4/00  SALAKS OF  STANDS D.I.  SINGLES D.I.  KELLY DOWN  TOTAL  STRING	SEMBLY  LENGTH   .00  2.33/88   0.08  2.29  18.15  18.15  29.02  171.65  489.37  283(48  40	BIT NO. SIZE IADC COL TYPE SERIAL N JETS TFA DEPTH OI TOTAL DE TOTAL HC INNER BEARINGS/	DE CTURER O. JUT OURS CUTTING OUTER GAGE	DRILL CHAR.  DRILL CHAR.  DRILL CHAR.  DILL CHAR.  OTHER DULL CHAR.  OTHER DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D 17. PI 18. SI 19. FI 20. DI 21. J 22. 23.  TOTAL HOUR HOUR	RILL STEM TEST  LUG BACK  DUEEZE CEMENT SHING  R. WORK  D CAPILLY  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  S.  DAYWORK TIME (OFFICE USE  S W/ CONTR. D.P.  S W/ OPR. D.P.  S STANDBY	SUMMARY ONLY)	9	NO. 1/1/2/1 1/6 1/4/2/	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / 4/00  SALAKS OF  STANDS D.I.  SINGLES D.I.  KELLY DOWN  TOTAL  STRING	SEMBLY  LENGTH   .00  2.33/88   0.08  2.29  18.15  18.15  29.02  171.65  489.37  283(48  40	BIT NO. SIZE IADC COL TYPE SERIAL N JETS TFA DEPTH OI TOTAL DE TOTAL HC INNER BEARINGS/	DE CTURER O. JUT OURS CUTTING OUTER GAGE	DRILL CHAR.  DRILL CHAR.  DRILL CHAR.  DILL CHAR.  OTHER DULL CHAR.  OTHER DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D 17. PI 18. Si 19. FI 20. DI 21. J 22. 23.  TOTAL HOUR HOUR HOUR	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S. DAYWORK TIME (OFFICE USE S W/ CONTR. D.P. S WITHOUT D.P. S STANDBY	SUMMARY	9	NO. 1 1 2/1 1 6 1 4 1 2 4 1 2 4 1 2 4 1	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / 4/00  SALAKS OF  STANDS D.I.  SINGLES D.I.  KELLY DOWN  TOTAL  STRING	SEMBLY  TOUT)  LENGTH   .00  2.33/88(  0.85/2.29  178.15  178.15  178.15  178.25  489.37	BIT NO. SIZE IADC COL TYPE SERIAL N JETS TFA DEPTH OI TOTAL DE TOTAL HC INNER BEARINGS/	DE CTURER O. JUT OURS CUTTING OUTER GAGE	DRILL CHAR.  DRILL CHAR.  DRILL CHAR.  DILL CHAR.  OTHER DULL CHAR.  OTHER DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D 17. PI 18. Si 19. FI 20. DI 21. J 22. 23.  TOTAL HOUR HOUR HOUR HOUR	RILL STEM TEST  LUG BACK  DUEEZE CEMENT SHING  R. WORK  D CAPALLS  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  S  DAYWORK TIME (OFFICE USE  S W/ CONTR. D.P.  S WITHOUT D.P.  S STANDBY	SUMMARY ONLY)	9	NO. 1 1 2/1 1 6 1 4 1 2 4 1 2 4 1 2 4 1	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / 4/00  SALAKS OF  STANDS D.I.  SINGLES D.I.  KELLY DOWN  TOTAL  STRING	SEMBLY  LENGTH   .00  2.33/88   0.08  2.29  18.15  18.15  29.02  171.65  489.37  283(48  40	BIT NO. SIZE IADC COL TYPE SERIAL N JETS TFA DEPTH OI TOTAL DE TOTAL HC INNER BEARINGS/	DE CTURER O. JUT OURS CUTTING OUTER GAGE	DRILL CHAR.  DRILL CHAR.  DRILL CHAR.  DILL CHAR.  OTHER DULL CHAR.  OTHER DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D 17. PI 18. S 19. FI 20. D 21. (2) 23.  TOTAL HOUR HOUR HOUR HOUR CUMUR ROTA	RILL STEM TEST  LUG BACK  DUEEZE CEMENT SHING  R. WORK  D CAPILLY  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  S  DAYWORK TIME (OFFICE USE  S W/ CONTR. D.P.  S WITHOUT D.P.  S STANDBY  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK  DAYWORK	SUMMARY ONLY)	9	NO. 1 1 2/1 1 6 1 4 1 2 4 1 2 4 1 2 4 1	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / 4/00  SALAKS OF  STANDS D.I.  SINGLES D.I.  KELLY DOWN  TOTAL  STRING	SEMBLY  LENGTH   .00  2.33/88   0.08  2.29  18.15  18.15  29.02  171.65  489.37  283(48  40	BIT NO. SIZE IADC COL TYPE SERIAL N JETS TFA DEPTH OI TOTAL DE TOTAL HC INNER BEARINGS/	DE CTURER O. JUT OURS CUTTING OUTER GAGE	DRILL CHAR.  DRILL CHAR.  DRILL CHAR.  DILL CHAR.  OTHER DULL CHAR.  OTHER DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHE	RECORD		DAY TOUR
16. D  17. PI  18. S  19. FI  20. D  21. J  22. 23.   TOTAL  HOUR  HOUR  HOUR  HOUR  HOUR  HOUR  HOUR  HOUR  HOUR	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. S. DAYWORK TIME (OFFICE USE S W/ CONTR. D.P. S WITHOUT D.P. S STANDBY DAYWORK PDAYS SPUD AATIVE	SUMMARY	9	NO. 1 1 2/1 1 6 1 4 1 2 4 1 2 4 1 2 4 1	DRILLING AS (At end of ITEM  BIT (2/4/ Bit / 4/00  SALAKS OF  STANDS D.I.  SINGLES D.I.  KELLY DOWN  TOTAL  STRING	SEMBLY  LENGTH   .00  2.33/88   0.08  2.29  18.15  18.15  29.02  171.65  489.37  283(48  40	BIT NO. SIZE IADC COL TYPE SERIAL N JETS TFA DEPTH OI TOTAL DE TOTAL HC INNER BEARINGS/	DE CTURER O. JUT OURS CUTTING OUTER GAGE	DRILL CHAR.  DRILL CHAR.  DRILL CHAR.  DILL CHAR.  OTHER DULL CHAR.  OTHER DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHE	RECORD		DAY TOUR



IELD OR DISTR	RICT	C	OUNTY	10/4	<del></del>		STATE / CO	UNTRY	<del>*************************************</del>		WIRE L	INE REC	ORD F	REEL NO.	فسيفت بكال بالخصاب يتقدمان	والمهام والمال المال المال المال المال المال المال المال المال المال المال المال المال المال المال المال المال	منيد فبرد ووعدت	entre de la companya de la companya de la companya de la companya de la companya de la companya de la companya	er a prime langua, et anguar esse.
	SIZE	MA	KE- way	WEIGH & GHAO	i Jo	NO. DINTS	LENGTH	- CS	<b>69-70</b> G. HD.	SET AT	SIZE	1/0	NO. LI			LENGTH	SLIPPED	P	
LAST											LENGTH	CUT OFF	<u> </u>	/0	PRESE	T NT LENGTH	X	<u> </u>	
LAST CASING TUBING OR LINER		1									WEAR OF	R TRIPS	-						
		1								- 1	CUMULA	TIVE							
			T					-		7	WEAR O	R TRIPS	<b>T</b>				<del></del>		7
DEPTH IN		DRILL.D REAM.R COREC	CORE NO.	(SHO	FORMA W CORE	TION RECOVER	HC T	TARY BLE PEED	WT. ON BIT	PUMP PRESSURE	<del> </del>	NO. 1	+	IP NO. 2		P NO. 3	<del> </del>	P NO. 4	TOTAL
FROM	то			(0.1.0	1	- ILOUVEIL	·/ s	'EED	1 (F) (F) (F) (F) (F) (F) (F) (F) (F) (F)		SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	OUTPUT
4168	4423	D		En	er	4	٤	n d	<u> </u>	950	50	65	5''	65	1			<u> </u>	
-													<del>                                     </del>						<u> </u> -
	DEPTH	DEV.	<del></del>	DIR.	TVD	HORIZ. DISP.	DEDI		DEV			НО	RIZ.		<u>l</u>	<del>                                     </del>		<u> </u>	HORIZ.
DEVIATIO RECORE	N N	DEV		JIN.	100	DISP.	DEPT	+	DEV.	DIR.	TVD	DIS	SP.	DEPTH	DEV.	DIR.	<u></u>	VD .	DISP.
HECORE	,	-	-		~				-			_							<del></del>
TIME		ELAPSE TIME	D со	DE NO. D	ETAILS C	OF OPERA	TIONS IN	EQUE	NCE AND	REMARKS	1	<u>l</u>							
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ŞIĞ	NATURE OF OPER	ATOR'S	EPRESE	MATIV	É			SIĞÑA	TURE OF	CONTRAC	TOR'S TOO	L PUSHER				
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_	WEIGHT		MADE	TOOL		YPE THR		D. PUMP	NO.	PUN	MP MANUFAC	RER		TYPE		STROKE LENGTH
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	TIME DISTRIBUTION	ON - HOL	JAS		Apr 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t to bine th			BIT	RECORD			MUD	RECORD		
	DE - OPERATION	NIGHT	DAY	NO.	ITE	£M	LENGTH	BIT NO.				TIME	1	T	i - Tarita	
1.	RIG UP AND TEAR DOWN				ВІТ	180		SIZE				WEIGHT	<u> </u>	<del>  -</del>		
2.	DRILL ACTUAL				e 1.	V	9.87	IADC COI	DE			PRESSURE		<del> </del>		
3.	REAMING				21	$\alpha \kappa$		MANUFA	CTURER			GRADIENT FUNNEL	1	+		
	CORING			16	16-1	)( 00		TYPE				VISCOSITY	<del>                                     </del>	ļ . ,	-	<del>,  </del>
5.	CONDITION MUD CIRCULATE			<b> </b>	204	<u>(</u> 500	29.02	SERIAL N	10.			PV/YP	<del>                                     </del>	/,		4
6.	TRIPS			6	W'I	)( od	177.05	JETS				GEL STRENGTH				
7.	UBRICATE RÍG				RH	1 A OD	394.89					FLUID LOSS				
	REPAIR RIG			]		OD		TFA			**	рН				
9.	OUT OFF DRILLING LINE					20		DEPTH O				SOLIDS				
10.	DEVIATION SURVEY							DEPTH IN			-	1		1		
11. 1	WIRE LINE LOGS	σ		41	STANDS	ם ת	700110	TOTAL DI	RILLED				MUD & CHE	MICALS ADDI	ED ED	
12. 1	RUN CASING & CEMENT	3		<b></b>		-	3831.48	TOTAL H				TYPE	AMOUNT	TYPE	AM	TAUC
13. \	WAIT ON CEMENT			2	SINGLES		62.54	INNER	OUTER	STRUCTURE DULL CHAR		<u> </u>				
14. I	NPPLE UP B.O.P.				KELLY DO	OWN										
				10	****	l l		I REARINGS/	l	OTHER	REASON PULLED	1		1	- 1	111
15.	EST B.O.P.			<u> </u>	TOTAL			BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	PULLED	İ	}			
	PRILL STEM TEST			WT. O	F STRING			SEALS	GAGE	DULL CHAR.	PULLED			<del> </del>		
16. [					F STRING	- L	ift m			CHAR.	PULLED	100	12	h.c.		
16. I	ORILL STEM TEST			WT. O	F STRING	irk!	ift m	SEALS		CHAR.	B	iles	12	pre		
16. I	PRILL STEM TEST				F STRING	rkl CID	ift m			CHAR.	B	ilec	12	pr.		
16. [ 17. ] 18. \$	PLUG BACK SQUEEZE CEMENT				F STRING	FID	ENTIAL			CHAR.	PULLED	piles	12	pr.		
16. [ 17. ] 18. \$	PRILL STEM TEST PLUG BACK SQUEEZE CEMENT				F STRING	FID	ENTIAL			CHAR.	B	iles	12	pr:	>	
16. [ 17. ] 18. \$ 19. ]	PRILL STEM TEST PLUG BACK SQUEEZE CEMENT				F STRING RKS F		ENTIAL	La Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Com		CHAR.	Be	piles	12	hrs		
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16. [ 17. ] 18. § 19. ] 20. [ 21.	PRILL STEM TEST PLUG BACK SQUEEZE CEMENT			REMA	FSTRING RKS F6	NG ASS	EMBLY	L'A	dsc	CHAR.	Be		d.	A C		***************************************
16. [ 17. ] 18. § 19. ] 20. [ 21.	PRILL STEM TEST PLUG BACK SQUEEZE CEMENT SHING DIR. WORK				FSTRING RKS F6  CON  DRILLI (A)	NG ASS	ENTIAL	BIT NO.	dsc	CHAR.	Be	TIME	d.	A C		
16. I 17. F 18. \$ 19. F 20. E 21. 22. 23.	PLUG BACK SQUEEZE CEMENT SISHING DIR. WORK  A. PERFORATING			REMA	FSTRING RKS F6	NG ASS	EMBLY	BIT NO. SIZE	ВПТ	CHAR.	Be	TIME WEIGHT	d.	A C		***************************************
16. I 17. F 18. \$ 19. F 20. E 21. 22. 23.	PRILL STEM TEST PLUG BACK SQUEEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS			REMA	FSTRING RKS F6  CON  DRILLI (A)	NG ASS	EMBLY	BIT NO. SIZE IADC COE	BITE	CHAR.	Be	TIME WEIGHT PRESSURE GRADIENT	d.	A C		
16. I 17. F 18. \$ 19. F 20. E 21. 22. 23.	PRILL STEM TEST PLUG BACK SQUEEZE CEMENT PISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING			REMA	FSTRING RKS F6  CON  DRILLI (A)	NG ASS	EMBLY	BIT NO. SIZE IADC COE	BITE	CHAR.	Be	TIME WEIGHT PRESSURE	d.	A C		
16. [ 17. ] 18. § 19. ] 20. [ 21.	PRILL STEM TEST PLUG BACK GULEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING			REMA	FSTRING RKS F6  DRILLI (A)	NG ASS t end of to M	EMBLY	BIT NO. SIZE IADC COD MANUFAC	BITE	CHAR.	Be	TIME WEIGHT PRESSURE GRADIENT FUNNEL	d.	A C		
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16. I 17. F 18. \$ 19. F 20. E 21. 22. 23.	PRILL STEM TEST PLUG BACK GULEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F.			REMA	FSTRING RKS F6  DRILLI (A)	M OD OD OD OD	EMBLY	BIT NO. SIZE IADC COD MANUFAC	BITE	CHAR.	Be	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH	d.	A C		
16. I 17. F 18. \$ 19. F 20. E 21. 22. 23.	DRILL STEM TEST PLUG BACK GQUEEZE CEMENT PISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.	12		REMA	FSTRING RKS F6  DRILLI (A)	M OD OD OD OD OD OD OD OD OD OD OD OD OD	EMBLY	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO	BITE	CHAR.	Be	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	d.	A C		
16. I 17. F 18. S 19. F 20. I 21. 22. 23.	PRILL STEM TEST PLUG BACK GULEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.	SUMMARY ONLY)		REMA	FSTRING RKS F6  DRILLI (A)	M OD OD OD OD	EMBLY	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS	BIT F	CHAR.	Be	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	d.	A C		
16. I 17. F 18. S 19. F 20. I 21. 22. 23.	DRILL STEM TEST PLUG BACK GULEZE CEMENT TISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME	SUMMARY		REMA	FSTRING RKS F6  DRILLI (A)	M OD OD OD OD OD OD OD OD OD OD OD OD OD	EMBLY	BIT NO. SIZE IADC COE MANUFAC TYPE SERIAL NO JETS TFA	BIT F	CHAR.	Be	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	d.	A C		
16. I 17. I 18. S 19. I 20. I 21. 22. 23. NOLLETON HOULE	DRILL STEM TEST PLUG BACK GULEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE	SUMMARY ONLY)		REMA	DRILLI BIT  SHALL  L'' DO  BI	M OD OD OD	EMBLY	BIT NO. SIZE IADC COC MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL	BIT F	CHAR.	Be	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD I	RECORD		
16. I 17. F 18. S 19. F 20. E 21. 22. 23. NODE 1000 HOULE HOULE HOULE HOULE HOULE HOULE 17. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19. F 19	DRILL STEM TEST PLUG BACK EQUEEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS  DAYWORK TIME (OFFICE USE	SUMMARY		REMA	FSTRING RKS F6  DRILLI (A)	M OD OD OD	EMBLY	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN	BIT FOR	CHAR.	Be	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	d.	RECORD	iQ.	J. J. J. J. J. J. J. J. J. J. J. J. J. J
16. I. 17. II. 18. S. 19. II. 20. II. 21. 22. 23.  NOTA HOUL	DRILL STEM TEST PLUG BACK GULEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  LS  DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ OPR. D.P.	SUMMARY ONLY)		REMA	DRILLI BIT  SHALL  L'' DO  BI	M OD OD OD	EMBLY	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE	BIT FOR	CHAR.	B	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	
16. I. 17. II. 18. S. 19. II. 20. II. 21. 22. 23.  NOTA HOUL	DRILL STEM TEST PLUG BACK EQUEEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LLS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ OPR. D.P. RS W/ OPR. D.P. RS W/THOUT D.P.	SUMMARY		REMA	DRILLI  SHOWLE  STANDS	M OD OD OD OD D.P.	EMBLY	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO	BIT FOR THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR	DRI STRUCTURE DULL CHAR	B	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	
16. I. 17. II. 18. S. 19. II. 20. II. 21. 22. 23.  NOTA HOUL	DRILL STEM TEST PLUG BACK EQUEEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LLS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ OPR. D.P. RS W/ OPR. D.P. RS W/THOUT D.P.	SUMMARY ONLY)		REMA	DRILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI  ORILLI	M OD OD OD OD D.P.	EMBLY	BIT NO. SIZE IADC COC MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE	BIT FOR THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR	DRI STRUCTURE DULL CHAR	B	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	
16. I. 17. II. 18. S. 19. II. 20. II. 21. 22. 23.  NONDELION HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULEHOUSE HOULE	DRILL STEM TEST PLUG BACK EQUEEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LLS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ OPR. D.P. RS W/ OPR. D.P. RS W/THOUT D.P.	SUMMARY		NO.	DRILLI  SHALL  STANDS  SINGLES  KELLY DO	M OD OD OD OD D.P.	EMBLY	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO	BIT F DE CTURER O.  JT RILLED DURS CUTTING OUTER	DRI	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	
16. I. 17. II. 18. S. 19. II. 20. II. 21. 22. 23.  NOTA HOUL	DRILL STEM TEST PLUG BACK EQUEEZE CEMENT FISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LLS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ OPR. D.P. RS W/ OPR. D.P. RS W/THOUT D.P.	SUMMARY ONLY)		NO.	DRILLI  SHALL  STANDS  SINGLES  KELLY DO  TOTAL	M OD OD OD OD OD.P.	ENTIAL  EMBLY  DUT  LENGTH  9,87  178,95  29,02  177,05  394,89	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER	BIT F DE CTURER O.  JT DURS CUTTING OUTER GAGE	STRUCTURE DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	
16. [ 17. [ 18. § ] 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19. [ 19.	DRILL STEM TEST PLUG BACK GULEZE CEMENT RISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ OPR. D.P. RS W/ THOUT D.P. RS STANDBY	SUMMARY		NO.	DRILLI  SHALL  STANDS  SINGLES  KELLY DO  TOTAL	M OD OD OD OD OD.P.	EMBLY	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/ SEALS	BIT F DE CTURER O.  JT DURS CUTTING OUTER GAGE	STRUCTURE DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	
16. I. 17. II 18. S 19. II 20. II 21. 22. 23.  NOULETON HOULE HOUSE HOUSE NO. C FROM	DRILL STEM TEST PLUG BACK EQUEEZE CEMENT RISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LLS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS STANDBY L DAYWORK RF DAYS R SPUD	SUMMARY ONLY)		NO.	DRILLI  SHALL  STANDS  SINGLES  KELLY DO  TOTAL	M OD OD OD OD OD.P.	ENTIAL  EMBLY  DUT  LENGTH  9,87  178,95  29,02  177,05  394,89	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/ SEALS	BIT F DE CTURER O.  JT DURS CUTTING OUTER GAGE	STRUCTURE DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	
16. I. 17. F 18. S 19. F 20. I. 21. 22. 23.  NOLETION HOUSE HOUSE TOTA TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMITTEE TOTA COMMI	DRILL STEM TEST PLUG BACK EQUEEZE CEMENT PISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LLS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ OPR. D.P. RS W/ TOPR. D.P. RS W/ TOPR. D.P. RS WITHOUT D.P. RS STANDBY	SUMMARY ONLY)		NO.	DRILLI  SHALL  STANDS  SINGLES  KELLY DO  TOTAL	M OD OD OD OD OD.P.	ENTIAL  EMBLY  DUT  LENGTH  9,87  178,95  29,02  177,05  394,89	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/ SEALS	BIT F DE CTURER O.  JT DURS CUTTING OUTER GAGE	STRUCTURE DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	
16. I 17. I 18. S 19. I 20. I 21. 22. 23. NOLETON HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUSE HOUS	DRILL STEM TEST PLUG BACK GOUEEZE CEMENT GISHING DIR. WORK  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  LLS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ TOPR. D.P. RS W/ TOPR. D.P. RS W/ TOPR. D.P. RS STANDBY  L DAYWORK F DAYS F SPUD JLATIVE	SUMMARY		NO.	DRILLI  SHALL  STANDS  SINGLES  KELLY DO  TOTAL	M OD OD OD OD OD.P.	ENTIAL  EMBLY  DUT  LENGTH  9,87  178,95  29,02  177,05  394,89	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DE TOTAL HO INNER  BEARINGS/ SEALS	BIT F DE CTURER O.  JT DURS CUTTING OUTER GAGE	STRUCTURE DULL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	RECORD /	iQ.	





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LAST CASING TUBING OR LINER					+	-+						WEAR O	R TRIPS	<del></del>		}				
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DEPTH INT	TERVAL	DR	ILL.D	CORE		FOR	MATION		NOTARY	WT. ON	Deliteb	PUM	NO. 1	PUI	MP NO. 2	PUM	P NO. 3	PUM	P NO. 4	TOTAL
FROM	то	CO	AMR PREC	NO.	(SI		RE RECOVE	HY)	ROTARY TABLE SPEED	BIT	PUMP PRESSURE	LINER SIZE	S.P.M.	LINEF	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION	v	PTH	DEV.	B	IR.	TVD	DISP.	.   DEI	PTH	DEV.	DIR.	TVD	DIS	SP.	DEPTH	DEV.	DIR.	. Т	VD	DISP.
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рертн імт	Erv. C		ILLD	CORE		FORI	MATION		OTARY				No. 1	Pus	IP NO, 2	PUMI	P NO. 3	PUMF	5 NO. 4	TOTAL
SEPTH INT	TERVAL	RE	ILL.D AM.R RE.C	CORE NO.	(\$1	Landan and Co.	MATION RE RECOVE	F Taylor	OTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE		NO.1	PUA LINER SIZE		-	PNO.3	- 200	PNO. 4	TOTAL PUMP OUTPUT
		RE	AM.R	CORE	(SI	Landan and Co.		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OTARY TABLE SPEED	WT. ON BIT	PUMP	PUMP	I	LINER		PUMI LINER SIZE	7	PUMF LINER SIZE		PUMP
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PROM DEVIATION RECORD	DEF	TH	DEV.	CORE		IOW COF	HORIZ	<b>AY)</b>	TABLE SPEED		PRESSURE	PUMP LINER SIZE	S.P.M.	LINER	SPM.	LINER	SPM	LINER	S.P.M	PUMP OUTPUT
PROM	DEF	TH	AMR REC	D		TVD	HORIZ	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER	SPM.	LINER	SPM	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER	SPM.	LINER	SPM	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	SPM.	LINER SIZE	S.P.M.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	PTH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
DEVIATION RECORD	DEF TO 2100 2200	TH	DEV.	D	R.	TVD	HORIZ DISP.	DEF	TH	DEV.	DIR.	PUMP LINER SIZE	S.P.M.	LINER SIZE	DEPTH	LINER SIZE	DIR.	LINER	S.P.M	PUMP OUTPUT
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LEASE	1			1	,		WELL NO.	API WI	ELL NUME	BER	****		WATER	DEPTH		DATE	_
Mic	dd I	e M	loun	ta	in		21-16	,							#1	-27	-7
OPERATO	PR	-		•				CONTI	RACTOR		·Ω .	11.				RIG N	<b>5</b> .
SIGNATUR	TE OF OPER	ATOR'S P	EDERE	NTATIV	F			Ya	+ + 0	CONTRACT	Ur 1		9			104	<u> </u>
A	M	4	4	·	**			Sidita	Jane OF			LPUSHEN					
D.P. SIZE	WEIGHT	//	RADE	TOOL	Τ O.D.	TYPE THRE	AD STRING N	IO. PUMP I	NO.	7 Va	IP MANUFAC	TURPR	· [	TYPE	$\overline{}$	STROM	Œ
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	- 0.0			0	7.5			1		-1	200			50	$\dashv$	<u> </u>	
	***						-	2	<u> </u>			2		<u>5 0</u>	-	_/.5	**
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TIME	DISTRIBUTI	ON HOL	me.		DAII	LING ASS	EMBLY				<del> </del>						Γ
	Dia i Mauji	UN - NUL	JAS			(At end of to	ur)		BIT	RECORD			MUD A	ECORD			
NO.	ERATION	NIGHT	DAY	NO.	١	ITEM	LENGTH	BIT NO.				TIME					l
1. RIG UP	OWN		1		ВІТ			SIZE				WEIGHT					
2. DRILL A	CTUAL						W##	IADC COL	DE			PRESSURE GRADIENT			+		
3. REAMIN	IG							MANUFAC	CTURER			FUNNEL			+		l
4. CORING	<b>3</b> ,			-	<del> </del>	OD		TYPE				VISCOSITY	, ,	<del></del>	+	<del></del> _	
5. & CIRCL	ION MUD JLATE				ļ	OD		SERIAL N	0			PV/YP	/,	<u> </u>	$\bot$		ĺ
6. TRIPS						OD			0.			GEL STRENGTH					
7. LUBRICA	ATE RIG			1		OD		JETS				FLUID LOSS					
8. REPAIR	RIG	ļ ·	<u> </u>				·.·	TFA				рН			+		
9. CUT OF	F GLINE			1	<del> </del>	OD		DEPTH O	UT			SOLIDS	<u> </u>		+	-+	۱,
	ON SURVEY			╢─	ļ			DEPTH IN	1						+		
11. WIRE LII	NE LOGS	<del>                                     </del>		┨——	ļ			TOTAL DE	RILLED				MUD & CUEM	IOAL O ADDE	<u>_</u>		ailot Tuoin
	ING & CEMENT	1		1	STANE	DS D.P.		TOTAL HO	OURS			TYPE	MUD & CHEMI AMOUNT	TYPE		MOUNT	=
13. WAIT ON		4	<del> </del>	1	SINGL	ES D.P.		INNER	CUTTING	STRUCTURE	LOCATION	1					ĺ
14. NIPPLE			<del> </del>	1	KELLY	DOWN		INIVER	OUTEN	DOLL CHAR.	LOCATION						l
				╫┈	TOTAL			BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	-			+		
15. TEST B.			-	1	F STRING			- OLALO	unuL	CHAR.	FOLLED	-			_		
16. DRILL S	TEM TEST		<del> </del>	W1.0	FSIRING		1 0 1	<u> </u>			<u> </u>						
17. PLUG B/			ļ	REMA	RKS	For k	74+	: M.	1	nd	sau						ĺ
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B. TUI	BING TRIPS				BIT			SIZE				<del> </del>					
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ة <sub>F.</sub>						OD		TYPE				PV/YP	/	7		7	
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© 1995 Internati	onal Association of	Drilling Contra	actors	IAD	C - AF	PI OFFIC	AL DAILY	PRILLING	REPOR	T FORM		*					





СТ			UNTY	1 C	14		_	STATE/CO		4		WIRE L	INE REC	ORD	REEL NO.					
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DEVIATION RECORD	DEPTH  OG	REAM.R CORE.C	D		TVD	HC DI	DRIZ.	SPEEL	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	<b>6</b> P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION	DEPTH	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM DEVIATION RECORD	DEPTH  OG	DEV.	D	IR.	TVD	HC DI	DRIZ.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH  OG TO 1200  O(600)	DEV.	No.	IR.	TVD DETAI	HODE AS OF OP	PERATIO	DEPTH  DISTRIBUTIONS IN SEQUENCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	<b>\$.P.H.</b>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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IADC - API OFFICIAL DAILY DRILLING REPORT FORM





APPROVED

No. 3005895

3X/L FLUID LOSS 765.93 TFA рΗ JARS OD 29.00 DEPTH OUT SOLIDS 6"DC 237.38 DEPTH IN HOURS W/ CONTR. D.P. 586.98 HOURS W/ OPR. D.P. TOTAL DRILLED MUD & CHEMICALS ADDED HOURS WITHOUT D.P. AMOUNT TOTAL HOURS AMOUNT TYPE HOURS STANDBY SINGLES\_\_\_ D.P KELLY DOWN REASON PULLED TOTAL DULL WT. OF STRING

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TOTAL DAYWORK NO. OF DAYS CUMULATIVE ROTATING HOURS

DAILY MUD COST

TOTAL MUD COST



Pt.140,500

DN. 138,0



**APPROVED** 

DAY TOUR

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DEPTH IN	ITERVAL	DRILLD	CORE			RMATION		ROTARY TABLE SPEED	WT. ON	PUMP		P NO. 1	PUI	IP NO. 2	PUM	PNO.3 /	PUM	P NO. 4	TOTAL
FROM	то	COREC	NO.	(	SHOW C	ORE RECOV	ERY)	SPEED	BIT	PRESSURE	SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	TOTAL PUMP OUTPU
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DEPTH IN	TERVAL.	Spiles	CORE		St. 6 (10) 15	RMATION	<b>387</b>	ROTARY TABLE SABLE	wit on	PUMP	PUMP			IP NO. 2		PNO. 3		P NO. 4	TÓTAL PUMP
	TERVAL TO		CORE	•	St. 6 (10) 15		E <b>RY)</b>	ROTARY SPEED		PRESSURE	LINEA SIZE	S.P.M.	LINER SIZE	S.P.M.	PUMI LINER SIZE	PNO. 3 S.P.M.	PUMF LINER SIZE	PNO. 4	TOTAL PUMP OUTPUT
DEPTH IN	TERVAL.	Spiles	CORE		St. 6 (10) 15	RMATION	<b>ENY)</b>	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	LINER		LINER	1		T		T :	PUMP
DEPTH IN	TERVAL TO	Spiles	CORE	(8	St. 6 (10) 15	RMATION	EN)			PRESSURE	LINEA SIZE	S.P.M.	LINER SIZE	S.P.M.		T		T :	PUMP
DEPTH IN	TERVAL TO	Spiles	CORE		St. 6 (10) 15	RMATION BE RECOV				PRESSURE	LINEA SIZE	8.P.M.	LINER	S.P.M.		T		S.P.M	PUMP
DEPTH IN	TERVAL TO 4835	DRILL.D. REAM.R. COREC	NO.	IR.	St. 6 (10) 15	RMATION DRE RECOV				PRESSURE	LINEA SIZE	S.P.M.	LINER SIZE	S.P.M.		T	LINER	S.P.M	PUMP
DEPTH IN	TERVAL  TO  4835	DRILL D REAM R CORE C	NO.		SHOW CO	RMATION BE RECOV		65	35/40	400	LINER	\$.P.M. 3≤	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN FROM  #631  DEVIATION RECORD	TO 4835	DRILL.D REAM.R CORE.C	<b>NC</b>		SHOW CO	RMATION BE RECOV		65	35/40	400	LINER	\$.P.M. 3≤	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN	TO 4835	DRILL D REAM R CORE C	NO.		TVD	RMATION BE RECOV	Z	65 DEPTH	3540 DEV.	400 DIR.	LINER	\$.P.M. 3≤	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN FROM DEVIATION RECORD TIME FROM	TERVAL TO  4835  DEPTH 4800	DRILL D. REAM.R. COREC	NO.	IR. DE NO.	TVD	RMATION SRE RECOV	Z. D. SATIONS	65 DEPTH	3540 DEV.	400 DIR.	LINER	\$.P.M. 3≤	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN FROM DEVIATION RECORD TIME FROM	TO 4835  N DEPTH 4801	DRILL D. REAM.R. COREC	D COD	IR.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	LINER SIZE	S.P.M.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN FROM DEVIATION RECORD TIME FROM	TERVAL TO  4835  DEPTH 4800	DRILL D REAM R CORE.C	D COL	IR. DE NO.	TVD DETAI	RMATION SRE RECOV	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	LINER SIZE	S.P.M.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN FROM DEVIATION RECORD TIME FROM	TERVAL TO  4835  DEPTH 4800	DRILL.D. REAM.R. CORE.C.  DEV.  2.37  ELAPSEITIME	D COL	IR.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	LINER SIZE	S.P.M.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN FROM  DEVIATION RECORD  TIME FROM	TERVAL TO  4835  DEPTH 4800	DRULL D REAM R CORE.C  DEV.  DEV.  3.3  63/	D COL	IR. DE NO.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	TVD	S.P.M.  3-S  HORDIS	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN FROM DEVIATION RECORD TIME FROM	TERVAL TO  4835  DEPTH 4800	DRILL.D. REAM.R. CORE.C.  DEV.  2.37  ELAPSEITIME	D COD	IR. DE NO.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M. 37	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEPTH IN FROM DEVIATION RECORD TIME FROM	TERVAL TO 4835  N DEPTH 4600  1900 2245 0430 0515	DRILL D REAM R CORE.C  DEV.  23  ELAPSEI TIME  33  63  31	D COD	DE NO.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M. 37	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPU
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DEPTH IN FROM DEVIATION RECORD TIME FROM	TERVAL TO 4835  N DEPTH 4600  1900 2245 0430 0515	DRILL D REAM R CORE.C  DEV.  23  ELAPSEI TIME  33  63  31	D COD	DE NO.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M. 37	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEPTH IN FROM  DEVIATION RECORD  TIME FROM	TERVAL TO 4835  N DEPTH 4600  1900 2245 0430 0515	DRILL D REAM R CORE.C  DEV.  23  ELAPSEI TIME  33  63  31	D COD	DE NO.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M. 37	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPU
DEPTH IN FROM  #634  DEVIATION RECORD	TERVAL TO 4835  N DEPTH 4600  1900 2245 0430 0515	DRILL D REAM R CORE.C  DEV.  23  ELAPSEI TIME  33  63  31	D COD	DE NO.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M. 37	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH IN FROM  DEVIATION RECORD  TIME FROM	TERVAL TO 4835  N DEPTH 4600  1900 2245 0430 0515	DRILL D REAM R CORE.C  DEV.  23  ELAPSEI TIME  33  63  31	D COD	DE NO.	TVD DETAI	HORE RECOVE	Z. Z. RATIONS	DEPTH S IN SEQUI	3540 DEV.	PRESSURE 400 DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M. 37	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT

REPORT NO.

m. 111	, ~	rn i								1		
Middl.	t	1 * 1 <del>* 1</del>	1.4		21-16	CONTRACT			/			RIG N
SIGNATURE OF OPER	ha PATORIE S	A.				Yat	terson	•	LTI	-	·	104
SIGNATURE OF OPER	VIII		MATIVE			SIGNATURI	1/	OB'S TOOL	PUSHER			
D.P. SIZE WEIGH	if G	RADE	TOOL JT O.	D. TYPE THR	EAD STRING NO		roly PUM	P MANUFACT	MYSU.	7	TYPE	STROP
4/2 20.	0	Ε	6%	4 4%		1	7	dec	<u>•</u>	4.1	550	LENGI
				, , , ,		2		dec			550	15
											<u> </u>	1
TIME DISTRIBUT	rion – Hou	IRS		DRILLING ASS	[10] [10] 하는 어떤 작물은 얼마다		BIT RECORD			MUD F	ECORD	
CODE - OPERATION	NIGHT	DAY	NO.	(At end of b	LENGTH	BIT NO.			T1145	·	T	i interpretation
NO. PIG UP AND 1. TEAR DOWN			-	- 1	LENGIA	SIZE	8 73/4		TIME		<del> </del>	<i>)</i>
2. DRILL ACTUAL	12	103/	BI	83/11	1.00	IADC CODE	874		WEIGHT	10	gate!	
3. REAMING	+,0	1014		ISS	3. F. J.		[FD] 4		PRESSURE GRADIENT	no.	1 60	
4. CORING			1.	2735	947	MANUFACTUF	ER SMIT		FUNNEL VISCOSITY	<u>'</u>	<b>y</b> ,	<b></b>
5. & CIRCULATE			1 4	norebo	27.32		F35		PV/YP			
6. TRIPS				L8500	3.56	SERIAL NO.	m) 3100		GEL STRENGTH			
7. LUBRICATE RIG		1/2	la i	"Oc'50	245.93	JETS	3x/6	·	FLUID LOSS			
8. REPAIR RIG		7 44		Tax 300	30.00	TFA		·	рН			
9. DRILLING LINE			41	0' 50'	227.3	DEPTH OUT	.,		SOLIDS			
10. DEVIATION SURVEY		3/4		V DC	12310	DEPTH IN	4431					
11. WIRE LINE LOGS			ST ST	TANDS D.P.	4489	TOTAL DRILLE	ا ــــــــــــــــــــــــــــــــــــ				I IICALS ADDED	
12. RUN CASING & CEMENT			7	NGLES D.P.		TOTAL HOUSE	TING STRUCTURE	•	TYPE	AMOUNT	TYPE	AMOUNT
13. WAIT ON CEMENT			<del>                                     </del>		31.26	INNER OL		LOCATION	DAP	60		
14. NIPPLE UP B.O.P.			KE	ELLY DOWN	40,00		OTHER	DEASON	DEFOAM	2	ļ	
							1 O	REASON PULLED		İ		
15. TEST B.O.P.			то	OTAL	5148	BEARINGS/ SEALS G	AGE OTHER DULL CHAR.				- <del> </del>	
15. TEST B.O.P.  16. DRILL STEM TEST			WT. OF ST		5148	SEALS G.	CHAR.					
16. DRILL STEM TEST			<u> </u> L	TRING 14/2					Jak	le K	1/20	<u> </u>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT			WT. OF ST	TRING 14/2		Fo	rKlift			le K	a/se	<b>y</b>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING			WT. OF ST	TRING 14/2		Fo	rKlift			le K	1/50	<u>У</u>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK			WT. OF ST	TRING 14/2		Fo				le K	a/se	<u>У</u>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21.			WT. OF ST	TRING 14/2		Fo	rKlifi piler 1	= 2 hr:		le K	alse M	<u>у</u>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21.			WT. OF ST	IRING 14/2	ENTIAL	Fo	rKliff piler I			le K	a/se	<i>y</i>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22.			WT. OF ST	TRING 14/2	ENTIAL SEMBLY	Fo	rKlifi piler 1	= 2 hr:		7 B	A/Se	<b>y</b>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21.			WT. OF ST	IRING 14/2	ENTIAL SEMBLY	Fo	rKliff piler I	= 2 hr:		7 B	ŽĮ.	•
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING			WT. OF ST	PRILLING ASS (At end of to	EMBLY	Fo	PILLY J	= 2 hr:	S.	7 B	ŽĮ.	<b>y</b> .
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING			WT. OF ST	PRILLING ASS (At end of to	EMBLY OUT) LENGTH  1.00 5.29	Fo B.	DRI RECORD	= 2 hr:	TIME	7 B	ŽĮ.	<b>Y</b>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING			WT. OF ST	PRILLING ASS  (At end of to  ITEM  T 8344  Reamer  List hock Sap	2,000  SEMBLY our)  LENGTH  1.00  5.29  4,28	BIT NO. SIZE IADC CODE	DRI BIT RECORD	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL	7 B	ŽĮ.	<b>,</b>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING			WT. OF ST	PRILLING ASS (At end of to ITEM  Reamer IDS hock Sab JBS OD	2,000 SEMBLY our)  LENGTH  1.00  5.29  4.78  9.47  3.25	BIT NO. SIZE IADC CODE MANUFACTUR TYPE	DRI BIT RECORD  ER STC  F35	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT	7 B	ŽĮ.	<b>'</b>
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING			NO.	PRILLING ASS  (At end of to ITEM  T & 3/44  Reamer I BS hock Sab I BS OD  Mon e/ OD	2,000 SEMBLY our)  LENGTH  1.00  5.29  4.78  9.47  3.25  27.33	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO.	BIT RECORD  BIT STC  F35	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	7 B	ŽĮ.	•
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F.			WT. OF ST	PRILLING ASS (At end of to ITEM  T 8344  Reamer  T 835 Aoch 5-0  T 85 00	2,000 EMBLY our)  LENGTH  1.00 5.29 4.29 9.47 3.25 27.32 3.56	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS	DRI BIT RECORD  ER STC  F35	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	7 B	ŽĮ.	•
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.	12	/2	NO.	PRILLING ASS  (At end of to ITEM  T & 3/44  Reamer I BS hock Sab I BS OD  Mon e/ OD	2,000 EMBLY OUT)  LENGTH  1,00  5,29  4,28  9,47  3,35  27,33  3,56  265,93	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA	BIT RECORD  BR STC  F35  M3100	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	7 B	ŽĮ.	•
16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G.	IE SUMMARY		WT. OF ST	PRILLING ASS (At end of to ITEM  T & 3/4  Reamer Liss Asck Sass Tess on Man el on Liss on Liss on Liss on	2,000 EMBLY OUT)  LENGTH  1.00 5.29 4.28 9.47 3.25 27.33 3.56 265.93 29.00	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT	BIT RECORD  BR STC  F35  M3100	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	7 B	ŽĮ.	•
16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G. H.  TOTALS  DAYWORK TIM	IE SUMMARY		NO.   BI   1   2   4   4   4   4   4   4   4   4   4	PRILLING ASS  (At end of to  ITEM  Reamer  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask S	2,000 EMBLY our) LENGTH  1.00 5.29 4.28 9.47 3.25 27.32 3.56 265.93 29.00 237.38	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN	DRI RECORD  ER STC  F35  M33/4  SX16	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	7 B	ŽĮ.	<b>/</b>
16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G. H.  TOTALS  DAYWORK TIM (OFFICE US	IE SUMMARY		NO.   BI   1   1   1   1   1   1   1   1   1	PRILLING ASS (At end of to ITEM  T & 3/4  Reamer Liss Asck Sass Tess on Man el on Liss on Liss on Liss on	2,000 EMBLY OUT)  LENGTH  1.00 5.29 4.28 9.47 3.25 27.33 3.56 265.93 29.00	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN	DR BIT RECORD  S 344  ER STC  F 3.5  M 3 3/40  4/63/	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	MUD F	RECORD O	•
16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P.	IE SUMMARY		NO.   BI   1   2   9   6   1   1   2   1   1   2   1   1   2   1   1	PRILLING ASS  (At end of to  ITEM  Reamer  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask Sab  Ask S	2,000 EMBLY our) LENGTH  1.00 5.29 4.28 9.47 3.25 27.32 3.56 265.93 29.00 237.38	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN	DRI RECORD  ER STC  F35  M33160  3X16  4631  D 773	= 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	MUD F	ŽĮ.	AMOUNT
16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ OPR. D.P.	IE SUMMARY		NO.   BI   1   1   1   1   1   1   1   1   1	PRILLING ASS  (At end of to ITEM  T & 3/44  Reamer I SS  Abock Sab D  ZBS OD  Mon e/ OD  SS OD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD  SS SOD	2,000 EMBLY our) LENGTH  1.00 5.29 4.28 9.47 3.35 27.32 3.56 265.93 29.00 237.38 586.98	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS	DRI RECORD  ER STC  F35  M33160  3X16  4631  D 773	- 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	AICALS ADDED	
16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	IE SUMMARY		NO.	PRILLING ASS  (At end of to ITEM  I 83/4  Reamer I 83/4  Reamer I 83/4  Anck 5.00  I 83 00  Mon e/ 00  S 00  S 00  S 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00  ANDS 00	2,000 EMBLY OUT)  LENGTH  1,00 5,29 4,78 9,47 3,35 27,33 3,56 265,93 29,00 237,38 586,98 4770,2)	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS  CUT INNER OU	BIT RECORD  8 834 ER STC F35 M33160 3X16  110G STRUCTURE TIER DULL CHAR	LLE CO	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	AICALS ADDED	
16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	IE SUMMARY		NO.   BI   1   2   4   5   5   5   5   5   5   5   5   5	PRILLING ASS  (At end of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the l	2,000 EMBLY OUT)  LENGTH  1,00 5,29 4,78 9,47 3,35 27,33 3,56 265,93 29,00 237,38 586,98 4770,2)	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUT INNER OU BEARINGS/	BIT RECORD  8 834 ER STC F35 M33160 3X16  110G STRUCTURE TIER DULL CHAR	- 2 hr:	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	AICALS ADDED	
16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	IE SUMMARY		NO.   BI   1   2   4   5   5   5   5   5   5   5   5   5	JEILLING ASS (At end of to ITEM  T 83/4 Respective LOS AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND OD  SOD AND  SOD AND  SOD AND  SOD AND  SOD AND  SOD AND  SOD AND	2,000 EMBLY OUT)  LENGTH  1.00  5.29  4.28  9.42  3.25  27.33  3.56  265.93  29.00  232.38  586.98  4770.22  31.60  15-	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUT INNER OU BEARINGS/	BIT RECORD  8 834 ER STC F35 13180 3X16  14631 D 773 TING STRUCTURE ITER DULL CHAR	LLE CO	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEN	AICALS ADDED	
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16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. TOTALS  DAYWORK TIM (OFFICE US HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY	IE SUMMARY		NO.  NO.  BI  // 5  // 5  // 5  // ST  / SII  KE  TC  WT. OF ST	PRILLING ASS (At end of to ITEM  T 83/4/ Reamer (At end of to ITEM  T 83/4/ ROSS OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD	2,000 EMBLY OUT)  LENGTH  1,00  5,29  4,28  9,47  3,35  27,32  3,56  265,93  29,00  237,38  586,98  4770,2)  31,60  15-  5404,35	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUT INNER OU BEARINGS/	BIT RECORD  BIT RECORD  S S S S S S S S S S S S S S S S S S	LICCATION PULLED	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE Do P	MUD & CHEN AMOUNT 60sk	RECORD  AICALS ADDED  TYPE	
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16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21.  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.	IE SUMMARY		NO.  NO.  BI  // 5  // 5  // 5  // ST  / SII  KE  TC  WT. OF ST	PRILLING ASS (At end of to ITEM  T 83/4/ Reamer (At end of to ITEM  T 83/4/ ROSS OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD  T 85 OD	2,000 EMBLY OUT)  LENGTH  1,00  5,29  4,28  9,47  3,35  27,32  3,56  265,93  29,00  237,38  586,98  4770,2)  31,60  15-  5404,35	BIT NO. SIZE IADC CODE MANUFACTUR TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUT INNER OL BEARINGS/ SEALS G	BIT RECORD  S S S S S S S S S S S S S S S S S S	LICCATION PULLED	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE Do P	MUD & CHEN AMOUNT 60sk	RECORD  AICALS ADDED  TYPE	





	RICT		EMI	EK.I		STATE / C	COUNTRY	i	WIRE L	INE REC		REEL NO.					
	SIZE	MA		V EIGHT	NO. JOINTS	LENGTI	H RKB	TO SET AT	SIZE	1/8	NO. LI	NES/ D		LENGTH	SLIPPED		
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CASING TUBING OR LINER	, ,	120		<del>)</del>	100	- 7712	11	B 4413	WEAR O	R TRIPS			<u> </u>	<del></del>			·····
OH LINEH	-								SINCE LA	AST CUT							
									CUMULA WEAR O	TIVE R TRIPS							
DEPTH II	NTERVAL	DRILL.D	CORE		FORMATION		OTARY	el Ser	PUMP	NO. 1	PUN	IP NO. 2	PUM	P NO. 3	PUM	P NO. 4	TOTAL
FROM	то	REAMR COREC	NO.	(SHO	W CORE RECO	VERY)	TABLE "	PT. ON PUMP BIT PRESSURE	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
4835	5148	P		వ	habe	•	80 1	40 328	<del> </del>	47	5		SIZE		SIZE	VIII.	
				-					-			<del> </del>				-	<b>-</b>
DEVIATIO RECORI		<u> </u>		DIR.	TVD DIS		PTH I	DEV. DIR.	TVD	HOI	RIZ. SP.	DEPTH	DEV.	DIR.	. 1	TVD	HORIZ. DISP.
				• "													
FROM	LOG TO	ELAPSE TIME	D CO	DE NO. D	ETAILS OF OPE	ERATIONS IN	SEQUENC	CE AND REMARKS					·	l			
1645	1600	3/1	_	70.72	Surv Orlg	ey 511		/T BOP									
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Hele	Na Wyloka - 1	P 4	2011	2 7	ð Sec												
DEPTH IN	ITERVAL	DRILL.D REAM.R	CORE NO.		FORMATION		OTABLE W	T. ON PUMP BIT PRESSURE	PUMP	100		P NO. 2		NO. 3	,	8 NO. 4.	TOTAL PUMP
DEPTH IN	ITERVAL TO	DRILL.D REAM.R COREC	CORE	(SHO)	FORMATION V CORE RECOV		PEED	BIT PRESSURE	LINER SIZE	NO.1	PUM LINER SIZE	PNO. 2	PUMI LINER SIZE	NO.3	PUM LINER SIZE	NO. 4.	OUTPUT
DEPTH IN	ITERVAL	DRILL.D REAM.R	CORE	(SHO)	FORMATION					100	LINER	T		1.4.	,		rotal Puap output /99
DEPTH IN	ITERVAL TO	DRILL.D REAM.R COREC	CORE	(SHO)	FORMATION V CORE RECOV			BIT PRESSURE	LINER SIZE	S.P.M.	LINER	T		1.4.	,		OUTPUT
DEPTH IN	ITERVAL TO	DRILL.D REAM.R COREC	CORE	(SHO)	FORMATION V CORE RECOV	/ERY)		BIT PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	T		1.4.	,		OUTPUT
DEPTH IN FROM	TO 5404	DRILL D REAM.R CORE.C	CORE NO.	(840)	FORMATION V CORE RECOV	PERY)	80	BIT PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	T		1.4.	LINER		OUTPUT
DEPTH IN	10 5 40 4	DRILL D REAM.R CORE.C	CORE NO.	(840)	FORMATION W CORE RECOV	PERY)	80	PRESSURE	LINER SIZE	\$.P.M.	LINER SIZE	S.P.M.	LINER	sem.	LINER	S.P.M.	199
DEPTH IN FROM SI48 DEVIATION RECORD	10 10 10 10 10 10 10 10 10 10 10 10 10 1	DRILL D REAM.R CORE.C	CORE NO.	(840)	FORMATION W CORE RECOV	PERY)	80	PRESSURE	LINER SIZE	\$.P.M.	LINER SIZE	S.P.M.	LINER	sem.	LINER	S.P.M.	199
DEPTH IN FROM SI48 DEVIATION RECORD	10 10 10 10 10 10 10 10 10 10 10 10 10 1	DRILL D REAM.R CORE.C	CORE NO.	(SHO)	FORMATION N CORE RECOV	RIZ. DEP	тн в	PRESSURE	LINER SIZE	\$.P.M.	LINER SIZE	S.P.M.	LINER	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	RIZ. DEP	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	\$.P.M.	LINER SIZE	S.P.M.	LINER	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 10 10 10 10 10 10 10 10 10 10 10 10 1	DRILL D REAM R COREC	CORE NO.	(SHO)	TVD HOPE	RIZ. DEP	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	\$.P.M.	LINER SIZE	S.P.M.	LINER	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	RIZ. DEP	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	\$.P.M.	LINER SIZE	S.P.M.	LINER	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	RIZ. DEP	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERATIONS IN	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  S/48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERATIONS IN	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	/99 HORIZ.
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERATIONS IN	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	/99 HORIZ.
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERATIONS IN	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERATIONS IN	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	RIZ. DEP	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	RIZ. DEP	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	RIZ. DEP	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERATIONS IN	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERATIONS IN	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  SI48  DEVIATION RECORD  TIME FROM	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERATIONS IN	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199
DEPTH IN FROM  5148  DEVIATION RECORD	10 5 40 4  DEPT  LOG  TO	DRILL D REAM R COREC  DEV.	CORE NO.	(sHO)	TVD HOPE	PERNY)  RIZ. DEP  CRATIONS IN  CASE OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL	80 TH D	PRESSURE YO 300 DEV. DIR. E AND REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	sem.	LINER	S.P.M.	199

APPROVED PRINTED IN U.S.A.

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	SIZE	MA		WEIG & GRA		NO. DINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	11/8	NO. L	INES / D		LENGTH	SLIPPED		
LAST CASING	95/8	151	16	36	1. Se 10. F	DO	4417	16	4413	LENGTH	CUT OFF	<u> </u>	70	PRESE	I NT LENGTH	ī		
TUBING OR LINER				30					-(11)	WEAR OF	RTRIPS			1		<u></u>		
	1									CUMULA	TIVE							
DEPTH INT	TERVAL									WEAR OF			MP NO. 2	T	P NO. 3	T 9000	200	<del></del>
FROM	†O	DRILLD REAMR COREC	CORE NO.	(SI	FORM/ HOW CORE		POT TAI TAI SPI	AAY ILE WI.ON BIT	PUMP PRESSURE	LINER	S.P.M.	LINE	1 000	LINER	S.P.M.	LINER	NO. 4	TOTAL PUMP OUTPUT
	5610	D		-	Sha	) <u> </u>	8			SIZE	120.44	SIZE	G.F.M.	SIZE	S.F.M.	SIZE	S.P.M.	COIFOI
J 10 1	3-10				7790	140	0	74	250	<u> </u>	48	5	+					
									<u>+</u> ,									
***	DEPTH			OIR.	TVĐ	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HOF	RIZ.	DEPTH	DEV.	DIR.	т	VD OV	HORIZ. DISP.
DEVIATION RECORD	55	14 23	4														T	•
TIME																		
FROM TIME L	TO	ELAPSE TIME	D CO	DE NO.	DETAILS (	OF OPERA	ATIONS IN SE	QUENCE ANI	REMARKS									_
600	1530	9%	/2	2	Dr	19.	F/54	104 -	5580	0								
1530	1615	3/0		10	Su	rve	ei.					~~						
1615	1730	·		2	De	1-	7/6	- 5/ -	561	<u> </u>								
1730	1800	1/2		7	0	<del>/9</del>	7/ 33	-86-	3 W/C	<del>,</del>						. ,,,,,,,		
1720	1000				7 7 0	٠ ٧٠	ervic	د	ACC_	A P	e Y	2 a	ms g	An	pu/c	\ <u></u>		
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DEPTH INT																	de .	
	ERVAL	DRILL.D		drit, ei	FORM	- A	T - Dar			PUMP	NO. 1	PUI	IP NO. 2	PUMP	NO. 3	PUMP	NÓ. 4	
FROM	ERVAL 10	DRILLD REAMR COREC	CORE NO.	(8Н	FORMA OW CORE		HOT/ TAB Y) SPE	URY LE WT. ON ED BIT	PUMP PRESSURE	- 1	NO. 1.	Anto-US TV		LINER	NO. 3 S.P.M.	LINER	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
		REAM.R	CORE NO.	in a second	OW CORE	RECOVER			PRESSURE	LINER SIZE	S.P.M.	PUI LINEF SIZE						PUMP OUTPUT
	10	REAM.R COREC	CORE NO.	in a second	to the first of the second	RECOVER	Most TAB SPE		PUMP PRESSURE	- 1		Anto-US TV		LINER		LINER		PUMP
	10	REAM.R COREC	CORE NO.	in a second	OW CORE	RÉCOVER			PRESSURE	LINER SIZE	S.P.M.	Anto-US TV		LINER		LINER		PUMP OUTPUT
S610 ;	10 5>48 DEPTH	REAM.R COREC	NO.	in a second	OW CORE	RECOVER			PRESSURE	LINER SIZE	S.P.M.	LINEF SIZE		LINER		LINER	S.P.M.	PUMP OUTPUT
	10 5>48 DEPTH	REAM.R COREC	NO.	3	Ma)	RÉCOVER	8	0 40	350	LINEA SIZE	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
SEID;	10 5>48 DEPTH	DEV.	NO.	3	Ma)	RÉCOVER	8	0 40	350	LINEA SIZE	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
SEID;	10 5 ) 4 8 DEPTH	DEV.	NO.	S DIR.	TVD	HORIZ. DISP.	ДЕРТН	0 40	3SD DIR.	LINEA SIZE	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 > 4 & DEPTH	DEV.	D COL	SIR.	TVD DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	SIR.	TVD DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	SIR.	TVD DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD  DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD  DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD  DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD  DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD  DETAILS C	HORIZ. DISP.	DEPTH TIONS IN SE	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINEF SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD  DETAILS C	HORIZ, DISP.	DEPTH TIONS IN SE  1561	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	8.P.M. 48	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD  DETAILS C  Dr./  T 15  R. /2	HORIZ, DISP.	DEPTH TIONS IN SE  1561	DEV.	350 DIR.  REMARKS	LINER SIZE  S  TVD	S.P.M.  4/8  HOR DIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COL	DE NO.	TVD  DETAILS C  Dr. 1.5  R. 1.5  R. 1.5	HORIZ. DISP.	DEPTH TIONS IN SE  1561	DEV.	DIR.  REMARKS  48	TVD	S.P.M. 4/8	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	10 5 ) 4 8 DEPTH	DEV.	D COD	DE NO.	TVD  DETAILS C  Dr. 1.5  R. 1.5  R. 1.5	HORIZ. DISP.	DEPTH TIONS IN SE  1561	DEV.	DIR.  REMARKS  48	TVD	S.P.M. 4/8	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	203
DEVIATION RECORD	DEPTH  OG TO  6:00	DEV.	D COD	DE NO.	TVD  DETAILS C  Dr. 1.5  R. 1.5  R. 1.5	HORIZ, DISP.	DEPTH TIONS IN SE  1561	DEV.  DEV.  DEV.  DEV.  DAILY DRI	DIR.  REMARKS  48	TVD	S.P.M.  4/8  HOR DIS	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT  ZO 3  HORIZ. DISP.

	·					WELL MA	ABITA	7 1 111	DÉD	· /	R				_
LEASE	n. 1.	110	<b>-</b>	m,	•	WELL NO. 21~/(		LL NUM	REH			WATER	DEPTH	DATI	
OPERATOR	119	110		117	·/١,	_ X/-/C	CONTR	ACTOR			<del></del>	1			3-0, i no.
For SIGNATURE	tun	a					Ya	4	CONTRACT	, U	TI			10	4
SIGNATURE	OF OPERA	TOPIS PI	EPRESEN	ITATIVE			SIGNAT	TURE OF	CONTRACT	OR'S TOOL	PUSHER	1			
D.P. SIZE	WEIGHT	OF	ADE	TOOL ST	TYPE THR	EAD STRING NO	PUMP N	10.	PUM PUM	P MANUFACT	ruper		TYPE	STF	ROKE
24/2	20,			6%			,		Ide			4	550		NGTH 5
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TIME D	NSTRIBUTIO	N – HOU	RS		DRILLING ASS (At end of t			BIT	RECORD			MUD RI	ECORD		
CODE - OPER	RATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.		8	9	TIME				
1. RIG UP AN		9			віт 8 3/4	1.00	SIZE	***	834	8 3/4	WEIGHT		. (	<b>\</b>	-
2. DRILL ACT	TUAL		3	1	Reamer	3.29	IADC COD	E		TII	PRESSURE GRADIENT		a ec	1	
3. REAMING				1/	JHOLD SU	4.28	MANUFAC	TURER	STC	Hughe	FUNNEL VISCOSITY	1243	DOJEY Joseph	<u> </u>	-1
4. CORING				[7]	TBSOD		TYPE		F35	GTS20	VISCOSITY	170	)~	1 /	-
5. & CIRCUL	N MUD ATE	2	1 1		moneloo	1	SERIAL NO	0. <b>m</b>	T3100	502136	GEL STRENGTH	<del>- //</del>	<del>                                     </del>	<del>  /,</del>	-
6. TRIPS			51/2	M: !	IBS 00		JETS	1	3×16	34/6	STRENGTH	<del>                                     </del>	/_	<del>                                     </del>	_
7. LUBRICAT	TE RIG		1/2	9	6" DC'SDD	265,93	TFA		.589	,589	LOSS				_
8. REPAIR RI				1	Jarson	79.00	DEPTH OL	JT		1-3-4-[	pH				
9. CUT OFF DRILLING	LINE			Ð	6"0c's	237.38	DEPTH IN	· .	5768	5768	SOLIDS				_ <b> </b>
10. DEVIATION					BHA	586.98	TOTAL DR	RILLED		153					NIGHT TOUR
11. WIRE LINE				56	STANDS D.P.	5241	TOTAL HO	JAS/4	1137 5314	<u> 153</u> 5	TYPE	MUD & CHEM AMOUNT	CALS ADDED	AMOUN	
12. RUN CASINO				×χ	SINGLESD.P.		INNER	CUTTING	STRUCTURE		DAP	75skx			
13. WAIT ON C					KELLY DOWN	30,00	INNEH	OUTER	DULL CHAR.	LOCATION	Baracat	11 .			
15. TEST B.O.					TOTAL	5921	BEARINGS/ SEALS	GAGE	OTHER DULL	REASON PULLED	١,				1
16. DRILL STE				WT. OF	STRING 15				CHAR.		ez-Mud	J-6K	1,000	1	
17. PLUG BAC					, , ,	×,000	1				<u> </u>	<u> </u>	İ	<u></u>	_
				104			-			1	<i>1</i> .				90
18. SQUEEZE	CEMENT			REMAF	KS		For	Kli	$c_4 = F_1$	rank	Rich	1NS	<del></del>		1
18. SQUEEZE 19. FISHING	CEMENT			REMAR		31	Fo.	rKlif	C4 = F1	rank	Rich	1N 5		:	
19. FISHING				REMAF		INFNTI	- Fo Bo N	rklid	cy = F1	rank	Rich	·N 5			
· · · · · · · · · · · · · · · · · · ·				REMAF	CONF	IDENTI	Bo	1/21	C4 = F1	rank	Rich	<i>'NS</i>	<i>-</i>		
19. FISHING 20. DIR. WOR				REMAF		IDENTI	B.	r Klid		rank or 8	Den				
19. FISHING 20. DIR. WORK 21.				REMAF	CONF DRILLING ASS		B.						ECORD		
19. FISHING 20. DIR. WORK 21. 22. 23.					CONF  DRILLING ASS  (At end of the	our)	AL		DRI		Zen	n.F	ECORD		
19. FISHING 20. DIR. WORI 21. 22. 23. A. PERF	К			NO.	DRILLING ASS (At end of f	our) LENGTH	BIT NO.		DRI RECORD		TIME	n.F	ECORD		
19. FISHING 20. DIR. WORI 21. 22. 23. A. PERF B. TUBII	FORATING NG TRIPS				DRILLING ASS (At end of the litem) BIT & 3/4 Reamer	LENGTH	BIT NO. SIZE	BIT	DRI		TIME WEIGHT	n.F	7		
19. FISHING 20. DIR. WORI 21. 22. 23. A. PERF B. TUBII	FORATING NG TRIPS ATING				DRILLING ASS (At end of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	OUP)  LENGTH  // ひひ  - 5: 29 - 4, 28	BIT NO. SIZE IADC COD	en en	RECORD 9		TIME WEIGHT PRESSURE GRADIENT	n.F	ECOAD		
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST	FORATING ING TRIPS ATING IBBING				DRILLING ASS (At end of the litem) BIT & 3/4 Reamer	LENGTH  /, 0 0  5: 29	BIT NO. SIZE IADC COD	en en	PRECORD  9  8 34  HTC		TIME WEIGHT PRESSURE	n.F	7		
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST F.	FORATING ING TRIPS ATING IBBING				DRILLING ASS (At end of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	LENGTH  /, 0 0  5.29 4, 28 9, 47 3.75	BIT NO. SIZE IADC COD MANUFAC TYPE	BIT	PRECORD  PRECORD  PRECORD  PRECORD  HTC  GTS20		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	n.F	7		
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST F. G.	FORATING ING TRIPS ATING IBBING				DRILLING ASS (At end of s) ITEM BIT & 3/4 REAGE FIGS Shock Sup D LISS OD	LENGTH  /, 0 0  5. 29 4, 28 9, 47 3. 25 2).37	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO	BIT	PRECORD  9  834  HTC  GTS20  Z1367		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	n.F	7		
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST F. G. H.	FORATING ING TRIPS ATING IBBING		.2		DRILLING ASS (At end of f)  ITEM  BIT & 3/4  Reance  I-35  Shack Sub  I-35 OD  Midne (OD	LENGTH  /, 0 0  5. 29 4, 28 9, 47 3. 25 2).37	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS	BIT	PRECORD  9  834  HTC  67520  21367  3x16		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	n.F	7		
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST F. G. H. TOTALS	FORATING NG TRIPS ATING BBING	/2_SUMMARY	12	No. / /// / / / / / / / / / / / / / / / /	DRILLING ASS (At end of s) ITEM BIT & 3/4 RESTS STOCK ST. D INS. OD MISKE OD IBS OD	LENGTH  /, 0 0  5. 29 4, 28 9, 47 3. 25 2).37 3.56 765.93	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA	BIT DE ETURER	PRECORD  9  834  HTC  GTS20  Z1367		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	n.F	7		
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST F. G. H.  TOTALS	FORATING NG TRIPS ATING BBING FING FORATING WWORK TIME (OFFICE USE	J2 SUMMARY ONLY)		NO. ////////////////////////////////////	DRILLING ASS (At end of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	LENGTH  /, 0 0  5. 29 4, 28 9. 47 3. 25 2). 3 7  765. 93 29,00	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL	BIT DE ETURER	PRECORD  9  8 34  HTC  67520  21367  3x16  ,549		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	n.F	7		
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST F. G. H.  TOTALS  DAY	FORATING NG TRIPS ATING BBING FING FING FING FING FING FING FING F	/2_SUMMARY		No. / /// / / / / / / / / / / / / / / / /	DRILLING ASS (At end of s) ITEM  BIT & 3/4 REAL ST. I BS OD MDRE OD I BS OD  G"DCS OD  Jais od  G"DCS OD  G"DCS	LENGTH  /, 0 0  5. 29 4, 28 9, 47 3.75 2).37 3.56 765,93 29,00 237.38	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN	BIT DE STURER D. SE	PRECORD  9  834  1170  67520  21367  3x16  ,549		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	n.F	7		Y TOUR
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST F. G. H.  TOTALS  DAY HOURS W/ CO	FORATING NG TRIPS ATING BBING FING FING FING FING FING FING FING F	J2_ SUMMARY ONLY)		No. / //, / / / / / / / / / / / / / / / /	DRILLING ASS (At end of s) ITEM  BIT & 3/4 REAL ST. I B.S. Shock St. D. I B.S. OD  MDRE OD  I B.S. OD  G" D C.S. BHA	LENGTH  /, 0 0  5. 29 4, 28 9, 47 3. 25 2).37 3.56 765.93 29,00 237.38 586.98	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR	BIT DE ETURER D. SC	PRECORD  9  8 34  HTC  67520  21367  3x16  ,549  5768  506		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD R	Led W/		
19. FISHING 20. DIR. WORI 21. 22. 23.  A. PERF B. TUBII C. TREA D. SWAI E. TEST F. G. H.  TOTALS  DAY HOURS W/ CO HOURS W/ OP	FORATING NG TRIPS ATING BBING FING FING FING FING FING FING FING F	J2 SUMMARY ONLY)		NO. ////////////////////////////////////	DRILLING ASS (At end of form)  ITEM  BIT & 3/4 Reconcer I BS Shock Sub I BS OD  MINE OD  G"OCS OD  G"OCS BHA  STANDS _ D.P.	LENGTH  1,00  5,29 4,28 9,47 3,75 2),37 3,56 765,93 29,00 237,38 586,98	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN	BIT DE STURER D. SC	PRECORD  9 -8349 -170 67520 21367 3x16 ,549 5768 5768	LLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD RI	CALS ADDEC	AMOUN	
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CODE - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.	T	9	<u></u>	TIME			
1. RIG UP AND 1. TEAR DOWN			<b> </b>	BIT 8 3/4	_	SIZE		83/4		WEIGHT			
2. DRILL ACTUAL	6	10		12 ecumen	5.29	IADC CODE	:	8 - 3 - 4				عام	
3. REAMING		,0	<u> </u>	IBS	4.28					PRESSURE GRADIENT		EATO	
4. CORING				IB500	3,75	MANUFACT	_	HTC		FUNNEL VISCOSITY	DEP	7	<b>,</b>
5. & CIRCULATE	6	,		MONED	27.32	TYPE	_	520		PV/YP	'/ (	7	
6. TRIPS	V		//	IBS OD	3.56	SERIAL NO	50	21367		GEL STRENGTH			
7. LUBRICATE RIG		1/2	9	6" DC'60		JETS		3×16		FLUID LOSS		-	
8. REPAIR RIG		10	<b> </b>			TFA		,589		pH			
9. CUT OFF 9. DRILLING LINE				Jay 300		DEPTH OU				SOLIDS			
10. DEVIATION SURVEY		1/2	8	6"DC'3		DEPTH IN		5768		302103	:		
11. WIRE LINE LOGS		, ,		BHA	577.51	TOTAL DRI	LLED	909			MUD & CHEMI	CALS ADDED	
12. RUN CASING & CEMENT			65	STANDS D.P.	1800	TOTAL	ĴŔŚ	24		TYPE	AMOUNT	TYPE	AMOUNT
13. WAIT ON CEMENT				SINGLES D.P.		INNER	CUTTING OUTER	STRUCTURE DULL CHAR.	LOCATION	DaP	75		
14. NIPPLE UP B.O.P.				KELLY DOWN	19.00					Baracat	15 gal		
15. TEST B.O.P.	· ·			TOTAL	4677	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	EZ-MVD	15 gal		
16. DRILL STEM TEST			WT. OF	STRING 11	8,000			CHAH.		Baradeloon			
	1		₩	14	0,000	1 1				Det and CHEST	, ip q oci		
17. PLUG BACK	<b>₹</b>								1.	0 .	•		1
	***		REMAR	KS	<u> </u>	SVK1/		= Fra	n K	Rich	وها		
18. SQUEEZE CEMENT			REMAR	KS	= {	Soule.		= Fra 2 hr	.r.  ∠ -s	Rich	201	· · · · · · · · · · · · · · · · · ·	
18. SQUEEZE CEMENT 19. FISHING			REMAR	rs CONFI	E DENTIA		· /	= Fra 2 hr	n K -s	Rich	105		
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK				CONFI	E DENTIA		· 1	= Fra 2 hr	n K - S	Rich		1	
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. UNLOW Hole				CONFI	DENTIA			= Fra 2 hr	- \$	Rich	n L		
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. Uplood file 22.				CONFI	DENTIA SEMBLY			2 hr	- \$	Rich	n.L	FERR	
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. Uplood file 22.		1		CONFI	DENTIA SEMBLY	So, I &		2 br	-5	Rich	MUD RI	ECORD	
22.		ŀ		CONFI	DENTIA SEMBLY			DRIL PRECORD.	-5	R.ch	n.L		
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Unload flate  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING	***	1	NO.	CONFI  DRILLING ASS (At end of t	DENTIA SEMBLY (our)	So, I &		2 br	-5	Jung	MUD RI	2e0	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Unload fire  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING		ŀ	NO.	DRILLING ASS (At end of to	BEMBLY IOUR)  LENGTH  J.OC 5.29	BIT NO. SIZE IADC CODE	BITT	DRIL PRECORD.	-5	TIME	MUD RI		
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Unload fire  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING			NO.	DRILLING ASS (At end of to	SEMBLY our)  LENGTH  J.OC S. 29 4. 28 9. 47	BIT NO. SIZE IADC CODE	BITT	DRIL PRECORD.	-5	TIME WEIGHT PRESSURE	MUD RI	2e0	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Un lood flate  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING			No. 1//1	DRILLING ASS (At end of to ITEM BIT 8 144 Rear ef T33 Sherk 24	SEMBLY OUT)  LENGTH  J.OC S. 29 4, 28 9, 47 3, 25	BIT NO. SIZE IADC CODE MANUFACT TYPE	BIT	DAIL RECORD  9 83/4	-5	TIME WEIGHT PRESSURE GRADIENT FUNNEL	MUD RI	2e0	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Unload fire  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING			NO.	DRILLING ASSE (At end of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st	DENTIA   DENTIA   SEMBLY   OUT)   LENGTH   J.O.C.   S. Z.9   4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	BIT NO. SIZE IADC CODE MANUFACT TYPE	BIT	DRIL  PRECORD.  9  8 <sup>3</sup> / <sub>4</sub> HTC  520	-5	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	MUD RI	2e0	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Work  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.			No. ///	DRILLING ASSE (At end of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st	SEMBLY (our)  LENGTH  J.OC  S. 29  4. 28  9.47  3.75  27,32	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS	BIT	PRIL PRECORD  9 83/4  HTC 520 21367	-5	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	MUD RI	2e0	
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. CLA COA HAR 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.	17.	12	No. 1//1	DRILLING ASSE (At end of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st	SEMBLY (OUT)  LENGTH  J.OC 5. 29 4. 28 9. 47 3. 25 27, 32	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS	BIT	PRIL PRECORD.  9 83/4  HTC 520 21367 3x16	-5	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	MUD RI	2e0	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Un low flow  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIME	/Z	12	NO.   //   //   /   /	DRILLING ASSE (At end of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the l	SEMBLY (our)  LENGTH  J.OC  S. 29  4. 28  9.47  3.25  2>,32  3.54  7.65.93	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA	BIT I	PRIL PRECORD  9 83/4  HTC 520 21367	-5	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	MUD RI	2e0	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. CLA CO A Hale  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIME (OFFICE USE	SUMMARY		NO.   //,   //,   / ,   9   ,	DRILLING ASS (At end of to ITEM  BIT 8 3/4 Reamer TISS MIN E 60 MIN E 60 TISS OD	SEMBLY (OUT)  LENGTH  J.O.C. 5.29 4.28 9.47 3.25 22,32 3.54 7.65.93	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU	BIT I	PRIL PRECORD  9 83/4  HTC 520 21367 3x16 .587	-5	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	MUD RI	2e0	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. LINGO HER  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G. H.  TOTALS  DAYWORK TIME (OFFICE USE	SUMMARY		NO.   //,   //,   / ,   9   ,	DRILLING ASSE (At end of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st	SEMBLY (OUT)  LENGTH  J.OC  5. 29  4. 28  9. 47  2. 3. 54  7.65.93  29.00  23.38	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN	BIT I	PRIL PRECORD.  9 83/4  HTC 520 21367 3x16	-5	TIME  WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH	MUD RI	2e0	
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. LA COO HE  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIME (OFFICE USE  HOURS W/ CONTR. D.P.	SUMMARY		NO. 1//, 1//, 1//, 1//, 1//, 1//, 1//, 1//	DRILLING ASS (At end of to ITEM  BIT 83/4/ Rearres INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD INS OD	SEMBLY (our)  LENGTH  1.00  5.29  4.29  4.29  4.29  2.32  3.54  765.93  29.00  23.38  586.98	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI	BIT I	2 \\ \( \) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-5	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PVYP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD RI	CALS ADDED	J AMOUNT
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. LA LOW HE  22.  23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIME (OFFICE USE  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	SUMMARY		NO.   //,   //,   / ,   9   ,	DRILLING ASSE (At end of to ITEM  BIT 8 3/4 REAR EF ITSS MIN 6/0 MIN 6/0 ITSS OD 6'DC3 OD 4'DC3 DHA	SEMBLY (OUT)  LENGTH  J.O.C. 5.29 4.28 9.47 3.75 27.32 3.54 7.65.93 29.00 237.38 586.98 6.268.44	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI	BIT I	2- WS  DRILL  RECORD  9 83/4  HTC 520 21367 3x16 .587  5768  1174 30 ISTRUCTURE	LEF	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PVYP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD RI		AMOUNT
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. LIN LOW HIE  22.  23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIME (OFFICE USE  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	SUMMARY		NO.	DRILLING ASS (At end of to ITEM  BIT 8 44  REAR STANDS OD  STANDS D.P.  SINGLES D.P.	SEMBLY (OUT)  LENGTH  1.00  5.29  4.28  9.43  2.32  3.56  765.93  29.00  232.38  586.98  62.87	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI	BIT I	2 hs  PRIL  PRECORD  9 83/4  HTC 520 21367 3x16 .589  1174 30	-5	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE Dap	MUD & CHEM AMOUNT 75 \$85	CALS ADDED	AMOUNT
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. LUNCOWN HAR  22.  23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIME (OFFICE USE  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	SUMMARY		NO.	DRILLING ASS (At end of to ITEM  BIT 8 344  REAL STANDS OD  C'DC'S OD  C'DC'S  BHA  STANDS D.P.  SINGLES D.P.  KELLY DOWN	SEMBLY OUT)  LENGTH  J.OC 5. 29 4. 28 9. 47 3.7.5 27.32 3.54 765.93 29.00 237.38 586.98 62.87 24 —	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T LLED URS CUTTING OUTER	DRIL  RECORD  9 83/4  HTC 520 21367 3x16 .587  5768 1174 350 ESTRUCTURE DUIL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE Dap Bail(a)	MUD & CHEM AMOUNT 75 \$85	CALS ADDED	AMOUNT
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. LIN LOW HIE  22.  23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIME (OFFICE USE  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	SUMMARY		No.   //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //	DRILLING ASS (At end of to ITEM  BIT 8 3/4/ Reamer INS OD  MIND E 6D  INS OD  G'DCS OD  G'DCS OD  G'DCS DHA  STANDS D.P.  KELLY DOWN  TOTAL	SEMBLY OUT)  LENGTH  J.OC  S. 29  4. 28  9. 47  3.7.5  27.32  3.54  765.93  29.00  237.38  586.98  (268.44  62.87  24 —  6942.31	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI	BIT I	2- WS  DRILL  RECORD  9 83/4  HTC 520 21367 3x16 .587  5768  1174 30 ISTRUCTURE	LEF	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE Dap	MUD & CHEM AMOUNT 75 \$85	CALS ADDED	AMOUNT
18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. LIN LOW HIE  22.  23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  TOTALS  DAYWORK TIME (OFFICE USE  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	SUMMARY		No.   //   //   //   //   //   //   //	DRILLING ASS (At end of to ITEM  BIT 8 3/4/ RCATES  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO	SEMBLY (OUT)  LENGTH  J.DC  S. 29  4. 28  9. 47  3.75  27,32  3.54  765.93  29.00  237,38  586.98  (268.44  62.87  24 —  6942,31	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL INNER BEARINGS/ SEALS	T LLED URS CUTTING OUTER	DRIL  RECORD  9 83/4  HTC 520 21367 3x16 .587  5768 1174 350 ESTRUCTURE DUIL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE Dap Bail(a)	MUD RI  MUD & CHEM  AMOUNT  75 \$K\$  15 ga \  5 ga \	CALS ADDED TYPE	
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. CLA CO A HE 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. TOTALS  DAYWORK TIME (OFFICE USE HOURS W/ CONTR. D.P. HOURS WITHOUT D.P. HOURS STANDBY	SUMMARY		No.   //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //	DRILLING ASS (At end of to ITEM  BIT 8 3/4/ RCATES  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO	SEMBLY OUT)  LENGTH  J.OC  S. 29  4. 28  9. 47  3.7.5  27.32  3.54  765.93  29.00  237.38  586.98  (268.44  62.87  24 —  6942.31	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T LLED URS CUTTING OUTER	DRIL  RECORD  9 83/4  HTC 520 21367 3x16 .587  5768 1174 350 ESTRUCTURE DUIL CHAR.	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE Dap Bail(a)	MUD RI  MUD & CHEM  AMOUNT  75 \$K\$  15 ga \  5 ga \	CALS ADDED	
18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. CLA GOOD HOLE 22. 23.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. TOTALS  DAYWORK TIME (OFFICE USE HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY	SUMMARY		No.   //   //   //   //   //   //   //	DRILLING ASS (At end of to ITEM  BIT 8 3/4/ RCATES  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO	SEMBLY (OUT)  LENGTH  J.DC  S. 29  4. 28  9. 47  3.75  27,32  3.54  765.93  29.00  237,38  586.98  (268.44  62.87  24 —  6942,31	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL INNER BEARINGS/ SEALS	T LLED URS CUTTING OUTER	DRIL  RECORD  9 83/4  HTC 520 21367 3x16 .587  5768 1174 350 ESTRUCTURE DUIL CHAR.	LOCATION PULLED	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE Dap Bail(a)	MUD RI  MUD & CHEM  AMOUNT  75 \$K\$  15 ga \  5 ga \	CALS ADDED TYPE	
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18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. LA LOO HE  22.  23.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIME (OFFICE USE  HOURS W/ CONTR. D.P.  HOURS WITHOUT D.P.  HOURS STANDBY  TOTAL DAYWORK  NO. OF DAY'S FROM SPUD	SUMMARY		NO.  /// // / /  /  /   WT. OF REMAR ACC	DRILLING ASS (At end of to ITEM  BIT 8 3/4/ RCATES  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO OD  INSO	SEMBLY (OUT)  LENGTH  J.DC  S. 29  4. 28  9. 47  3.75  27,32  3.54  765.93  29.00  237,38  586.98  (268.44  62.87  24 —  6942,31	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL INNER BEARINGS/ SEALS	T LLED URS CUTTING OUTER	DRIL  RECORD  9 83/4  HTC 520 21367 3x16 .587  5768 1174 350 ESTRUCTURE DUIL CHAR.	LOCATION PULLED	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PVYP GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE DAP BANGA E2-1Nd	MUD RI  MUD & CHEM  AMOUNT  75 \$K\$  15 ga \  5 ga \	CALS ADDED TYPE	

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DEVIATION RECORD  TIME FROM / KDO 2000 2330	DEPTH N DEPTH 2000 2330 2430 300	DEV.	D COD	IR.  DE NO.  2  5  2	TVD  DETAILS  Dr	HORIZ DISP.	ATIONS IN	SEQUE SEQUE	DEV.  DEV.  Re  GO 9	PRESSURE 430 DIR.  REMARKS 261 SETJE	LINER SIZE 5"	S.P.M.  GD  HOR DIS	LINER SIZE	S.P.M. GO DEPTH	DEV.	S.P.M.	LINER	S.P.M.	509 HORIZ DISP.
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DEVIATION RECORD  TIME FROM / KDO 2000 2330	DEPTH N DEPTH 2000 2330 2430 300	DEV.	D COD	IR.  DE NO.  2  5  2	TVD  DETAILS  Dr	HORIZ DISP.	ATIONS IN	SEQUE SEQUE	DEV.  DEV.  Re  GO 9	PRESSURE 430 DIR.  REMARKS 261 SETJE	LINER SIZE 5"	S.P.M.  GD  HOR DIS	LINER SIZE	S.P.M. GO DEPTH	DEV.	S.P.M.	LINER	S.P.M.	509 HORIZ DISP.
DEVIATION RECORD  TIME FROM / KDO 2000 2330	DEPTH N DEPTH 2000 2330 2430 300	DEV.	D COD	IR.  DE NO.  2  5  2	TVD  DETAILS  Dr	HORIZ DISP.	ATIONS IN	SEQUE SEQUE	DEV.  DEV.  Re  GO 9	PRESSURE 430 DIR.  REMARKS 261 SETJE	LINER SIZE 5"	S.P.M.  GD  HOR DIS	LINER SIZE	S.P.M. GO DEPTH	DEV.	S.P.M.	LINER	S.P.M.	509 HORIZ DISP.
DEVIATION RECORD  TIME FROM / KDO 2000 2330	DEPTH N DEPTH 2000 2330 2430 300	DEV.	D COD	IR.  DE NO.  2  5  2	TVD  DETAILS  Dr.  Dr.  Ge.  Dr.	HORIZ DISP.	ATIONS IN /.6/6	SEQUE SEQUE	DEV.  DEV.  Re  GO 9	PRESSURE 430 DIR.  REMARKS 261 SETJE	LINER SIZE 5"	S.P.M.  GD  HOR DIS	LINER SIZE	S.P.M. GO DEPTH	DEV.	S.P.M.	LINER	S.P.M.	509 HORIZ DISP.
DEVIATION RECORD  TIME FROM / KDO 2000 2330	DEPTH N DEPTH 2000 2330 2430 300	DEV.	D COD	IR.  DE NO.  2  5  2	TVD  DETAILS  Dr.  Dr.  Ge.  Dr.	HORIZ HORIZ DISP SOF OPERA 19 F	DEP ATIONS IN /.66 Doi:	SEQUE SEQUE	DEV.  DEV.  Re  GO 9	PRESSURE 430 DIR.  REMARKS 261 SETJE	LINER SIZE 5"	S.P.M.  GD  HOR DIS	LINER SIZE	S.P.M. GO DEPTH	DEV.	S.P.M.	LINER	S.P.M.	509 HORIZ DISP.
DEVIATION RECORD  TIME FROM / 800 2000 2330	DEPTH N DEPTH 2000 2330 2430 300	DEV.	D COD	IR.  DE NO.  2  5  2	TVD  DETAILS  Dr.  Dr.  Ge.  Dr.	HORIZ DISP.	DEP ATIONS IN 1660 2676 1676	SEQUE SEQUE	DEV.  DEV.  Re  GO 9	PRESSURE 430 DIR.  REMARKS 261 SETJE	LINER SIZE 5"	S.P.M.  GD  HOR DIS	LINER SIZE	S.P.M. GO DEPTH	DEV.	S.P.M.	LINER	S.P.M.	509 HORIZ DISP.
DEVIATION RECORD TIME FROM /800 2330 2430 300	DEPTH N DEPTH 2000 2330 2430 300	DEV.  DEV.  ELAPSET TIME  Z  //  3//  3	D COL	IR.  DE NO.  2  5  2	DETAILS DETAILS DETAILS DETAILS DETAILS DETAILS DETAILS	HORIZ DISP HORIZ DISP SOF OPERA 1991 1991 1991 1991 1991 1991 1991 19	ATIONS IN /.666	SEQUE  SEQUE  SEQUE  SO  SO  SO  SO  SO  SO  SO  SO  SO  S	DEV.  DEV.  Re 6)9	PRESSURE 430 DIR.  REMARKS 261 SETJE	TVD	HOR DISE	LINER SIZE	S.P.M. GO DEPTH	DEV.	S.P.M.	LINER	S.P.M.	509 HORIZ DISP.

No. 30059				- Therefore	DAILY DR	LLING REPO	ORT		R	EPORT N	Ο.	
LEASE	1 ).				WELL NO.	API WELL	NUMBER			WATER	DEPTH	DATE
OPERATOR	d/e	- 7	M+n		21-14	CONTRACT	OR .		<del></del> ·····			/2-5
Fort	il ma					/ /	tterso	N U	LTI	-		100
SIGNATURE OF SPER	OR'S R	EPRESEN	TATIVE				OF CONTRACT			· .		10
##/						4	loges (	Brom	ley			
D.P. SIZE (WEIGHT	/	RADE	TOOL JT C			D. PUMP NO.	PUM	IP MANUFACT	TURE		TYPE	STRO LENG
4/2 20	,0		614	4/24	(H) 1	1	<u> </u>	20	-		150	15
						2_	Id	6(0		5	550	/5
				<del></del>						· ·		
				DRILLING ASS	EMBLY	<u> </u>			T			
TIME DISTRIBUT	ON - HOU	RS		(At end of to			BIT RECORD			MUD RI	ECORD	
CODE - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.	9		TIME		-	H .
RIG UP AND TEAR DOWN			-181 1	BIT		SIZE	83/4		WEIGHT	ىد.	ever	
2. DRILL ACTUAL	ļ	31/2				IADC CODE			PRESSURE GRADIENT	A	M	
3. REAMING	1				,	MANUFACTUE	RER HTC		FUNNEL	10	11-	<del>\</del>
4. CORING				OD		TYPE (	71520		VISCOSITY	1	7	7
5. & CIRCULATE	2			OD			5021367		PV/YP GEL	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>
6. TRIPS	41/2	5		OD		JETS			STRENGTH	-/	<del>                                     </del>	
7. LUBRICATE RIG				OD		TFA	3X16		FLUID LOSS	ļ		
8. REPAIR RIG				OD		DEPTH OUT			рН			
9. DRILLING LINE						DEPTH IN		•	SOLIDS		·	
10. DEVIATION SURVEY						<u> </u>	5768					
11. WIRE LINE LOGS			s	STANDS D.P.		TOTAL DRILLE				MUD & CHEM		
12. RUN CASING & CEMENT			s	SINGLESD.P.	170-12-0	TOTAL HOURS	TING STRUCTURE		TYPE	AMOUNT	TYPE	AMOUNT
13. WAIT ON CEMENT			<b> </b>					LOCATION	Jac	35	50A	1
14. NIPPLE UP B.O.P.		l	Mar Pr	KELLY DOWN		1 1			SAUD.	35	10. Fil	2/35
			1			REARINGS/	OTHER	DEASON	CHAY.	1		
15. TEST B.O.P.			1	TOTAL		BEARINGS/ SEALS G	AGE OTHER DULL CHAR.	REASON PULLED	Greet	220	Walu	14 40
			WT. OF S	<u></u> l		BEARINGS/ SEALS G	AGE OTHER DULL CHAR.	REASON PULLED	Greet	1		10 t 90 a 10
15. TEST B.O.P.			<b></b>	STRING		BEARINGS/ G			Guel	120	Malu	10 190 a 10
15. TEST B.O.P. 16. DRILL STEM TEST			WT. OF S	STRING		BEARINGS/ SEALS G	AGE OTHER BULL CHAR.		Guel	1	Malu	o 10
15. TEST B.O.P. 16. DRILL STEM TEST 17. PLUG BACK			WT. OF S	STRING	INENTI	BEARINGS/ G			Guel	120	Malu	10 T 90
15. TEST B.O.P. 16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK			WT. OF S	STRING	IDENTIA	BEARINGS/ G			Guel	120	Malu	10 10
15. TEST B.O.P. 16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING		2_	WT. OF S	STRING	IDENTI	BEARINGS/ SEALS G	W/L/1f+	12 +	Guel	120	Malu	10 10 m
15. TEST B.O.P. 16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. Tight How		2_11/2	WT. OF S	CONF	IDENTH	BEARINGS/ G	W/L/1f+		Guel	120	Malu MIC, INS	10 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typh: Howeless  22. Wild A	11/2		WT. OF S	STRING		FO B	W/L/1f+	12 +	Guel	220 13 Rich	Malu MIC, INS	10 190
15. TEST B.O.P. 16. DRILL STEM TEST 17. PLUG BACK 18. SQUEEZE CEMENT 19. FISHING 20. DIR. WORK 21. Type Hove 22. W. L. A. PERFORATING	11/2		WT. OF S	CONF		FO B	Or Klift	12 +	Guel	220 13 Rich	Walu MICI	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Type Hove  22. World  A. PERFORATING  B. TUBING TRIPS	11/2		WT. OF S	CONF  PRIELING ASS  (At and of its	LENGTH	R AL	DRI RECORD	12 +	rank TS.	220 13 Rich	Malu MICI INS	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Type Hove  22. W. J. C.  23. C. DESTING  B. TUBING TRIPS  C. TESTING	11/2		WT. OF S	DRIELING ASS (At end of te	LENGTH  1.00 4.74	BIT NO.	DRI RECORD	12 +	TIME WEIGHT	220 13 Rich	Malu MICI INS	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Type Hove  22. W. J. C.  23. C. DESTING  B. TUBING TRIPS  C. TESTING	11/2		NO.	OFFILLING ASS  (At and of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	LENGTH  J. OD  4,74  428  9,4)	BIT NO. SIZE	DRI BIT RECORD	12 +	TIME WEIGHT PRESSURE GRADIENT FUNNEL	220 13 Rich	Maju mici ins	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typh: Howel  22. Walk  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING	1/2		NO.	DRIELING ASS (At end of te ITEM SIT & 3/4/ Ream el TISS SHAM DC TISS OD	LENGTH  J. OD  4.74  7.28  9.4)  3.75	BIT NO. SIZE IADC CODE MANUFACTUF	DRI RECORD  P S HER HTC	12 +	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	220 13 Rich	Malu MICI INS	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Type Hove  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.	11/2		NO.	DRILLING ASS  (At end of to  ITEM  BIT & 3/4/  Ream et    TES   OD  MONE   OD	LENGTH  J.OD  4.74  4.28  9.4)  3.75  77.33	BIT NO. SIZE IADC CODE MANUFACTUF TYPE	DRI BIT RECORD  9  834  RER HTC	12 +	TIME WEIGHT PRESSURE GRADIEL FUNCSITY PV/YP	220 13 Rich	Maju mici ins	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typh: Howel  22. Walk  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.	1/2		NO.	DRIELING ASS (At end of te ITEM SIT & 3/4/ Ream el TIBS OD MON e / OD TIBS OD	LENGTH  J. OD  4.74  4.74  4.75  9.49  3.75  77.33	BIT NO. SIZE IADC CODE MANUFACTUF TYPE	DRI BIT RECORD  Q  S  S  S  S  S  S  S  S  S  S  S  S	12 +	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH	220 13 Rich	Maju mici ins	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Hore  22. W. L. d  23. Language January  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.	11/2	1'/2	NO.	DRIELING ASS  (At and of the TIBS  SHAPE DC  TIBS OD  MONE OD	LENGTH  J. OD  4,74  7,78  9,4)  3,35  77,33	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO.	DRI RECORD  9 834 BER HTC 67 5 20 50 21367 33/6	12 +	TIME WEIGHT PRESSURE GRADIEL FUNCSITY PV/YP	220 13 Rich	Maju mici ins	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  22. World  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIMI	1 Z	11/2	NO.	DRIELING ASS (At end of te ITEM SIT & 3/4/ Ream el TIBS OD MON e / OD TIBS OD	LENGTH  J. OD  4.74  4.74  4.75  9.49  3.75  77.33	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA	DRI BIT RECORD  Q  S  S  S  S  S  S  S  S  S  S  S  S	12 +	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	220 13 Rich	Maju mici ins	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Hore  22. W. L. d  23. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIMI (OFFICE US	1 Z	11/2	NO.	ORIELING ASS (At and of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the li	LENGTH  J. OD  4.74  7.28  9.41  3.25  77.32  3,50  265,93	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT	DRI BIT RECORD  9 834  DER HTC 67520  5021367  3x16  .589	12 +	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	220 13 Rich	Maju mici ins	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howeled  22. World  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIMI (OFFICE US  HOURS W/ CONTR. D.P.	1 Z	11/2	NO.	ORIELING ASS (At and of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the li	LENGTH  1.0D  4.74  4.24  9.41  3.75  77.32  3.50  265,93  29.24  232.35	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN	DRI BIT RECORD  9 834 8ER HTC 67520 5021367 3x16 .589	12 +	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	220 13 Rich	Maju mici ins	10 T 90 0 10
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  22. W. L. C.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIMI (OFFICE US  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.	1 Z	11/2	NO.   E   //     9   1   8   4	DRIELING ASS  CAT AND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE STAND OF THE ST	LENGTH  J. OD  4.74  4.28  9.49  3.75  77.32  3.50  265,93  2924  232.38	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE	DRI RECORD  9 834  BER HTC 67 \$ 20  50 21367  3816  .589	12 +	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS LCM	RICH  MUD RI	Malu MICI INS CORD	10 190
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	1 Z	11/2	NO.   E   //     //     //     //     //     //     //     //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //   //	DRIELING ASS  (At end of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the litter of the l	LENGTH  1.0D  4.74  4.28  9.49  3.75  77.33  3.50  265,93  237.38  586.43	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS	DRI RECORD  9 834 8ER HTC 67 5 20 50 21367 3816 .589	ILLER S	TIME WEIGHT PRESSURE GRADIENT FUNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE	220 13 Rich MUD RI	Malu MICI INS CORD //: DC	AMOUNT L VP. L.
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  22. W. L. C.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIMI (OFFICE US  HOURS W/ CONTR. D.P.  HOURS W/ OPR. D.P.	1 Z	11/2	NO. 1 E 1/3 1 S 67 S 1 S	DRIELING ASS (At and of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the st	LENGTH  1.0D  4.74  4.28  9.41  3.75  77.32  3,50  265,93  232.38  586.43  6268.96  31.31	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS	DRI RECORD  9 834  BER HTC 67 \$ 20  50 21367  3816  .589	ILLER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS LCM	RICH  MUD RI  MUD & CHEM  AMOUNT	MAGUE MICORD  11:00  11:00  11:00  CALS ADDEL  TYPE  WA INT	AMOUNT HIGH
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	1 Z	11/2	NO.   E   //	DRIELING ASS  CONFIDENCE  DRIELING ASS  (At and of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the sta	LENGTH  1.0D  4.74  4.28  9.41  3.75  77.32  3.50  265,93  2904  237.38  586.43  6268.46  31.31	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUT INNER O	DRI BIT RECORD  9 834 BER HTC GT S Z O SO Z 1367 3X/6 .589  TING STRUCTURE JIER DULL CHAR	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE	RICH  MUD RI	Malu MICI INS CORD //: DC	AMOUNT HIGH
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	1 Z	11/2	NO.   E	DATELING ASS (At and of the ITEM BIT & 3/4/ Ream & 1/2 SIMM DC ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD	LENGTH  1.0D  4.74  4.28  9.41  3.75  77.32  3,50  265,93  232.38  586.43  6268.96  31.31	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUT INNER O	DRI RECORD  9 834 BER HTC 67 5 20 50 21367 3x/6 .589	ILLER	TIME WEIGHT PRESSURE GRADIENT FUNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE	RICH  MUD RI  MUD & CHEM  AMOUNT	MAGUE MICORD  11:00  11:00  11:00  CALS ADDEL  TYPE  WA INT	AMOUNT HIGH
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	1 Z	11/2	NO.   E   //	DATELING ASS (At and of the ITEM BIT & 3/4/ Ream & 1/2 SIMM DC ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD ITSS OD	LENGTH  1.0D  4.74  4.28  9.41  3.75  77.32  3.50  265,93  232.38  586.43  6268.46  31.31  40- 6926.20	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUINNER OUT BEARINGS/ SEALS G	DRI BIT RECORD  9 834 BER HTC GT S Z O SO Z 1367 3X/6 .589  TING STRUCTURE JIER DULL CHAR	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNDEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE DAG VA	RICH  MUD RI  MUD & CHEM  AMOUNT	MAGUE MICORD  11:00  11:00  11:00  CALS ADDEL  TYPE  WA INT	AMOUNT HIGH
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Hove  22. W. L. C.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIMI (OFFICE US  HOURS W/ CONTR. D.P.  HOURS WITHOUT D.P.  HOURS STANDBY	1 Z	11/2	NO.   E	DRIELING ASS  (At end of the ITEM  BIT 83/4/ RCAM OF LIBS OD  MONE OD  TAS OD  TAS OD  STANDS D.P.  SINGLES D.P.  (ELLY DOWN  TOTAL  STRING /63	LENGTH  1.0D  4.74  4.28  9.41  3.75  77.32  3.50  265,93  232.38  586.43  6268.46  31.31  40- 6926.20	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUT INNER O	DRI BIT RECORD  9 834 BER HTC GT S Z O SO Z 1367 3X/6 .589  TING STRUCTURE JIER DULL CHAR	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNDEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE DAG VA	RICH  MUD RI  MUD & CHEM  AMOUNT	MAGUE MICORD  11:00  11:00  11:00  CALS ADDEL  TYPE  WA INT	AMOUNT HIGHER RIKE
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIM (OFFICE US  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.  HOURS STANDBY	1 Z	11/2	NO.   E   //	DRIELING ASS  (At end of the ITEM  BIT 83/4/ RCAM OF LIBS OD  MONE OD  TAS OD  TAS OD  STANDS D.P.  SINGLES D.P.  (ELLY DOWN  TOTAL  STRING /63	LENGTH  1.0D  4.74  4.28  9.41  3.75  77.32  3.50  265,93  232.38  586.43  6268.46  31.31  40- 6926.20	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUINNER OUT BEARINGS/ SEALS G	DRI BIT RECORD  9 834 BER HTC GT S Z O SO Z 1367 3X/6 .589  TING STRUCTURE JIER DULL CHAR	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNDEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE DAG VA	RICH  MUD RI  MUD & CHEM  AMOUNT	CALS ADDED TYPE WAINT COLUMN	AMOUNT HIGHER RIKE
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk Hove  22. W. J. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIMI (OFFICE US  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.  HOURS STANDBY  TOTAL DAYWORK  NO. OF DAYS  FROM SPUS  FROM SPUS  CUMULATIVE	1 Z	11/2	NO.   E	OTHELING ASS  (At and of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the stands of the s	LENGTH  1.0D  4.74  4.28  9.49  3.25  77.32  3.50  265,93  232.58  586.43  6268.46  31.31  40- 6926.20  6,000	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUINNER OUT BEARINGS/ SEALS G	DRI BIT RECORD  9 834 BER HTC GT S Z O SO Z 1367 3X/6 .589  TING STRUCTURE JIER DULL CHAR	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNDEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE DAG VA	RICH  MUD RI  MUD & CHEM  AMOUNT	CALS ADDED TYPE WAINT COLUMN	AMOUNT HIGHER RIKE
15. TEST B.O.P.  16. DRILL STEM TEST  17. PLUG BACK  18. SQUEEZE CEMENT  19. FISHING  20. DIR. WORK  21. Typk: Howe  22. Wald  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  TOTALS  DAYWORK TIMI (OFFICE US  HOURS W/ OPR. D.P.  HOURS WITHOUT D.P.  HOURS STANDBY	1 Z	11/2	NO.   E	DRIELING ASS  (At end of the ITEM  BIT 83/4/ RCAM OF LIBS OD  MONE OD  TAS OD  TAS OD  STANDS D.P.  SINGLES D.P.  (ELLY DOWN  TOTAL  STRING /63	LENGTH  1.0D  4.74  4.28  9.49  3.25  77.32  3.50  265,93  232.58  586.43  6268.46  31.31  40- 6926.20  6,000	BIT NO. SIZE IADC CODE MANUFACTUF TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLE TOTAL HOURS CUINNER OUT BEARINGS/ SEALS G	DRI BIT RECORD  9 834 BER HTC GT S Z O SO Z 1367 3X/6 .589  TING STRUCTURE JIER DULL CHAR	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNDEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE DAG VA	RICH  MUD RI  MUD & CHEM  AMOUNT	CALS ADDED TYPE WAINT COLUMN	AMOUNT HIGHER RIKE



IELD OR DISTR	RICT		CC	UNTX Er	ne	rU		STATE/COU	NTRY		WIRE L	INE REC	ORD	REEL NO.	Article Control of the Control		ter este estado tractar y	e i service e producerous	A CONTRACTOR
		SIZE	MAI		WE	IGHT	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	11/8		LINES / O		LENGTH	SLIPPED		
LAST CASING	s e de la carif			À		9					LENGTH	CUT OFF	٠	· · · · · · · · · · · · · · · · · · ·	PRESE	IT LENGTH	250		
TUBING OR LINER											WEAR O	R TRIPS AST CUT		· · · · ·				· ·	
											CUMULA WEAR O	ATIVE OR TRIPS			,,				
DEPTH IN	(TERVA	NL	DRILLD			FORE	MATION	PIÓT			PUMI	P NO. 1	Pl	JMP NO. 2	PUMI	NO. 3	PUMI	P.NO. 4	1
FROM	T	0	REAMR COREC	CORE NO.		SHOW COR	100	TAR	LE WILLIAM	PUMP	LINER	S.P.M.	LINE	R S.P.M.	LINER	S.P.M.	LINER	S.P.M.	TOTAL PUMP OUTPUT
6942			D			Shal	le.	9	0 8%	y 25	<b>-</b> /	40	+	" 60	+				
	****								/-					+0					<del> </del>
			1		<u></u>	T	Lugar	- 1											
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RECORE			-		_		-		1					-					
TIME	LOG		ELAPSE		DE NO	DETAILS	OF OPER	ATIONS IN SE	OUENOE AND										·
FROM	<u> </u>	ro	TIME			DETAILS	OF OPEN	ATIONS IN SE	QUENCE ANI	J HEMAHKS									
600	93	50	31/	2	2	Or	19. F	694	2-70	日子	<del> </del>	*							
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4 160 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TERVA		DRILL.D REAM.R CORE.C	CORE NO.	(6		IATION E RECOVEI	ROT/ TAB SPE	WT. ON	PUMP PRESSURE		NO. 1		IMP NO. 2	1 4	NO. 3		NO.4	TOTAL PUMP
FROM	TERVA		DRILLD REAMR COREC		(\$	FORM SHOW COR		ROT/ TAB SPE	WT. ON			NO. 1 S.P.M.	PL LINE SIZI	R Lau	PÚMF LINER SIZE	NO. 3 S.P.M.	PUMF LINER SIZE	NO.4.	TOTAL PUMP OUTPUT
Sec.			REAMR		(6			ROTI TAB SPE	WT. ON		LINER		LINE	R Lau	LINER				PUMP
Section 1			REAMR					ROTA TAB SPE	RY WT. ON BIT		LINER		LINE	R Lau	LINER				PUMP
FROM	ТС		REAMR	No.	OIR.				WT. ON BIT		LINER		LINE SIZI	R Lau	LINER		LINER	S.P.M.	PUMP
4 160 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TC	•	REAMR COREC	No.		SHOW COR	E RECOVER			PRESSURE	UNER	S.P.M.	LINE SIZI	P spm	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM DEVIATION RECORD	TO ON ON ON ON ON ON ON ON ON ON ON ON ON	•	DEV.	NO.		SHOW COR	E RECOVER			PRESSURE	UNER	S.P.M.	LINE SIZI	P spm	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM	IN LOG	•	REAMR COREC	NO.		TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM DEVIATION RECORD TIME FROM	LOG TO 2.3	DEPTH	DEV.	NO.	DIR.	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG TO 2.3	DEPTH 0 080	DEV.	CO CO	DE NO.	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD TIME FROM 1800 2300	LOG TO 2.3	DEPTH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DEV.	CO CO	DE NO.	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION RECORD  TIME FROM  1800 2300 2430 2400	LOG TO 2.3	DEPTH 0 080 130 000	DEV.	C C C C C C C C C C C C C C C C C C C	DE NO.	TVD DETAILS	HORIZ DISP.	. Дертн	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION RECORD  TIME FROM  1800 2300 2430 2400	LOG TO 2.3 2.4 2.5 5 0	DEPTH 0 080 130 000	DEV.	C C C C C C C C C C C C C C C C C C C	DE NO. 5	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME FROM  1800 2300 2430 2400	LOG TO 2.3 2.4 2.5 5 0	DEPTH 0 080 130 000	DEV.	C C C C C C C C C C C C C C C C C C C	DE NO. 5	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME FROM  1800 2300 2430 2400	LOG TO 2.3 2.4 2.5 5 0	DEPTH 0 080 130 000	DEV.	C C C C C C C C C C C C C C C C C C C	DE NO. 5	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME FROM  1800 2300 2430 2400	LOG TO 2.3 2.4 2.5 5 0	DEPTH 0 080 130 000	DEV.	C C C C C C C C C C C C C C C C C C C	DE NO. 5	TVD  DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME FROM  1800 2300 2430 2400	LOG TO 2.3 2.4 2.5 5 0	DEPTH 0 080 130 000	DEV.	C C C C C C C C C C C C C C C C C C C	DE NO. 5	TVD  DETAILS	HORIZ DISP.	DEPTH	DEV.  DEV.  DEV.  DIVE	DIR.  DIR.	LINER SIZE	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME FROM  1800 2300 2430 500	LOG TO 2.3 2.4 2.5 5 0 6 2	DEPTH  O SAD  JOO DO  O O O O O O O O O O O O O O O	DEV.  BLAPSET TIME  5  1  1	7 CO	DE NO. 5	TVD  DETAILS  Mix  T. G.  P/U  F, J	HORIZ DISP.	DEPTH  ATIONS IN SECOND  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP	DEV.  QUENCE AND  Li V:	DIR.  DIR.  DIR.  PREMARKS  S. L. C. Y.  S. A. C. Y.  F. Rea	TVD	HOP DIS	LINE SIZE	DEPTH	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME FROM  1800 2300 2430 500	LOG TO 2.3 2.4 2.5 5 0 6 2	DEPTH  O SAD  JOO DO  O O O O O O O O O O O O O O O	DEV.	7 CO	DE NO. 5	TVD  DETAILS  Mix  T. G.  P/U  F, J	HORIZ DISP.	DEPTH	DEV.  QUENCE AND  Li V:	DIR.  DIR.  DIR.  PREMARKS  S. L. C. Y.  S. A. C. Y.  F. Rea	TVD	HOP DIS	LINE SIZE	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M.	HORIZ. DISP.
DEVIATION RECORD  TIME FROM  1800 2300 2430 200 500	LOG TO 2.3 2.4 2.5 5 0 6 2	DEPTH  O SAD  JOO DO  O O O O O O O O O O O O O O O	DEV.  BLAPSET TIME  5  1  1	7 CO	DE NO. 5	TVD  DETAILS  Mix  T. G.  P/U  F, J	HORIZ DISP.	DEPTH  ATIONS IN SECOND  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP  LAMP	DEV.  DEV.  DEV.  DIVERSE AND  AIVE	DIR.  DIR.  DIR.  PREMARKS  S. L. C. Y.  S. A. C. Y.  F. Rea	TVD	HOP DIS	LINE SIZE	DEPTH	DEV.	S.P.M.	LINER SIZE	S.P.M.	HORIZ. DISP.

REPORT NO.

777			10.			WELL NO.		. NUMBI	EN				DEPTH	DATE	
	iddle			n		21-16	CONTRAC	CTOR				<u></u>		7 Z - 6 - RIG N	Ø 3 10.
_F	ortu	ph	20	<u>.                                    </u>			Pat	ter	CONTRACTO	U+	- <i>j</i>			104	/
SIGNATURE	OF OPERAT	by's ri	PRESE	NTATIVE			SIGNATUI	RE OF C	CONTRACTO	OR'S TOOL	PUSHER				
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D.P. SIZE	WEIGHT		ADE	-FOOL JT			PUMP NO.	<del>  '</del>	PUMP	MANUFACT	Up R		TYPE	STROI LENG	
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		1						-						<del> </del>	
					DRILLING ASS	SEMBLY		<u> </u>		,					ı
	STRIBUTION	1 – HOU	RS		(At end of to			BIT R	ECORD			MUD RE	CORD		
NO OPER		NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.		9		TIME		10:15		
1. TEAR DOW	N				BIT 834	1.00	SIZE		8 3/4		WEIGHT		8.5		
2. DRILL ACT	UAL	8	9	1/1	Reamer	4.74	IADC CODE				PRESSURE GRADIENT		.442		
3. REAMING			- 1	1/1	Shit. DC	9.45	MANUFACTU	JRER	HTC		FUNNEL VISCOSITY		42		
4. CORING	N MUD	, ,			monedo		TYPE	GT	570		PV/YP	7	11/11		1
5. & CIRCULA	TE	4			•	_	SERIAL NO.	50	21367	•	GEL STRENGTH	//	6/1/15		
6. TRIPS	- DIC		11-	9	IB500		JETS		3×16		FLUID	/	,,,,,		
7. LUBRICATE 8. REPAIR RIG	-		1/2				TFA		589		pH		16.2		
_ CUT OFF			1	1	Jarson		DEPTH OUT						8.5		۱.
9. DRILLING L			1/2	8	6" DC'5	237.38	DECIGIN	5	768		SOLIDS		1.2		Ē
11. WIRE LINE	-		72		BHA	586,43	TOTAL DRILL	LED	1432			MUD & CHEMI	CALS ADDED		RIGHT TOUR
12. RUN CASING				70	STANDS D.P.	6549	TOTAL HOUR	RS	421/2		TYPE	AMOUNT	TYPE	AMOUNT	2
13. WAIT ON C	EMENT			X	SINGLES D.P.	31.05		UTTING S	DULL CHAR.	LOCATION	Caustic	25x			
14. NIPPLE UP	B.O.P.				KELLY DOWN	33,00					Gel	15 sx	*		
15. TEST B.O.F	».			1	TOTAL	7200	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	Pack	7 5x			
16. DRILL STE	M TEST			WT. OF	STRING	1.000									
17. PLUG BAC	ĸ			REMAR		1	E.	XK	1 6	T.	1) 1	lichi		<u>, t</u>	
19 COLLEGE	CEMENT			1 (T-18)-TCM	<b>)</b>										182
18. SQUEEZE (	OLIVICITY!				instantin envi	-			4++	1)	nk !	CICINI	<u> </u>		
	OLINEIY)				PONITIE	TENTIAL		01/	er 17	Hrs		SIC NI			
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A. PERFO B. TUBIN C. TREA D. SWAB E. TESTI F. G. H. TOTALS DAY (HOURS W/ OPF	ORATING IG TRIPS TING BBING NG WORK TIME SI OFFICE USE O NTR. D.P. R. D.P.	UMMARY		NO.	ITEM BIT & 3/Ly Rear er LBS OD MONE OD LBS OD Jars OD Jars OD	LENGTH  /.OD  4.?4  4.28  9.45  22.32  3.50  245.93  29.00  237.38  586.43	BIT NO. SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN	BIT RI	DRIL ECORD  9 8344  M7C 520 2/360 33/16 .589	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	7:00	ECORD	AMOUNT	DAYTOUR
A. PERFO B. TUBIN C. TREAT D. SWAB E. TESTI F. G. H. TOTALS DAY (HOURS W/ COPHOURS W/THO	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  R. D.P.  UT D.P.	UMMARY		No.	ITEM BIT & 3/4 REGIO CO IBS OD MONE OD IBS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS OD JOS O	LENGTH  /.OD  4.24  4.28  9.45  3.75  22.32  3.50  245.93  29.00  237.38	BIT NO. SIZE IADC CODE MANUFACTL TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOULE	BIT RI  JRER  502	DRIL ECORD  9 8344  47C 520 2/362 3316 .589  5268 /542 5072 STRUCTURE	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	7:00 85[8 55 60	ECORD /	AMOUNT	740
A. PERFO B. TUBIN C. TREAT D. SWAB E. TESTI F. G. H. TOTALS DAY (HOURS W/ COPHOURS W/THO	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  R. D.P.  UT D.P.	UMMARY		No.   //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //    //	ITEM BIT & 3/4 RESIDENT TRAS SHOPE TO COLOR TRAS OD MONE OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TRAS OD TR	LENGTH  /.OD  Y.?4  4.28  9.45  22.32  3.50  245.93  29.00  237.38  586.43	BIT NO. SIZE IADC CODE MANUFACTL TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOULE	BIT RI	DRIL ECORD  9 8344  MTC 520 2/360 33/16 .589  5268 /540 50 %	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	7:00 8518 55/60 MUD & CHEMI AMOUNT	ECORD /		740
A. PERFO B. TUBIN C. TREAT D. SWAB E. TESTI F. G. H. TOTALS DAY (HOURS W/ COPHOURS W/THO	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  R. D.P.  UT D.P.	UMMARY		NO.   //   //     //	ITEM BIT & 3/Ly Rear ex RES OD MONE OD IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD  IBS OD	LENGTH  /.00 4.74 4.28 9.45 3.75 22.32 3.50 245.93 29.00 237.38 586.43 4641.71	BIT NO. SIZE IADC CODE MANUFACTL TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOULE INNER	BIT RI  JRER  502	DRIL ECORD  9 8344  47C 520 2/360 33/16 .589  5268 /540 501/2 STRUCTURE DULL CHAR.	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	7:00 85[8 55 60	ECORD /	AMOUNT	740
A. PERFO B. TUBIN C. TREAT D. SWAB E. TESTI F. G. H. TOTALS DAY (HOURS W/ COPHOURS W/THO	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  R. D.P.  UT D.P.	UMMARY		NO.   //   //     //	ITEM  BIT & 3/4  READ CO TAS OD  MONE OD  JASS OD  JASS OD  STANDS D.P.  SINGLES D.P.  KELLY DOWN  TOTAL	LENGTH  /.00 4.24 9.45 3.15 27.32 3.50 245.93 29.00 237.38 586.43 4641.71	BIT NO. SIZE IADC CODE MANUFACTL TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOULE INNER	BIT RI  JRER  502	DRIL ECORD  9 8344  47C 520 2/362 3316 .589  5268 /542 5072 STRUCTURE	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	7:00 8518 55/60 MUD & CHEMI AMOUNT	ECORD /	AMOUNT	740
A. PERFO B. TUBIN C. TREAT D. SWAB E. TESTI F. G. H. FOTALS DAY HOURS W/ COP HOURS W/ OPF	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  R. D.P.  UT D.P.	UMMARY		No.	ITEM BIT & 3/Ly RCATE CY LBS OD MONE OD IBS OD IBS OD SALS OD SALS OD STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING 165	232.38 245.93 29.00 232.38 586.43 6641.71 67.62 7375.76	BIT NO. SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLI TOTAL HOUS INNER BEARINGS/ SEALS	BIT RI  JRER  JRER  JRER  JRER  GAGE	DRIL ECORD  9 8344  47C 520 2/360 33/16 .589  5268 /540 501/2 STRUCTURE DULL CHAR.	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHEMI AMOUNT 12354 25 X 30gal	CALS ADDED TYPE CONTOL HUIS Base Ser	AMOUNT	À A
19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFC B. TUBIN C. TREA D. SWAB E. TESTI F. G. H. TOTALS DAY' ( HOURS W/ OPF HOURS WITHO HOURS STAND	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  UT D.P.  BBY	UMMARY		NO. /// /// // // // // // // // // // //	ITEM BIT & 3/Ly RCATE CY LBS OD MONE OD IBS OD IBS OD SALS OD SALS OD STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING 165	LENGTH  /.OD  4.74  4.28  9.45  22.32  3.50  245.93  29.00  237.38  586.43  4641.71  6/.62  73/5.76	BIT NO. SIZE IADC CODE MANUFACTL TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILL TOTAL HOULE INNER	BIT RI  JRER  JRER  JRER  JRER  GAGE	DRIL ECORD  9 8344  47C 520 2/360 33/16 .589  5268 /540 501/2 STRUCTURE DULL CHAR.	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHEMI AMOUNT 12354 25 X 30gal	ECORD /	AMOUNT	À A
19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFG B. TUBIN C. TREA D. SWAB E. TESTI F. G. H. TOTALS DAY' (HOURS W/ OPF HOURS WITHO HOURS STAND TOTAL DAYWO NO. OF DAYS FROM SPUD	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  UT D.P.  BBY	UMMARY		NO. /// /// // // // // // // // // // //	ITEM BIT & 3/Ly RCATE CY LBS OD MONE OD IBS OD IBS OD SALS OD SALS OD STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING 165	232.38 245.93 29.00 232.38 586.43 6641.71 67.62 7375.76	BIT NO. SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLI TOTAL HOUS INNER BEARINGS/ SEALS	BIT RI  JRER  JRER  JRER  JRER  GAGE	DRIL ECORD  9 8344  47C 520 2/360 33/16 .589  5268 /540 501/2 STRUCTURE DULL CHAR.	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHEMI AMOUNT 12354 25 X 30gal	CALS ADDED TYPE CONTOL HUIS Base Ser	AMOUNT	À A
A. PERFO  20. DIR. WORK  21.  22.  23.  A. PERFO  B. TUBIN  C. TREA  D. SWAB  E. TESTI  F.  G.  H.  TOTALS  DAY'  ("OTAL DAYWO  NO. OF DAYS  FROM SPUD  CUMULATIVE  ROTATING HOU	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  UT D.P.  BBY  DRK	UMMARY		NO. /// /// // // // // // // // // // //	ITEM BIT & 3/Ly RCATE CY LBS OD MONE OD IBS OD IBS OD SALS OD SALS OD STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING 165	232.38 245.93 29.00 232.38 586.43 6641.71 67.62 7375.76	BIT NO. SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLI TOTAL HOUS INNER BEARINGS/ SEALS	BIT RI  JRER  JRER  JRER  JRER  GAGE	DRIL ECORD  9 8344  47C 520 2/360 33/16 .589  5268 /540 501/2 STRUCTURE DULL CHAR.	LER	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHEMI AMOUNT 12354 25 X 30gal	CALS ADDED TYPE CONTOL HUIS Base Ser	AMOUNT	À A
19. FISHING 20. DIR. WORK 21. 22. 23.  A. PERFC B. TUBIN C. TREA D. SWAB E. TESTI F. G. H.  TOTALS DAY (HOURS W/ CON	ORATING  IG TRIPS  TING  BBING  NG  WORK TIME SI  OFFICE USE O  NTR. D.P.  UT D.P.  BBY  DRK  URS  ST	UMMARY		NO. // // // // // // // // // // // // //	ITEM BIT & 3/Ly RCATE CY LBS OD MONE OD IBS OD IBS OD SALS OD SALS OD STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING 165	LENGTH  /.00  4.74  4.28  9.45  22.32  3.50  245.93  29.00  237.38  586.43  4641.71  6/.62  73/5.76  000  1 404	BIT NO. SIZE IADC CODE MANUFACTU TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLI TOTAL HOUS INNER BEARINGS/ SEALS	BIT RI  JRER  JRER  JRER  JRER  GAGE	DRIL ECORD  9 8344  47C 520 2/360 33/16 .589  5268 /540 5012 STRUCTURE DULL CHAR.  OTHER CHAR.  FOR	LOCATION REASON PULLED	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	MUD & CHEMI AMOUNT 12354 25 X 30gal KM:	CALS ADDED TYPE CONTO	AMOUNT	À A

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NO. OF DAYS

CUMULATIVE ROTATING HOURS DAILY MUD COST

TOTAL MUD COST



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DRILLER Broad Pedosses

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	St	ZE	MA		WEI	GHT /	NO. JOINTS	LENGT	, F	RKB. TO CSG. HD.	SET AT	SIZE	1/2	NO. L	<u>.</u> 4	:	LENGTH	SLIPPED		
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DEPTH IN	NTERVÁL		DRILL.D REAM.R	CORE		FO	MATION		OTARY	WT. ON	PUMP	PUMP	NO. 1	PU	IP NO. 2	PUMI	P NO. 3	PUMI	P NO. 4	TOTAL
FROM	то		COREC	NO.	P		RE RECOVE	RY)	TABLE SPEED	BIT	PRESSURE	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
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TIME			ELAPSE TIME	D COI	DE NO.	DETAI	LS OF OPER	RATIONS IN	SEQUE	ENCE AND	BEMARKS	<u> </u>					٠			
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DEPTH IN	TERVAL		DRILL D	CORE			IMATION	- 1 / EST	OTARY	WT. ON	PUNP	PUMP	No.1		IP NO. 2	300	NO. 3		NO. 4	TOTAL
DEPTH IN	TERVAL		DRILL_D REAM_R COREC	CORE			IMATION RE RECOVE	111	OTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO.1	PUN LINER SIZE	IP NO. 2	, POMP	NO. 3	PUMF LINER SIZE	NO. 4	TOTAL PUMP OUTPUT
FROM			DRILL D REAM R CORE C	CORE			RE RECOVE	111	ABLE		PUMP	LINER	S.P.M.	LINER	S.P.M.	300	F			PUMP
FROM			COREC	CORE		SHOW CO	RE RECOVE	111	ABLE PEED	BIT	PUMP PRESSURE	LINER SIZE		LINER SIZE	S.P.M.	300	F			PUMP
FROM			COREC	CORE		SHOW CO	RE RECOVE	111	ABLE PEED	BIT	PUMP	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	300	F			PUMP
FROM	70	EPTH	COREC	NO.		SHOW CO	RE RECOVE	AY)	₩D	BIT	PUMP PRESSURE	LINER SIZE	s.p.m. 48	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
FROM 74/55	TO DO	2.00	COREC	NO.		Sho	HORIZ	AY)	₩D	40	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	\$.P.M.	300	F	LINER	S.P.M.	PUMP OUTPUT
7455	TO DO	2.00	COREC	NO.		Sho	HORIZ	AY)	₩D	40	PRESSURE	LINER SIZE	s.p.m. 48	LINER SIZE	\$.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
7455  DEVIATION RECORD	TO DO DO DO DO DO DO DO DO DO DO DO DO DO	2.00	DEV.	D D	IR.	Show co	HORIZ DISP	Z. DEP	TH	40  DEV.	DIR.	LINER SIZE	s.p.m. 48	LINER SIZE	\$.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
7455  DEVIATION RECORD  TIME FROM	TO CONTRACTOR TO TO	PEPTH	DEV.  ELAPSET TIME	D COL	IR.	TVD  DETAIL	HORIZ DISP	Z. DEP	TH SEQUE	DEV.	DIR. REMARKS	LINER SIZE	<b>5.P.M. 48</b> HOP DIS	LINER SIZE	\$.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
7455  DEVIATION RECORD  TIME FROM	TO DO DO DO DO DO DO DO DO DO DO DO DO DO	PEPTH	DEV.	D COL	IR.	TVD  DETAIL	HORIZ DISP	Z. DEP	TH SEQUE	DEV.	DIR. REMARKS	LINER SIZE	<b>5.P.M. 48</b> HOP DIS	LINER SIZE	\$.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PEVIATION RECORD TIME FROM	TO CONTRACTOR TO TO	БЕРТН	DEV.  ELAPSET TIME	D COD	IR.	TVD  DETAIL	HORIZ DISP	Z. DEP	TH SEQUE	## 40  DEV.  ENCE AND	DIR. REMARKS	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M DIR.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD TIME FROM  / SOD	To   Co   Co   Co   Co   Co   Co   Co	вертн	DEV.  ELAPSEITIME  1/2	D COL	IR. DE NO. 2	TVD  DETAIL	HORIZ DISP	Z. DEP	TH SEQUE	## 40  DEV.  ENCE AND	DIR. REMARKS	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M DIR.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD TIME FROM / SOD / 1830 2230	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP	Z. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M DIR.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD TIME FROM / SOD / SOD / SOD / SOD / SOD	To Log To 183 22:	рертн В О О О	DEV.  ELAPSEI TIME  1/2 4 3	D COL	IR. DE NO. 2	TVD  DETAIL	HORIZ DISP	Z. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR. REMARKS	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD TIME FROM / SOD / 1830 2230	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP	Z. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD TIME FROM / SOD / 1830 2230	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP	Z. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD TIME FROM / SOD / 1830 2230	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP	Z. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD  TIME FROM  / SOD 1830 2230	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP	Z. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD  TIME FROM  / SOD 1830 2230	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP	Z. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE	S.P.M. 4/5/	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT HORIZ. DISP.
DEVIATION RECORD  TIME FROM  / SOD 1830 2230	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP	Z. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE  5 "  RIZ. P.	S.P.M.  4/8  DEPTH  C.M.  But	DEV.	DIR.	LINER SIZE	S.P.M.	HORIZ. DISP.
TIME FROM  / SOD / SOD / SOD	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP S OF OPER	745 1745	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE  5 "  RIZ. P.	S.P.M. 4/5/	DEV.	DIR.	LINER SIZE	S.P.M.	HORIZ. DISP.
TIME FROM  / SOD / SOD / SOD	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP	2. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE  5 "  RIZ. P.	S.P.M.  4/8  DEPTH  C.M.  But	DEV.	DIR.	LINER SIZE	S.P.M.	HORIZ. DISP.
TIME FROM  / SOD / SOD / SOD	TO LOG TO 183 223 134	рертн В О О О	DEV.  ELAPSEITIME  1/2  4	D COL	DE NO. 2 5	TVD  DETAIL	HORIZ DISP S OF OPER 19 f	2. DEP	SEQUE	## 40  DEV.  ENCE AND	DIR.  REMARKS  3 L  175	LINER SIZE  5''  TVD	S.P.M.  48  HOF DIS	LINER SIZE  5 "  RIZ. P.	S.P.M.  4/8  DEPTH  C.M.  But	DEV.	DIR.	LINER SIZE	S.P.M.	HORIZ. DISP.
DEVIATION RECORD TIME FROM / SOD / 330 / 330	TO LOG TO 183 223 134 060	30 0	DEV.  ELAPSEITIME  1/2  4  3	D COD	DE NO. 2 5	TVD  DETAIL  DETAIL  R  R	HORIZONE  SOF OPER  19 f	2. DEP	SEQUE  SEQUE  3  3  3  5  5  7  7  7  7  7  7  7  7  7  7  7	DEV.	DIR.  REMARKS  3	TVD	S.P.M.  48  HOP DIS	LINER SIZE  5 "  RIZ. P.	S.P.M.  4/8  DEPTH  C.M.  But	DEV.	DIR.	LINER SIZE	S.P.M.	HORIZ. DISP.
DEVIATION RECORD TIME FROM / SOD / 330 / 330	TO LOG TO 183 223 134 060	30 0	DEV.  ELAPSEITIME  1/2  4	D COD	DE NO. 2 5	TVD  DETAIL  DETAIL  R  R	HORIZONE  SOF OPER  19 f	2. DEP	SEQUE  SEQUE  3  3  3  5  5  7  7  7  7  7  7  7  7  7  7  7	DEV.	DIR.  REMARKS  3 L  175	TVD	S.P.M.  48  HOP DIS	LINER SIZE  5 "  RIZ. P.	S.P.M.  4/8  DEPTH  C.M.  But	DEV.	DIR.	LINER SIZE	S.P.M.	HORIZ. DISP.

TYPE GTSIO PV/YF Moned 27.32 SERIAL NO. G. 2136 GEL STRENGTH TBS OD **JETS** H <u>3×16</u> FLUID LOSS 265.93 TOTALS ρН 29,00 (OFFICE USE ONLY) DEPTH OUT SOLIDS HOURS W/ CONTR. D.P. DEPTH IN 5768 HOURS W/ OPR. D.P. 5864 U TOTAL DRILLED HOURS WITHOUT D.P. 6829 TOTAL HOURS AMQUNT AMOUNT HOURS STANDBY SINGLES\_ KELLY DOWN 3 pt 60 REASON PULLED 1455 TOTAL WT. OF STRING REMARKS Davis TOTAL DAYWORK NO. OF DAYS acc 3711

CUMULATIVE ROTATING HOURS

DAILY MUD COST

TOTAL MUD COST



Many

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Middle 1	M + N	~	DUNTY	ME	6.0		SIAIE	COUNTR			WIRE L	INE REC	ORD I	REEL NO.					
, ere	SIZE	МА	Œ	WEIG & GR	GMT	NO. JOINTS	LENG	<del></del>	RKB. TO CSG. HD.	SET AT	SIZE	18	NO. L	NES /C	>	LENGTH	SLIPPED		
LAST	95/4	51		36					11			CUT OFF	<u>- I</u>	76	PRESE	NT LENGTH	1	· · · · ·	
CASING TUBING OR LINER	1 7/8	21	<b>*</b> C	20		`~,		_	16	-	WEAR O	R TRIPS		· · · · · ·		<del></del>			. 4
				7							SINCE LA	TIVE					<del></del>		- 1
							<u> </u>	KAST ANGERS			WEAR O	R TRIPS	T. 11 June						
DEPTH INT	TERVAL	DRILL.D REAM.R	CORE NO.	ľ		RMATION	Sec. 14	HOTARY TABLE SPEED	WT. ON	PUMP		P NO. 1		IP NO. 2	<b>-</b>	P NO. 3		NO. 4	TOTAL PUMP
FROM	то	COREC	110.	(8	SHOW CO	ORE RECOVE	ERY)	SPEED	BIT	PRESSURE	SIZE	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	OUTPU
1543	1695	<del></del>						80	40	1600	5"	51	3	1 5-/	·				
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DEVIATION	DEPTH	DEV.		NR.	TVD	HORE	Z. DI	ЕРТН	DEV.	DIR.	TVD	HOI DIS	RIZ. SP.	DEPTH	DEV.	DIR.	Т	VD	HORIZ. DISP.
RECORD	<b>'</b>																		
			<u> </u>							<u> </u>									
FROM	TO	ELAPSE TIME	COI	DE NO.	DETAI	LS OF OPER	RATIONS	IN SEQU	ENCE AND	REMARKS									
0/00	11/20	8		7	7	de	1511	71.	-11	//0					***	•			
1/100	1700	1//		<u> </u>	$+ \nu$	my 1	27	<u>&gt; 1-c</u>	<del></del>	660					<u> </u>	1			
400	/S/15	1/7	/ /	<u>5</u>	14	10 1	y)	SA	<i>Up) [ ii</i>	£5 (	20	MIN	[Af	ALS					
1515	1800	27	4 6	<u>ス</u>	$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	ela	76	60	<del>,</del>	Es (	69	5		15					
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DEPTH INT	ERVAL	DRILL D	Cons		Selfer Lead	RMATION		ROTARY	WT, ON	PUMP	PUMP	NO. 1		PNO 2		PNO. 3	PUMP	NO. 4	TOTAL
	ERVAL	DRILL D REAM R CORE.C	CORE		Selfer Lead	RMATION TRE RECOVE		ROTARY TABLE SPEED	WT. ON BIT	PUMP		NO.1	PUN LINER SIZE	P NO 2	PUMI LINER SIZE	PNO. 3	PUMP LINER SIZE	NO.4	TOTAL PUMP OUTPUT
DEPTH INT		DRILL D REAM R CORE C	CORE		Selfer Lead	A	***	ROTARY TABLE SPEED	BIT	PUMP PRESSURE	LINER SIZE			S.P.M.		1		F	PUMP
DEPTH INT	то	REAMR COREC	CORE	(S	HOW CC	PRE RECOVE	**************************************	. V	BIT	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		1		F	PUMP
DEPTH INT	то	REAMR COREC	CORE		HOW CC	RE RECOVE		. V	BIT	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		1		F	PUMP
DEPTH INT	770 9 DEPTH	REAMR COREC	1 NO.	( <b>6</b>	HOW CC	A HORIZ	2	. V	BIT	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		1	LINER	8.P.M.	PUMP
DEPTH INT	770 9 DEPTH	DEV.	1 NO.		HOW CO	A HORIZ	2	<b>70</b>	45	16410	LINER SIZE	S.P.M.	LINER SIZE	5.P.M.	LINER	SPM	LINER	8.P.M.	PUMP OUTPUT
DEPTH INTI	770 9 DEPTH	DEV.	1 NO.		HOW CO	A HORIZ	2	<b>70</b>	45	16410	LINER SIZE	S.P.M.	LINER SIZE	5.P.M.	LINER	SPM	LINER	8.P.M.	PUMP OUTPUT
DEPTH INTI	770 9  DEPTH 770	DEV.	D		TVD	A HORIZ	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	LINER SIZE	S.P.M.	LINER SIZE	5.P.M.	LINER	SPM	LINER	8.P.M.	PUMP OUTPUT
DEPTH INTI	776 9  DEPTH 770  OG TO	DEV.	D	IŘ.	TVD	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE	5.P.M.	LINER	SPM	LINER	8.P.M.	PUMP OUTPUT
DEPTH INTI	7769  DEPTH 770  OG TO 19:00	DEV.	D	IR.	TVD	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE	5.P.M.	LINER	SPM	LINER	8.P.M.	PUMP OUTPUT
DEPTH INTI	776 9  DEPTH 770  OG TO	DEV.	D	IŘ.	TVD	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE	5.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	7769  DEPTH 770  OG TO 19:00	DEV.	D	IŘ.	TVD	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE	5.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME LO FROM  78:00  (9:30)	7769  DEPTH 770  OG TO 19:00	DEV.	D	DE NO.	TVD	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE	5.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI	7769  DEPTH  770  TO  19:00  3:00  3:30	DEV.	D	JIR. JIR. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE	5.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.  SO  HOP DIS	LINER SIZE  S'Z	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.	LINER SIZE  S'Z	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.  SO  HOP DIS	LINER SIZE  S'Z	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI FROM 7695  DEVIATION RECORD  TIME LO FROM 78:00 9:00 3:00 3:30 4:00	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.  SO  HOP DIS	LINER SIZE  S'Z	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI FROM 7695  DEVIATION RECORD  TIME LO FROM 78:00 9:00 3:00 3:30 4:00	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.  SO  HOP DIS	LINER SIZE  S'Z	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI FROM 7695  DEVIATION RECORD  TIME LO FROM 78:00 79:00 3:00 3:00 4:00	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.  SO  HOP DIS	LINER SIZE  S'Z	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT
DEPTH INTI FROM 7495  DEVIATION RECORD  TIME LO FROM 18:00 4:00 3:30 4:00	7709  DEPTH  770  TO  19:00  3:00  4:00	DEV.	D	IA. DE NO. 2	TVD  DETAIL  Or  Col.	HORIZ DISP	Z. DE	<b>70</b>	US DEV.	PRESSURE  / 64/0  DIR.	S"  TVD	S.P.M.  SO  HOP DIS	LINER SIZE  S'Z	S.P.M.	LINER	DIR.	LINER	S.P.M.	PUMP OUTPUT

							DAILI DI	LLING REI	PORI			10	EPORT N	٠.		
EASE						<del>-</del>	WELL NO.	API WEL	L NUMB	ER			WATER	DEPTH	DAT	E
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10.		NIGHT	DAT	NO.		ITEM	LENGTH	BIT NO.		7		TIME			1700	_
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DRILL AC	CTUAL	1		1	8	Seh	3.04	IADC CODE				PRESSURE GRADIENT			,	
REAMING	G	4		9	111	7	2/15013	MANUFACT	TURER	7520		FUNNEL VISCOSITY			42	٦
CORING		•		#/	-			TYPE				PV/YP	/	7	10	┪
CONDITIO	ON MUD	31/5			2/	ARS OD	29.00	SERIAL NO	50	212/1			//	<del>                                     </del>	//	$\dashv$
TRIPS	<u> </u>	2		8	6"	DC 00	<i>2</i> 37.38	JETS		2001	Marine II.	GEL STRENGTH				
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	NG & CEMENT				STAN	DS D.P.		TOTAL HOL	JRS	153/4		TYPE	AMOUNT	TYPE	AMOUN	iΤ
. WAIT ON		-		1	SINGL	_ES D.P.		INNER	CUTTING OUTER	STRUCTURE DULL CHAR.	LOCATION	Seed	105	Cel	72	×
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NIPPLE U	,			╂	TOTA	ı		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	DUST BAO	555%	SOUR	25	
TEST B.C	D.P.			<b>.</b>	L			SEALS	GAGE	CHAR.		SEAL.	77	A5H	9	<u>`</u>
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					<u> </u>	<u>JVIEIL</u>	<u>,</u> TENTINI	Service Control								
FISHING					C(	NFIL	DENTIAL									
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A. PER	RK			NO.	T T	(At end of to	DENTIA		3 BIT R	DRII	ler 🗴	TIME WEIGHT		ECORD		2
A. PER	RK RFORATING BING TRIPS EATING			NO.		(At end of to	EMBLY LENGTH	BIT NO.	BIT A	DRII RECORD	LER S	WEIGHT	18:00	ECORD (2;88	5,'0	D
A. PER	REFORATING BING TRIPS EATING ABBING			No.		(At end of to ITEM 3/L/ SUB	EMBLY JULENGTH 1,00 3,04	BIT NO. SIZE	BIT F	DRII RECORD	ler S	WEIGHT PRESSURE GRADIENT FUNNEL	18:00	ECORD (2;88	<i>s</i> ;0,8,4	D
A. PER B. TUB C. TRE D. SW/	REFORATING BING TRIPS EATING ABBING			No.		(At end of to	EMBLY JULENGTH 1,00 3,04	BIT NO. SIZE IADC CODE	BIT F	DRIII	LER S	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	18:00	ECORD (2;88	5,'0	ð
A. PEFF B. TUB C. TREE D. SWW. E. TES	REFORATING BING TRIPS EATING ABBING			1 9		(At end of to ITEM 3/L/ SUB	EMBLY JULENGTH 1,00 3,04	BIT NO. SIZE IADC CODE MANUFACT TYPE	BIT R	DRIII	LER S	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP	18:00 8.5	ECORD (2;88	<i>s</i> ;0,8,4	D
A. PER B. TUB C. TRE D. SW/ E. TES F. G.	REFORATING BING TRIPS EATING ABBING			No. 1 9 1 8		(At end of to	EMBLY DUI  LENGTH  1.00  3.04  26593	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO	BIT R	0 83/4 21TC GTS20 21367	LER S	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	18:00 8.5	ECORD (2;88	<i>s</i> ;0,8,4	D
A. PEF B. TUB C. TRE D. SW/ E. TES F. G. H.	REFORATING BING TRIPS EATING ABBING			1 9		(At end of to ITEM 83/L1 SUB "DC 800 "DC 800	EMBLY DUI  LENGTH  1.00  3.04  26593	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS	BIT R	DRIII	LER S	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL	18:00 8.5	ECORD (2;88	<i>s</i> ;0,8,4	ð
A. PER B. TUB C. TRE D. SW/ E. TES F. G. H.	REFORATING SING TRIPS EATING ABBING STING	12		1 9		(At end of to ITEM 3/4/ SUB "DC So OD	EMBLY DUI  LENGTH  1.00  3.04  26593	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO	BIT R	0 83/4 21TC GTS20 21367	LER S	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID	18:00 8.5	ECORD (2;88	<i>s</i> ;0,8,4	ð
A. PER B. TUB C. TRE D. SW/ E. TES F. G. H.	REFORATING BING TRIPS EATING ABBING	SUMMARY E ONLY)		1 9		(At end of to ITEM 83/L1 SUB "DC 800 "DC 800	EMBLY DUI  LENGTH  1.00  3.04  26593	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS	BIT R	0 83/4 21TC GTS20 21367	LER S	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH	18:00 8.5	ECORD (2;88	<i>s</i> ;0,8,4	D
A. PEFBB. TUBB. C. TREBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TESBB. TUBB. TUBB. TUBB. TESBB. TUBB. TUBB. TUBB. TESBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUBB. TUB	REFORATING BING TRIPS EATING ABBING STING AYWORK TIME (OFFICE USI	J 2 SUMMARY E ONLY)		1 9		(At end of to ITEM 3/4/ SUB "DC So OD	EMBLY DUI  LENGTH  1.00  3.04  26593	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA	BIT R	0 83/4 21TC GTS20 21367	LER S	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS	18:00 8.5	ECORD (2;88	<i>s</i> ;0,8,4	<b>D</b>
A. PER B. TUB C. TRE D. SW/ G. H.  DATALS DATA DURS W/ CO	REPORATING BING TRIPS EATING ABBING STING  AVWORK TIME (OFFICE USI	SUMMARY ONLY)		1 9		(At end of to ITEM 3/4/ SUB "DC So OD	EMBLY DUI  LENGTH  1.00  3.04  26593	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU	BIT A	9 83/4 21TC GTS20 21367 Open	LER S	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	18:00 8.5 46	12:00 8:4 45	5;0 8.4 4d	D
D. FISHING D. DIR. WOR  A. PER B. TUB C. TRE D. SW/ E. TES F. G. H.  DURS W/ CO DURS W/ CO	REFORATING BING TRIPS EATING ABBING STING AYWORK TIME (OFFICE USI ONTR. D.P.	SUMMARY ONLY)		1 9		(At end of to	EMBLY DUI  LENGTH  1.00  3.04  26593	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN	BIT R	9 83/4 21TC GTS20 21367 Open	LER S	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	18:00 8.5 46	ECORD (2;88	5;0 8.4 44	
A. PEF B. TUB C. TRE D. SW/ E. TES H.  DATALS DATALS DURS W/ CO	RECORATING BING TRIPS EATING ABBING STING  AVWORK TIME (OFFICE USI ONTR. D.P. IPR. D.P.	SUMMARY E ONLY)		1 9	BIT O	(At end of to	EMBLY  LENGTH  1,00  3,04  265,93  29,00  237,35	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI	BIT R	BECORD  9  83/4  CITC GTS20  21367  Open  5768  STRUCTURE		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH  SOLIDS	18:00 8.5 46 MUD & CHEM	12:00 8:4 45	5;0 8.4 44	
A. PEF B. TUB C. TRE D. SW/ E. TES H. TALS DA URS W/ CO	RECORATING BING TRIPS EATING ABBING STING  AVWORK TIME (OFFICE USI ONTR. D.P. IPR. D.P.	SUMMARY E ONLY)		1 9	BIT (	(At end of to	ENDLY  LENGTH  1.00  3.04  265,93  29.00  237,35	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI	BIT R	93/4 83/4 21TC GTS20 21367 Open		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	18:00 8.5 46 MUD & CHEM AMOUNT 120	12:00 8:4 45	5;0 8.4 44	
A. PEF B. TUB C. TRE D. SW/ E. TES H. TALS DA URS W/ CO	RECORATING BING TRIPS EATING ABBING STING  AVWORK TIME (OFFICE USI ONTR. D.P. IPR. D.P.	SUMMARY ONLY)		1 9	BIT O	(At end of to	EMBLY  LENGTH  1,00  3,04  265,93  29,00  237,35	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T CUTTING OUTER	BECORD  93/4  GITC GTS20  21367  Open  5768  STRUCTURE DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	18:00 8.5 46 MUD & CHEM	12:00 8:4 45	5;0 8.4 44	
A. PEF B. TUB C. TRE D. SW/ E. TES H.  DATALS DATALS DURS W/ CO	RECORATING BING TRIPS EATING ABBING STING  AVWORK TIME (OFFICE USI ONTR. D.P. IPR. D.P.	SUMMARY ONLY)		1 9 1 8	BIT O	(At end of to	ENDLY  LENGTH  1.00  3.04  265,93  29.00  237,35	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI	BIT R	BECORD  9  83/4  CITC GTS20  21367  Open  5768  STRUCTURE		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	18:00 8.5 46 MUD & CHEM AMOUNT 120	12:00 8:4 45	5;0 8.4 44	
A. PEF B. TUB C. TRE D. SW/ E. TES H.  DATALS DATALS DURS W/ CO	RECORATING BING TRIPS EATING ABBING STING  AVWORK TIME (OFFICE USI ONTR. D.P. IPR. D.P.	SUMMARY E ONLY)		1 9 1 8	BIT O	(At end of to	EMBLY JULENGTH 1,00 3,04 265,93 29,00 237,35 -536,35 -7143 40	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T CUTTING OUTER	BECORD  93/4  GITC GTS20  21367  Open  5768  STRUCTURE DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	18:00 8.5 46 MUD & CHEM AMOUNT 120	12:00 8:4 45	5;0 8.4 44 //	
A. PEF B. TUB C. TRE D. SW/ E. TES F. G. H.  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  DATALS  D	REFORATING BING TRIPS EATING ABBING STING  AYWORK TIME (OFFICE USI ONTR. D.P. PR. D.P. HOUT D.P. NDBY	SUMMARY ONLY)		1 9 1 8	BIT OF STAN SINGELL' TOTA	(At end of to	EMBLY JULENGTH 1,00 3,04 265,93 29,00 237,35 -536,35 -7143 40	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T CUTTING OUTER	BECORD  93/4  GITC GTS20  21367  Open  5768  STRUCTURE DULL CHAR.	LOCATION	WEIGHT  PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP  GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE  BAT OL COLOR Pac R	18:00 8.5 46 MUD & CHEM AMOUNT 120	12:00 8:4 45	5;0 8.4 44 //	
A. PERB. TUB. C. TRE. D. SW/. E. TES. F. G. H. DURS W/ CO DURS W/ CO DURS W/Th DURS STAN	REFORATING BING TRIPS EATING ABBING STING AYWORK TIME (OFFICE USI ONTR. D.P. HOUT D.P. NDBY	SUMMARY ONLY)		72 X	BIT OF STAN SINGELL' TOTA	(At end of to	EMBLY JULENGTH 1,00 3,04 265,93 29,00 237,35 -536,35 -7143 40	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T CUTTING OUTER	BECORD  9 83/4 21TC GTS20 21367 Open  5768 TUSA STRUCTURE DULL CHAR. OTHER DULL CHAR.	LOCATION	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH  SOLIDS  TYPE  BOT OF  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CO	18:00 8.5 46 MUD & CHEM AMOUNT 120	12:00 8:4 45	5;0 8.4 44 //	
A. PEF B. TUB C. TRE D. SW E. TES F. G. H.  DURS W/ CO DURS W/ CO DURS WITH DURS STAN	REPORATING BING TRIPS EATING ASSING STING AYWORK TIME (OFFICE USI ONTR. D.P. HOUT D.P. NDBY	SUMMARY ONLY)		72 X	BIT (  B)  STAN SINGI KELL  TOTA F STRIM RKS	(At end of to	EMBLY  LENGTH  1.00  3.04  265,93  29.00  237,35  7143  40  7719  2,000  1.54	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T CUTTING OUTER	BECORD  93/4  GITC GTS20  21367  Open  5768  STRUCTURE DULL CHAR.	LOCATION	WEIGHT  PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP  GEL STRENGTH FLUID LOSS PH SOLIDS  TYPE  BAT OL COLOR Pac R	18:00 8:5 46 MUD & CHEM AMOUNT 120 40	12:00 8:4 45	5;0 8.4 44 //	
A. PER B. TUB C. TRE D. SW/ E. TES F. G. H.  DURS W/ CO DURS W/ CO DURS W/ CO DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DURS STAN  DATAL DAYY DAY  DATAL DAYY DAY  DAY  DAY  DAY  DAY  DAY  DAY	REFORATING BING TRIPS EATING ABBING STING  AYWORK TIME (OFFICE USI ONTR. D.P. HOUT D.P. NDBY  WORK S	SUMMARY E ONLY)		72 X	BIT OF STAIN SINGLE TOTAL FETRINGS	CAT end of to	EMBLY JUN  LENGTH  1.00 3.04 265,93 29.00 237,35  -536,35 -7143 40 -7719 2,000 1,54 2500 1500	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T CUTTING OUTER	BECORD  9 83/4 21TC GTS20 21367 Open  5768 TUSA STRUCTURE DULL CHAR. OTHER DULL CHAR.	LOCATION	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH  SOLIDS  TYPE  BOT OF  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CO	18:00 8:5 46 MUD & CHEM AMOUNT 120 40	12:00 8:4 45	5;0 8.4 44 //	
DIR. WORD  A. PER  B. TUB  C. TRE  D. SW/  E. TES  F.  G.  H.  DURS W/ CO  DURS W/ CO  DURS W/ TO  DURS STAN  DAY  DOTAL DAYY  D. OF DAYS  ROM SPUD  JMULATIVE  DIATING H	RECORATING BING TRIPS EATING ABBING STING OFFICE USI ONTR. D.P. HOUT D.P. HOUT D.P. WORK S EOURS	SUMMARY E ONLY)		72 X	BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BIT OF BI	(At end of to	EMBLY  LENGTH  1.00  3.04  265,93  29.00  237,35  7143  40  7719  2,000  1.54  2500  800	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL	T CUTTING OUTER	BECORD  9 83/4 21TC GTS20 21367 Open  5768 TUSA STRUCTURE DULL CHAR. OTHER DULL CHAR.	LOCATION	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH  SOLIDS  TYPE  BOT OF  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CO	18:00 8:5 46 MUD & CHEM AMOUNT 120 40	12:00 8:4 45	5;0 8.4 44 //	
D. FISHING D. DIR. WOF D. DIR. WOF D. SW/ E. TES F. G. H. DOTALS	REFORATING BING TRIPS EATING ABBING BING TRIPS EATING AVWORK TIME (OFFICE US) ONTR. D.P. HOUT D.P. NDBY  WORK S EOURS COST	SUMMARY ONLY)		73 X WT. 0	BIT OF BIT OF STAN SINGE KELL' TOTA F STRIN RKS	(At end of to	EMBLY  LENGTH  1.00  3.04  265,93  29.00  237,35  7143  40  7719  2,000  1.54  2500  800	BIT NO. SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HOL INNER BEARINGS/ SEALS	BIT R  FURER  CUTTING OUTER  GAGE	BRILL CHAR.	LOCATION	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  PH  SOLIDS  TYPE  BOT OF  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CONSTREE  CO	18:00 8:5 46 MUD & CHEM AMOUNT 120 40	12:00 8:4 45	5;0 8.4 44 //	

MI BULL	E Mt.	N.	DUNTY	ME			STATE / COU	HAA			INE REC		REEL NO.					
	SIZE	MAI	KE .	WEIG & GR	ADE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE /	1/8	NO. L	INES / C	>	LENGTH	SLIPPED	****	
LAST CASING	9%	5/9	-	36			4479	110	4413	LENGTH	CUT OFF			PRESE	NT LENGTH			
TUBING OR LINER										WEAR O	R TRIPS AST CUT		-	<u> </u>				
						,				CUMULA WEAR O	TIVE R TRIPS						,	***
DEPTH INTI	ERVAL	DRILLD			EAR	MATION	BOT	3000		PUMP	NO. 1	PUI	IP NO. 2	PUM	P NO. 3	PUM	P NQ. 4	
FROM	то	REAM.R COREC	NO.	(\$		RE RECOVE	RY) ROTA	WT. ON ED BIT	PUMP	LINER	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	TOTAL PUMP OUTPU
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DEVIATION	DEPTH	DEV.		NR.	TVD	HORIZ DISP	Z. DEPTH	DEV.	DIR.	TVD	HOF DIS	RIZ. SP.	DEPTH	DEV.	DIR.	т	VD	HORIZ. DISP.
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DEPTH INTE		DN44_D	CORE		FORN	IATION	Lot			PUMP	No. 1	PUM	IP NO. 2	PUM	NO. 3	PUMF	³ NO. 4	TOTAL
DEPTH INTE	ERVAL TO	DRILL D REAM R CORE C	CORE	(\$)		IATION É RECOVEI	ROTA TABI	RY WT. ON BIT	PUMP	PUMP LINER SIZE	NO. 1	PUM LINER SIZE	IP NO. 2	PUMI LINER SIZE	NO. 3	PUMF LINER SIZE	PNO. 4	TOTAL PUMP OUTPUT
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PROM  PROM  PROM  DEVIATION RECORD	T0 77/9 DEPTH	REAMR COREC	NO.		HOW COR	HORIZ DISP.	6	DEV.	350 DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION RECORD	77/9  DEPTH  DG  TO  19:30	DEV.	D COD	PR.	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	77/9  DEPTH  DEPTH  19:30 21:00	DEV.	D COD	DE NO.	TVD DETAILS	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION RECORD	DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH	DEV.	D COD	DE NO.	TVD  DETAILS  Cov  7/0	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION RECORD	DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH	DEV.	D COD	DE NO.	TVD  DETAILS  Cov  7/0	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH	DEV.	D COD	DE NO.	TVD  DETAILS  Cov  7/0	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH	DEV.	D COD	DE NO.	TVD  DETAILS  Cov  7/0	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION RECORD	DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH	DEV.	D COD	DE NO.	TVD  DETAILS  Cov  P/(  Cov	HORIZ DISP.	DEPTH  ATIONS IN SECONDARY  And  Kelli  F/7  And	DEV.  DEV.  C. 1	DIR.  REMARKS  Oct.	TVD	HORDIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME LO FROM  (3 : 0 0 )  (4 : 3 0 )  (4 : 3 0 )  (5 : 0 0 )  (6 : 3 0 )  (7 : 0 0 )  (8 : 0 0 )  (9 : 3 0 )  (9 : 3 0 )  (9 : 3 0 )  (9 : 3 0 )  (9 : 3 0 )  (9 : 3 0 )  (9 : 3 0 )  (9 : 3 0 )  (9 : 3 0 )	DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH	DEV.  DEV.  LAPSELTIME  1 1/2  1 /2	D COD	DE NO.	TVD  DETAILS  Cov  P/(  Cov	HORIZ DISP.	DEPTH	DEV.  DEV.  C. 1	DIR.  REMARKS  Oct.	TVD	HORDIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT

		06			7	÷	DAILY DRI	LLING RE	PORT	I		R	EPORT N	0.		
LEASE							WELL NO.	API WEI	LL NUM	BER	4.		WATER		DATE	
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	E DISTRIBUTIO	ON - HOU	<b>A3</b>			At end of to			BIT	RECORD			MUD RI	ECORD		
CODE - OF		NIGHT	DAY	NO.	IT	ЕМ	LENGTH	BIT NO.		9		TIME	700			
1. RIG UP TEAR D	AND DOWN			1	віт 8	3/4	1.00	SIZE		83/4		WEIGHT	8.6			
2. DRILL A	ACTUAL			<b> </b>	7:4	LSER	3.04	IADC CODI	E			PRESSURE GRADIENT				
3. REAMIN	NG	<u> </u>		la	101	1	265.93	MANUFAC	TURER	HTZ		FUNNEL VISCOSITY	43			
4. CORING				17,			.,,	TYPE	6	J5 20		PV/YP	<b>47</b>	7	7	1
	TION MUD ULATE		1	##		<u>(3</u> OD	29.00	SERIAL NO	). <u>S</u>	2136	7	GEL	<del>                                     </del>	<del>                                     </del>	//	-
6. TRIPS		2	5	8	(e 1)	C OD,	237.38	JETS		DEN		STRENGTH FLUID	/	/	/	-
7. LUBRIC				<b> </b>	0	OD OD		TFA		1		LOSS			*	-
8. REPAIR				-	BA	H 00	536.35	DEPTH OU	IT			рН			,	
9. DRILLIN				<b>-</b>	<u> </u>			DEPTH IN		5768		SOLIDS	44			
	INE LOCK	17		1				TOTAL DR		2 160	·	LCM	40/35		<u> </u>	
11. WIRE L		10		16	STANDS	SD.P.		TOTAL HO		1/3/2		TYPE	MUD & CHEMI AMOUNT	TYPE	AMOUNT	
• • • • • • • • • • • • • • • • • • • •	SING & CEMENT ON CEMENT			#	SINGLES	SD.P.	7143			STRUCTURE	LOCATION	Peuc	30 4		50	
13. WAIT O					KELLY D	OWN	40	INNER	OUTER	DULL CHAR.	LOCATION	Baro	80 TX	771	40	
14. NIPPLE				1	TOTAL			BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	PACD	- 5x		1	1
	STEM TEST			WT. O	I F STRING			<del></del>		CHAR.		Cousti	Ø.	,	1	-
17. PLUG B			<del>-</del>	1	<u>N</u>	1	1 50				<u></u>	SOLA	,	<u> </u>	1	$\blacksquare$
	ZE CEMENT			REMA	RKS 1)	ro c	ex Sun	(seely	K				Exilex	- 12	HRS	-
19. FISHING	· · · · · · · · · · · · · · · · · · ·			1	esta in a second	eng wegi	<u> </u>			<del></del>		· •			-	
20. DIR. WO					$\Gamma$		IDENTL	ΛI								
21.			L	es :			11 11-171 1 1	<del>                                      </del>								
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22.						UINI	IUENII	AL		DRII	LLER	31	Du			
	- 'v - '					UINI Ing ass	EMBLY	AL	BIT	DRII RECORD	LLER	51	MUD RI	ECORD .		
23.	ERFORATING				(2	At end of to	EMBLY our)		ВІТ	RECORD	LLER	31	MUD RI	ECORD		
23. A. PE	ERFORATING JBING TRIPS			NO.	m		EMBLY	BIT NO.	BIŤ	RECORD	LLER	TIME	MUD RI	ECORD		
23. A. PE B. TU				NO.	(2	At end of to	EMBLY our)	BIT NO.	Anterior de la companya de la companya de la companya de la companya de la companya de la companya de la compa	RECORD	LLER	WEIGHT		ECORD		
23. A. PE B. TU	JBING TRIPS			NO.	m	At end of to	EMBLY our)	BIT NO. SIZE IADC CODI	E	RECORD 93/4	LLER	WEIGHT PRESSURE GRADIENT		ECORD		
23. A. PE B. TU	JBING TRIPS			NO.	віт О	At end of to	EMBLY our)	BIT NO. SIZE IADC CODI	E	RECORD	LLER Á	WEIGHT		ECORD		
23.  A. PE  B. Tu  C. TF  D. SV	JBING TRIPS REATING WABBING			1	віт О	At end of to EM 3/4 008	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE	E TURER	83/4 HTC 520	LLER	WEIGHT PRESSURE GRADIENT FUNNEL		ECORD		
B. TU C. TF D. SV E. TE	JBING TRIPS REATING WABBING			1	віт О	At end of to EM 1,3/4 DC 3 <sub>OD</sub>	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC' TYPE SERIAL NO	E TURER	RECORD 93/4	LLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY		ECORD		
23.  A. PE  B. TU  C. TF  D. SV  E. TE  F.	JBING TRIPS REATING WABBING			1191	віт О	At end of to  EM  3/4  0/5  0/5  0/5  0/5  0/5  0/5  0/5  0	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE	E TURER	83/4 HTC 520	LLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID		ECORD		
23.  A. PE B. TU C. TF D. SV E. TE F. G. H.	JBING TRIPS REATING WABBING ESTING	12	12	1 0 - 0	віт О	At end of to  EM  3 3/4  C 3 OD  OD  OD	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC' TYPE SERIAL NO	E TURER	83/4 HT( 520 21367	LLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH		ECORD		
23.  A. PE B. TU C. TF D. SV E. TE F. G. H.	JBING TRIPS REATING WABBING	SUMMARY ONLY)	12	1 0 - 0	віт О	At end of to  EM  3/4  0/5  0/5  0/5  0/5  0/5  0/5  0/5  0	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS	E TURER Ca T	83/4 HT( 520 21367	LLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH		ECORD		
23.  A. PE B. TU C. TF D. SV E. TE G. H.  TOTALS	JBING TRIPS REATING WABBING ESTING	SUMMARY ONLY)	12	1 0 - 0	ВІТ 8 В/S (6") За	At end of to  EM  3,3/4  0,00  0,00  00  00	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA	E TURER Ca T	83/4 HT( 520 21367	LLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS		ECORD		
23.  A. PE B. TU C. TF D. SV E. TE G. H.  TOTALS	JBING TRIPS REATING WABBING ESTING  DAYWORK TIME (OFFICE USE	SUMMARY ONLY)	12	1 0 1 0	B/S 6"1 50	At end of to  EM  3/4  C OD  C OD  OD  OD	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU	E TURER Cy T	83/4 83/4 HTC 520 21367 Open	LLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH				
A. PE B. TU C. TF D. SV E. TE G. H. TOTALS	JBING TRIPS REATING WABBING ESTING  DAYWORK TIME (OFFICE USE	SUMMARY ONLY)	12	1 0 - 0	B/S 6"1 50	At end of to  EM  3,3/4  0,00  0,00  00  00	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN	E TURER  O. SO	83/4 83/4 HTC 520 21367 Open	LLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH			AMOUNT	
A. PE B. TU C. TF D. SV E. TE G. H. TOTALS	DAYWORK TIME (OFFICE USE CONTR. D.P. OPR. D.P.	SUMMARY ONLY)	,12	1 0 1 0	BIT 8 B/S Le'' Ja Le'' STANDS	At end of to  EM  3/4  C OD  C OD  OD  OD	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC' TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN	E TURER  O. SO	83/4 83/4 HTC 520 21367 Open		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	ICALS ADDED		
A. PE B. TU C. TF D. SV E. TE G. H. TOTALS HOURS W/H HOURS WITH	DAYWORK TIME (OFFICE USE CONTR. D.P. OPR. D.P.	EONLY)	12	1 0 1 0	BIT 8 B/S Le'' Ja Le'' STANDS	At end of to  EM  3,3/4  C S OD  OD  OD  OD  D  D  D  D  D  D  D  D	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	E TURER  C. SO  IT  ILLED  URS  CUTTING	83/4 83/4 HTC 520 21367 OPEN STRUCTURE DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	ICALS ADDED		
A. PE B. TU C. TF D. SV E. TE G. H. TOTALS DIGURS W/G	DAYWORK TIME (OFFICE USE CONTR. D.P. OPR. D.P.	E ONLY)	12	1 0 1 0	BIT 9 B/S Lo''  STANDS SINGLE	At end of to  EM  3,3/4  C S OD  OD  OD  OD  D  D  D  D  D  D  D  D	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC' TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	E TURER  C. SO  IT  ILLED  URS  CUTTING	83/4 83/4 HTC 520 21367 Open		WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	ICALS ADDED		
A. PE B. TU C. TF D. SV E. TE G. H. OTALS DOURS W/G	DAYWORK TIME (OFFICE USE CONTR. D.P. OPR. D.P.	EONLY)		1 9	BIT 9 BIT 9 BIS 6''  STANDS SINGLE	At end of to  EM  3,3/4  COD  COD  OD  OD  DP  B  DP  DOWN	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	E TURER  O. SO  UT  URS  CUTTING OUTER	83/4 83/4 HTC 520 21367 OPEN STRUCTURE DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	ICALS ADDED		
A. PE B. TU C. TF D. SV E. TE G. H. OURS W/G HOURS WITH HOURS STA	JBING TRIPS REATING WABBING ESTING  DAYWORK TIME (OFFICE USE CONTR. D.P. OPR. D.P. THOUT D.P. ANDBY	E ONLY)	12	1 9	BIT 9 B/S B/S CO' STANDS SINGLE KELLY I TOTAL	At end of to  EM  3,3/4  COD  COD  OD  OD  DP  B  DP  DOWN	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	E TURER  O. SO  UT  URS  CUTTING OUTER	83/4 83/4 HTC 520 21367 OPEN STRUCTURE DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	ICALS ADDED TYPE	AMOUNT	
A. PE B. TU C. TF D. SV E. TE G. H. TOTALS  HOURS W/ HOURS WITH HOURS STA	JBING TRIPS REATING WABBING ESTING  DAYWORK TIME (OFFICE USE CONTR. D.P. OPR. D.P. THOUT D.P. ANDBY	E ONLY)		76 wr.o	BIT 9 B/S B/S CO' STANDS SINGLE KELLY I TOTAL	At end of to  EM  3,3/4  COD  COD  OD  OD  DP  B  DP  DOWN	EMBLY our)	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	E TURER  O. SO  UT  URS  CUTTING OUTER	83/4 83/4 HTC 520 21367 OPEN STRUCTURE DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI	ICALS ADDED TYPE	AMOUNT	
A. PE B. TU C. TF D. SV E. TE G. H. TOTALS  TOTALS  TOTAL DAY NO. OF DAY ROOM SPUI	JBING TRIPS REATING WABBING ESTING  DAYWORK TIME (OFFICE USE CONTR. D.P. OPR. D.P. THOUT D.P. ANDBY  YWORK YS D	E ONLY)		76 wr.o	BIT 9 B/S B/S CO' STANDS SINGLE KELLY I TOTAL	At end of to  EM  3,3/4  C OD  C OD  OD  OD  OD  OD  OD  OD  OD  OD  OD	EMBLY Dury  LENGTH	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	E TURER  O. SO  UT  URS  CUTTING OUTER	RECORD  83/4  HTC  \$20 21367  OPEN  STRUCTURE DULL CHAR.  OTHER DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	ICALS ADDED TYPE	AMOUNT	
A. PE B. TU C. TF D. SV E. TE G. H. TOTALS DOURS W/1 HOURS W/1 HOURS ST/	JBING TRIPS REATING WABBING ESTING  DAYWORK TIME (OPFICE USE CONTR. D.P. OPR. D.P. THOUT D.P. ANDBY  YWORK YS D VE HOURS	E ONLY)		74 WT. 0	BIT 9 B/S B/S CO' STANDS SINGLE KELLY I TOTAL	At end of to  EM  3,3/4  C OD  C OD  OD  OD  OD  OD  OD  OD  OD  OD  OD	EMBLY Dur)  LENGTH	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	E TURER  O. SO  UT  URS  CUTTING OUTER	RECORD  83/4  HTC  \$20 21367  OPEN  STRUCTURE DULL CHAR.  OTHER DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	ICALS ADDED TYPE	AMOUNT	
A. PE B. TU C. TF D. SV E. TE G. H. OTALS  OURS W/ OURS WITH OURS STA	JBING TRIPS REATING WABBING ESTING  DAYWORK TIME (OFFICE USE CONTR. D.P. OPR. D.P. THOUT D.P. ANDBY  YWORK YS D  YVE HOURS D COST	E ONLY)		74 WT. 0	BIT 9 B/S B/S COLORED BIT 9 B/S B/S B/S B/S B/S B/S B/S B/S B/S B/S	At end of to  EM  3,3/4  C OD  C OD  OD  OD  OD  OD  OD  OD  OD  OD  OD	EMBLY Dury  LENGTH	BIT NO. SIZE IADC CODI MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DRI TOTAL HO	E TURER  O. SO  UT  URS  CUTTING OUTER	RECORD  83/4  HTC  \$20 21367  OPEN  STRUCTURE DULL CHAR.  OTHER DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	ICALS ADDED TYPE	AMOUNT	



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DEPTH INT	FERVAL 10		DRILLO REAM.R CORE.C	CORE	(\$	A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH	IATION E RECOVER	<b>Y</b>	ROTARY TABLE SPEED	WT. ON BIT	PUMP	PUMP I	NO.1	PUNER SIZE	T	PUMF LINER SIZE	PNO. 3	PUMP LINER SIZE	PNO. 4	TOTAL PUMP OUTPUT
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FROM			DRILL D REAM R CORE. C	CORE	(\$8	A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH		17)	ROTARY TABLE SPEED		PUMP		reactive in Study Basis	LINER	T				T	PUMP
FROM	<b>TO</b>		COREC	NO.		HOW CORE	E RECOVER				PUMP	LINER	S.P.M.	LINER SIZE	T				S.P.M.	PUMP OUTPUT
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FROM	N DI		COREC	NO.		HOW CORE	E RECOVER				PUMP PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	TO DI		DEV.	D D	IR.	TVD	HORIZ DISP.	DE	РТН	DEV.	PUMP PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	N Di	EPTH	DEV.	D COD	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DE	РТН	DEV.	PUMP PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	.00 TO	ЕРТН	DEV.	D COD	IR.	TVD	HORIZ DISP.	DE	РТН	DEV.	PUMP PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	N Di	ЕРТН	DEV.	D COD	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	.0G TO 20:	ЕРТН	DEV.	D	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME L FROM  (8:00	.0G TO 20:	,00 30	DEV.	D	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS	TVD Ser	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME L FROM  (8:00	.0G TO 20:	.00 30	DEV.	D	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME L FROM  (8:00	.00 TO 20'	.00 30	DEV.	D	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME L FROM  (8:00	.00 TO 20'	.00 30	DEV.	D	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME L FROM  (8:00	.00 TO 20'	.00 30	DEV.	D	IR. DE NO.	TVD DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS  M be  June	TVD	HOR DISF	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME L FROM  (8:00	.00 TO 20'	.00 30	DEV.	D	IR. DE NO.	TVD  DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS  M be  June	TYD Some	HOR DISF	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME L FROM  (8:00	.00 TO 20'	.00 30	DEV.	D	IR. DE NO.	TVD  DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS  M be  June	TYD Some	HOR DISF	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME L FROM  18:00  20:00  20:30	.00 TO 20'	.00 30	DEV.	D	IR. DE NO.	TVD  DETAILS	HORIZ DISP.	DE	РТН	DEV.	DIR.  REMARKS  M be  June	TYD Some	HOR DISF	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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TOTAL DAYWORK NO. OF DAYS CUMULATIVE ROTATING HOURS DAILY MUD COST TOTAL MUD COST

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Ann 900 IADC - API OFFICIAL DAILY DRILLING REPORT FORM

Mar 1600

WT. OF STRING 168,000

2500

TOTAL



7690.10

Fork lift!

MUDDET			DUNTY	uei	Ry			COUNTR			WIRE LI	INE REC	ORD	REEL NO.					
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CODE - OPER	ATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.	9	<del>, i</del>	TIME	700		Time in the	
1. RIG UP AN TEAR DOW	D VN				BIT & 3/1/	/	SIZE	834		WEIGHT	8.7			-
2. DRILL ACT	'UAL			<b> </b>	2/0	3104	IADC CODE	1771		PRESSURE GRADIENT			<u> </u>	-
3. REAMING					D. 340	3/07	MANUFACTURE	R HTC	l	FUNNEL	<i>C</i> .			-
4. CORING				19	6 DC	on 265.43	TYPE	1500		VISCOSITY	80	<del>                                     </del>	<del></del>	-
5. & CIRCULA	N MUD ATE		23/4		SAKS	00 29.00	SERIAL NO.	5021367		PV/YP GEL	/_	<del>                                     </del>	<del>                                     </del>	4
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7. LUBRICATE	E RIG			<b>.</b>	BHA	00 534.35	TFA	Open	· · · · · · · · · · · · · · · · · · ·	FLUID LOSS				_
8. REPAIR RI						OD	DEPTH OUT	1		рН				▋
9. DRILLING L	LINE						DEPTH IN	1010		SOLIDS				_
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12. RUN CASING				14	SINGLESC	).P.	CUTT	ING STRUCTURE		Ge (	8 ××		7	1
13. WAIT ON C					KELLY DOWN	-	INNER OUT	ER DULL CHAR	LOCATION		8, «x			1
14. NIPPLE UP					TOTAL		BEARINGS/ SEALS GAG	OTHER DULL CHAR.	REASON PULLED	BZ/ F-Z	5 20			1
15. TEST B.O.F				WT 6	FSTRING		SCALS GAG	CHAR.	POLLED	MUd	3 2/2			-
6. DRILL STE				W1. O	FSIMING	<del></del>			<u> </u>	<u>.                                    </u>	2 /			4
17. PLUG BACI		74-75	***	REMAI	rks D/Fo	LEXI	BUMGAL	DNEL			Boile	e12,	1485_	_
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A. PERFI B. TUBIN C. TREA D. SWAE E. TESTI	ORATING NG TRIPS TING				DRILLING A (At end ITEM BIT 83/6 B/SUI	LENGTH  1 1 00  3 3.04  5 00 24 43  00 29 00	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO.	DRI IT RECORD	LLER	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	MUD F	ECORD		
20. DIR. WORK 21. 22. 23.  A. PERFI B. TUBIN C. TREA D. SWAE E. TESTI F.	ORATING NG TRIPS TING			179-	BIT 83/6  BIT 83/6  O'PC	LENGTH  4 1,00  3 3.04  5 00 26,43  00 237,35	BIT NO. SIZE IADC CODE MANUFACTURE TYPE	DRI IT RECORD	LLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL	MUD R	ECORD /	, , , , , , , , , , , , , , , , , , ,	
A. PERFIBERT D. SWAE E. TESTI F. G. H.	ORATING NG TRIPS TING BBING	12		179-	BIT 83/0	LENGTH  4 1.00  3 3.04  5 00 26,43  00 237,35	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO.	DRI IT RECORD	LLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID	MUD F	ECORD		
20. DIR. WORK 21. 22. 23.  A. PERFO B. TUBIN C. TREA D. SWAE E. TESTI F. G. H. TOTALS	ORATING NG TRIPS TING	SUMMARY		179-	BIT 83/0 BIT 83/0 B'SULL W'PC	LENGTH  4 1,00  3 3.04  5 00 26,43  00 237,35	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS	DRI IT RECORD	LLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH	MUD R	IECORD /		
D. SWAE E. TESTI F. G. H. TOTALS	ORATING NG TRIPS TING BBING ING	SUMMARY		179-	BIT 83/0 DC	LENGTH  4 1.00  3 3.04  5 00 245,43  00 237,35	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA	DRI IT RECORD	LLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS	MUD F	ECORD		
20. DIR. WORK 21. 22. 23.  A. PERFI B. TUBIN C. TREA D. SWAE E. TESTI F. G. H. TOTALS DAY ( HOURS W/ OPF	ORATING NG TRIPS TING BBING ING WORK TIME OFFICE USE NTR. D.P. R. D.P.	SUMMARY		9 1	BIT 83/6 BIT 83/6 BIT 83/6 CO'DC	LENGTH 4 1,00 3 3.04 5 245,43 00 237,35	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT	DRI IT RECOND	LLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH	MUD & CHEN			W
DAY  OURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHO	ORATING NG TRIPS TING BBING ING WORK TIME OFFICE USE NTR. D.P. R. D.P.	SUMMARY		179-	BIT 83/SULLING AT STANDS TENDS	LENGTH  4 1,00  3 3.04  5 00 245,43  00 237,35  00 00 00 00 00 00 00 00 00 00 00 00 00	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLED TOTAL HOURS	T RECORD	LLER	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH				
DAY  OURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHO	ORATING NG TRIPS TING BBING ING WORK TIME OFFICE USE NTR. D.P. R. D.P.	SUMMARY		9 1	BIT 83/SUI W'DC	LENGTH  4 1,00  3 3.04  5 00 245,43  00 237,35  00 00 00 00 00 00 00 00 00 00 00 00 00	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLED TOTAL HOURS	TRECORD.		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEN	IICALS ADDE		
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DIR. WORK  11.  12.  13.  A. PERFI B. TUBIN C. TREA D. SWAE E. TESTI F. G. H.  TOTALS  DAY HOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CO	ORATING NG TRIPS TING BBING ING WORK TIME OFFICE USE NTR. D.P. R. D.P.	SUMMARY		9 1	BHA  STANDS TO	LENGTH  4 1,00  3 3.04  5 00 245,43  00 237,35  00 00 00 00 00 00 00 00 00 00 00 00 00	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLED TOTAL HOURS	DRI IT RECORD  RR  RR  ING STRUCTURE ER DUILL CHAR		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEN	IICALS ADDE		
DIR. WORK  11.  12.  13.  A. PERFI B. TUBIN C. TREA D. SWAE E. TESTI F. G. H.  TOTALS  DAY HOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CONHOURS W/ CO	ORATING NG TRIPS TING BBING ING WORK TIME OFFICE USE NTR. D.P. R. D.P.	SUMMARY		76	BHA STANDS TOTAL  TOTAL  TEM  BIT 83/  B/S UT  O'PC  SINGLES D  KELLY DOWN  TOTAL	SSEMBLY of tour)  LENGTH  1,00  3,04  5,00  2(5,43  00,237,35  00,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLED TOTAL HOURS INNER OUT  BEARINGS/ GAG	TRECORD  IT RECORD  ING STRUCTURE ER DULL CHAR  OTHER DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE	MUD & CHEN	IICALS ADDE		
20. DIR. WORK 21. 22. 23.  A. PERFI B. TUBIN C. TREA D. SWAE E. TESTI F. G. H. TOTALS DAY ( HOURS W/ OPFI HOURS W/ OPFI HOURS W/ OPFI HOURS STAND	ORATING NG TRIPS TING BBING ING WORK TIME (OFFICE USE NTR. D.P. DUT D.P. DBY	SUMMARY		76	BHA STANDS TOTAL  TOTAL  TEM  BIT 83/  B/S UT  O'PC  SINGLES D  KELLY DOWN  TOTAL	SSEMBLY of tour)  LENGTH  1,00  3,04  5,00  2(5,43  00,237,35  00,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLED TOTAL HOURS INNER OUT  BEARINGS/ GAG	TRECORD  IT RECORD  ING STRUCTURE ER DULL CHAR  OTHER DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE	MUD & CHEN	IICALS ADDE		
DE TOTALS  DAY'  COTAL DAYWO  TOTAL DAYWO  TOTAL DAYWO  TOTAL DAYWO  TOTAL DAYWO  TOTAL DAYWO  TOTAL DAYWO  TOTAL DAYWO	ORATING NG TRIPS TING BBING ING WORK TIME (OFFICE USE NTR. D.P. DUT D.P. DBY	SUMMARY		1 9 76 WT. OF	BHA STANDS TOTAL  TITEM  BIT 83/  B/S UT  O'PC  STANDS TOTAL  FSTRING	SSEMBLY of tour)  LENGTH  1,00  3,04  5,00  2(5,43  00,237,35  00,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,00  1,	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLED TOTAL HOURS INNER OUT  BEARINGS/ GAG	TRECORD  IT RECORD  ING STRUCTURE ER DULL CHAR  OTHER DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE	MUD & CHEN	IICALS ADDE		
A. PERFI B. TUBIN C. TREA D. SWAE E. TESTI F. G. HU. HOURS W. CON HOURS W. OPF HOURS WITHO HOURS STAND	ORATING NG TRIPS TING BBING ING WORK TIME OFFICE USE NTR. D.P. R. D.P. DBY	SUMMARY		1 9 1 9 76 WT. OI REMAI	BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83/ BIT 83	LENGTH  4 1.00  3 3.04  5 00 245,43  00 237,35  00 00 00 00 00 00 00 00 00 00 00 00 00	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLED TOTAL HOURS INNER OUT  BEARINGS/ GAG	TRECORD  IT RECORD  ING STRUCTURE ER DULL CHAR  OTHER DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE	MUD & CHEN	IICALS ADDE		
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B. TUBIN  C. TREAT  D. SWAE  E. TESTI  F.  G.  H.  TOTALS	ORATING NG TRIPS TING BBING ING WORK TIME (OFFICE USE NTR. D.P. DUT D.P. DBY  ORK URS	SUMMARY		76 WT. OI REMAI	BHASTANDS TOTAL  FSTRING  RKS FOR AND AND AND AND AND AND AND AND AND AND	LENGTH  4 1.00  3 3.04  5 00 245,43  00 237,35  00 00 00 00 00 00 00 00 00 00 00 00 00	BIT NO. SIZE IADC CODE MANUFACTURE TYPE SERIAL NO. JETS TFA DEPTH OUT DEPTH IN TOTAL DRILLED TOTAL HOURS SEALS GAC  FURE	TRECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN RECORD  IN	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE	MUD & CHEN	IICALS ADDE		T

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											CUMULA	TIVE		· · · · · · · · · · · · · · · · · · ·					
- 4. W.			<u> </u>		1		VALVARIO V		Name of the last		WEAR OF	R TRIPS	<del></del>				<u> </u>		
DEPTH IN	ITERV/	UL	DRILLD REAMR	CORE		FORM	ATION	ROTA TAB SPEI	RY WT. ON	PUMP PRESSURE	PUMP	NO. 1	PUI	IP NO. 2	PUM	P NO. 3	PUMF	NO. 4	TOTAL
FROM	T	0	COREC	NO.	(8	HOW CORI	RECOVER	M) SPE	ED BIT	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP
7/90						***************************************													<u> </u>
	_															1	<del> </del>		
										1			-	1	1	<del>                                     </del>		<u> </u>	
		DEPTH	DEV.		JIR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	TVD	HOF	IZ.	DEPTH	DEV.	DIR.		VD	HORIZ. DISP.
DEVIATIO RECORD																- Dirt.			DIOI .
TIME			ELAPSEI TIME	co	DE NO.	DETAILS	OF OPERA	ATIONS IN SEC	QUENCE ANI	D REMARKS						12	0		-1
FROM	1	و مسدر ر	2 3/	1.0		.,			7					ogg	Kel 5	14	)HH	768	5_
2600	08	45	<u> I 1/9</u>		5	Cire	cl	4 1	1.1										
2845	15	230	33/	4 1	0	10	OH												
230	-	800	5/2	,	//	7	. 10	1	R'S	d 1	/		11						
23	1	<u> </u>			/	1 1g	1	coppe	N. 5	4 1	og	WE	-//-	<del></del>			<u> </u>		
											$\sim$			8					
									/ 1	u EO	1)1	201	7	7	7	DNC	, J.	.1/	,
				+-						4 K.O)	Doc	010			(	DNC	ATH	1415	
				-										<del></del> ,					
									32	5 8	Bi.	5fp	rt	Log	a.n.	3			
	}														7			*	
				+							·	P0.704			···				
				-														* .	
																			·· ,
DEPTH IN	TERVA	,		7.45.75			er*.11.58.34				PUMP	No 1	DI II	IP NO. 2	Bundy	NO.3	Allen	NO. 4	Water to the
FROM	т(		DRILL.D REAM.R COREC	CORE NO.	(SI	FORM. OW CORE	ATION RECOVER	POTA TABL Y) SPEE	WT. ON	PUMP PRESSURE	LINER	N PERSONAL SECTION OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO	LINER	1	100 ALANA				TOTAL PUMP
rion				14.5	NE SUCIAL						SIZE	S.P.M.	SIZE	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	OUTPUT
												i							
																		-	
	.	DEPTH	DEV.	D	IR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HOR	IZ.	DEPTH	DEV.	DIR.	TN	/D	ORIZ. DISP.
DEVIATION RECORD		DEPTH	DEV.	D	IR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HOR DISI	IZ.	DEPTH	DEV.	DIR.	TV	/D	HORIZ. DISP.
		DEPTH	DEV.	D	IR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HOR DISI	IZ.	DEPTH	DEV.	DIR.	TV	/D	HORIZ. DISP.
RECORD	LOG		ELAPSED		IR. DE NO.		DISP.				TVD	HOR DISI	IZ.	DEPTH	DEV.	DIR.	TV	/D	HORIZ. DISP.
TIME L	<u> </u>						DISP.	DEPTH TIONS IN SEC			TVD	HOR	IZ.	DEPTH	DEV.	DIR.	TV	- /D	HÖRIZ. DISP.
TIME L	LOG		ELAPSED	COL			DISP.		QUENCE AND			HOR	IZ.	DEPTH	DEV.	DIR	T	/D	HORIZ. DISP.
TIME L	LOG		ELAPSEE TIME	COL	DE NO.		DISP.		QUENCE AND	REMARKS	rer			DEPTH	DEV.	DIR.	TV	/D	HORIZ. DISP.
TIME L FROM	LOG	;30 30	ELAPSET TIME  3'/	2 000	DE NO.		DISP.		QUENCE AND	REMARKS	ger n bo	rat	21				T	/D	HORIZ. DISP.
TIME L	LOG	30	ELAPSET TIME  3'/	COL	DE NO.		DISP.		QUENCE AND	REMARKS	rer	rat	21	DEPTH	DEV.			/D	HORIZ DISP.
TIME I FROM	21 21 2.	;30 30	ELAPSET TIME  3'/	2 000	DE NO.		DISP.		QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME I FROM	LOG	;30 30	ELAPSET TIME  3'/	2 000	DE NO.		DISP.		QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME I FROM	21 21 2.	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME L FROM	21 21 2.	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	DISP.	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME L FROM	21 21 2.	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME L FROM	21 21 2.	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME L FROM	21 21 2.	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME I FROM	21 21 2.	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME L FROM	21 21 2	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME L FROM	21 21 2.	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME L FROM	21 21 2	;30 30	ELAPSET TIME  3'/	2 000	DE NO.	Log R.	OF OPERA	TIONS IN SEC	QUENCE AND	REMARKS	ger n bo	rat	21				1	/D	HORIZ. DISP.
TIME I FROM	21 21 2.	° 30 50 00	ELAPSET TIME 3'1, 5' 3'1/	2	DE NO.	DETAILS LOG R. G.	DISP.	TIONS IN SEC	Sc Bak	REMARKS  Dere	n bo	2/2	21				1	/D	HORIZ. DISP.
TIME L FROM	21 21 2.	° 30 50 00	ELAPSET TIME 3'1, 5' 3'1/	2	DE NO.	DETAILS LOG R. G.	DISP.	TIONS IN SEC	Sc Bak	REMARKS  Dere	n bo	2/2	21		W		lin		

OPERATOR						_	WELL NO.	ILLING F	ELL NU				REPOF		
OPERATOR	016	DA <del>V</del>	-01				1-16	APIW	ELL NU	MBEK			WA	TER DEPTH	DAT
	ICLE .	1011	10				4	CONT	RACTO	R			<u> </u>	<u> </u>	12 -
FOR	Tun	TAP							1	Mro.		. + 1	Da	1.	l nic
SIGNATURE	F OPER/	TOR'S R	EPRESE	MATIV	<b>E</b>		-	SIGNA	TUBE C	F CONTRAC	TOR'S TOO	L PUSHER	) K	9	1/6
				M	Z				ai	rale	X/a	els	שיש	Ø .	
D.P. SIZE	WEIGHT		RADE			THREAD	STRING N	O. PUMP	NO.	PU	MP MANUFAC	TURER		TYPE	ST LE
4/2	20		<u> </u>	10	14 41	ZXH	261	6 1		T De	10			550	10 1
							,	2	_		10			550	
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												· · · · · · · · · · · · · · · · · · ·			
TIME DIST	FRIBUTIO	N – HOU	RS .		DRILLING	ASSEMB	LY			FORGODO			I. I. I.		
				<b>↓</b>	(At end	of tour)			ы	record			ML	JD RECORD	
CODE - OPERAT	ION	NIGHT	DAY	NO.	ITEM	l l	ENGTH.	BIT NO.		9		TIME	400	1300	500
RIG UP AND TEAR DOWN				1	BIT 83/2		.00	SIZE		83/4		WEIGHT	8.7	7 8.7	8.7
2. DRILL ACTUA	L .				25	<u> </u>	3.04	IADC COI	DE			PRESSURE GRADIENT		0. /	0.7
3. REAMING				1				MANUFA	CTURER	HIC		FUNNEL	<del> </del>		
4. CORING				4	6" BC	00 0	45.43	TYPE		1110		VISCOSITY	60	83	89
5. & CIRCULATE	IUD	2/2		<b>L</b> /	JALS	OD	29,00			37520	-	PV/YP			
6. TRIPS		5		8	6"DC	00 2.	37.35	<u> </u>	· 5	02136	/	GEL STRENGTH	/	′   /	
7. LUBRICATE R	iiG				BHA	0053	4.35	JETS	<del></del>	open	-	FLUID LOSS			<del>                                     </del>
8. REPAIR RIG	-						, <u> </u>	TFA			· · · · · · · · · · · · · · · · · · ·	pH	<del>                                     </del>	+	
9. CUT OFF DRILLING LINE	E					OD	<u>.</u>	DEPTH O	UT .			-	<del> </del>		<u> </u>
10. DEVIATION SL				<b> </b>	<del> </del>			DEPTH IN	I	5768		SOLIDS			-
11. WIRE LINE LO	ogs	41/2						TOTAL DE	RILLED	7.00	<del></del>		<u> </u>		
12. RUN CASING & C	1	-1/2		16	STANDS	).P.		TOTAL HO	DURS	1/3/4		TYPE	MUD & C	HEMICALS ADDED	AMOUN
13. WAIT ON CEM				X	SINGLES[	).P.			CUTTIN	G STRUCTURE		0	205		7
					KELLY DOWN			INNER	OUTER	B DULL CHAR	LOCATION	bel	do		-
14. NIPPLE UP B.C	J.P.			1	TOTAL			BEARINGS/ SEALS		OTHER	REASON PULLED	<u> </u>		7.	
15. TEST B.O.P.					L			SEALS	GAGE	OTHER DULL CHAR.	PULLED				
16. DRILL STEM TI	EST			WT. O	F STRING										
17. PLUG BACK		-		REMA	RKS DE	LKI	× Bus	LAND	WER	-			R	oiler 1	1.14.65
18. SQUEEZE CEM	MENT			3				Table make 1							
19. FISHING				¥.	COM	-וחר	LITIA							<del></del>	
20. DIR. WORK				1.	LUN	┸	:N								
21.						The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			-	<u></u>				<del>-</del>	
22.				ξ <sub>a</sub> ,		Carried and the	eteki uluk	and a second		DRI	LLER 6	2. L. \			
23.					DRILLING A		<b>Y</b> 120,55		BIT	RECORD			MUI	DRECORD	
A. PERFORA	ATING			NO.	ITEM		-NOTI	DITAIO	ويتعدد				<u> </u>		
B. TUBING T	RIPS			NO.	3 /		NGTH	BIT NO.		9		TIME	8'0	12:00	5:00
C. TREATING	G				BIT 83/4	L 1,	00	SIZE		83/4		WEIGHT	8	8.7	8.7
D. SWABBING E. TESTING	G			1	B/501	3 3	.04	IADC COD	E			PRESSURE GRADIENT			
E. TESTING				9	6"DC	26	5.113	MANUFAC	TURER	HTC		FUNNEL VISCOSITY	91	105 t	100
8 <sub>F.</sub>				1			0 19-	TYPE G	TS	20		PV/YP	_4	105	100
<del></del>				,	Jars		9 00	SERIAL NO		2130	7		<del>/,</del>	<del>                                     </del>	<del>                                     </del>
G.	-			0	6 DC	D 23	7.35	JETS	<u> </u>			GEL STRENGTH		/	/-
G.		12				DO		TFA		open		FLUID LOSS			i
Н.						DO						pН			
H. OTALS	RK TIME S	UMMARY						DEPTH OU	'			SOLIDS			
H. OTALS DAYWOR (OFFI	ICE USE C	UMMARY ONLY)	1	I		+		DEPTH IN		5768				<del>-  </del>	
DAYWOR (OFFI	D.P.	UMMARY ONLY)			RHA	·		TOTAL DO	ILED	1	i			EMICALS ADDED	<u> </u>
DAYWOR (OFFI	D.P.	UMMARY ONLY)		77/	STANDS D			TOTAL DR				٨	иоо & сн		
DAYWOR (OFFI	D.P.	UMMARY ONLY)		74	STANDS D.	P		TOTAL HO	URS	763/0		TYPE	AMOUN	T TYPE	AMOUNT
DAYWOR (OFFI	D.P.	UMMARY NLY)		74		Р.		<del> </del>	URS	763/CI STRUCTURE DULL CHAR.	LOCATION		AMOUN	TYPE	AMOUNT
DAYWOR (OFFI	D.P.	UMMARY NLY)		74	STANDS D.	Р.		TOTAL HO	URS			EZMUD	AMOUN	T TYPE	AMOUNT
DAYWOR (OFFI	D.P.	UMMARY INLY)		76	STANDS D.	P. P.	90	TOTAL HO	URS	DULL CHAR.		TYPE	AMOUN	TYPE	AMOUNT
DAYWOR (OFFI	D.P.	UMMARY NLY)		(	STANDS D. SINGLES D. KELLY DOWN	P. P. 7U	90	TOTAL HO	URS CUTTING OUTER			EZMUD	AMOUN	IT TYPE	AMOUNT
DAYWOR (OFFI	D.P.	UMMARY NLY)		(	STANDS D. SINGLES D. KELLY DOWN TOTAL STRING	P. 7U	10	TOTAL HO	URS CUTTING OUTER	DULL CHAR.		EZMUD	AMOUN	T TYPE	AMOUNT
DAYWOR (OFFI OURS W/ CONTR. OURS W/ OPR. D.F. OURS WITHOUT DOURS STANDBY	D.P.	UMMARY NLY)		WT. OF	STANDS D. SINGLES D. KELLY DOWN TOTAL STRING	P. P. 7U	10	TOTAL HO	URS CUTTING OUTER	DULL CHAR.		EZMUD	AMOUN	Т ТҮРЕ	AMOUNT
DAYWOR (OFFI	D.P.	UMMARY NLY)		WT. OF	STANDS D. SINGLES D. KELLY DOWN TOTAL STRING	P. P. 7U	10	TOTAL HO	URS CUTTING OUTER	DULL CHAR.	REASON PULLED	EZMUD	AMOUN	T TYPE	AMOUNT
DAYWORK OURS W/ CONTR. OURS W/ OPR. D.F OURS WITHOUT D OURS STANDBY  DTAL DAYWORK D. OF DAYS OOM SPUD UMULATIVE	D.P.	UMMARY NLY)		WT. OF	STANDS D. SINGLES D. KELLY DOWN TOTAL STRING KS FO	7 7 U	10	TOTAL HO	URS CUTTING OUTER	OTHER DUIL CHAR.	REASON PULLED	EZMUD	AMOUN	Т ТҮРЕ	AMOUNT
DAYWORK OURS W/ CONTR. OURS W/ OPR. D.F OURS WITHOUT D OURS STANDBY  DTAL DAYWORK O. OF DAYS OM SPUD UMULATIVE DTATING HOURS	D.P.	UMMARY NLY)		WT. OF	STANDS D. SINGLES D. KELLY DOWN TOTAL STRING 16 KS FO	74 74 Chf	10	TOTAL HO	URS CUTTING OUTER	OTHER DUIL CHAR.	REASON PULLED	EZMUD	AMOUN	Т ТҮРЕ	AMOUNT
DAYWOR (OFFI OURS W/ CONTR. OURS W/ OPR. D.F. OURS WITHOUT D OURS STANDBY  DTAL DAYWORK D. OF DAYS	D.P.	UMMARY NLY)		WT. OF REMAR	STANDS D. SINGLES D. KELLY DOWN TOTAL STRING 16 STRING 16 2400	74 74 Chf	10	TOTAL HO	URS CUTTING OUTER	OTHER DUIL CHAR.	REASON PULLED	EZMUD	AMOUN	T TYPE	AMOUNT

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	E_	Mit	N	DUNTY	ju k	Ry		STATE/COU	AH		WIRE L	INE REC	ORD R	REEL NO.					
		SIZE	MAI		WEI	GHT/	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	1/4	NO. LI	NES 10		LENGTH	SLIPPED		
LAST CASING TUBING	9	15/8	54		36			4429	5 1 27 1 1	4413	LENGTH	CUT OFF	<del></del>		PRESE	NT LENGTH	1		
TUBING OR LINER		_/0_	1	<u> </u>	صر			7761	160	7712	WEAR O	R TRIPS		·				·	
																***-			
											CUMULA WEAR O	R TRIPS							
DEPTH IN	TERV	NL.	DRILLD REAMR	CORE			MATION	ROT/ TAB	WT. ON			NO. 1		IP NO. 2	-	P NO. 3	PUMF	NO. 4	TOTAL
FROM	10	0	COREC	NO.	(\$	SHOW COL	RECOVE	RY) SPE		PRESSURE	LINEA	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
7690																			
		_		·															1
55,045,01	.	DEPTH	DEV.	ı	DIR.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	TVD	HOF	RIZ. SP.	DEPTH	DEV.	DIR.	יד	VD .	HORIZ. DISP.
DEVIATION RECORD												-							,
FROM		ro	ELAPSE!	D CO	DE NO.	DETAIL	S OF OPER	ATIONS IN SE	QUENCE AN	D REMARKS									
2/20		00	12	,	//								-					•	
0600	/ 0	00	( 2	_ /		-	o 95												
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		i																	
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DEPTH INT	EOVA	,			Axio e						PUMP	.vo.		nuo n					
100000			DRILL.D REAMR	CORE NO.		は約90分の7年1日以	AATION E RECOVER	ROTA TAB	RY WT. ON	PUMP PRESSURE				P NO. 2	2000	P NO. 3	PUMP		TOTAL PUMP OUTPUT
FROM	33777 344 3		CORE C			HUW CUM					LINER SIZE	S.P.M.					IMED	6 5 14	OUTPUT
Į.		<b>)</b>	COREC			HOW COR		(Y) SPEI			, <b>, , , , ,</b> ,		LINER SIZE	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	
<del>  </del> -		•	COREC					SIE					SIZE	S.P.M.	SIZE	S.P.M.	LINER	O.F.M.	
			COREC										SIZE	S.P.M.	SIZE		LINER	3.F.M.	
			CORE.C											\$2.4	SIZE		LINER	<b>3.F.M.</b>	
DEWATION		DEPTH	DEV.		DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HOF	RIZ.	S.P.M.	DEV.	DIR.	LINER SIZE		HORIZ. DISP.
DEVIATION			CORE.C				HORIZ		DEV.	DIR.		HOF	RIZ.						HORIZ. DISP.
RECORD			CORE.C				HORIZ		DEV.	DIR.		HOF	RIZ.						HORIZ. DISP.
		DEPTH	CORE.C			TVD	HORIZ. DISP.					HOF	RIZ.						HORIZ. DISP.
TIME L	J	DEPTH	DEV.	D COI	DE NO.	TVD	HORIZ. DISP.	DEPTH				HOF	RIZ.						HORIZ. DISP.
TIME L	J	DEPTH	DEV.	D con	PIR.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alZ.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	DEPTH	DEV.	D COI	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alZ.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	DEPTH	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alZ.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND		TVD	HOF	alZ.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alZ.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alZ.	DEPTH	DEV.	DIR.			HORIZ, DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alz.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alz.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alz.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alz.	DEPTH	DEV.	DIR.			HORIZ, DISP.
RECORD	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alz.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alz.	DEPTH	DEV.	DIR.			HORIZ, DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alz.	DEPTH	DEV.	DIR.			HORIZ. DISP.
TIME L	J	© 130	DEV.	Con (2	DE NO.	TVD	HORIZ. DISP.	DEPTH	QUENCE AND	PREMARKS	TVD	HOF	alz.	DEPTH	DEV.	DIR.			HORIZ, DISP.
TIME L	OG TO 32.3.	DEPTH 0 130 30	DEV.	) con	DE NO.	DETAILS LO	HORIZ, DISP.	DEPTH	BrV	PREMARKS  C', Y	TVD	HOPDIS	y /	DEPTH	DEV.	DIR.		/D	HORIZ, DISP.

DAYWORK TIME SUMMARY (OFFICE USE ONLY) SOLIDS HOURS W/ CONTR. D.P. **DEPTH IN** HOURS W/ OPR. D.P TOTAL DRILLED MUD & CHEMICALS ADDED STANDS HOURS WITHOUT D.P. TOTAL HOURS AMOUNT HOURS STANDBY SINGLES\_\_\_ D.P

Forklift; TOTAL DAYWORK NO. OF DAYS Fuel

KELLY DOWN

TOTAL WT. OF STRING

Man 1300

aNN 900 DAILY MUD COST TOTAL MUD COST

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CUMULATIVE ROTATING HOURS

**APPROVED** PRINTED IN U.S.A.



BEARINGS/ SEALS

REASON PULLED

AMOUNT

Middle	ict wt/		EN	Ed y			STATE / CO	CHA		WIRE L	INE REC	ORD R	EEL NO.					
	SIZE	MA		WEIG & GR		NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	1/8	NO. Lif	VES / C	)	LENGTH	SLIPPED		
LAST CASING TUBING	95%	54	40	36		166	4429		4413	LENGTH	CUT OFF	<del>-1</del>	, ,		I NT LENGTI	+	<del></del>	
TUBING OR LINER	77'	555	10	26	. +	150	7701	16	7413	WEAR O SINCE L	R TRIPS	· · · <u>· · · · · · · · · · · · · · · · </u>		_L			···.	-
		~	-	~ 4	$\dashv$	100	<del> </del>									<del></del>	<del></del>	
										CUMULA WEAR O	R TRIPS							
DEPTH IN	TERVAL	DRILL.D	CORE		Charles and the	MATION	PO	TARY WT. ON	PUMP		P NO. 1	PUM	P NO. 2	PUM	P NO. 3	PUM	P NO. 4	TOTAL
FROM	то	COREC	NO.	(8	HOW CO	RE RECOVE	RY) SP	EED BIT	PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	PUMP OUTPUT
7690				6	59	Poi	et											
				Ĺ														
DEVIATION	DEPTH	DEV.		IR.	TVD	HORIZ DISP	Z. DEPTI	H DEV.	DIR.	TVD	HOF DIS	RIZ. SP. (	DEPTH	DEV.	DIR.	Т	VD	HORIZ. DISP.
RECORD		-	_							ļ								*
FROM	TO TO	ELAPSE TIME		DE NO.	DETAIL	S OF OPER	RATIONS IN S	EQUENCE ANI	REMARKS							<u>'</u>		
0600	0800	7.			11-	Rel.	4/1			<del></del>	· · · · · ·				-			
50%	0000	<u> </u>	- -	<del>)</del> 7 /	0	Ker.	740 0	<u>.                                    </u>							<del>- ·</del>			
280U	W700		-	~ : 	Kig	y his	Ay Do	MA YOU	chire	<del></del>	<del></del>							
1700	1800	7		2	1	yDown	J.P.	4 05	<u>, 5</u>						· .	·		
1600	1800	2	. 2	2	2	(ul)	Cs.	CRA	$\omega$									
					7		. /							<del></del> -				,,
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DEPTH INT	TERVAL	DRILL 2	CORE		FOIT	MATION	ROJ	ARV wr an		PUMP	NO.1	PUMF	NO. 2	PUNF	· No. 3	PÜMP	NO. 4	
DEPTH INT		DRILL D REAM R GORE.C	CORE NO.	(S)		MATION RE RECOVE	ROT TA SPI	ARY WT. ON BIT.	PUMP PRESSURE	3	NO 1		NO. 2	<b>!</b>	°NO. 3 S.P.M.		NO.4	TOTAL PUMP OUTPUT
1		DRILL D REAM R COREC	CORE	(SI			ROT TAA SPI	ARY WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE		PUMF LINER SIZE	1	PUMP LINER SIZE		PUMP LINER SIZE	NO.4	TOTAL PUMP OUTPUT
1		DRILL D REAM R COREC	CORE	(Si			ROT TAI RY) SPI	ARY WT. ON BIT	PUMP PRESSURE	3			1	<b>!</b>			NO. 4	TOTAL PUMP OUTPUT
1		GRILL.D REAM.R COREC	CORE	(SI			ROT TAA SPI	ARY WT. ON BIT	PUMP	3			1	<b>!</b>			NO. 4	TOTAL PUMP OUTPUT
1		DRILL D REAM.R COREC	CORE			RE RECOVE			PRESSURE	LINER SIZE	S.P.M	LINER	S.P.M.	LINER	SPM.	LINER	SP.M.	HORIZ.
PROM	DEPTH	CORE.C	NO.		low col				PUMP PRESSURE	3		LINER	1	<b>!</b>			SP.M.	
FROM	DEPTH	CORE.C	NO.		low col	RE RECOVE			PRESSURE	LINER SIZE	S.P.M	LINER	S.P.M.	LINER	SPM.	LINER	SP.M.	HORIZ.
DEVIATION RECORD	DEPTH	DEV.	D	R.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	LINER SIZE	S.P.M	LINER	S.P.M.	LINER	SPM.	LINER	SP.M.	HORIZ.
DEVIATION RECORD	DEPTH OG TO	DEV.	Di	R.	TVD	HORIZ DISP.	DEPTH		DIR.	LINER SIZE	S.P.M	LINER	S.P.M.	LINER	SPM.	LINER	SP.M.	HORIZ.
DEVIATION RECORD	DEPTH OG TO  2\'00	DEV.	DI	R. ENO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	SP.M.	HORIZ.
DEVIATION RECORD	DEPTH OG TO  2\'00	DEV.	DI	R.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR.	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	SP.M.	HORIZ.
DEVIATION RECORD	DEPTH OG TO  2\'00	DEV.	DI	R. ENO.	TVD	HORIZ DISP.	DEPTH	DEV.	DIR. REMARKS	TVD	S.P.M	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD TIME LEFROM	DEPTH OG TO  2\'00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	SP.M.	HORIZ.
DEVIATION RECORD TIME LEFROM	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH	DEV.  QUENCE AND  Prif	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD TIME LEFROM	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH  OG TO 2\'.00  6:00	DEV.	DI	R. E NO.	TVD	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	SPM.	LINER	S.P.M.	HORIZ.
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DEVIATION RECORD  TIME LOFROM  A 1 O O	DEPTH  OG TO 2\'.00  6:00	DEV.  ELAPSET TIME  3	DI	R. E NO.	TVD  DETAIL:	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.  QUENCE AND  Prif	DIR.  REMARKS	TVD	S.P.M.  HOR DIS	LINER SIZE	S.P.M.	DEV.	SPM.	LINER	S.P.M.	HORIZ. DISP.

LEASE					WELL NO.		LL NUM	BER		-	WATER	DEPTH	DATE
Middle.	Mo	unt	ain	<u></u>	21-16	,							12-15-
1						CONTR	ACTOR						RIG N
FORTUNE OF OPER	ATOR'S R	FDDPGE	TATIVE	1		Pa	<u>ttes</u>	CONTRAC	- LJ	T			104
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					- اا	W	cely	ON S 100	PUSHER			
D.P. SIZE WEIGH	IT GI	RADE	TOOL J	T O.D. TYPE THR	EAD STRING NO				IP MANUFAC	TURER T	Car	TYPE	STRO
4/2 April	_	<u> </u>		"4 XH					eco		-	50	LENGT
20				7 4	200	2	<u> </u>		eco			<u>50</u>	1/5
									CCO			<u>50</u>	<del></del>
													<del></del>
TIME DISTRIBUT	ION HOU	IRS.		DRILLING ASS	SEMBLY		RIT	RECORD			MUD RE	COPA	
		ľ		(At end of t	our)		DII	necono.			MODA	COND	
NO OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.				TIME			
RIG UP AND TEAR DOWN	4			BIT		SIZE				WEIGHT			
2. DRILL ACTUAL						IADC COD	E			PRESSURE GRADIENT			
3. REAMING						MANUFAC	TURER			FUNNEL VISCOSITY			
4. CORING	· -	1		OD	 	TYPE				PV/YP	7		<del>                                     </del>
5. & CIRCULATE		1/2		OD		SERIAL NO	D.	·		GEL	//	<del></del>	<del> /,</del> -
5. TRIPS	-		<u> </u>	OD		JETS				STRENGTH		/	1 /-
LUBRICATE RIG				OD		TFA				FLUID LOSS			<u> </u>
B. REPAIR RIG				OD		DEPTH OL	ıT.		<del></del>	pН		•	
CUT OFF DRILLING LINE						ļ	, ,			SOLIDS			
0. DEVIATION SURVEY						DEPTH IN				-			
1. WIRE LINE LOGS				STANDS D.P.		TOTAL DR					MUD & CHEMI		
2. RUN CASING & CEMENT		8	<b> </b>	SINGLESD.P.		TOTAL HO		STRUCTURE		TYPE	AMOUNT	TYPE	AMOUNT
3. WAIT ON CEMENT	4	2/2	<b>↓</b>			INNER	OUTER		LOCATION	<b>_</b>			
4. NIPPLE UP B.O.P.	3/2		<b> </b>	KELLY DOWN		DEADINGS/		OTHER	DEACON			· · · · · · · · · · · · · · · · · · ·	
5. TEST B.O.P.	1/4			TOTAL		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED				
	1.		# S								1		1
6. DRILL STEM TEST			W1.0	F STRING									
· · · · · · · · · · · · · · · · · · ·					<u>.</u>			F	ה ב אונג	  + V:-	-W 20°1	105	
7. PLUG BACK			REMA	RKS			984-		ór Klif	+ Kc	-Km:1	ler	
7. PLUG BACK 8. SQUEEZE CEMENT			REMA	RKS	) [ N   T   N		¥ 9,4 m	F	orklif oiler	  + Kic  - 121	-Kmil trs	ler	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING			REMA	RKS	DENTIA		V 184	F	orklif oiler	  + Kic  - 121	-Kmil Ics	ler	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  10. DIR. WORK			REMA	RKS	DENTIA								
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  0. DIR. WORK  1. C/o C.59	1 3 1/4		REMA	CONFIL	DENTIA					1 Kic - 12 1			
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/o CSg  2. P/u BHA	31/4		REMA	CONFIL  DRILLING ASS	DENTIA		en (S. A. A. A. A. A. A. A. A. A. A. A. A. A.					<b>.</b> ∆	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/6 C.59  2. P/u Bha	314		REMA	CONFIL  DRILLING ASS (At end of t	DENTIAL SEMBLY our)	BIT NO	BIT	DR		1002	Parle	<b>.</b> ∆	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  0. DIR. WORK  1. C/o C.59  2. P/u BHA  3.	314		REMA	CONFIL  DRILLING ASS (At end of to	DENTIA	BIT NO.	BIT	DR RECORD		MA OL	Parle	<b>.</b> ∆	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/o C59  2. P/u B 444  3. A PERFORATING  B. TUBING TRIPS  C. TREATING	314		REMA	CONFIL  DRILLING ASS (At end of t	DENTIAL SEMBLY our)	SIZE	2004 (1991) 2004 (1991)	DR RECORD		TIME WEIGHT	Parle	<b>.</b> ∆	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/o C59  2. P/u B 444  3. A PERFORATING  B. TUBING TRIPS  C. TREATING	314		REMA	CONFIL  DRILLING ASS (At end of to	DENTIAL SEMBLY OUT) LENGTH	SIZE IADC COD	E	DR RECORD		MA OL	Parle	<b>.</b> ∆	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/o C.59  2. P/u B. W.  3. A. PERFORATING  B. TUBING TRIPS  C. TREATING	314		REMA	DRILLING ASS (At end of to	SEMBLY OUT)  LENGTH  1.00  2.36	SIZE	E	DR RECORD		TIME WEIGHT PRESSURE	Parle	<b>.</b> ∆	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/o C.59  2. P/u B.W.  3. A. PERFORATING  B. TUBING TRIPS  C. TREATING	314		REMA NO.	DRILLING ASS (At end of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the li	SEMBLY out) LENGTH 1,00 2,36	SIZE IADC COD	E	RECORD  10  10  11  11  11  11  11  11  11  1		TIME WEIGHT PRESSURE GRADIENT FUNNEL	Parle	<b>.</b> ∆	
PLUG BACK  B. SQUEEZE CEMENT  B. FISHING  D. DIR. WORK  C. C. Sq.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING	314		NO.	DRILLING ASS (At end of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the sta	SEMBLY OUT)  LENGTH  1.00  2.36  11.37  266.78	SIZE IADC COD	E TURER	PRECORD  10  614  HTC		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	Parle	<b>.</b> ∆	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/o C.59  2. P/LL BLLL  3. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.	314		NO.	DRILLING ASS (At end of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the little of the li	SEMBLY OUT)  LENGTH  1.00  2.36  11.37  266.78	SIZE IADC CODE MANUFACT TYPE	E TURER	PRECORD  10  6/4  HTC  GT-1		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	Parle	<b>.</b> ∆	
A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.	314	17_	NO.	DRILLING ASS (At end of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the stand of the sta	SEMBLY out) LENGTH 1,00 2,36 11,37 245,78	SIZE IADC CODI MANUFAC TYPE SERIAL NO	E TURER	10 614 116 HTC GT-1		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	Parle	<b>.</b> ∆	
A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.	E SUMMARY	12	NO.	DRILLING ASS (At and of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	DENTIAL  SEMBLY  OUT)  LENGTH  1,00  2,36  11,37  266,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS	E TURER	10 614 116 HTC GT-1		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH	Parle	<b>.</b> ∆	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/o C.59  2. P/LL BALL  3. A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  DAYWORK TIM  (OFFICE US	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT 6 1/4 BIT 5 1/4 BIT 5 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/	DENTIAL  SEMBLY  OUT)  LENGTH  1,00  2,36  11,37  266,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA	E TURER	PRECORD  10  614  HTC  GT-1  12JM  OPEN		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	Parle	<b>.</b> ∆	
2. P/LL BLLA 3.  A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. DAYWORK TIM	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT 6 1/4 BIT 5 1/4 BIT 5 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/	DENTIAL  SEMBLY  OUT)  LENGTH  1,00  2,36  11,37  266,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU	E TURER D. A	10 614 116 HTC GT-1		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	Pa ale Mud Ri	CORD /	
7. PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  1. C/O CSG  2. D/W BHA  3.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  OTALS  DAYWORK TIM (OFFICE US  OURS W/ CONTR. D.P.	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT 6 1/4 BIT 5 1/4 BIT 5 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/4 C 1/	DENTIAL  SEMBLY  OUT)  LENGTH  1,00  2,36  11,37  266,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR	E TURER  D. A	PRECORD  10  614  HTC  GT-1  12JM  OPEN		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	Parle	CORD /	
PLUG BACK  B. SQUEEZE CEMENT  9. FISHING  1. C/O CSG  2. D/W BHA  3.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  OTALS  DAYWORK TIM (OFFICE US  OURS W/ CONTR. D.P.  OURS W/ OPR. D.P.  OURS WITHOUT D.P.	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT (0 1/4 13:1+ Sub Sheek Sak 43/4 OC'30 OD	DENTIAL  SEMBLY  OUT)  LENGTH  1,00  2,36  11,37  266,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DR	E TURER  D. A	PRECORD  10 614 HTC GT-1 12JM OPEN  1690	LLER Z	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	CALS ADDE	D AMOUNT
PLUG BACK  B. SQUEEZE CEMENT  P. FISHING  D. DIR. WORK  C. CSG  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  OURS W/ CONTR. D.P.  OURS W/ OPR. D.P.  OURS W/THOUT D.P.	E SUMMARY	12	NO.	DRILLING ASS (At and of to ITEM BIT 6 1/4 BIT 5 1/4 BIT 5 1/4 C 1/4 C 1/4 Shock Set 43/4 OC 1/5 OD OD OD	DENTIAL  SEMBLY  OUT)  LENGTH  1,00  2,36  11,37  266,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR	E TURER  D. A	PRECORD  10 614 HTC GT-1 12JM OPEN  1690	ILLER A	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	CALS ADDE	
PLUG BACK  B. SQUEEZE CEMENT  P. FISHING  D. DIR. WORK  C. CSG  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  OURS W/ CONTR. D.P.  OURS W/ OPR. D.P.  OURS W/THOUT D.P.	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT (0 1/4 13/4 OC 30 OD OD STANDS D.P. KELLY DOWN	DENTIAL  SEMBLY  OUT)  LENGTH  1,00  2,36  11,37  266,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR TOTAL HO	E TURER  D. A	PRECORD  10  614  HTC  GT-1  12JM  OPEN  1690  STRUCTURE  DULL CHAF	LLER Z	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	CALS ADDE	
A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. DAYWORK TIM (OFFICE US DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P. DURS W/ CONTR. D.P.	E SUMMARY	12	NO.	DRILLING ASS (At and of to ITEM BIT (6 1/4 BIT (5 1/4 BIT (5 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 BIT (6 1/4 B	DENTIAL  SEMBLY  OUT)  LENGTH  1,00  2,36  11,37  266,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OU DEPTH IN TOTAL DR	E TURER  D. A	PRECORD  10 614 HTC GT-1 12JM OPEN  1690	LLER Z	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	CALS ADDE	
PLUG BACK  B. SQUEEZE CEMENT  P. FISHING  D. DIR. WORK  C. CSG  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  OURS W/ CONTR. D.P.  OURS W/ OPR. D.P.  OURS W/THOUT D.P.	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 B	SEMBLY our) LENGTH 1,00 2,36 11,37 245,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR TOTAL HO	E TURER  D. A  JT  JT  URS  CUTTING OUTER  GAGE	PRECORD  10  14  114  HTC  GT-1  12JM  OPEN  OPEN  OTHER  DULL CHAR  OTHER  DULL CHAR	LLER A	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	CALS ADDE TYPE	
A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. DAYWORK TIM (OFFICE US OURS W/ OPR. D.P. OURS STANDBY	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 B	SEMBLY OUT)  LENGTH  1,00  2,36  11,37  245,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR TOTAL HO	E TURER  D. A  JT  JT  URS  CUTTING OUTER  GAGE	PRECORD  10  14  114  HTC  GT-1  12JM  OPEN  OPEN  OTHER  DULL CHAR  OTHER  DULL CHAR	LLER A	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	CALS ADDE TYPE	
A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. OURS W. CONTR. D.P. OURS WITHOUT D.P. OURS STANDBY  DTAL DAYWORK O. OF DAYS	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 B	SEMBLY OUT)  LENGTH  1,00  2,36  11,37  245,78	SIZE IADC CODE MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR TOTAL HO INNER BEARINGS/ SEALS	E TURER  D. A  JT  JT  URS  CUTTING OUTER  GAGE	PRECORD  10  14  114  HTC  GT-1  12JM  OPEN  OPEN  OTHER  DULL CHAR  OTHER  DULL CHAR	LLER A	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	CALS ADDE TYPE	
PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  10. DIR. WORK  11. C/O C.54  22. P/LL BLLL  33.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  OURS W/ CONTR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS STANDBY  OTAL DAYWORK  O. OF DAYS  ROM SPUD  UMULATIVE	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 BIT (0 1/4 B	DENTIAL  SEMBLY OUT)  LENGTH  1,00  2,36  11,37  245,78	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OU  DEPTH IN  TOTAL DR  TOTAL HO  INNER  BEARINGS/ SEALS	E TURER  D. A  JT  JT  JURS  CUTTING OUTER  GAGE	DR RECORD  10 614 HTC GT-1 12JM OPEN  TIGGO  STRUCTURE DULL CHAR DULL CHAR  TIGGO  THER DULL CHAR  TIGGO  TO THER DULL CHAR  TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER DULL CHAR TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO  TO THER TIGGO	LLER A	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI	CALS ADDE TYPE	
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PLUG BACK  8. SQUEEZE CEMENT  9. FISHING  10. DIR. WORK  11. C/O C.54  22. P/LL BLLL  33.  A. PERFORATING  B. TUBING TRIPS  C. TREATING  D. SWABBING  E. TESTING  F.  G.  H.  OTALS  DAYWORK TIM (OFFICE US  OURS W/ OPR. D.P.	E SUMMARY	12	NO.	DRILLING ASS (At end of to ITEM BIT (0 1/4 13/4 OC 30 OD OD STANDS D.P. KELLY DOWN TOTAL F STRING RKS FULL CO	SEMBLY  OUT)  LENGTH  1.00  2.36  11.37  265.78	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OU  DEPTH IN  TOTAL DR  TOTAL HO  INNER  BEARINGS/ SEALS	E TURER  D. A  JT  JT  JURS  CUTTING OUTER  GAGE	DRRECORD  10 614 HTC GT-1 12JM OPEN  TIGGO  STRUCTURE DULL CHAR  OTHER DULL CHAR  12 0 12 0 13 12 0	LLER A	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEMI AMOUNT	CALS ADDE TYPE	



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	DRILLD REAMR	CORE	- N. M. S. G B. J. & M. H. H.	MATION	ROT	LE WILLIAM	PUMP	s s	NO. 1		P NO. 2	PUMI	P NO. 3	PUMI	P NO. 4	TOTAL
	DRILLD REAMR COREC	CORE NO.	- N. M. S. G B. J. & M. H. H.	MATION RE RECOVER	TAS	LE WILLIAM	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2 S.P.M.	PUMI LINER SIZE	NO. 3	PUMI LINER SIZE	NO. 4	TOTAL PUMP OUTPUT
	DRILL D REAM. R COREC		- N. M. S. G B. J. & M. H. H.	COST OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY	TAI	LE WILLIAM		LINER		LINER	I	LINER			<del>                                     </del>	PUMP
	DRILL D REAM R CORE.C		- N. M. S. G B. J. & M. H. H.	COST OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY	TAI	LE WILLIAM		LINER		LINER	I	LINER			<del>                                     </del>	PUMP
то	REAM.R COREC	NO.	- N. M. S. G B. J. & M. H. H.	RE RECOVER	ny) Tật	LE WILLIAM		LINER	S.P.M	LINER	I	LINER			<del>                                     </del>	PUMP
	DRILLD REAMR COREC		- N. M. S. G B. J. & M. H. H.	COST OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY	ny) Tật	LE WILLIAM		LINER		LINER SIZE	I	LINER		LINER	S.P.M.	PUMP
то	REAM.R COREC	NO.	(SHOW CO	RE RECOVER	Y) TAI	E Van	PRESSURE	LINER!	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
<b>ТО</b> DEPTH	DEV.	DIR.	TVD	HORIZ, DISP.	DEPTH	DEV.	DIR.	LINER!	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH TO	DEV.	NO.	TVD O. DETAIL	HORIZ. DISP.	DEPTH	DEV.	DIR. REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
	DEV.	DIR.	TVD O. DETAIL	HORIZ. DISP.	DEPTH	DEV.	DIR. REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEPTH TO	DEV.	DIR.	TVD O. DETAIL	HORIZ. DISP.	DEPTH	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
	DEV.	DIR.	TVD O. DETAIL	HORIZ. DISP.	DEPTH	DEV.	DIR. REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
то	DEV.	DIR.	TVD O. DETAIL	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.	DIR. REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
то DEPTH  ТО  200  300	DEV.	DIR.  CODE N  /3  21  /4	TVD O. DETAIL C/	HORIZ. DISP.	DEPTH	DEV.	DIR. REMARKS	TVD	HOR DIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
TO DEPTH  TO 200 2300 2300	DEV.	DIR.  CODE N  /3  2 /4	TVD O. DETAIL	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
TO DEPTH  TO 200 2300 2300	DEV.	DIR.  CODE N  /3  21  /4	TVD O. DETAIL C/	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.	DIR. REMARKS	TVD	HOR DIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
TO DEPTH  TO 200 2300 2300	DEV.	DIR.  CODE N  /3  21  /4	TVD O. DETAIL C/	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.	DIR. REMARKS	TVD	HOR DIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
TO DEPTH  TO 200 2300 2300	DEV.	DIR.  CODE N  /3  21  /4  75	TVD O. DETAIL C/	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.	DIR. REMARKS	TVD	HOR DIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
TO DEPTH  TO 200 2300 2300	DEV.	DIR.  CODE N  /3  21  /4  75	TVD O. DETAIL C/	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.	DIR. REMARKS	TVD	HOR DIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
TO DEPTH  TO 200 2300 2300	DEV.	DIR.  CODE N  /3  21  /4  75	TVD O. DETAIL C/	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.	DIR. REMARKS	TVD	HOR DIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
TO DEPTH  TO 200 2300 2300	DEV.	DIR.  CODE N  /3  21  /4  75	TVD O. DETAIL C/	HORIZ DISP.	DEPTH ATIONS IN SE	DEV.	DIR. REMARKS	TVD	HOR DIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
	™ 530 000 330 530	DEPTH DEV.    DEPTH DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   DEPTH   DEV.   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ON GHOW CORE RECOVERY)  TO CORE. CO. (SHOW CORE RECOVERY)  TABLE SP.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. LINER S.P.M. 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APPROVED

No. 3005911

REPORT NO.

TIME DISTRIBUTION - HOURS  DRILLING ASSEMBLY (At end of tour)  RIGUP AND  1. RIGUP AND  1. TEAR DOWN  2. DRILL AGRANT  2. DRILL AGRANT  3. REAMING  4. CORING  5. CONDITION MUD  5. & CIRCULATE  6. TRIPS  7. LUBRICATE RIG  9. PARAMON SERIAL NO. AIZJIN  8. REPAIR RIG  9. CUT OFF  9. DRILLING LINE  10. DEVIATION SURVEY  11. WIRE LINE LOGS  12. RUN CASING & CEMENT  PARAMON JETS  DEPTH OUT  DEPTH IN  TOTAL DRILLED  TOTAL HOURS  CUTTING STRUCTU	TIME  WEIGHT  PVYP  GEL STRENC  FUNDS  PH  SOLIDS	TYPE  550  550  MUD RECOR	5 /5 0 /5
SIGNATURE OF CONTRA  D.P. SIZE WEIGHT GRADE TOOL JT O.D. TYPE THREAD STRING NO. PUMP NO.  TIME DISTRIBUTION - HOURS  CODE - OPERATION NIGHT DAY NO. ITEM LENGTH BIT NO.  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGUP AND  PRIGU	TIME  WEIGHT  PVYP  GEL STRENC  FUNDS  PH  SOLIDS	TYPE  550  550  MUD RECOR	STROKE LENGTH
SIGNATURE OF CONTRA  SIGNATURE OF CONTRA  SIGNATURE OF CONTRA  SIGNATURE OF CONTRA  SIGNATURE OF CONTRA  SIGNATURE OF CONTRA  SIGNATURE OF CONTRA  SIGNATURE OF CONTRA  SIGNATURE OF CONTRA  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE	TIME  WEIGHT  PVYP  GEL STRENC  FUNDS  PH  SOLIDS	TYPE  550  550  MUD RECOR	) 15 ) 15
TIME DISTRIBUTION - HOURS  DRILLING ASSEMBLY (At end of four)  DRILLING ASSEMBLY (At end of four)  BIT NO.  1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIGURAND 1. FIG	TIME  WEIGHT  PVYP  GEL  STRENC  FUIDS  PH  SOLIDS	MUD RECOR	) 15 ) 15
TIME DISTRIBUTION - HOURS  CODE - OPERATION NIGHT DAY NO. ITEM LENGTH BIT NO. I. TEAR DOWN  1. TEAR DOWN  2. DRILLING ASSEMBLY (At end of four)  3. REAMING  4. CORING  5. CONDITION MUD  6. TRIPS  7. LUBRICATE RIG  8. REPAIR RIG  9. DRILLING ASSEMBLY (At end of four)  9. PART CALL  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT CODE  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT CODE  1. TYPE  1. SERIAL NO. AIZJM  3. SERIAL NO. AIZJM  3. REPAIR RIG  9. DRILLING ASSEMBLY (At end of four)  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT CODE  1. INPE  1. BIT C/4 / LOS  1. BIT C/4 / LOS  1. BIT CODE  1. INPE  1. BIT C/4 / LOS  1. BIT CODE  1. INPE  1. BIT C/4 / LOS  1. BIT CODE  1. INPE  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. BIT CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. CODE  1. INDER  1. C	TIME WEIGHT WEIGHT PRESSIGNADIE FUNICOS PV/YP GEL STRENC FLUID LOSS PH SQUIDS	MUD RECOR	) 15 ) 15
TIME DISTRIBUTION - HOURS  DRILLING ASSEMBLY (At end of four)  I. RIGUP AND 1. TEAR DOWN 2. DRILL AGENT 2. DRILL AGENT 3. REAMING 4. CORING 5. CONDITION MUD 6. CONDITION MUD 7. LUBRICATE RIG 7. LUBRICATE RIG 8. REPAIR RIG 9. CUT OFF 9. DRILL RIGG 10. DEVIATION SURVEY 11. WIRE LINE LOGS 12. TEAR OND 13. WAIT QUICEMENT 14. CORING 15. CONDITION MUD 16. TEAR DOWN 17. LUBRICATE RIG 17. TEAR DOWN 18. TEAR 18. REPAIR RIG 19. DEPTH OUT 19. DEPTH IN 19. OEVIATION SURVEY 11. WIRE LINE LOGS 12. RUN CASING & CEMENT 13. WAIT QUICEMENT 15. DEPTH OUT 15. CUTTING STRUCTU INNER OUTER DULICH 15. CUTTING STRUCTU INNER OUTER DULICH 15. CONDITION STRUCTU INNER OUTER DULICH 16. TEAR 17. CONDITION STRUCTU INNER OUTER DULICH 17. CONDITION STRUCTU INNER OUTER DULICH 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEAR 18. TEA	TIME WEIGHT  PRESSIGRADIE FUNNEL VISCOS PV/YP  GEL STRENC FLUID LOSS PH SQLIDS	MUD RECOR	0 15
TIME DISTRIBUTION - HOURS  CODE - OPERATION NIGHT DAY NO. ITEM LENGTH BIT NO. /A  I. RIG UP AND 2. DRILL AGUAL  2. DRILL AGUAL  3. REAMING  4. CORING  5. & CIRCULATE  6. TRIPS  7. LUBRICATE RIG  9. CUT OFF ORILLING ASSEMBLY (At end of tour)  BIT RECORD  1/A  SIZE  4. C/4/  MANUFACTURER HTC  TYPE  5. CONDITION MUD  5. & CIRCULATE  6. TRIPS  7. LUBRICATE RIG  9. CUT OFF ORILLING ASSEMBLY (At end of tour)  BIT NO. /A  SIZE  4. C/4/  MANUFACTURER HTC  TYPE  5. SERIAL NO. A/2.IM  JETS JETS JETS JETS JETS JETS JETS JET	TIME  WEIGHT  PRESS GRADIE FUNNEL VISCOS PV/YP  GEL STRENC FLUID LOSS PH  SQLIDS	MUD RECOR	
CODE - OPERATION   NIGHT   DAY   NO.   ITEM   LENGTH   BIT NO.   / \( \text{AT ENGTH PAID} \)   1. TEAR DOWN     / BIT \( \text{L} \frac{1}{4} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{BIT NO.} \)   / \( \text{BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( \text{LENGTH BIT NO.} \)   / \( LENGTH BIT	TIME  WEIGHT  PRESSL GRADIE  FUNNEL VISCOS  PV/YP  GEL STRENC FLUID LOSS  PH  SQUIDS	T URE INT L	0
CODE - OPERATION   NIGHT   DAY   NO.   ITEM   LENGTH   BIT NO.   / \( \triangle \)   RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND     RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG UP AND   RIG U	TIME  WEIGHT  PRESSL GRADIE  FUNNEL VISCOS  PV/YP  GEL STRENC FLUID LOSS  PH  SQUIDS	T URE INT L	
1. RIG UP AND TEAR DOWN 2. DRILL ACTUAL 2. DRILL ACTUAL 3. REAMING 4. CORING 5. CONDITION MUD 6. TRIPS 7. LUBRICATE RIG 7. PARTICLE PRICE 8. REPAIR RIG 9. CUT OFF DRILLING LINE 10. DEVIATION SURVEY 11. WIRE LINE LOGS 12. RUN CASING & CEMENT 13. WAIT CNICEMENT 15. BIT 6/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/4 / 1/30 SIZE 1/	WEIGHT PRESS GRADIE FUNNEL VISCOS PV/YP GEL STRENC FLUID LOSS PH SQUIDS	URE NT L SITY	
2. DRILL ADTORL  2. DRILL ADTORL  3. REAMING  4. CORING  4. CORING  5. CONDITION MUD  5. CORDITION MUD  6. TRIPS  7. LUBRICATE RIG  8. REPAIR RIG  9. CUT OFF  9. DRILLING LINE  10. DEVIATION SURVEY  11. WIRE LINE LOGS  12. RUN CASING & CEMENT  13. WAIT CALCEMENT  14. DEPTH OUT  15. DEPTH OUT  16. DEPTH IN  17. TOTAL DRILLED  17. TOTAL HOURS  18. ADDC CODE  17. MANUFACTURER HTC  17. TYPE  17. J. J. J. J. J. J. J. J. J. J. J. J. J.	PRESSUGRADIE FUNNEL VISCOS PV/YP GEL STRENC FLUID LOSS PH SQUIDS	URE NT L SITY	
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DEVIATION RECORD  TIME FROM  800 2400 2430 230 530	19; 24, 29; 23 53	30 30 30 00	DEV.  ELAPSEI TIME  11/1 2/1/2 23	D COD	DE NO.	TVD  DETAIL  L  L  Cu  T	HORIZ DISP LS OF OPER	DEPT  ATIONS IN S  ACK S  J B H	H SEQUE	DEV.	DIR.  DIR.  PREMARKS	TVD	S.P.M.	LINER SIZE	DEPTH S-	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME FROM  800 2400 2430 230 530	19: 24/2 23	30 30 30 00	DEV.  ELAPSEI TIME  11/1 2/1/2 23	D COD	DE NO.	TVD  DETAIL  L  L  Cu  T	HORIZ DISP LS OF OPER	DEPT  ATIONS IN S  ACK S  J B H	H SEQUE	DEV.	DIR.  DIR.  PREMARKS	TVD	S.P.M.	LINER SIZE	DEPTH S-	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD  TIME FROM  800 2400 2430 230 530	19; 24, 29; 23 53	30 30 30 00	DEV.  ELAPSEI TIME  11/1 2/1/2 23	D COD	DE NO.	TVD  DETAIL  L  L  Cu  T	HORIZ DISP LS OF OPER	DEPT  ATIONS IN S  ACK S  J B H	H SEQUE	DEV.	DIR.  DIR.  PREMARKS	TVD	S.P.M.	LINER SIZE	DEPTH S-	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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LEA V\		Μ٨ -	ente			-	WELL NO. 21-16	API WE	LL NUM	BER			WATER	DEPTH	1	DATE - 18-	<u> </u>
OPE	RATOR	IVIOL	CKTC	<u> </u>				11 /	ACTOR				<u> </u>		<u> </u>	RIG NO	Э.
<i>j</i> - sigi	NATURE OF OPER	Te Active	PAPRESE	TATIVE				SIGNAT	TURE OF	CONTRACT	OR'S TOOL	PUSHER				\0'	_
				}				a	ogen	Bu	omle	ey					· 5.
	SEE WEIGHT		RADE	TOOLUT		E THREA			6.		P MANUFACT	TRER		TYPE		STROK LENGT	H H
<u>د</u>	1/2 15.50	2			$\frac{1}{2}$	F	270				eco	and the second		550		15	
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	TIME DISTRIBUTION	ON – HO	URS		DRILLING				BIT	RECORD			MUD R	ECORD			Γ
COD	E - OPERATION	NIGHT	DAY	NO.	(At e	nd of tour	r) LENGTH	BIT NO.	6.1			TIME		T			
	RIG UP AND FEAR DOWN			1		-		SIZE	ore	6/8		-					
	ORILL ACTUAL		-		BIT COS		, ধৃত	IADC COD	<u>.</u>	6/8		WEIGHT			-		
	REAMING	6	2		<u>Coress</u>		63,63	<b></b>				PRESSURE GRADIENT					
	CORING			9	43/42	<b>S</b> COD	265.78	MANUFAC		DPI		FUNNEL VISCOSITY				-	
	CONDITION MUD	1	6/2		DINA	e 600	15.71	TYPE		233		PV/YP					ĺ
	TRIPS	Ú	1/2		up Jes		18.34	SERIAL NO	D. <u>N</u> 9	11250		GEL STRENGTH	/	7		7	
		1	1/2	9	1/3/40	اما		JETS				FLUID LOSS					Ì
	UBRICATE RIG						266.63	TFA									
	REPAIR RIG	ļ	2		BHA	OD !	63c.89	DEPTH OL	JT			pH			<u> </u>		
9. c	OUT OFF DRILLING LINE		<u> </u>					DEPTH IN		7745		SOLIDS					2
10. [	DEVIATION SURVEY		ļ					TOTAL DR	ULED.	7745							AIIOT TOIN
11. V	WIRE LINE LOGS			36	STANDS	D.P.	3365,46						MUD & CHEM				Ž
12. F	RUN CASING & CEMENT				SINGLES_	D.B.		TOTAL HO		STRUCTURE		TYPE CON	AMOUNT	TYPE	AM	IOUNT	
13. V	WAIT ON CEMENT						<b>3</b> 2.2 <b>2</b>	INNER	OUTER		LOCATION		21		<del></del>		
14. N	NIPPLE UP B.O.P.				KELLY DOW	/N						Decou	Fool				
15. T	TEST B.O.P.				TOTAL	4	4058-	BEARINGS/ SEALS	GAGE	OTHER- DULL CHAR.	REASON PULLED				ĺ		
16. E	ORILL STEM TEST			WT. OF	STRING												
17. F	PLUG BACK						<del>, ,-</del>	<u></u>				1110	, 1/.	1. 11	11 0		
-	SQUEEZE CEMENT			REMAR	KŞ.	31 <u>5</u> 7 - 12 - 12 - 1		25-12 TANK				orklif	+ Kil	KIM	(/e)		
19. F	FISHING		<del>                                     </del>		e esta esta	er in Topy	Salara Pre-	· · · · · · · · · · · · · · · · · · ·				0:15	12 Hr	<b>S</b>			
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					CON	11 1	THINIT	L	**			_					
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22.			+		DRILLING	ASSE	7 E GEU 7			DRII	LLEH / Y	BOLL	ellal.	14 × 1 × 1	A.Shaeni		<b> </b>
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	B. TUBING TRIPS	<u> </u>			BIT 6 1	14	1,00	SIZE		114		WEIGHT			+		
Š	C. TREATING		ļ. <u>.</u> .		··· 6		•	IADC COD		9/2		<b>_</b>					
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MP.	E. TESTING			9	43/4 [	) COD -	265. X	MANUFAC	TURER	HTC		FUNNEL VISCOSITY			*		
ၓ	F.			,	Dime	Tag	15.71	TYPE		STX-20		PV/YP	7	7		$\overline{/}$	
	G.				UOT	1-04	, , ,	SERIAL NO	D. 1	3751		GEL STRENGTH	//	7	+	7	
	н. /			4	upite	_	18.34	JETS	·	ozen	**	FLUID	/:		-	-	
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<del>-</del> -OUE	(OFFICE USE RS W/ CONTR. D.P.	ONLY)	T						<u></u>		<u>.</u>	SOLIDS					9
	RS W/ OPR. D.P.							DEPTH IN			•				1		DAY TOLIB
-					STANDS	00 *	~ · ~ / ~	TOTAL DR					MUD & CHEM	I ICALS ADDI	ED		٤
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Jour	RS STANDBY		ļ	X	SINGLES	_ D.P. *	33.82	INNER	OUTER	DULL CHAR.	LOCATION	Detwar	n 15 gal				
					KELLY DOW	/N						QUICK (EI	2050				ĺ
					TOTAL			BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	50	1685×				l
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				<b>⊩</b> —		24,	CA C				<u> </u>	Cauche	d5X	l			
OTA	AL DAYWORK			REMAR					_F	ork lift	L Br	an m	cDana	19			i
NO. C	OF DAYS M SPUD		-L -	91	<u> </u>	500	)		FL	16/= 4	15	3684.					
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	ATING HOURS Y MUD COST			All .	7N	100		.,		+	- 177.	<b>.</b>					
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-	AL MUD COST		``	1	1460	<u> </u>	AL DAILVE	DILLING:	DENO:		LLER	peren	$\mu$ , $\mu$				L
ð 199 <del>5</del>	5 International Association of	Drilling Cont	ractors	IADC	- API U	rricia	AL DAILY DI	nilLING	nerul	ai FUKM	Į.		· `				
		,			15	APPRO	OVED ED IN U.S.A.	4	<b>)</b> AP	PROVED		Manual Comments	i i i i i i i i i i i i i i i i i i i				

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→ DEPTH IN	TERVAL	DRILL.D	CORE		FORM	IATION	ROTA	RY WT. ON	DIGER	PUMF	NO.1	PUM	P NO. 2	PUMI	2 NO. 3	PUMI	P NO. 4	TOTAL
FROM	то	REAMR COREC	NO.	(SF		E RECOVER	TAR	ED BIT	PUMP PRESSURE	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	TOTAL PUMP OUTPU
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DEVIATIO RECORD		_							<u> </u>									
TIME	100																	
FROM	то	ELAPSE TIME	D COD	DE NO.	DETAILS	OF OPERA	ATIONS IN SEC	QUENCE AND	REMARKS									
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	222 25-25-		<u>.</u>	أحج														
DEPTH IN	TERVAL	DRILL.D REAMR	CORE NO.		5 C 2 C 12 C 12 C 17 C	ATION	ROTA TABL	MT. ON	PUMP	PUMP	NO. 1		P NO. 2		NO. 3	PUMP	NO. 4	TOTAL PUMP
FROM	то	COREC		(Sn	IOW COHE	RECOVER	Y) SPEE	6 BIT	PRESSURE	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	OUTPUT
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																ļ		
<u> </u>					·	HORIZ.		<u> </u>		<u> </u>	HOF	IZ.	<u> </u>		<b></b>	<del></del>	<u> </u>	HORIZ.
DEVIATIO		DEV.	III	R.	TVD	DISP.	DEPTH	DEV.	DIR.	TVD	DIS	P.   [	. <b></b>	DEV.			/D	DISP.
RECORD	'	i					ii ii				ŀ		DEPTH	DEV.	DIR.			
				-†		1	<u> </u>					-	ЕРТН	DEV.	DIR.	T		
TIME		ELAPSE	COD	E NO	DETAILS	OF OPERA	TIONS IN SEC	NIENCE AND	DEMARKS				DEPTH	DEV.	DIR.	Ţ		
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No. 3				_	147			LLING REF			· · · · · · · · · · · · · · · · · · · ·	R	EPORT N			
LEASE	11.						WELL NO.	API WELI	L NUMË	BER			WATER	DEPTH	DATE	
OPERATO	ddle	me	runt	1يم			21-11	CONTRA	CTOR					/	2-19 AIG	<i>-02</i> NO.
For	tura.		- ·					Part	رم 4-	rcan	UT	I			104	,
SIGNATUE	IF OF OPEN	ATOR'S R	EPRESE	NTATIVE			-	SIGNATU	RE OF	CONTRACT	OR'S TOOL	PUSHER			1 2 2 7	
D.P. SIZE	WEIGHT		RADE	TOOL J	TOD TV	PE THREAL	D STRING NO	PUMP NO	ges	" USus	mles P MANUFACT	<u>/</u>	<del></del>	TYPE	STR	OKE
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TIME	DISTRIBUT	ON - HOU	RS			IG ASSEM			BIT F	RECORD			MUD RI	CORD		T
CODE - OP	ERATION	NIGHT	DAY	NO.	ITEM		LENGTH	BIT NO.	T	11	e got see c	TIME	/ <b>M</b> M	10.00	ケ ハフハ	1
1. RIG UP /				1.10.		•/		0175		64		WEIGHT	600	12:00		-
2. DRILL A		2	ı	<del>                                     </del>	° 6	14	/,۵0	IADC CODE		<del>\$\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}{\fint}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}</del>	TTT		4.6	8.6	8.8	-
3. REAMIN	IG	6	10	1	BHS	-5	2.34	MANUFACT		HTC		PRESSURE GRADIENT FUNNEL				4.
4. CORING	3			5	4241	<b>9</b> 00	26278	TYPE				VISCOSITY	35	50	65	4
5. & CIRCU	ION MUD JLATE			1	Down	مهجز	15.71	SERIAL NO.		05-XE		PV/YP	/_	/,	/	1
6. TRIPS		4		/	UPI	₹ OD	18.34	JETS	<del>- /  </del> -	3231		GEL STRENGTH				
7. LUBRICA	ATE RIG			9	4340	দুহ <sub>od</sub>	266.63	TFA	•	PEW		FLUID LOSS				
8. REPAIR						OD		DEPTH OUT		6		рН				
9. DRILLIN	F IG LINE				AHS	+	569.80					SOLIDS				
10. DEVIATI	ION SURVEY							TOTAL DRIL	I ED							
11. WIRE LII	NE LOGS			76	STANDS_	D.P.	7123.88					TYPE	MUD & CHEMI	CALS ADDED	AMOUNT	
12. RUN CAS	ING & CEMENT				SINGLES_		30,82	C		STRUCTURE		0 1	(00	1176	AMOUNT	
13. WAIT ON				<b> -</b> '	KELLY DOV			INNER	OUTER	DULL CHAR.		(2e)				1
14. NIPPLE			l .	-	TOTAL		38-50	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	Bar	104			-
				B	1017	1.	1165	SEALS	GAGE	CHAR.	POLLED					
15. TEST B.				- VIT O	C CTDING						1				t	- 11
16. DRILL S	TEM TEST			WT. O	F STRING	177	,000			].		L				4
16. DRILL S	TEM TEST			WT. OI	· .	177	,000				Fock	Lift Lift	Kick	m;//e		
16. DRILL S 17. PLUG B/ 18. SQUEEZ	ACK ZE CEMENT				· .	177	,000				Fork Boll	lift er 12	Kick EHrs	m,()e		
16. DRILL S 17. PLUG B/ 18. SQUEEZ 19. FISHING	ACK ZE CEMENT				· .	/27 VEID	IFNTIA				Fork Boll	lift er 13	Kick PHrs	m;()e		
16. DRILL S 17. PLUG B/ 18. SQUEEZ 19. FISHING 20. DIR. WO	ACK ZE CEMENT	3		REMAI	CON	yzz VFIE	JENTIA				Fork Boll	lift er 13	Kick PHrs	m,()e		
16. DRILL S 17. PLUG B/ 18. SQUEEZ 19. FISHING 20. DIR. WO	ACK ZE CEMENT		/	REMA	· .	yer VEIE	JENTIA			DAI			Kick Hrs	m;()e		
16. DRILL S' 17. PLUG BA 18. SQUEEZ 19. FISHING 20. DIR. WO	ACK ZE CEMENT		1	REMA	CO)	VFIE IG ASSEM	DENTIA		A SIT F		Fork Bo, I		edes			
16. DRILL S' 17. PLUG BA 18. SQUEEZ 19. FISHING 20. DIR. WO 21. LACC 22.	ACK ZE CEMENT	i		REMA	CON DRILLIN (At a	IG ASSEN	DENTIA		9 <b>BIT F</b>	DRI		md b	Kick PHrs Hrs			
16. DRILL S' 17. PLUG B/ 18. SQUEEZ 19. FISHING 20. DIR. WO 21. // OC 22. 23.	ACK ZE CEMENT  ORK			REMA	ORILLIN (At a	IG ASSEN	DENTIA	BIT NO.	STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE	PECORD //		TIME	edes		600	
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16. DRILL S' 17. PLUG BA 18. SQUEEZ 19. FISHING 20. DIR. WO 21	ACK ZE CEMENT  ORK  REPORATING BING TRIPS			REMA	ORILLIN (At a	IG ASSEN	DENTIA MBLY ) LENGTH	BIT NO. SIZE IADC CODE		// 6 //		TIME WEIGHT PRESSURE GRADIENT	MUD RE	ÉCORD		
16. DRILL S' 17. PLUG BA 18. SQUEEZ 19. FISHING 20. DIR. WO 21	ACK ZE CEMENT  BORK  CONTROL  REFORATING BING TRIPS BEATING			REMA	ORILLIN (At a	IG ASSER	DENTIA  MBLY  D  LENGTH	BIT NO. SIZE IADC CODE MANUFACTI		A TC		TIME WEIGHT PRESSURE	MUD RE	ÉCORD		
16. DRILL S' 17. PLUG BA 18. SQUEEZ 19. FISHING 20. DIR. WO 21. A. PEI 23.  A. PEI B. TUI C. TR D. SW E. TES F.	ACK ZE CEMENT  BORK  REPORATING BING TRIPS REATING WABBING			REMAI	DRILLIN (At a litem	IG ASSER	DENTIA  MBLY  D  LENGTH  1,670  2,34	BIT NO. SIZE IADC CODE MANUFACTI TYPE	URER	// 6 //		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	MUD RE	ÉCORD		
A. PEI B. TUI C. TR D. SW E. TES G.	ACK ZE CEMENT  BORK  REPORATING BING TRIPS REATING WABBING			REMAI	DRILLIN (At a litem Bit G G J + S 43/4 Down	IG ASSER	MBLY ) LENGTH /,GTO 2.34 265.78	BIT NO. SIZE IADC CODE MANUFACTI TYPE SERIAL NO.	URER	11 6 1/4 14 15 15 15 15 15 15 15 15 15 15 15 15 15		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	MUD RE	ÉCORD		
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16. DRILL S' 17. PLUG BA 18. SQUEEZ 19. FISHING 20. DIR. WO 21. LOO 22. 23.  A. PEI B. TUI C. TR D. SW E. TE: G. H.	ACK ZE CEMENT B DRK  PROPATING BING TRIPS BEATING VABBING STING	12		NO.	DRILLIN (At a  ITEM BIT G  BIT S  43/4  Down	IG ASSENDENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	DENTIA MBLY 1) LENGTH 1,000 2,34 765,78 15,71	BIT NO. SIZE IADC CODE MANUFACTI TYPE SERIAL NO. JETS	URER	11 6 1/4 14 15 15 15 15 15 15 15 15 15 15 15 15 15		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	MUD RE	ÉCORD		
A. PEI B. TUI C. TR. D. SW E. TE: G. H. TOTALS	ACK ZE CEMENT  BORK  REPORATING BING TRIPS REATING VABBING STING  AYWORK TIM (OFFICE US	1 7 E SUMMAR)		NO.	DRILLIN (At a strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the strength of the	IG ASSENDED OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	MBLY  1)  LENGTH  1,000  2.34  265.78  15.71  17.34  266.63	BIT NO. SIZE IADC CODE MANUFACTI TYPE SERIAL NO. JETS TFA DEPTH OUT	URER	11 6'14 47C 57X-20 1757 6PGN		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	MUD RE	ÉCORD		
A. PEI B. TUI C. TR: G. H. TOTALS  DATE: D. C. TOTALS  D. C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. TR: C. 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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

APPROVED



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. WIRE LIN	IE LOGS						TOTAL DR	IILLED				MUD & CHE	MICALS ADD	ED	
. RUN CASII	NG & CEMENT				STANDS D.P.	7123.88	TOTAL HO				TYPE	AMOUNT	TYPE		AMOUNT
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5. TEST B.C				78.00 2	TOTAL	7763	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	LJG ZA				
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3. DRILL ST	D.P. TEM TEST			WT. OF	TOTAL	7763	BEARINGS/ SEALS	GAGE					mil	le	7
3. DRILL ST 7. PLUG BA 3. SQUEEZI	D.P. TEM TEST ACK E CEMENT				TOTAL	7763	BEARINGS/ SEALS	GAGE			P+ 121		mil	lle	_
3. DRILL ST 7. PLUG BA 3. SQUEEZI 9. FISHING	D.P. TEM TEST ACK E CEMENT				TOTAL	7763	BEARINGS/ SEALS	GAGE					mil	le	~
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A. PEFB. TUE	D.P. TEM TEST TOCK  E CEMENT  RK  C.   RFORATING  BING TRIPS  EATING  ABBING	/		REMAR	TOTAL  STRING //8  RKS  CONFI  DRILLING ASS (At end of to	DENTIA  SEMBLY our)  LENGTH	BIT NO.	BIT 1	DRII RECORD  HTC	orkli pi led	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	Kirk Hrs Mubi 7:00 9.9	<u>~</u>	'le	
A. PEF B. TUE C. TRE D. SW. E. TES F.	D.P. TEM TEST TOCK  E CEMENT  RK  C.   RFORATING  BING TRIPS  EATING  ABBING	/		REMAR	TOTAL  STRING //8  RKS  CONFI  DRILLING ASS (At end of to	DENTIA  SEMBLY our)  LENGTH  1.06  2.34	BIT NO. SIZE IADC COD	<b>BIT</b> SE STURER	DRILL PRECORD  WILL STX-20	orkli pi led	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	Kirk Yrs Mudi 7:00 9.9	<u>~</u>	! les	
A. PEF B. TUE C. TRE D. SW E. TES F. G.	D.P. TEM TEST TOCK  E CEMENT  RK  C.   RFORATING  BING TRIPS  EATING  ABBING	/		NO.	TOTAL  STRING //8  RKS  CONFI  DRILLING ASS (At end of to	DENTIA  SEMBLY our)  LENGTH	BIT NO. SIZE IADC COD MANUFAC TYPE	<b>BIT</b> SE STURER	RECORD  HTC  57X-20  3737	orkli pi led	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH	Kirk Yrs Mudi 7:00 9.9	<u>~</u>	! les	
A. PEF B. TUE C. TRE D. SW. E. TES H.	D.P. TEM TEST TOCK  E CEMENT  RK  C.   RFORATING  BING TRIPS  EATING  ABBING	/	17	REMAR	DRILLING ASS (At end of to ITEM  BIT 644  B. 5  434065	DENTIA  SEMBLY our)  LENGTH  1.06  2.54  265.78  15.71  18.34	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO	<b>BIT</b> SE STURER	DRILL PRECORD  WILL STX-20	orkli pi led	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL	Kirk Yrs Mudi 7:00 9.9	<u>~</u>	'le	
A. PEF B. TUE C. TRE D. SW E. TES F. G. H.	D.P. TEM TEST TICK  E CEMENT  RICK  REPORATING BING TRIPS EATING ABBING BING BING BING BING BING BING BING	/ / SUMMAR	12	NO.	DRILLING ASS (At end of to ITEM BIT 644 BS 434065 DOWN JAPO	DENTIA  SEMBLY our)  LENGTH  1.06  2.54  265.78  15.71  18.34  266.63	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS	BIT SEE	RECORD  HTC  57X-20  3737	orkli pi led	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID	Kirk Yrs Mudi 7:00 9.9	<u>~</u>	! les	
A. PEF B. TUE C. TRE D. SW. E. TES F. G. H.	D.P. TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TES	SUMMARY		NO.	DRILLING ASS (At end of to ITEM  BIT (144  B. S. 434065  OD  434069	DENTIA  SEMBLY our)  LENGTH  1.06  2.54  265.78  15.71  18.34  266.63	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA	BIT  SE STURER  D. 1	DRII RECORD  HTC STX-20 3737 Open	orkli pi led	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	Kirk Yrs Mudi 7:00 9.9	<u>~</u>	'le	
A. PEF B. TUE C. TRE D. SW/C  OURIS W/C	D.P. TEM TEST TOCK  E CEMENT  RIK  C.,  REPORATING BING TRIPS EATING ABBING STING  ANYWORK TIME (OFFICE USE  ONTR. D.P.	SUMMARY		NO.	DRILLING ASS (At end of to ITEM  BIT (144  B. S. 434065  OD  434069	DENTIA  SEMBLY our)  LENGTH  1.06  2.54  265.78  15.71  18.34  266.63	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL	BIT  E  CTURER  D. 1	DRII RECORD  # // 6 'y  HTC. 57X-20 373T  Open	orkli pi led	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	7:00 9.9	RECORD		
A. PEF B. TUE C. TRE D. SW. E. TES F. G. H. DTALS DURS W/ O	D.P. TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TES	SUMMARY		NO.	DRILLING ASS (At end of to ITEM  BIT (144  B. S. 434065  OD  434069	265.78 18.34 266.63 569.60	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN	BIT SECTURER D. 1	DRII RECORD  HTC STX-20 3737 Open	orkli pi led	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH	Kirk Yrs Mudi 7:00 9.9	RECORD	DED	AMOUNT
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A. PEF B. TUE C. TRE D. SW/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C DURS W/ C	D.P. TEM TEST T.CK  E CEMENT  RICK  E CEMENT  RICK  E CEMENT  RICK  C.  REPORATING  SING TRIPS  EATING  ABBING  STING  AVWORK TIME  (OFFICE USE  ONTR. D.P.  HOUT D.P.	SUMMARY		NO.	TOTAL  STRING  STRING  AKS  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CONFI  CO	DENTIA  SEMBLY our)  LENGTH  1.06  2.54  265.78  15.71  18.34  266.63  569.60  72.17	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR	BIT  EE  CTURER  D. 1  DUR 1/2  CUTTING	DRII RECORD  HIC STX-20 3737 Open 7745 69 7	Di les	TIME WEIGHT PRESSURE GRADIENT FUNDL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS	7:00 9.9 57 MUD & CHE AMOUNT 291	RECORD	DED	AMOUNT
A. PEF B. TUE C. TRE D. SW/C OURS W/C OURS W/C OURS W/C OURS W/C OURS W/C	D.P. TEM TEST T.CK  E CEMENT  RICK  E CEMENT  RICK  E CEMENT  RICK  C.  REPORATING  SING TRIPS  EATING  ABBING  STING  AVWORK TIME  (OFFICE USE  ONTR. D.P.  HOUT D.P.	SUMMARY		NO. 1 9 1 9 9 7 7 7	DRILLING ASS (At end of to ITEM BIT 644 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 549 BIT 54	DENTIA SEMBLY OUT) LENGTH 1.06 2.54 265.78 15.71 18.34 266.63 569.60 7217 18.31 27.00 7814	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR	BIT  STURER  O. 7  SILLED  DURE/7  CUTTING  OUTER	DRII RECORD  HTC STX-20 373T OPEN  3STRUCTURE DULL CHAR.	LER Z	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE RATING	7:00 9.9 57 MUD & CHE AMOUNT 291	RECORD	DED	AMOUNT
A. PEF B. TUE C. TRE D. SW. E. TES G. H.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS W/ C.  DURS STAN	D.P. TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TEST TEM TES	SUMMARY		NO. 1 9 1 9 9 7 7 7	DRILLING ASS (At end of to ITEM BIT 644 BIT 549 DOWN JAPA STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING 1/5	DENTIA SEMBLY OUT) LENGTH 1.06 2.54 265.78 15.71 18.34 266.63 569.60 7217 18.31 27.00 7814	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR	BIT  SECTURER  D. 7  SILLED  OUTER  GAGE	PRICE STX-20 3737 OPEN 7745 G9 73 STRUCTURE DULL CHAR.	LOCATION PULLED	TIME WEIGHT PRESSURE GRADIENT FUNCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BALLIC COTT TYPE COTT	MUD II 7:00 9.9 57 MUD & CHE AMOUNT 291 3	RECORD	DED	AMOUNT
DATALS  DATAL DAYY  OTAL DAYY  OF DAYS  D. DRILL ST  F. G. H.  OURS W/C  OURS W/C  OURS W/C  OURS STAN	D.P. TEM TEST TOCK  E CEMENT  RICK  E CEMENT  RICK  E CEMENT  RICK  C.   RICH  RICK  C.   RICH  RICK  C.   RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  RICK  R	SUMMARY		NO. 1 9 1 9 9 7 7 7	DRILLING ASS (At end of to ITEM BIT 644 BIT 549 DOWN JAPA STANDS D.P. SINGLES D.P. KELLY DOWN TOTAL STRING 1/5	DENTIA SEMBLY OUT) LENGTH 1.06 2.54 265.78 15.71 18.34 266.63 569.60 7217 18.31 27.00 7814	BIT NO. SIZE IADC COD MANUFAC TYPE SERIAL NO JETS TFA DEPTH OL DEPTH IN TOTAL DR	BIT  SECTURER  O. 1  SILLED  OUTER  GAGE	PRICE STX-20 37.37 OPEN 77.45 G9 77 GSTRUCTURE DULL CHAR. OTHER DULL CHAR.	LOCATION PULLED	TIME WEIGHT PRESSURE GRADIENT FUNCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE BALLIC COTT TYPE COTT	MUD II 7:00 9.9 57 MUD & CHE AMOUNT 291 3	RECORD	DED	AMOUNT
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DEPTH IN	TERVAL TO	DRILL D REAMR COREC	CORE NO.		HOW CO	RE RECOVE	m	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	PUMP LINER SIZE	NO. 1 S.P.M.	PUMI LINER SIZE	P NO. 2	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4	PUMP
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FROM 2.763	7778 7814	REAMR COREC	NO.	-	HOW CO	RE RECOVER		TABLE SPEED	25	1400		S.P.M	LINER SIZE	s.p.m.	LINER			S.P.M.	PUMP OUTPUT
PROM  7/3  7/7/8  DEVIATION	7778 7814	REAMR COREC	NO.		HOW CO	RE RECOVE		TABLE SPEED	25	1400			LINER SIZE  5	s.p.m.	LINER		LINER	S.P.M.	PUMP
FROM 7763	7778 7814	REAMR COREC	NO.	-	5ho	RE RECOVER		75	25 25/30	1400 1500	LINER	S.P.M.	LINER SIZE  5	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM  2763  777 \$  DEVIATION RECORD	TO 7778 7814	DEV.	NO.	MR.	She TVD	HORIZ DISP	D	75	25 25/30 DEV.	14 00 15 00 Dir.	LINER	S.P.M.	LINER SIZE  5	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM  2763  777 \$  DEVIATION RECORD	7778 7814  DEPTH	DEV.	D con	DE NO.	She TVD	RE RECOVER	D	75	25 25/30 DEV.	14 00 15 00 Dir.	LINER	S.P.M.	LINER SIZE  5	S.P.M. (40) (40)	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	TO 7778 7814	DEV.	D con	MR.	TVD	HORIZ DISP.	ATIONS	75 75 IN SEQUE	DEV.	PRESSURE  1400 1500  DIR.  REMARKS	TVD	S.P.M.	LINER SIZE  5 Z	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
DEVIATION RECORD	7778 7814  DEPTH	DEV.	D COI	DE NO.	TVD  DETAIL	HORIZ DISP.	ATIONS	75 75 IN SEQUE	DEV.	PRESSURE  1400 1500  DIR.  REMARKS	TVD	S.P.M.	LINER SIZE  5 Z	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
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PROM  DEVIATION RECORD  TIME FROM  18:00 7230 400	TO 7778 7814 DEPTH	DEV.	D COI	DE NO.	TVD  DETAIL	HORIZ DISP.	ATIONS	75 75 IN SEQUE	DEV.	PRESSURE  1400 1500  DIR.  REMARKS	TVD	S.P.M.	LINER SIZE  5 Z	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	HORIZ.
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SIGNATURE OF OPERATOR RESIDENT ADVECTORS TO PURSUER  DEP SEZ WIEBERT CAPACIE TOOL TOOL TOTAL PROPERTIES OF PURSUER  1/2 / S.S.O.  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  THE DISTRIBUTION - HOURS  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  THE DISTRIBUTION - HOURS  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  THE DISTRIBUTION - HOURS  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  THE DISTRIBUTION - HOURS  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  THE DISTRIBUTION - HOURS  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  THE DISTRIBUTION - HOURS  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  THE DISTRIBUTION - HOURS  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  THE DISTRIBUTION - HOURS  DRILLING ASSEMBLY (ALL MANUAL CULTURE)  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO PURSUE GOOD  TO P	12-21-	/									ACTOR	CONTR	2	21-16	L	Δ	tei	wy	MP	die 1	Y\. d
SIGNATURE OF CONTRATORY TOOL PURSUES  OPERATOR  JYZ 5.50  THE DISTRIBUTION HOURS  ORIGINATION BY TOOL TOOL TOOL TOOL TOOL TOOL TOOL TOO	10				~	<u> </u>	. 147	-	. ~	~< <i>&gt;</i>	. 1	<b>/</b> }`					<u> </u>		<b>.</b>	tung	FAC
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TIME DISTRIBUTION—HOURS  DRILLING ASSEMBLY AMON THE LENGTH BIT NO. // TIME (, 00) 12. POPERATION IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME (, 00) 12. POPERATION IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME (, 00) 12. POPERATION IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME (, 00) 12. POPERATION IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME (, 00) 12. POPERATION IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME (, 00) 12. POPERATION IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME (, 00) 12. POPERATION IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME CORD IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME CORD IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME CORD IN RIGHT DAY NO. ITEM LENGTH BIT NO. // TIME CORD IN RIGHT DAY NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGTH BIT NO. ITEM LENGT	STRC LENG	TYPE			UREA	ACTL	MANUFAC	MP N	PÜ		o.	PUMPN	NO.	STRING N	YPE THRE	O.D.	TOOL J	RÁDE			P. SIZE
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TIME DISTRIBUTION - HOURS  DPILLING ASSEMBLY (A) and of busy  NO. 1784  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/1  TIME (**OD**) 12.  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 BIT NO. 1/2  1 B	15					)	e o	6	7	T		2									
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9. FISHING 10. DIR. WORK 11. 22. 33.  DRILLER TABLES OF THE CORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MANUFACTURER HTC  FUNNEL VISCOSITY  FOR STRENGTH  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUNNEL VISCOSITY  MANUFACTURER HTC  FUND	~	1.1/0/					11:1	-1,	Fa							t/***	DEMA		-	ж .	PLUG BAC
DRILLING ASSEMBLY (At end of tour)  DRILLING ASSEMBLY (At end of tour)  NO. ITEM LENGTH BIT NO. TIME I YOU (O LO LO LO LO LO LO LO LO LO LO LO LO LO	<i>.</i>	41/81	<u> </u>	4/4		<del>-</del>	1	_	<u>し</u>						• •	110	TULIVIAL			CEMENT	SQUEEZE
DRILLING ASSEMBLY  A PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING D. SWABBING F. G. H. DAYWORK TIME SUMMARY (OFFICE USE ONLY)  DRILLING ASSEMBLY (At end of tour) BIT NO. ITEM LENGTH BIT NO. SIZE G'/4 WEIGHT /0.1 /0.1 /0.1  SIZE G'/4 WEIGHT /0.1 /0.1 /0.1  DAYJOR JETS DAYWORK TIME SUMMARY (OFFICE USE ONLY)  DEPTH OUT  DEPTH OUT  DEPTH OUT  SOLIDS  DEPTH IN TOTAL DRILLER  MAD A A DAYJOR ASSEMBLY BIT RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  FILM INC. 1   V.   1   0   0   0    PRESSURE GRADIENT  MANUFACTURER HTC FUNNSITY SERIAL NO. 7 373TT GEL STRENGTH / JETS DAYWORK TIME SUMMARY (OFFICE USE ONLY)  RHYA 569.80  DEPTH OUT  DEPTH OUT  TOTAL DRILLER  SOLIDS	· · ·		15_	<u>~ (</u>	12	<u> </u>	100	i a	کح				Т	ENITIA	(IEIN	M					FISHING
DRILLING ASSEMBLY (At end of tour)  NO. ITEM LENGTH BIT NO.  SIZE 6 1/4 WEIGHT 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.													1	-14 1 1H	YI IU	CUL	8			к	DIR. WOR
DRILLING ASSEMBLY (At end of tour)  A PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.  DAYWORK TIME SUMMARY (OFFICE USE ONLY)  DRILLING ASSEMBLY (At end of tour)  BIT RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD  MUD RECORD				Λ		_										- v - v s to (man a s)	منعقا ا				
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A PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING D. SWABBING E. TESTING P. J. J. J. J. J. J. J. J. J. J. J. J. J.		ECORD	MUD RE	1					RD	RECO	BIT										- <b>n</b> 4
B. TUBING TRIPS   BIT 6 1/4   SIZE   G 1/4   WEIGHT   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78.1   78		<u> </u>		Т —		$\dashv$		Γ				TNO			<del></del>	<u> </u>	<b>-</b>			ORATING	A. PERF
C. TREATING  D. SWABBING  E. TESTING  P. WANUFACTURER  TYPE  SERIAL NO.  TYPE  SERIAL NO.  TYPE  STRENGTH  JETS  DAYWORK TIME SUMMARY (OFFICE USE ONLY)  GOURS W. CONTR. D.P.  GOURS W. OPR. D.P.  ADDITIONAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL DEPTH IN  TOTAL	000	100	800	119		$\dashv$			- 4	-#			$\dashv$	LENGIN			140.			NG TRIPS	B. TUBII
F.	3 10.3	10.3	10.1	<del>+ `</del>		$\dashv$		Н	1/4	<u> 6</u>	_		ᅪ	1,00	14	BIT 6				ATING	C. TREA
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G.  H.  OTALS  12 /2  DAYWORK TIME SUMMARY (OFFICE USE ONLY)  OURS W/ CONTR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.  OURS W/ OPR. D.P.	$\neg \neg \neg$				PV/YP	_			<u>-20</u>	X		PE	TY	15.71	Too	David					F.
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CUMULATIVE ROTATING HOURS

DAILY MUD COST TOTAL MUD COST



in.

(30,000)

24,000



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LEASE					WELL NO.	API WELL NUM				WATER		DATE	
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OPERATOR	111	TN			21-16	CONTRACTOR	t			1	110	RIG N	
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				DRILLING ASS	3FMDI V			Т					T
TIME DISTRIBUTI	ION – HOU	JRS		DRILLING ASS (At end of t	A 17	ВП	record			MUD R	ECORD		
CODE - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.	12		TIME	7:00	12:00	5:40	
1. RIG UP AND TEAR DOWN	-		,	BIT 6 14	1.00	SIZE	41/4		WEIGHT	10.0	10.0	10.2	
2. DRILL ACTUAL	111/2		<b>\\ .</b>	2/	7 100	IADC CODE	7719	<del></del>	PRESSURE GRADIENT		טיטון	14/6	1
3. REAMING			1	0/5018	2.54	MANUFACTURER	HTC	-	FUNNEL	1	40	47	1
4. CORING		_, /	19	47/41/63	265.78	TYPE CTV	TIC -		VISCOSITY	53	58	4./	-
5. & CIRCULATE		434	<u> </u>	0 Ja1 00	15.71		530 6C01-3		PV/YP	//	'/,	/,	1
6. TRIPS	$\overline{\Gamma}$	1/2/	11	USEK 00	18,34	SERIAL NO.	2005	·	GEL STRENGTH				
7. LUBRICATE RIG	1/2	12	9	43/45	1266.63	JETS TEA	-		FLUID LOSS			_	<u> </u>
8. REPAIR RIG	12			- voe		TFA	+ +		рН		-		
9. CUT OFF DRILLING LINE				OD	-	DEPTH OUT			SOLIDS				<b>1</b> g
10. DEVIATION SURVEY			1	0.1 4		DEPTH IN	7996		<del> </del>	<del>                                     </del>		· · · · · ·	NIGHT TOUR
11. WIRE LINE LOGS			1	BUA	549.80	TOTAL DRILLED					MICALS ADDED		
12. RUN CASING & CEMENT	<del>                                     </del>	1	80	STANDS D.P.	+	TOTAL MOURS	221/1		TYPE	AMOUNT	TYPE	AMOUNT	
13. WAIT ON CEMENT	†		1	SINGLESD.P.	7498	CUTTINI INNER OUTER	NG STRUCTURE	LOCATION	BAR	260	-	<u> </u>	1
14. NIPPLE UP B.O.P.	<del>                                     </del>			KELLY DOWN	24			<u> </u>	Causic	2			
15. TEST B.O.P.	<del>                                     </del>	<del>                                     </del>	1	TOTAL	8093	BEARINGS/ SEALS GAGE	OTHER E DULL CHAR.	REASON	PARADAN	14			
16. DRILL STEM TEST		1	WT. O	DF STRING 123	ሰለስ		JUNK.		Deva	7		T -	1
17. PLUG BACK		1		) [ J	11/1	Δ ~ ,	· _1		<del>سوتلال</del> ۱۱	1	1	<del></del>	1
18. SQUEEZE CEMENT	1	<del>                                     </del>	PEMA	mes tolk	<u>~++/</u>	A. Yay.	· c/		701 /6"	42	nes_		1
19. FISHING	†	1		UUVIL	<u>ا المالا</u> المالا			<del>, , , , , , , , , , , , , , , , , , , </del>					
20. DIR. WORK	<del>                                     </del>	<b>†</b>		LUNFI	JEN NAI								
at 1 7 1		13/4		·	+ # 1/1L	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				<u> </u>			
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23.	1	<b>†</b>		DRILLING AS		P:-	T RECORD	1		MILL	RECORD		T
A. PERFORATING	1:	1	1	(At end of t	tour)			*		UF			-
B. TUBING TRIPS	+	1	NO.	ITEM	LENGTH	BIT NO.	12		TIME	1900	0/00	·	-
C TREATING		$\top$	1/	BIT 6/8	1.00	SIZE	6/8		WEIGHT	10.1+	1	1 	
D. SWABBING		1	1,	318608	7.00	IADC CODE			PRESSURE GRADIENT	<del></del> -	5,4	r C	
D. SWABBING E. TESTING	+	<del>                                     </del>	10	13/4 DC 00	11/10	MANUFACTURER	HIC		FUNNEL VISCOSITY	1,,	<i>r</i> -	ξ.	1
F.		+	#7	N JH W OI	cus. 78	TYPE 57	X 30		PV/YP	<del>                                     </del>		/-	1
G.	+	<del> </del>	#	Danta	15.71	SERIAL NO.	025063	_	GEL	+ /	+-/-	<del>-/-</del>	-
H.	+	†	#/-	UP SALOE	18.34	JETS	000		STRENGTH FLUID	<del>                                     </del>	+-/-		-
TOTALS	12	12	9	15/4 DC00	266.63	TFA	-pen		LOSS	1	-		4
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DAYWORK TIM (OFFICE US HOURS W/ CONTR. D.P.	SE ONLY)	T	(IL	<del></del>			1496						DAY TOUR
(OFFICE US	E ONLY)		1		1	TOTAL DRILLED	1200			MUD & CHEN	MICALS ADDED		<b>1</b> 8
(OFFICE US HOURS W/ CONTR. D.P.	E ONLY)		00	STANDS D.P	·.	TOTAL	1/		TVO		_	ALIA	, <b>1</b>
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P.	E ONLY)		80	STANDS D.P			22/2 NG STRUCT FRE		TYPE	AMOUNT	TYPE	AMOUNT	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	iE ONLY)		¥0	SINGLESD.P					Gec	/68 <sup>5</sup>	C Bustic	3 24	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	iE ONLY)		X 30	SINGLESD.P		CUTTIN INNER OUTE	ER DULL CHAR.	LOCATION	Gec Bar	16854 180	Constic Desco		
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	iE ONLY)		X	SINGLES		CUTTIN	DULL CHAR.		Gel BZ( BACKM	180 245	Constic Desco	3 24	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P.	iE ONLY)		X	SINGLESD.P		CUTTIN INNER OUTE	ER DULL CHAR.	LOCATION	Gec Bar	180 245	Constic Desco	3 24	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY	iE ONLY)		X	SINGLESD.P KELLY DOWN TOTAL OF STRING		INNER OUTEI  BEARINGS/ SEALS GAGE	ER DULL CHAR.	LOCATION	Gel BZ( BACKM	180 245	Constic Desco	3 24	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK NO. OF DAYS	iE ONLY)		WT. 0	SINGLESD.P KELLY DOWN TOTAL OF STRING	1529	INNER OUTEI  BEARINGS/ SEALS GAGE	ER DULL CHAR.	LOCATION	Gel BZ( BACKM	AMOUNT  168 SN  180  245  1554	Constic Desco	3 24	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK NO. OF DAYS FROM SPUD	iE ONLY)		WT. 0	SINGLESD.P KELLY DOWN TOTAL OF STRING	1529	INNER OUTEI  BEARINGS/ SEALS GAGE	ER DULL CHAR.	LOCATION	Gel BZ( BACKM	180 245	Constic Desco	3 24	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HOURS	iE ONLY)		WT. 0	SINGLESD.P KELLY DOWN TOTAL DF STRING	1529	INNER OUTEI  BEARINGS/ SEALS GAGE	ER DULL CHAR.	LOCATION	Gel BZ( BACKM	AMOUNT  168 SN  180  245  1554	Constic Desco	3 24	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HOURS DAILY MUD COST	IE ONLY)		WT. 0	SINGLESD.P KELLY DOWN TOTAL DF STRING	1529	INNER OUTEI  BEARINGS/ SEALS GAGE	ER DULL CHAR.	LOCATION	Gel BZ( BACKM	AMOUNT  168 SN  180  245  1554	Constic Desco	3 24	
HOURS W/ CONTR. D.P. HOURS W/ OPR. D.P. HOURS WITHOUT D.P. HOURS STANDBY  TOTAL DAYWORK NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HOURS	JE ONLY)		WT. O	SINGLES	1529 19 (EX Band	INNER OUTEI  BEARINGS/ SEALS GAGE	ER DULL CHAR.  OTHER DULL CHAR.  CHAR.	LOCATION	Gel BZ( BACKM	AMOUNT  168 SN  180  245  1554	Constic Desco	3 24	





M ad	Iz ML		COUNTY	101			STATE	COUNTR	<b>N</b>	, i		INE REC	ORD R	EEL NO.					
. Store w	SIZE	٨	AKE	A GR	GHT RADE	NO. JOINTS	LEN	отн Е	RKB. TO XS6. HD.	SETAT .	SIZE	Ma	NO. LI	NES 10		LENGTH	SLIPPED	\$ 1 <sub>7</sub> \$ .	
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TUBING OR LINER	i.					•7					WEAR O	R TRIPS AST CUT			<u> </u>	-			
											CUMULA WEAR O	ATIVE OR TRIPS			<del></del>				
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FROM	то	REAM.	CORE	(5		RMATION ORE RECOV	ERY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE		S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	TOTAL PUMP OUTPUT
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DEPTH IN		DRILL REAMF CORE.C	CORE			RMATION ORE RECOVE	EÁY)	ROTARY TABLE SPEED	WT, ON BIT	PUMP PRESSURE		NO.1		PNO. 2	LINER	NO, 3	-	P NO. 4	TOTAL
FROM	TERVAL TO	- REAMF	CORE				EÁY)	ROTARY TABLE SPEED		PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		NO, 3 S.P.M.	PUMF LINER SIZE	P NO. 4	TOTAL PUMP OUTPUT
		- REAMF	CORE				EÁY)	ROTARY TABLE SPEED		PUMP PRESSURE		S.P.M.		T	LINER		-	T	TOTAL PUMP OUTPUT
FROM		- REAMF	CORE				EÁY)			PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER		-	T	TOTAL PUMP OUTPUT
FROM		REAM.F CORE.C	NO.			ORE RECOVE				PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
FROM	8/2C	REAM.F CORE.C	NO.	(S	SHOW C	ORE RECOVE		55	LOS / CS	PRESSURE	LINER SIZE	s.p.m.	LINER SIZE	S.P.M.	LINER		LINER	S.P.M.	PUMP OUTPUT
PROM BOUNTED	70 8/20	REAM.F CORE.C	NO.	(S	SHOW C	ORE RECOVE		55	LOS / CS	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
PROM BOUNTED	8/2C	REAM.F CORE.C	NO.	(S	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION TIME FROM	00 DEP	REAM.F.COREC	NO.	(S	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR. REMARKS	LINER SIZE	S.P.M.	LINER SIZE	s.p.m.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION TIME FROM	70 8/20 DEP	REAM.FCORECO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORECO	NO.	(S	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR. REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORECO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	s.p.m.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION TIME FROM	00 DEP	REAM.FCORE.CO	NO.	DIR.	TVE	ORE RECOVE	Z. D	<i>\$</i> 55	DEV.	DIR.  REMARKS	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION TIME FROM 18000	00 DEP	REAM.FCORECO	NO.	DIR.	DETA	HORIDISF	RATIONS OP 3	IN SEQUE  TO  SEA  May  May  May  May  May  May  May  Ma	DEV.	DIR.  REMARKS	TVD	S.P.M.    HOPE   DIS	LINER SIZE	S.P.M.	DEV.	S.P.M.	LINER	S.P.M.	PUMP OUTPUT

	SE -	-			<u> </u>	WELL NO.	API WEL	L NUM	BER		• • • • • • • • • • • • • • • • • • • •	WATER	DEPTH	DATE	=
OPE	Madle	Mtz	·		***	21-16	CONTRA		-					2/25/ RIG	02
L	ortuna	7					Pa	14	srs ov	a De	rillin.	<b>c</b>		10	
SIGN	ATURE OF OPER	ATOR'S R	EPRESEN	ITATIVE			SIGNATI	URE OF	CONTRACT	OR'S TOOL	PUSHER	80			
D.P	. SIZE WEIGHT	- G	RADE	TOOL J	T O.D. TYPE THI	READ STRING NO	D. PUMP NO	an	Chy	P MANUFACT	MO	N .	TYPE	STR	OKE IGTH
31	2 16 E			10010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ILAB OTTING	,   TOME 11C	-	- 900	- WANDI ACI	ТОПДЛ	6	<u>ເນື້</u>	Life Company	
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	TIME DISTRIBUT	ION - HOU	RS		DRILLING AS (At end of			BIT	RECORD			MUD	RECORD		
CODI NO.	E - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.		12		TIME	7.00	1200	7	
1. R	IG UP AND EAR DOWN				BIT (al-	1.00	SIZE		6/2		WEIGHT	10.2	10.7	10.2	
2. D	RILL ACTUAL		6/2		B. Sub	2.54	IADC CODE	=			PRESSURE GRADIENT	10,2	10.2	10.2	1
3. R	EAMING			a	13.D/	265.78	MANUFACT	TURER	HTC		FUNNEL	11.0	45	45	1
	ORING				44 Va	243.10	TYPE 4	ナン	3/		PV/YP	45	45	<del>  4</del> 2	1
5. &	ONDITION MUD	38/	25K	<b> -</b> -	Jar or	15.')	SERIAL NO	40	36063		GEL	<del>                                     </del>	<del>  //</del>	<del>                                     </del>	-
6. T	RIPS	1.25			Dar or	18.34	JETS	بار		<u> </u>	STRENGTH		<del>                                     </del>		_
7. L	UBRICATE RIG	Y2		9	434 DG	26h.13	TFA				FLUID LOSS		1.		
	EPAIR RIG				• or		DEPTH OUT	т			pН				
9. C	UT OFF RILLING LINE								520.		SOLIDS				TOUR
10. D	EVIATION SURVEY				BHA	569.8	DEPTH IN		7996		-				1 5
11. W	/IRE LINE LOGS			an	STANDS D.F		TOTAL DRII	LLED					MICALS ADDED	<del></del>	NGH1
12. R	UN CASING & CEMENT			80			TOTAL	CHITTING	STRUCTURE		TYPE	AMOUNT	TYPE	AMOUN1	
13. W	AIT ON CEMENT				SINGLESD.F	7529.75	INNER	OUTER		LOCATION	GEL	60	50	168	_
14. N	IPPLE UP B.O.P.				KELLY DOWN	19					BAR	520	150	140	
15. T	EST B.O.P.				TOTAL	8125	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	Causic	4	1000	40?	
16. D	RILL STEM TEST			WT. O	F STRING 120	1,000					PADAZON	10			
17. P	LUG BACK			DEMA	DV0 E	i:CL:	4 D.		1	·	D STANFARD	# <del>\                                   </del>	. 17	1 00	
18. S	QUEEZE CEMENT			REMA	HKS FOY	KUTT.	7. no	mid	<b>Y</b>		<b>_</b> _	01/51	10	MCS	1
19. F	ISHING			1 5 9											-
														•	
20. D	IR. WORK				CONFI	<b>DENTIA</b>	<u> </u>								┨.
		1.76			CONFI	DENTIA	L					1			
21. 🕻	LOMIT	1,75			CONFI	DENTIA			DRII	LER		l	0 0		
		1,75			DRILLING AS			SIT		LER		AL	SECORD.		
21. <b>\</b> 22.		1.75		Age so	DRILLING AS (At end of	tour)		ВІТ	RECORD	LER		MUD	RECORD		
21. <b>L</b> 22.	Jom,T.	1.75		NO.	DRILLING AS		BIT NO.	BIT		€R }	TIME	MUDI	RECORD 1200		
21. <b>L</b> 22. 23.	A. PERFORATING	1,75		Age so	DRILLING AS (At end of	tour)	BIT NO. SIZE	ВІТ	RECORD	(LER		MUD.	T		
21. <b>L</b> 22. 23.	A. PERFORATING B. TUBING TRIPS	1.75		Age so	DRILLING AS (At end of	tour)			RECORD		TIME WEIGHT	MUD I	1200		
21. <b>\</b> 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING	1.75		Age so	DRILLING AS (At end of ITEM  BIT // 4  Bit sad	LENGTH  LOS4	SIZE		RECORD	GER .	TIME WEIGHT PRESSURE GRADIENT FUNNEL	MUD	1200		
21. <b>L</b> 22.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING	1.75		Age so	DRILLING AS (At end of	LENGTH  LOS4	SIZE IADC CODE		RECORD		TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	MUD I	1200		
21. <b>\</b> 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING	1.75		Age so	DRILLING AS (At end of ITEM  BIT // 4  Bit sad	LENGTH  LOS4	SIZE IADC CODE	E FURER	RECORD	GER .	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	MUD.	1200		
21. <b>L</b> 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F.	1.75		Age so	DRILLING AS (At end of ITEM  BIT // 4  Bit sad	LENGTH  LOS4	SIZE IADC CODE MANUFACT TYPE	E FURER	RECORD	ER .	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH	MUD I	1200		
221. V 222. 223.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H.		12.	Age so	DRILLING AS (At end of ITEM  BIT // 4  Bit sad	LENGTH  1.00  2.54  7.65.78  1.571	SIZE IADC CODE MANUFACT TYPE SERIAL NO	E FURER	RECORD	(ER)	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	MUD I	1200		
221. V 222. 223.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIM	)2 E SOMMARY	IV	Age so	DRILLING AS  (At end of  ITEM  BIT // 8  Sit sab  4740 Cor  UP TAROT	LENGTH  1.00  1.54  715.78  15.71  18.34  266.63	SIZE IADC CODE MANUFACT TYPE SERIAL NO JETS TFA	FURER	RECORD	ER .	TIME  WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID	MUD I	1200		
21. V 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIMI	)2 E SOMMARY		Age so	DRILLING AS (At end of ITEM  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT //	LENGTH  1.00  1.54  715.78  15.71  18.34  266.63	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OUT	FURER	RECORD	€R	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	MUD I	1200		U.S.
22. 22. 23. NOILE TOTAL	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIMI (OFFICE US	)2 E SOMMARY		Age so	DRILLING AS (At end of ITEM  BIT // 8  Bit sad  4740 Cor  UP TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TAROT  TARO	LENGTH  1.00  1.54  715.78  15.71  18.34  266.63	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OUT  DEPTH IN	E FURER S	RECORD	ER .	TIME  WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH	MUD I	1200		Y TOUR
22. 23. 23. TOTA	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIMI (OFFICE US	)2 E SOMMARY		NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DRILLING AS (At end of ITEM  BIT //8  BIT SOLD  UP TARON  JABO  THACO  OT  BHA	LENGTH  1.00  1.54  7.5.78  15.71  18.34  26.63	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OU  DEPTH IN  TOTAL DRII	EFURER  SOL	RECORD	LER L	TIME  WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEI	1200 10 /9.7		
22. 23. NOILETION HOUF	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIMI (OFFICE US	)2 E SOMMARY		Age so	DRILLING AS (At end of ITEM  BIT // 9  SIF SOLD  LAP TARON  ON  STANDS D.F.	LENGTH  1.00  7.54  7.5.78  15.71  18.34  266.63	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRIIL  TOTAL HOL	T LLED	12 6/8 47C 7X30 0.5063	ER .	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS		1200 10 /9.7 53 42	AMOUNT	
22. 23. NOILETION HOUF	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIMI (OFFICE US	)2 E SOMMARY		NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DRILLING AS (At end of ITEM  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT //	LENGTH  1.00  7.54  7.5.78  15.71  18.34  266.63	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OUT  DEPTH IN  TOTAL DRIIL  TOTAL HOL	EFURER  SOL	12 6/8 47C 7X30 0.5063		TIME  WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEI AMOUNT 400	1200 10 /9.7  53 V7  MICALS ADDED TYPE BRICE	AMOUNT	T
22. 23.  FOTA HOUF	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIMI (OFFICE US	)2 E SOMMARY		NO.	DRILLING AS (At end of ITEM  BIT // 9  SIF SOLD  LAP TARON  ON  STANDS D.F.	LENGTH  1.00  7.54  7.5.78  15.71  18.34  266.63	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OU'  DEPTH IN  TOTAL DRII  TOTAL HOL	T LLED	12 6/8 47C 7X30 0.5063	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS	MUD & CHEI	1200 10 /9.7  53 V7  MICALS ADDED TYPE BRICE	AMOUNT	
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22. 23. NOILETION HOUF	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTING F. G. H. LS DAYWORK TIMI (OFFICE US	)2 E SOMMARY		NO.	DRILLING AS (At end of ITEM  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT // 8  BIT //	LENGTH  1.00  7.54  7.5.78  15.71  18.34  266.63	SIZE  IADC CODE  MANUFACT  TYPE  SERIAL NO  JETS  TFA  DEPTH OU'  DEPTH IN  TOTAL DRII  TOTAL HOL	T LLED JRS OUTER	12 6/8 47C 7X30 0.5063	LOCATION	TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS pH SOLIDS TYPE BZC GeC	MUD & CHEI AMOUNT 400	1200 10 /9.7  53 V7  MICALS ADDED TYPE BRICE	AMOUNT	T
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SIGNATURE OF OPERA	NTOR'S REP	RESENTA	TIVE		mana aring a sama a maka maka maka maka maka maka	SIGNATU	IRE OF	CONTRACT	OR'S TOOL	PUSHER		ta ta a		
D.P. SIZE WEIGHT	GRAD	DE TO	OL JT C	D.D. TYPE THRE	EAD STRING NO	PUMP NO	n	PUM	P MANUFACT	UMER	<u>v</u>	TYPE	STF	ROKE NGTH
31/2 155	_	<del>Vistoria</del> is	<del>(14) (44)</del>			1		Td.	<u> </u>			50	LEN	IGTH
						Z						<u> </u>		
									·					
TIME DISTRIBUTION	ON – HOURS			DRILLING ASS (At end of to			BIT	RECORD			MUD R	ECORD		
CODE - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.		12	13	TIME	0700	1200	0500	,
1. TEAR DOWN			, 6	BIT P. I.I.	1 1	SIZE		10/18	1/8	WEIGHT	10.0	9.8	9.8	
2. DRILL ACTUAL				E KUD	001	IADC CODE				PRESSURE GRADIENT	10.0	110	7.0	1
3. REAMING			9	13/ 015	2.5 9	MANUFACT	URER	477	471	FUNNEL	SD	116		-
4. CORING			1	7741160	265.79	TYPE C	TY	30	ST021	VISCOSITY	50	45	45	-
5. & CIRCULATE	6		-	4 Ja ( 500	15.71	SERIAL NO.	ZNO.	COLZ	-γ·ον	PV/YP	<del>                                     </del>	//	<del>                                     </del>	4
6. TRIPS	3			Da (500	18,34	JETS	200	رسد	1104/	GEL STRENGTH FLUID		/		4
7. LUBRICATE RIG	1/2		9	474/6	266.63	TFA				LOSS				_
8. REPAIR RIG				OD		DEPTH OUT				рН				
9. DRILLING LINE						DEPTH IN		7001	~ · · · · · · ·	SOLIDS				g
10. DEVIATION SURVEY				BHA	669.8	TOTAL DR	82	1990	41 18	,				TO THOM
11. WIRE LINE LOGS			3 1 5	STANDS D.P.		TOTALIO	into/	2: 11		TYPE	MUD & CHEM AMOUNT	CALS ADDED	AMOUN	
2. RUN CASING & CEMENT				SINGLES D.P.	7593	7		STRUCTURE		RAR	200	BAHRA		Ì
13. WAIT ON CEMENT				KELLY DOWN		INNER	OUTER	DULL CHAR.		<del>  VI                                   </del>	315			1
4. NIPPLE UP B.O.P.				TOTAL	10	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	1000	313	Cousti		
15. TEST B.O.P.					8110	SEALS	UAGE	CHAR.	FULLED	150	120	100100		4
16. DRILL STEM TEST		<b> _</b>	VT. OF S	STRING	10.		1			GEL	99	rael	3	_
17. PLUG BACK		——	REMARK	s Fork	I + A	.Dayi	4							
18. SQUEEZE CEMENT														_
19. FISHING 				CUNE	IDENTIA									
	.25		1 1 C	001111		<b>`</b>								
21. JOW T	.63		3	e en al anti-se de la companya de la companya de la companya de la companya de la companya de la companya de l La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	70 <b>6</b> 0	and the second		DRI	LLEA	MAN.	1/200	<u> </u>		
23.			************	DRILLING ASS	EMBLY		DIT	<del></del>			1400	FOODD	<del></del>	▮
A. PERFORATING			<del></del>	(At end of to	our)		DII	RECORD	· .		MUUN	ECORD	11.4	
B. TUBING TRIPS		!	<b>VO</b> .	ITEM	LENGTH	BIT NO.	-	13		TIME		200	500	
C. TREATING			/ [	BITBIT	6/8	SIZE		6/8		WEIGHT		9.5	9.6	
D. SWABBING		<u> </u>	. Z	it sub	254	IADC CODE	: 			PRESSURE GRADIENT				
D. SWABBING  E. TESTING			2 4	13/10 DI 00	21000	MANUFACT	URER	440		FUNNEL VISCOSITY		44	53	
8 <sub>F.</sub>			1 ,	1 T. 26 00	CB3.10	TYPE		TR 30		PV/YP	/	7		1
G.				Tares OIL	15.11	SERIAL NO.		TIZXM		GEL STRENGTH	7	7	7	
H.				N-MZ50D	18.34	JETS				FLUID	/		- /	-
TOTALS	24	F	7 3	741000	76663	TFA				LOSS			<del> </del>	-
DAYWORK TIME (OFFICE USE	SUMMARY ONLY)	_		ZHA OD	569.80	DEPTH OUT	Γ			pH				_
HOURS W/ CONTR. D.P.						DEPTH IN		8178		SOLIDS				<b>-  </b>
HOURS W/ OPR. D.P.						TOTAL DRIL		V. 7.8		<b></b>				OT VAC
HOURS WITHOUT D.P.				STANDS D.P.		TOTAL HOL	JRS			TYPE	MUD & CHEM AMOUNT	TYPE	AMOUN	
HOURS STANDBY				SINGLES D.P.		INNER	OUTER	STRUCTURE	. LOCATION	RACERUL	ZSK	RAC	180	Ú.
			,	KELLY DOWN						2.600	47-54	821304	704	
			-	TOTAL		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	ra	7 5X	150		
		v	VT. OF	STRING				Origin.		Par	7-54	Caracal.	280 80 <sup>5</sup>	Ĥ
		<b> </b>  F	REMARK	(s)	lex 3		<i>ا</i> ره پ	100	1	Y C	2-1	, , -1	Ĭ.	
FOTAL DAYWORK				410	wex ()	unos	HEL),	ALK			HOURE		415	
NO. OF DAYS FROM SPUD											FHE!	77		-
CUMULATIVE ROTATING HOURS														-
•														
DAILY MUD COST									<del>,</del>	_ /	1			_



M, do		MI	CC	OUNTY EM	241	res		STATE/CO	UNTRY	<u> </u>	WIRE L	INE REC	ORD	REEL NO.				-	
· · · · · · · · · · · · · · · · · · ·	S	IZE	MA)	Œ	WEI	. 9	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	1/5	NO. I	LINES / C	>	LENGTH	SLIPPED	The second	
LAST CASING	7	"			26	Nga	180	tto	16	7690	LENGTH	CUT OFF	<b>k</b>			IT LENGT			-
CASING TUBING OR LINER							:	, , , ,			WEAR O	R TRIPS			1				
											CUMULA	TIVE							
OFOTHIN	ITED (A)				T			<del>- 1</del>			WEAR O		7				<del></del>	-	
DEPTH IN		$\dashv$	DRILLD REAMR COREC	CORE NO.			RMATION ORE RECOVER	RO TA	FARY WT. ON BLE BIT	PUMP PRESSURE		P NO. 1	+	IMP NO. 2	+	NO. 3		P.NO. 4	TOTAL PUMP
FROM	то		OONEC		ļ			an Sh	EED		LINER	S.P.M.	LINE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	OUTPU
8 162	817	4			-				_	<u> </u>			ļ			ļ	ļ		
					-												ļ <u>.                                    </u>		
<u> </u>	<del>-  </del> -		T				HORIZ			1	<u> </u>	НО	BIZ I			<u></u>	<u> </u>	<u> </u>	HORIZ.
DEVIATIO	N	DEPTH	DEV.		DIR.	TVD	DISP.	DEPTI	H DEV.	DIR.	TVD	DIS	SP.	DEPTH	DEV.	DIR.	_ <del> </del>	VD	DISP.
RECORD	)  -	<del></del> -	+					-		<del> </del>	ļ <u>.</u>	-				ļ			
TIME	LOG		ELAPSE	P CO	DE NO	DETAI	U.S. O.S. O.D.S.D.	ATIONO IN O	FOURNOR AND		1								
FROM	ТО		TIME	- 100	DE NO.	DETAI	ILS OF OPER/	ATIONS IN S	EQUENCE AN	DREMARKS								- 111	
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5.00	8.3	<u> </u>	717	_			7 0		tell _	517	4	<del></del> ,		-					
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DEPTH IN			DRILLD REAMR	CORE NO.	(S		RMATION DRE RECOVER	RO1	ARY WT. ON	PUMP PRESSURE		NO. 1		MP NO. 2	<u> </u>	NO. 3	PUMP	<u> </u>	PUMP
DEPTH IN	TERVAL TO		DRILLD REAMR COREC	CORE NO.	(5		RMATION DRE RECOVER	(Y) SP	ARY WT. ON BIT	PRESSURE	LINER SIZE	NO. 1 S.P.M.	LINE! SIZE	R S.P.M.	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	NO. 4 S.P.M.	TOTAL PUMP OUTPUT
7			DRILLD REAMR COREC	CORE NO.	(5			ROT TAN SPI	ARY WT. ON BIE	PRESSURE				R S.P.M.	LINER	<u> </u>	LINER	<u> </u>	PUMP
**			DRILLD REAMR COREC	CORE NO.	(8			(Y) SP	ARY WT. ON BIT	PRESSURE	LINER SIZE		LINE! SIZE	R S.P.M.	LINER	<u> </u>	LINER	<u> </u>	PUMP
7	то		COREC	NO.		вном со	HORIZ.	(Y) SP	22 22	PRESSURE	LINER SIZE	S.P.M.	Linei Size	R S.P.M.	LINER	<u> </u>	LINER	S.P.M.	PUMP
FROM  3/78  DEVIATION	TO I		DRILLD REAMR COREC	NO.	(S		ORE RECOVER	(Y) SP	(D) 22/15	PRESSURE	LINER SIZE		LINEI SIZE	R S.P.M.	LINER	<u> </u>	LINER	S.P.M.	PUMP
FROM 8/78	TO I		COREC	NO.		вном со	HORIZ.	(Y) SP	22 22	150° 1650	LINER SIZE	S.P.M.	LINEI SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
FROM  3/78  DEVIATION	TO E		DEV.	NO.	DIR.	TVD	HORIZ DISP.	DEPTH	DEV.	/500 /650 DIR.	LINER SIZE	S.P.M.	LINEI SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	TO E	DEPTH	DEV.	NO.		TVD	HORIZ. DISP.	DEPTH	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG	DEPTH	DEV.	D COL	DE NO.	TVD	HORIZ. DISP.	DEPTH	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DIR.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTH	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	N LOG TO	DEPTH 22	DEV.	D COL	DE NO.	TVD	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  1500  DIR.  DIR.	S"  TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD	TO  N  LOG  TO  OOA  OI 3	DEPTH	DEV.  BLAPSET TIME  1 1/2	D COD	DE NO.	TVD  DETAIL	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  /502  /650  DIR.	TVD	S.P.M.	LINEIS SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PUMP OUTPUT
DEVIATION RECORD  TIME I FROM  800  0/30	TO  N  LOG  TO  OOA  OI 3	DEPTH	DEV.  BLAPSET TIME  1 1/2	D COD	DE NO.	TVD  DETAIL	HORIZ DISP.	DEPTHATIONS IN SI	DEV.	PRESSURE  /502  /650  DIR.	TVD	S.P.M.	LINEIS SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	<b>S.P.M.</b> //D	PLOU

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NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HOURS DAILY MUD COST TOTAL MUD COST

IADC - API OFFICIAL DAILY DRILLING REPORT FORM





middl	II	7	Em	0/			U	+9	<u>h</u>		WIRE L	INE REC				1,=			
	SIZE	MA	KE	WEK & GR	ADE	NO. JOHNTS	LEN	<b>G</b> ТН	RKB, TO CSG, HD.	SET AT	SIZE	1/8	NO. LI	NES /O		LENGTH	SLIPPED		
LAST CASING						- 7					LENGTH	CUT OFF			PRESEN	T LENGTI	Н		-
TUBING OR LINER											WEAR O	R TRIPS			· · · · · ·				
									*		CUMULA WEAR O	TIVE							
DEPTH IN	ITERVAL	DRILLD						Dozen				NO. 1	PU	AP NO. 2	PUMI	P NO. 3	PUM	P NO. 4	
FROM	то	REAMR COREC	NO.	(8		MATION RE RECOVE	(RY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	LINER	S.P.M.	LINER	<del></del>	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPU
200	8240	0			·			+			SIZE	ļ	SIZE		SIZE		SIZE	-	
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25.41.510	DEPT	+ DEV	. [	IR.	TVD	HORIZ DISP.	Z. [	DEPTH	DEV.	DIR.	TVD	HOF	RIZ. SP.	DEPTH	DEV.	DIR	. Т	VD	HORIZ. DISP.
DEVIATIO RECORD																			
TIME	106	<u> </u>	_		1														
FROM	то	ELAPSE TIME	D CO	DE NO.	DETAIL	S OF OPER	RATIONS	IN SEQU	ENCE AND	REMARKS			<u>.</u>						
0:00	8:00	2	5	3	Bis	121	1	m e	,			-							
x'00	10:00	2		2	200	10 5	· / æ	200	) 4	n 8'	211	1							
06:00	11 '00	1		8	1	<del>7</del> C		0		00 - 1	<u>~                                    </u>	1	r2. •						
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11 .00	14:30	1.,			15	19	<u> </u>	<del>\ ,</del> \ ,	44	40	82	40		4)		· · · · · · · · · · · · · · · · · · ·	<del></del>		
4,30	15,00	1/1		7	Ric	C F	er,	He	<u>e</u>					· · ·					
15:00	18,00	3		3	SAZ	St.F.	$\Box$	$\tilde{c}$	6	stad	S	Re	<del>cm</del>	10	Bo	1	m	<u> </u>	-
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ДЕРТИ IN	TERVAL										римр	NO			T pump		1		
DEPTH IN		DRILL.D REAM.R COREC	CORE NO.	(\$		AATION E RECOVER	RY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP	PUMP LINER			PNO.2	ļ	NO. 3	PUMF	P NO. 4	TOTAL
DEPTH IN	TERVAL TO	REAMR	CORE NO.	(S			RY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP	PUMP LINER SIZE	NO. 1 S.P.M.	PUM LINER SIZE	P NO. 2	PUMP LINER SIZE	NO. 3	1	P NO. 4	TOTAL PUMP OUTPUT
·		REAMR	CORE NO.	(8			RY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP				T	ļ	<u> </u>	PUMF	Τ .	TOTAL PUMP OUTPUT
·		REAMR	CORE NO.	(S			RY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE				T	ļ	<u> </u>	PUMF	Τ .	TOTAL PUMP OUTPUT
·		REAMR COREC	NO.		HOW COR	HORIZ	. 1			PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMF LINER SIZE	S.P.M.	PUMP OUTPUT
·	TO DEPTH	REAMR COREC	NO.	(S		E RECOVE	. 1	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE DIR.		S.P.M.	LINER SIZE	T	ļ	<u> </u>	PUMF LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT
DEVIATION RECORD	TO DEPTH	REAMR COREC	NO.		HOW COR	HORIZ	. 1			PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMF LINER SIZE	S.P.M.	PUMP OUTPUT
PROM	TO DEPTH	REAMR COREC	NO.		TVD	HORIZ DISP.	. D	EPTH	DEV.	PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMF LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	N DEPTH	DEV.	D COL	IR.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR.  REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMF LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR.  REMARKS	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMF LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	N DEPTH	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	N DEPTH	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.
DEVIATION RECORD	DEPTH N LOG TO 2000	DEV.	D COL	IR. DE NO.	TVD DETAILS	HORIZ DISP.	ATIONS	IN SEQUI	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMF LINER SIZE	S.P.M.	HORIZ.

	0075	,,		<b></b>	DAILY DRI	LLING RE	PURI			К	EPORT N	0.		
LEASE		٠.٨٠	÷		WELL NO.	API WEL	L NUME	BER			WATER	DEPTH	DATE	
OPERATOR	ddle	MI	N		21-16	CONTRA	CTOB						2-2.7.	07
4	EDV.	Luna				D. I	l a	Λa =	_ /	1_ `11 '	١		Ald N	10.
SIGNATUR	E OF OPERAT	OR'S REPRESE	NTATIVE			SIGNAT	URE OF	CONTRACT	OR'S TOOL	PUSHER	ng		1104	
			M	ff-							_			İn
D.P. SIZE	WEIGHT	SRADE	TOOL J	T O.D. TYPE THR	EAD STRING NO	PUMP NO	).	PUM	P MANUFACT	URER		TYPE	STRC LENG	KE TH
31/2	155					1	•	The	- (	>		30	45	
	<del> </del>					2			• • •	<u>-</u>			7	_
		<u> </u>												
						I I				1		<b>.</b>		31
TIME	DISTRIBUTION	- HOURS		DRILLING ASS (At end of to			BIT	RECORD			MUD R	ECORD		
CODE - OPE	ERATION	NIGHT DAY	NO.	ITEM	LENGTH	BIT NO.		13		TIME	0700	1200	0100	
1. RIG UP A	AND OWN			BIT IN IS	1.00	SIZE		10/10		WEIGHT	9.6	9.10+	9.10	
2. DRILL AC	CTUAL	516		e C.R	2 (1	IADC CODE		41.6		PRESSURE GRADIENT	1.0	110	130	1
3. REAMING	G ,	3'	la	DISVE	411	MANUFAC	TURER	4-1		FUNNEL	110	١ ١	47	1
4. CORING			17	437110	#407"	TYPE	CA	030		VISCOSITY PV/YP	48	51	71	-
5. & CIRCU	ON MUD LATE	۸		1) Jars 00	15.71	SERIAL NO	<del></del>	2 7 7		GEL GEL	<del>                                     </del>	<del>                                     </del>	/,	-1
6. TRIPS				Davison	18.36	JETS	- 1			STRENGTH				-
7. LUBRICA	ATE RIG	1/2	19	43416	266.63	TFA				FLUID LOSS				
8. REPAIR		1		OD		DEPTH OU	т 1			рН				
9. CUT OFF DRILLING	G LINE		1			DEPTH IN		3178		SOLIDS				ä
10. DEVIATION	ON SURVEY	•		BHA	569.80	TOTAL DRI		SITA	-s					NIGHT TOUR
11. WIRE LIN	NE LOGS		81	STANDS D.P.		TOTAL TOTAL		0.25		TYPE	MUD & CHEM	ICALS ADDED	AMOUNT	]
12. RUN CASI	NG & CEMENT		2	SINGLESD.P.	71.50		CUTTING	STRUCTURE		BAL			Autout	1
13. WAIT ON	+			KELLY DOWN	1033	INNER	OUTER	DULL CHAR.	LOCATION		100	Coustic	-	1
14. NIPPLE (			-	TOTAL	73111	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	BONIEN	01	<u> </u>	1	
15. TEST B.C			- L		D240	JEALS	GAGE	CHAR.	POLLED	GEL	31		<del>                                     </del>	-
16. DRILL ST			WILO	FSTRING 12	5,000					10-sem	Spallets	.l		-
17. PLUG BA			REMA	RKS TO	U, TT	A	by.	d		Bo.	le'r	12 h	13	
18. SQUEEZ 19. FISHING	-		1	gradin Personalis	teri Webs									
20. DIR. WO				CUNEI	DENTIA	ক ব্যক্তর ক'			,					
21.			-	COM II	חרוזוועו	<u>-</u> 별			^		<b>A</b>			
22.			- 1		Salaria de la Calenda de la Calenda de la Calenda de la Calenda de la Calenda de la Calenda de la Calenda de l Calenda de la Calenda de la Calenda de la Calenda de la Calenda de la Calenda de la Calenda de la Calenda de l			DRI	LLER	want	Hans	4		
23.				DRILLING ASS	EMBLY		OIT (	RECORD			MILE	ECORD		
A. PEF	REFORATING		1	(At end of to	our)		- Dii 1				MOD N	LCOND	T	1
B. TUE	BING TRIPS		NO.	ITEM	LENGTH	BIT NO.		13		TIME				
Z C. TRE	EATING			BIT 6/8	1.00	SIZE		6/8	<del></del>	WEIGHT	,			
D. SW.	ABBING		1	Bit Sub	2.54	IADC CODE	Ē			PRESSURE GRADIENT				
E. TES	STING		a	43/4 1)60	765.18	MANUFAC	TURER	HC		FUNNEL VISCOSITY				
8 F.			17	(A TARKOD	1271	TYPE	5	730		PV/YP			7	
G.			17	N. T. m	101-11	SERIAL NO	-	2 XM		GEL STRENGTH	7	1 /	7	
Н.				1121 00	18.36	JETS		SSEN		FLUID				1
TOTALS		12	7	474 000	266.63	TFA		7		pH		•		-
D#	AYWORK TIME SI (OFFICE USE O	JMMARY NLY)		OD		DEPTH OU	т			SOLIDS				1
HOURS W/ C	ONTR. D.P.					DEPTH IN		81%		SOLIDS			-	E E
HOURS W/ O	PR. D.P.					TOTAL DRI	LLED				MUD & CHEM	IICALS ADDED	1	Ă
HOURS WITH	HOUT D.P.		81	STANDS D.P.		TOTAL HO	JRS			TYPE	AMOUNT	TYPE	AMOUNT	1
HOURS STAI	NDBY		12	SINGLESD.P.	1155	INNER	CUTTING OUTER	STRUCTURE DULL CHAR	LOCATION	BAI	60 51	1 1	e transport	
				KELLY DOWN	15					GPC	655x	<u>'</u>		
				TOTAL		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	BUZZ	140	ş		
			1475.0			1	_	T		T	1 1 1	1		7
			W1.0	FSTRING	<u> </u>	<u> </u>			L	124	15 52			

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NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HOURS

DAILY MUD COST TOTAL MUD COST

IADC - API OFFICIAL DAILY DRILLING REPORT FORM APPROVED PRINTED IN U.S.A.



APPROVED

M A	10m		CW	LATE	CJ	NO	0-	19	DVR TO	-	WIRE L	1.2	NO. LI	NES		LENGT	SHOOLD		
ng Territory	SIZE	Alle Market	AKE	WEI & GF	ADE	NO. STAHOL	LENG	TH -	RKB, TO CSG, HD.	SET AT		CUT OFF	INU. LI	NES 10	Locate	Ex 11	SLIPPED		
LAST CASING TUBING OR LINER											LENGIH	CUTOFF			PRESE	NT LENGTI	Н		
OR LINER											WEAR O SINCE L	R TRIPS AST CUT							
											CUMULA WEAR O	TIVE R TRIPS		•					
DEPTH II	NTERVAL	DRILL.I	CORE		+ FOR	MATION	X 3.	ROTARY	y		PUMI	NO. 1	PUN	IP NO. 2	PUMI	P NO. 3	PUM	P NO. 4	TOTAL
FROM	то	CORE.	NO.	(5		RE RECOVE	4.47	TABLE SPEED	WI. UN	PUMP PRESSURE	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	TOTAL PUMP OUTPU
1200	8241	) 0									<u> </u>							<del> </del>	
	-															<u> </u>		<del>                                     </del>	
					· · · · · · · · · · · · · · · · · · ·														
DEVIATIO	DEF	TH DE	V.	OIR.	TVD	HORIZ DISP	Z. DE	ЕРТH	DEV.	DIR.	TVD	HO!	RIZ. SP.	DEPTH	DEV.	DIR		TVD	HORIZ. DISP.
RECOR											ļ								
TIME	LOG	T =: . =:																	
FROM	то	ELAPS TIM	ED CC	DE NO.	DETAIL	S OF OPER	ATIONS I	IN SEQU	JENCE AND	REMARKS					-				
00:00	8:00		5	3	Bis	12	Du	Me	•										
8 00	10:00	,		2	200	In E	1	200	. ,	~	216	1							
10:00	11 '00			8	1	2 7		D		00 - 1	<u> </u>	1	(2.1	<u>. 1</u>					
1 1 A A	10'3	- 1	1-	7		. 1	<del></del>	1000	umy	25 - 1		<u> IN</u>	(90°	h	YU	my	<u>s</u>		
11 . 00	1 39 1 300	7	72	-	101	19	-	<u> </u>	214	<del>~ +0</del>		40		4)					
14:30	15:00	7		7	+ (2)	K p	erv	40	<u>e</u>	1	1			· .		, ,		,	
15:00	18,00	) 3	-	3	SA	RV+	To	$\frac{1}{2}$	6	Stra	S	R	am	10	Bo	1+0	m		
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	1																		
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				-										:			- Energy		
DEPTH IN		DRILLC	CORE	(S		WATION RE RECOVER	ayı	ROTARY TABLE	WT. ON	PUMP	PUMP	<u> </u>		P NO. 2	<u> </u>	> NO. 3	PUMI	P NO. 4	TOTAL
DEPTH IN	TO TO	DRILL	CORE	(8		MATION RE RECOVER	<del>7</del> 7)	ROTARY TABLE SPEED	WT. ON	PUMP	PUMP LINER SIZE	NO. 1	PUM LINER SIZE	P NO. 2 S.P.M.	PUMF LINER SIZE	PNO. 3 S.P.M.		PNO. 4	TOTAL PUMP OUTPUT
		DRILLC	CORE	(\$			ay)	ROTARY TABLE SPEED	WT. ON BIT		LINER	<u> </u>	LINER	T	<u> </u>	F	PUMI	T	PUMP
		DRILLC	CORE	(S			av)	ROTARY TABLE SPEED	WT. ON BIT		LINER	<u> </u>	LINER	T	<u> </u>	F	PUMI	T	PUMP
	то	DRILL.C REAM.R CORE.C	NO.		SHOW COF	RE RECOVE	.	SPEED		PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	F	PUMI	S.P.M.	PUMP
FROM	TO DEP	DRILL.C REAM.R CORE.C	NO.	(S		RE RECOVE	.	ROTARY TABLE SPEED	WT. ON BIT		LINER	<u> </u>	LINER SIZE	T	<u> </u>	F	PUMI LINER SIZE	S.P.M.	PUMP
FROM	TO DEP	DRILL.C REAM.R CORE.C	NO.		SHOW COF	RE RECOVE	.	SPEED		PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP DEP	DRILLC REAM.F. COREC	NO.	IR.	TVD	HORIZ DISP.	DE	SPEED	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP DEP DEP TO	DRILL.C REAM.R COREC	NO.	DE NO.	TVD	RE RECOVE	DE	SPEED	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP DEP	DRILLC REAM.F. COREC	NO.	IR.	TVD	HORIZ DISP.	DE	SPEED	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP DEP DEP TO	DRILLC REAM.F. COREC	/. [	DE NO.	TVD	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP DEP DEP TO	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  ADOC  ATO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  LOG  TO  2000	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  ADOC  ATO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  ADOC  ATO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  ADOC  ATO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  ADOC  ATO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  ADOC  ATO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  ADOC  ATO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DEP  DEP  TO  ADOC  ATO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP  TO  DEP	DRILLC REAM.F. COREC	/. [	DE NO.	TVD  DETAILS	HORIZ DISP.	DE	SPEED	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	DEV.	S.P.M.	PUMI LINER SIZE	S.P.M.	PUMP OUTPUT
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DAILY MUD COST TOTAL MUD COST

> IADC - API OFFICIAL DAILY DRILLING REPORT FORM **APPROVED** PRINTED IN U.S.A.



**APPROVED** 

DRILLER

Middle		n Li		Pry WEIGHT)	NO.	STATE/COUNT	a/L	ISA	WIRE L	INE REC		REEL NO.		LENOT	SLIPPED		
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DEVIATION RECORD	DEPTH	DEV.	DIR	(SHOW C	ORE RECOVER			PRESSURE	LINER	S.P.M.	LINEI SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION RECORD	DEPTH	DEV.	DIR	R. TVE	HORIZ. DISP.	DEPTH	DEV.	DIR.  REMARKS	LINER	S.P.M.	LINEI SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	DEPTH	DEV.	DIR	R. TVE	HORIZ. DISP.	DEPTH	DEV.	DIR.  REMARKS	TVD	S.P.M.	LINEI SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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COE	E - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.		13		TIME		1500	Ī	1
1.	RIG UP AND EAR DOWN			1	BIT 41/8	1.00	SIZE	• 1	61/8		WEIGHT			+	
2. 1	ORILL ACTUAL			-			IADC COL	DE	777	T	PRESSURE	1	9.8	<del> </del>	-
3. 1	REAMING			1	15.546	2.54	MANUFAC	CTURER	HTC		GRADIENT	1	, /		-
4. (	CORING		-,	9	43/406	745.75	TYPE		1		VISCOSITY	<u>x</u>	4/7	<del>                                     </del>	4
5. g	CONDITION MUD CIRCULATE	6/2		1	Up Jaron	15.71	SERIAL N	10	STR30	·	PV/YP	/\* 	17/	<u>/</u>	_
6.	RIPS	4		1	Dawn Jose	18,36	JETS		12XM		GEL STRENGTH		7/1/1	<u>/</u>	
7. 1	UBRICATE RIG			9	43/4060	766.63	1		OPEN	· · · · · ·	FLUID LOSS		10,7		
	REPAIR RIG					569,80				<del></del>	рH		10		
9. [	OUT OFF PRILLING LINE				WII TT				8240	- 4	SOLIDS	•	5.8		
10. [	EVIATION SURVEY				1	1	DEPTH IN		8178						TOT TOUR
11. V	VIRE LINE LOGS		8/2		STANDS D.P.	<del></del>	TOTAL DI	RILLED				MUD & CHEM	IICALS ADDEI	)	
12. 8	IUN CASING & CEMENT			<u> </u>	<u> </u>		TOTAL H		914		TYPE	AMOUNT	TYPE	AMOUNT	
13. \	VAIT ON CEMENT				SINGLESD.P.		INNER	OUTER	G STRUCTURE DULL CHAR.	LOCATION	Bar	96	BARAC	ARB75	1
14. 1	IIPPLE UP B.O.P.		7	<b></b>	KELLY DOWN						BARAZ	. Z			
15. 1	EST B.O.P.				TOTAL		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED	Caustic	)			
16. [	PRILL STEM TEST			WT. Ö	F STRING						N Seal				
17. F	LUG BACK			REMA	DKC	I.VI			E. I	v V	2				1
18. \$	QUEEZE CEMENT			115		ForKl	IT.	<u> </u>	pant		COM	N)	*		-
19. f	ISHING				OONE	IDENTI					-				1
20. [	NR. WORK				LUNT	<del>IUENI/</del>	<b>L</b>	4							- 1
<sup>21.</sup> L	1,0.0.	1/2	31/2		And Francisco Commen								<del>, /</del>		4
22.				,	. ئىرىنىيىسىدى ئى بىلى بىلىدى بىرى يىنىلۇپ	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	in an and a second second		DRII	LLEA	um	n.t	4-		
23.					DRILLING ASS			BIT	RECORD			MUD F	ECORD		
	A. PERFORATING			NO.	ITEM	LENGTH	BIT NO.		. <u>.</u> .	· · · · · · · · · · · · · · · · · · ·	70.45	<u> </u>	1.	T	-
	B. TUBING TRIPS			NO.		LENGIN	SIZE		13		TIME		12:00	5136	2
~	C. TREATING				BIT 6 18	7.00	-		618	<del></del>	WEIGHT		9.7	9.6	4
COMPLETION	D. SWABBING				Bitsab	2.54	IADC COL				PRESSURE GRADIENT				1
OMP	E. TESTING			9	43/4 DC30	285.78	MANUFAC	UTURER	HTC	· .	FUNNEL VISCOSITY		50	44	
ľ	F.				40. To -00	1571	TYPE		830		PV/YP	1	7		
	G.			,	1 7 00	18.36	SERIAL N	IO. T	12×m	•	GEL STRENGTH	7	17	7	
	н.			9	43/100.50		JETS		open		FLUID LOSS			'	1
тоти		12	12	<b> </b>			TFA				pH				-[
	DAYWORK TIME (OFFICE US	SUMMARY E ONLY)	, • -	<u> </u>	00		DEPTH O	UT.	8240		SOLIDS			+	-  -
HOU	RS W/ CONTR. D.P.			<b></b>	BHA	56880	DEPTH IN	l	8/78		301109		1		
HOU	RS W/ OPR. D.P.			<b> </b>			TOTAL DE	RILLED				MUD & CHE	IICALS ADDE	<u></u>	_
HOU	RS WITHOUT D.P.			81	STANDS D.P.	2593,21	TOTAL HO	OURS	914		TYPE	AMOUNT	TYPE	AMOUNT	—N
HOU	RS STANDBY	<u> </u>		Z	SINGLESD.P.	61.80	INNER	CUTTIN	STRUCTURE	LOCATION	Baracan	232		TO Valid TO TO	
					KELLY DOWN	15-		1			Baiazan	(05×			
					TOTAL	9740	BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED		<u></u>			
	707			WT. O	F STRING 134	000	<b></b>		UHAH.		<b>T</b>		<del>                                     </del>	+	
				REMA	RKS -	י אנו	<u>.</u>	ـــــــــــــــــــــــــــــــــــــ	11	ה			.l		1
	L DAYWORK			1 -	<u> </u>	or Klift	KIC	KM.	ues	<u></u>	orter	12h	5		-
NO. 0	OF DAYS MISPUD			HAC	C 2500		-Vie	2501	35'	<u>' 2</u>	584ga				-
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CUM ROT	ATING HOURS			HAKT	un 1300	,				<del></del>		-			┩`
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											CUMULA WEAR OF	TIVE R TRIPS							
OFOTH INT	EDVAL	<u> </u>										NO. 1	PUMF	NO. 2	PUMP	NO. 3	PUMF	NO. 4	TOTAL
DEPTH INT		DRILLD REAMR COREC	CORE NO.	(SI	FORMA HOW CORE		Y) RO	TARY BLE EED	WT. ON BIT	PUMP PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	PUMP
FROM	то			-						· · · · · · · · · · · · · · · · · · ·	SIZE		SILL		0122		J	<b>!</b>	<u> </u>
-							<del></del>												
	DEPTH	DEV.		DIR.	TVD	HORIZ. DISP.	DEPT	н	DEV.	DIR.	TVD	HOF DIS	RIZ. P. (	DEPTH	DEV.	DIR.	Т	VD	HORIZ. DISP.
DEVIATION RECORD	4						2000		****										
TIME L	LOG TO	ELAPSE TIME	D CC	DDE NO.	DETAILS	OF OPERA	ATIONS IN	SEQUE	NCE AND	REMARKS									
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12 20	1715	<del></del>	-	1/_	KW	<u>,                                    </u>	IRR	<b>Þ₽</b>	<u>e /</u>	093		· · · · · ·							
1715	1800	3/	4	11	4/0	100	79/NG	<del>)</del>	700	15		· · ·	<del></del>						
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DEPTH IN	TERVAL		T .		<u> </u>			OTABY			PUM	P NO. 1	PUN	IP NO. 2	PUM	P NO. 3	PUN	IP NO. 4	TOTAL
FROM	то	DRILLD REAMR COREC	NO.		FORM SHOW COR	IATION E RECOVEI	RY)	OTARY ABLE SPEED	WT. ON BIT	PUMP	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M	PUMP
		R			<u></u>							1				-		<del> </del>	
8225	8240	IC	<del> </del> -								1:		1						
			<del> </del>		<del></del>								1	1					
	DEPT	H DEV	v.	DIR.	TVD	HORIZ DISP	Z. DEF	тн	DEV.	DIR.	TVE	HC D	PRIZ. ISP.	DEPTH	DEV.	DIF	٦.	TVD	HORIZ. DISP.
DEVIATIO RECORD																			
TIME FROM	LOG TO	ELAPS TIME	ED C	ODE NO	. DETAILS	OF OPER	RATIONS IN	SEQU	ENCE AN	D REMARKS									
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	100	7/2		,	TI Ci	HTO	+ Cc	22:	5 <i>J</i> .	Lelly	up	, W	ash	+R	eo	+0	82	4D_	
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APPROVED PRINTED IN U.S.A.



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i Lest a particular	SIZE	Me Me	KE		IGHT A		NO. HNTS	LENGT	rH. d	RKB. TO CSG. HD.	SET AT	SIZE	1/8	NO. LI	NES	ر نواخون و د مواهدوس		SLIPPED	agraday rus.	property &
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DEPTH INT	TERVAL	DRILLD REAMR	CORE		FC	RMA	TION	<u> </u>	ROTARY	WT. ON	PUMP	PUMF	NO. 1	PUM	P NO. 2	PUM	P NO. 3	PUMI	P NO. 4	TOTAL
FROM	TO	COREC	NO.	(	SHOW C	ORE	RECOVER	łY)	SPEED	BIT	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	PUMP
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	DEPT	H DEV		DIR.	TVI	D	HORIZ. DISP.		РТН	DEV.	DIR.	TVD	HOF		DEPTH	DEV.	DIR	<u> </u>	VD	HORIZ. DISP.
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600	1130	<del></del>	2	5	C1	AC	ula	te	£ (	Cond	1+100	١, 6	reas	e D	t mk	BI	مدلا	ا فر	, rom	4\
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DEPTH INT	ERVAL TO	DRILL_D REAMR COREC	CORE NO.	(5		RMAT	TION	Y) F	ROTARY TABLE SPEED	WT. ON BIT	PUMP	LINER	NO. 1		P NO. 2.	LINER	NO. 3	LINER	NO. 4	TOTAL PUMP OUTPUT
	- X	REAM.R		(\$				Y) [	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE			PUM LINER SIZE	T	-		- 3	Г	TOTAL PUMP OUTPUT
	- X	REAM.R		(5			EBOVER	*)	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	LINER			T	LINER		LINER	Г	TOTAL PUMP OUTPUT
	- X	REAM.R		(8			EBOVER	V) F	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	LINER		LINER SIZE	T	LINER		LINER	Г	TOTAL PUMP OUTPUT
	ТО	REAMR COREC	NO.		SHOW C	ORE R	HORIZ.	*	SPEED		PRESSURE	LINER	S.P.M.	LINER SIZE	T	LINER		LINER	S.P.M.	PUMP
PROM	TO DEPT	REAMR COREC	NO.	( <b>S</b>		ORE R	REBOVER	*	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	LINER		LINEA SIZE	T	LINER		LINER	S.P.M.	TOTAL PUMP OUTPUT
FROM	TO DEPT	REAMR COREC	NO.		SHOW C	ORE R	HORIZ.	*	SPEED		PRESSURE	LINER	S.P.M.	LINEA SIZE	\$.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	TO DEPT	H DEV.	NO.		TVE	ORE R	HORIZ. DISP.	DEI	PTH	DEV.	DIR	LINER	S.P.M.	LINEA SIZE	\$.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION	TO DEPT	REAMR COREC	NO.		TVE	ORE R	HORIZ. DISP.	DEI	PTH	DEV.	PRESSURE	LINER	S.P.M.	LINEA SIZE	\$.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
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DEVIATION RECORD  TIME LO FROM	DEPT OG TO  2001	H DEV.	D COI	DE NO.	TVE	ORE R	HORIZ. DISP.	DEI	PTH SEQUE	DEV.	DIR.	LINER	HOR DIS	LINES SIZE	<b>Б.Р.М.</b>	DEV.	S.P.M.	LINER SIZE	<b>S.P.M.</b>	HORIZ.
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DEVIATION RECORD  TIME LO FROM	DEPT OG TO  2001	H DEV.	D COI	DE NO.	TVE	ORE R	HORIZ. DISP.	DEI	PTH SEQUE	DEV.	DIR.	LINER	HOR DIS	LINES SIZE	<b>Б.Р.М.</b>	DEV.	S.P.M.	LINER SIZE	<b>S.P.M.</b>	HORIZ.
DEVIATION RECORD  TIME LO FROM	DEPT OG TO  2001	H DEV.	D COI	DE NO.	TVE	ORE R	HORIZ. DISP.	DEI	PTH SEQUE	DEV.	DIR.	LINER	HOR DIS	LINES SIZE	<b>Б.Р.М.</b>	DEV.	S.P.M.	LINER SIZE	<b>S.P.M.</b>	HORIZ.
DEVIATION RECORD  TIME LO FROM	DEPT OG TO  2001	H DEV.	D COI	DE NO.	TVE	ORE R	HORIZ. DISP.  FOPERA  C.G.  J. T.	DEI	PTH SEQUE	DEV.	DIR.  REMARKS  A. C. C.	TVD	HOR DIS	LINES SIZE	<b>Б.Р.М.</b>	DEV.	S.P.M.	LINER SIZE	<b>S.P.M.</b>	HORIZ.
DEVIATION RECORD  TIME LO FROM	DEPT OG TO  2001	H DEV.	D COI	DE NO.	TVE	ORE R	HORIZ. DISP.	DEI	PTH SEQUE	DEV.	DIR.	TVD	HOR DIS	LINES SIZE	<b>Б.Р.М.</b>	DEV.	S.P.M.	LINER SIZE	<b>S.P.M.</b>	HORIZ.
DEVIATION RECORD  TIME LO FROM	DEPT OG TO  2001	H DEV.	D COI	DE NO.	TVE	ORE R	HORIZ. DISP.  FOPERA  C.G.  J. T.	DEI	PTH SEQUE	DEV.	DIR.  REMARKS  COLUMN  C. C.	TVD	HOP DIS	LINEE SIZE	<b>Б.Р.М.</b>	DEV.	S.P.M.	LINER SIZE	<b>S.P.M.</b>	HORIZ.

	ASE	_				WELL NO.	API W	ELL NUM	BER	in the		WATER	DEPTH	DATE
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OP	Fortune				<u></u> -		CONT	RACTOR				<u></u>		/2 ~ 3/~   RIG NO
SIG	POV TUNG	ATORICE	EDOFCE.	JT A TIVE	<b>=</b>		81014	ant+e	CONTRACT	u	TI			104
<b>V.</b>	14		er neger	D.W.IA	و پوسون در وجو شاستگرید در پردو		SIGNA	ATORE OF	CONTRACT	OR'S TOO	L PUSHER	1	Park and the	مراسا المسروع مناو
D.	P. SIZE WEIGHT	Γ G	RADE	TOOL J	IT O.D. TYPE THR	EAD STRING N	IO. PUMP	NO.	PUM	P MANUFAC	TURER	<u> </u>	TYPE	STROK
				<del>()                                    </del>				7			<u> </u>			LENGT
									-					
				W										
	TIME DISTRIBUTI	ON – HOL	JRS		DRILLING ASS (At end of to			ВІТІ	RECORD			MUD R	ECORD	
COL	DE - OPERATION	NIGHT	DAY	NO.	ITEM	LENGTH	BIT NO.	- · · I			TIME			· _ · · · · · · · · · · · · · · · · · ·
1.	RIG UP AND TEAR DOWN	7	2/2		BIT		SIZE			·	WEIGHT		<del> </del>	
2.	DRILL ACTUAL						IADC CO	DE			PRESSURE GRADIENT	<u> </u>		-
3.	REAMING						MANUFA	CTURER		<u> </u>	FUNNEL		-	
	CORING				OD		TYPE				VISCOSITY	<b></b>	ļ,	<del> </del>
5.	CONDITION MUD & CIRCULATE				OD		SERIAL N	10.			PV/YP GEL	4	//	
6.	TRIPS			<b></b>	OD		JETS				STRENGTH	/_		
7. 1	LUBRICATE RIG	ļ			OD		TFA				FLUID LOSS			
	REPAIR RIG				OD		DEPTH C	DUT			- рН			
9. [	DRILLING LINE		-				DEPTH IN	v I			SOLIDS			
	DEVIATION SURVEY						TOTAL D	RILLED						
	WIRE LINE LOGS  RUN CASING & CEMENT		1.4		STANDS D.P.		TOTAL H	OURS	-		TYPE	MUD & CHEM AMOUNT	ICALS ADDE	AMOUNT
	WAIT ON CEMENT		10 h	ľ	SINGLESD.P.		INNER	CUTTING	STRUCTURE DULL CHAR.	LOCATION				
	B.O.P.		1		KELLY DOWN		INIVER .	OUIEN	DOLL CHAR.	LOCATION				
15. 7	TEST B.O.P.	ļ			TOTAL		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR	REASON PULLED				
16. [	DRILL STEM TEST			WT. OI	F STRING		1		CHAR.					
17. F	PLUG BACK			55144	and the second of the second of the			<u> </u>		<u> </u>			<u> </u>	
10 0														
10.	SQUEEZE CEMENT			REMAI	i	<del> </del>	ر المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد الم		···					
	SQUEEZE CEMENT FISHING			HEMAI	<u> </u>	FIDEN.	TINI							
19. F				HEWAI	CON	FIDEN	TIAL						- Alexander	
19. F	FISHING DIR. WORK	5		newai	CON	FIDEN	IIAL						1/	
19. F 20. C 21.	FISHING	5		REWAI	CON	FIDEN	IIAL Marie Constanting		DRII		here	<b>→</b> ħ.	A	,
19. F 20. C 21.	FISHING DIR. WORK	5		TEWA!	CON		TIAL STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE	A Part of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	DRI		Zew	→ b	ECORD	
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19. F 20. C 21.	A. PERFORATING B. TUBING TRIPS	5			DRILLING ASS	ur)	TIAL	A Part of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se		LES /	TIME	MUD RE	ECORD	
19. F 20. C 21. 1	A. PERFORATING B. TUBING TRIPS C. TREATING	5			DRILLING ASSI (At end of to	ur)	BIT NO.	BIT R			WEIGHT	MUD RE	ECORD	
19. F 20. C 21. 1	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING	2 (			DRILLING ASSI (At end of to	ur)	BIT NO. SIZE	BIT F			WEIGHT PRESSURE GRADIENT FUNNEL	MUD RE	ECORD	
19. F 20. C 21. 1	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG	) 5			DRILLING ASSI (At end of to	ur)	BIT NO. SIZE IADC COL	BIT F			WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY	MUD RE	ECORD	
19. F 20. C 21. 1	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING	) \$			DRILLING ASSI (At end of to	ur)	BIT NO. SIZE IADC COL	BIT R			WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	MUD RI	ECORD	
19. F 20. C 21. 1	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F.	) 5			DRILLING ASS (At end of to	ur)	BIT NO. SIZE IADC COL MANUFAC	BIT R			WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH	MUD RE	ECORD	
19. F 20. C 21. 1 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G.	) \$			DRILLING ASS (At end of to	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N	BIT R			WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	MUD RE	ECORD	
19. F 20. C 21. 1 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.	SIMMADV	12		DRILLING ASS (At end of to ITEM BIT OD OD	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS	BIT R DE CTURER			WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID	MUD RI	ECORD	
19. F 20. C 21. A 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.	SIMMADV			DRILLING ASSI (At end of to ITEM BIT OD OD OD	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA	BIT R DE CTURER			WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS	MUD RE	ECORD	
19. F 20. C 21. A 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H. LS DAYWORK TIME (OFFICE USE	SIMMADV			DRILLING ASSI (At end of to ITEM BIT OD OD OD	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH O	BIT R DE CTURER O.			WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS			
19. F 20. C 21. A 22. 23. NOLLIJAMOO	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  LS  DAYWORK TIME (OFFICE USE	SIMMADV			DRILLING ASSI (At end of to ITEM BIT OD OD OD	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OL DEPTH IN	BIT R DE CTURER O.			WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD RE		AMOUNT
19. F 20. C 21. A 22. 23. NOILIJIMOO	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  DAYWORK TIME (OFFICE USE IS W/ CONTR. D.P.	SIMMADV			DRILLING ASS (At end of to ITEM  BIT  OD  OD  OD  OD	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH O DEPTH IN TOTAL DE	BIT R DE CTURER O. UT I RILLED DURS	RECORD		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDEC	
19. F 20. C 21. A 22. 23. NOLLIJAMOO	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  DAYWORK TIME (OFFICE USE IS W/ CONTR. D.P.	SIMMADV			DRILLING ASS (At end of to ITEM BIT OD OD OD OD STANDS D.P.	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OF	BIT R DE CTURER O. UT I RILLED DURS			WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDEC	
19. F 20. C 21. A 22. 23. NOLLIJAMOO	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  DAYWORK TIME (OFFICE USE IS W/ CONTR. D.P.	SIMMADV			DRILLING ASS (At end of to ITEM BIT  OD  OD  OD  OD  STANDS D.P.	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH O DEPTH IN TOTAL DE	BIT R DE CTURER O. UT I RILLED DURS	DULLCHAR		WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDEC	
19. F 20. C 21. A 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  DAYWORK TIME (OFFICE USE IS W/ CONTR. D.P.	SIMMADV		NO.	DRILLING ASS (At end of to ITEM  BIT  OD  OD  OD  OD  STANDS D.P.  KELLY DOWN	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OL DEPTH IN TOTAL DEPTH IN TOTAL DEPTH IN TOTAL DEPTH IN	BIT R DE CTURER O. UT RILLED DURS	RECORD	LOCATION	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDEC	
19. F 20. C 21. A 22. 23.	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/ TOPR. D.P. RS WITHOUT D.P.	SIMMADV		NO.	DRILLING ASS (At end of to ITEM  BIT  OD  OD  OD  OD  STANDS D.P.  KELLY DOWN  TOTAL  STRING	LENGTH	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OL DEPTH IN TOTAL DEPTH IN TOTAL HC INNER	BIT R DE CTURER O. UT RILLED DURS	DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI	CALS ADDED	
19. F 20. C 21. A 22. 23. NOLLEI AMOO	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  DAYWORK TIME (OFFICE USE AS W/ CONTR. D.P. AS WITHOUT D.P.	SIMMADV		NO.	DRILLING ASS (At end of to ITEM  BIT  OD  OD  OD  OD  STANDS D.P.  KELLY DOWN  TOTAL  STRING	ur)	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OL DEPTH IN TOTAL DEPTH IN TOTAL HC INNER	BIT R DE CTURER O. UT RILLED DURS	DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI	CALS ADDED	
19. F 20. C 21. A 22. 23. NOLLETAMOOO	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  ALS  DAYWORK TIME (OFFICE USE RS W/ OPR. D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS W	SIMMADV		NO.	DRILLING ASS (At end of to ITEM  BIT  OD  OD  OD  OD  STANDS D.P.  KELLY DOWN  TOTAL  STRING	LENGTH	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OL DEPTH IN TOTAL DEPTH IN TOTAL HC INNER	BIT R DE CTURER O. UT RILLED DURS	DULL CHAR.	LOCATION	WEIGHT  PRESSURE GRADIENT  FUNNEL VISCOSITY  PV/YP  GEL STRENGTH  FLUID LOSS  pH  SOLIDS	MUD & CHEMI	CALS ADDED	
19. F 20. C 21. A 22. 23. NOILIJAWOO FOTA	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H. ALS DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS W	SIMMADV		NO.	DRILLING ASS (At end of to ITEM  BIT  OD  OD  OD  OD  STANDS D.P.  KELLY DOWN  TOTAL  STRING	LENGTH	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OL DEPTH IN TOTAL DEPTH IN TOTAL HC INNER	BIT R DE CTURER O. UT RILLED DURS	DULL CHAR.	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI	CALS ADDED	AMOUNT
19. F 20. C 21. A 22. 23. NOLLITATION HOUF HOUF HOUF HOUF HOUF HOUF HOUF HOUF	A. PERFORATING B. TUBING TRIPS C. TREATING D. SWABBING E. TESTÍNG F. G. H.  LS  DAYWORK TIME (OFFICE USE RS W/ CONTR. D.P. RS W/THOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS WITHOUT D.P. RS W/ CONTR. D.P. RS W/ CONTR. D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P. RS W/THOUT D.P.	SIMMADV		NO.	DRILLING ASS (At end of to ITEM  BIT  OD  OD  OD  OD  STANDS D.P.  KELLY DOWN  TOTAL  STRING	LENGTH	BIT NO. SIZE IADC COL MANUFAC TYPE SERIAL N JETS TFA DEPTH OL DEPTH IN TOTAL DEPTH IN TOTAL HC INNER	BIT R DE CTURER O. UT RILLED DURS	DULL CHAR DULL CHAR DULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL CHAR BULL C	LOCATION	WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP GEL STRENGTH FLUID LOSS PH SOLIDS TYPE	MUD & CHEMI AMOUNT	CALS ADDED	AMOUNT

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OII EINEN	41/2	1+2	(	K.5	HID	189	9 4	233,	3/6	82	40	WEAR OI SINCE LA				.,				
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<del></del>	то	REAMR COREC	NO.		SHOW CO	RMATIO PRE RECO	ORIZ.	SP	BLE BEED B	T PRE	SSURE	LINER SIZE	S.P.M.	LINEI SIZE	MP NO. 2 R S.P.M.	PUMP LINER SIZE	NO. 3	PUMP	) NO. 4	TOTAL PUMP OUTPUT
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DEVIATION RECORD  TIME LC	DEPTH DG TO	DEV.	D COD	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE SQUENCE	/. I	DIR.	TVD	S.P.M.	LINEI SIZE	MP NO. 2 R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
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DEVIATION RECORD	DEPTH  DG  TO  230D	DEV.	D COL	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE SQUENCE	/. I	DIR.	TVD	S.P.M.	LINEI SIZE	MP NO. 2 R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
DEVIATION RECORD	DEPTH  DG  TO  230D  330	DEV.	D COL	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE SQUENCE	/. I	DIR.	TVD	S.P.M.	LINEI SIZE	MP NO. 2 R S.P.M.	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
DEVIATION RECORD	DEPTH  DG  TO  230D  330	DEV.	D COL	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE SQUENCE	/. I	DIR.	TVD	S.P.M.	LINEI SIZE	MP NO. 2 R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
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DEVIATION RECORD	DEPTH  DG  TO  230D  330	DEV.	D COL	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE COUENCE	AND REM	DIR.  ARKS  PCS  STC	TVD	HORE DIS	LINE	MP NO. 2  R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
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DEVIATION RECORD	DEPTH  DG  TO  230D  330	DEV.	D COL	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE COUENCE	AND REM	DIR.  ARKS  PCS  STC	TVD	HORE DIS	LINE	MP NO. 2  R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
DEVIATION RECORD	DEPTH  DG  TO  230D  330	DEV.	D COL	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE COUENCE	AND REM	DIR.  ARKS  PCS  STC	TVD	HORE DIS	LINE	MP NO. 2  R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
DEVIATION RECORD	DEPTH  DG  TO  230D  330	DEV.	D COL	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE COUENCE	AND REM	DIR.  ARKS  PCS  STC	TVD	HORE DIS	LINE	MP NO. 2  R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
DEVIATION RECORD	DEPTH  DG  TO  230D  330	DEV.	D COL	IR. DE NO.	TVD DETAIL	HE RECO	ORIZ. DISP.	DEPTH DNS IN S	DE COUENCE	AND REM	DIR.  ARKS  PCS  STC	TVD	S.P.M. HORE DIS	LINE	MP NO. 2  R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT
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DEVIATION RECORD  TIME LO FROM  /800  330	DEPTH  DG  TO  230D  330	DEV.  DEV.  DEV.  2 //2	D COD	IR. DE NO.	TVD  DETAIL  Right	LS OF OIL	ORIZ. DISP.  PERATIC	DEPTH  DEPTH  CI	DE COUENCE	AND REM	DIR.  ARKS  PCS  ARKS	TVD	S.P.M. HORDIS	LINE	MP NO. 2  R S.P.M.  DEPTH	PUMP LINER SIZE	NO. 3 S.P.M.	PUMP LINER SIZE	P NO. 4 S.P.M.	TOTAL PUMP OUTPUT

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TOTAL DAYWORK

NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HOURS DAILY MUD COST TOTAL MUD COST

APPROVED
PRINTED IN U.S.A.

Fuel 2583

WT. OF STRING

REMARKS



Forklift Kirk Miller

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TOTAL DAYWORK NO. OF DAYS CUMULATIVE ROTATING HOURS DAILY MUD COST

TOTAL MUD COST

IADC - API OFFICIAL DAILY DRILLING REPORT FORM **APPROVED** 

PRINTED IN U.S.A.

REMARKS



DRILLER Brash

RVAL TO  DEPTH  G TO  /8:00	ELAPSEC TIME	CORE NO.	R. TV	AILS OF O	ORIZ. DISP.	POTAR TABLE SPEED  DEPTH  DIS IN SEQU	DEV.		SIZE  LENGTH  WEAR OF SINCE LA  CUMULA' WEAR OF  PUMP  LINER SIZE	R TRIPS ST CUT TIVE R TRIPS	LINER SIZE	P NO. 2 S.P.M.		P NO. 3 S.P.M.	PUMF LINER SIZE	P NO. 4 S.P.M.	HORIZ. DISP.
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NO		NIGHT	DAY	NO.	ITEM		LENGTH	BIT NO.			4		TIME					
	RIG UP AND EAR DOWN	12	12		BIT			SIZE		<del>                                     </del>		<del> </del>	WEIGHT					
	DRILL ACTUAL		+	-				IADC COE	DE		Ц		PRESSURE GRADIENT					
	REAMING	-		-		OD		MANUFAC	CTURER				FUNNEL VISCOSITY					1
_ (	CORING CONDITION MUD	-		-				TYPE					PV/YP	/	7	+	$\overline{}$	1
5. 8	CIRCULATE	-		1		OD		SERIAL N	O		T		GEL	<del> /, -</del>	/	-	<del>//</del>	1
	TRIPS	-	-	-		OD		JETS		44. 444	$\top$		STRENGTH FLUID	/				1
	UBRICATE RIG	ļ	-	<b> </b>		OD		TFA			$\top$		LOSS			-		1
	REPAIR RIG	ļ	-	-		OD		DEPTH O	UT		$\dagger$	•••	рН					1
	OUT OFF DRILLING LINE	<del> </del>	1					DEPTH IN			$\dagger$	<del></del>	SOLIDS					
10. [	DEVIATION SURVEY	-						TOTAL DE			+							
11. \	VIRE LINE LOGS	-	-	-	STANDS	D.P.		TOTAL HO			+		TYPE	MUD & CHEM AMOUNT	TYPE		MOUNT	1
	RUN CASING & CEMENT		-	_	SINGLES	D.P.			CUTTING	STRUCT				7	, <u>-</u>	-   -   -	1100111	1
	VAIT ON CEMENT		<u> </u>	-	KELLY DOWI	,		INNER	OUTER	DULL C	HAR.	LOCATION				-		ł
-	NIPPLE UP B.O.P.	<u> </u>	<del> </del>	-	TOTAL			BEARINGS/ SEALS	2125	ОТНІ	ĘR	REASON PULLED	-			-		1
	EST B.O.P.		<del> </del>	-			<del></del>	SEALS	GAGE	OTHI DUL CHA	Ř.	PULLED						1
	DRILL STEM TEST	-	ļ	W1. C	OF STRING		• 0		<u> </u>			1						1
	PLUG BACK			REMA	rifiks.			is promoved might may	7.3									
	SQUEEZE CEMENT	<del> </del>		-		HE	IDENT	-101	ä									
	ISHING	<del> </del>	<u> </u>		UU	NF	IUENI	IAL										
21.	DIR. WORK		+	-	1 1/2				3				0/	•				
22.				1	Book to act on	e governous est	1. 3.1.12							-	1.			۱
23.			-		DRILLING	ASSE	ARI Y					LER	HID.		مرح			╊
	A PERFORATING		-			d of tour			BIT	RECORD				MUD RI	ECORD			
	B. TUBING TRIPS	ļ —		NO.	ITEM		LENGTH	BIT NO.					TIME					
	C. TREATING	-	<u> </u>		BIT			SIZE					WEIGHT					
NO F	D. SWABBING	<del> </del>	_	1				IADC COD	Œ				PRESSURE GRADIENT					1
COMPLETION	E. TESTING	-	-	1			· · · · · · · · · · · · · · · · · · ·	MANUFAC	TURER		$\top$		FUNNEL			+		1
8	F.			1	+	OD		TYPE	-		1		PV/YP	<del>                                     </del>	/	+		1
	G.	1		1	+	OD		SERIAL N	0.		+		<u> </u>	//	//			1
	н.		†	-		OD		JETS			$\dashv$		GEL STRENGTH FLUID		/_	+		
TOTA	L	12	1/2	1 -		ΟO		TFA			+		LOSS			$\downarrow$		
	DAYWORK TIME (OFFICE US	SUMMAR				OD	v	DEPTH OI	JT		+		pH					
HOU	RS W/ CONTR. D.P.	E ONLT)	Τ.					DEPTH IN			+		SOLIDS					
HOU	RS W/ OPR. D.P.	<u> </u>	<u> </u>	1				TOTAL DE			-							I
HOU	RS WITHOUT D.P.		<del> </del>	1	STANDS	D.P.					+			MUD & CHEM			AOUNT.	
<del>, , , , , , , , , , , , , , , , , , , </del>	RS STANDBY	+	<del> </del>	1	SINGLES	D.P.	· · · · · · · · · · · · · · · · · · ·	TOTAL HO	CUTTING	STRUCTU			TYPE	AMOUNT	TYPE	A	MOUNT	T
	<del></del>		+	1	KELLY DOW		- · · · · · · · · · · · · · · · · · · ·	INNER	OUTER			LOCATION	<del></del>		<del> </del>	+		
	<del>, , , , , .</del>		1	1		-	. ,	BEARINGS/ SEALS	0105	OTHE	ĘR	REASON PULLED			<u> </u>			
			<del>                                     </del>	1	TOTAL			SEALS	GAGE	OTHE DUL CHA	Ä.	PULLED	ļ		ļ			1
*		1	+	⊪——	F STRING			<u></u>		1		1 4 4	<del>                                     </del>	<u> </u>	<u> </u>			
TOTA	AL DAYWORK	<del> </del>	+	REMA	ARKS						FE	xKli-	4 Kir	Kmil	ler			
NO. C	OF DAYS MISPUD	1	<u> </u>											•		1	_	
CUM	ULATIVE ATING HOURS																	
	Y MUD COST			1														1

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM





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LAST CASING													LENGTH	CUT OFF	<u> </u>		PRESE	NT LENGTI	4		-
CASING TUBING OR LINER				-					1 151				WEAR O	R TRIPS							
	$\parallel$		<del> </del>				-	-		-			SINCE LA	TIVE							
												<b>,</b>	WEAR O	R TRIPS	Ţ	•					
DEPTH IN	VTER\	AL .	DRILLD REAMR	CORE		FC	ORMAT	non .	RO	TARY	WT. ON	PUMP		NO. 1	PUM	P NO. 2	PUMI	P NO. 3	PUMI	NO. 4	TOTAL
FROM		то	COREC	NO.	(	(SHOW C	CORE R	ECOVER	n si	BLE	ВІТ	PRESSURE	LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER SIZE	S.P.M.	OUTPUT
													-			-					
																-					
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		DEPTH	DEV.		OIR.	TVI	D	HORIZ. DISP.	DEPT	Н	DEV.	DIR.	TVD	HOF	RIZ. iP.	DEPTH	DEV.	DIR	т	VD	HORIZ. DISP.
DEVIATIO RECORI																	*******				
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06.00	18	00	_/2_	_	<u> </u>	- 1	Cig.	dou	un) -	ري_	lack	Rig	out	· ·							
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DEPTH IN	ITERV	AL	DRILL.D			E0	DMAT	ION .	BO	ARV	· · · · · · · · · · · · · · · · · · ·		PUMP	NO. 1	PUMI	P NO. 2	PUMF	P NO. 3	PUMF	NO. 4	
DEPTH IN		AL.	DRILL.D REAM.R CORE.C	CORE NO.	(5		RMAT	ION ECOVERY	RO'TA	ARY BLE EED	WT. ON BIT	PUMP PRESSURE	LINER	NO. 1 S.P.M.	LINER	1	LINER	T	<del> </del>	<u> </u>	TOTAL PUMP OUTPUT
			REAMR	CORE NO.	(\$				RO'TA	TARY BLE EED	WT. ON BIT	PUMP PRESSURE				P NO. 2 S.P.M.	-	NO. 3	PUMP LINER SIZE	NO. 4	TOTAL PUMP OUTPUT
			REAMR	CORE NO.	(\$				PO TA	TARY BLE EED	WT. ON BIT	PUMP PRESSURE	LINER		LINER	1	LINER	T	<del> </del>	<u> </u>	PUMP
1			REAMR	CORE	(\$				PRO'TA	ARY BLE EED	WT. ON BIT	PUMP PRESSURE	LINER		LINER	1	LINER	T	<del> </del>	<u> </u>	PUMP
FROM		ro	REAMR COREC	NO.		SHOW C	ORE RI	HORIZ.			ВІТ	PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
FROM	)N		REAMR	NO.	OIR.		ORE RI	ECOVERY	RO'TA SP		WT. ON BIT	PUMP PRESSURE	LINER	S.P.M.	LINER SIZE	1	LINER	T	LINER	S.P.M.	PUMP OUTPUT
FROM	)N	ro	REAMR COREC	NO.		SHOW C	ORE RI	HORIZ.			ВІТ	PRESSURE	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	DN C	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	1	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	LOG	DEPTH	DEV.	NO.		TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR.	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATIO RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD TIME FROM	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG 1 &	то СОО	DEV.	D COD	DIR.	TVE DETA	D NILS OF	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M. HORDIS	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	PUMP OUTPUT
DEVIATION RECORD	LOG 1 &	то СОО	DEV.	D COD	DIR.	TVE DETA	D NILS OF	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M. HORDIS	LINER SIZE	S.P.M.	DEV.	S.P.M.  DIR.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD	LOG 1 &	то СОО	DEV.	D COD	DIR.	TVE DETA	D NILS OF	HORIZ. DISP.  OPERAT	DEPTI	DAIL	DEV.	DIR. REMARKS	TVD	S.P.M. HORDIS	LINER SIZE	S.P.M.	DEV.	S.P.M.  DIR.	LINER	S.P.M.	HORIZ. DISP.
DEVIATION RECORD TIME FROM	LOG	DEPTH	DEV.	NO.	DIR.	TVE	ORE RI	HORIZ. DISP.	DEPTI	EQUE	DEV.	DIR. REMARKS	TVD	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINE	T	

LEA	SE	<del>.</del>						DAILY DI	RILLING RI	EPORT		1	R	EPORT NO		DAT	ΓE
	1	OF OPER	Alse	· /	77/	1+		21-14	,							1-4	-O
OPE	RATOR		<u> </u>	<b>-</b>	- / /		. <del></del>		CONTE	RACTOR				.L		/ - 4/- RIC	G NO
	F	ORTO	Ina						`	Pay	Her	507	PUSHER	ITI		12	4
SIG	NATURE	OF OPER	ATOR'S R	APPESE	TATIVI				SIGNA	TURE OF	CONTRACT	OR'S TOOL	PUSHER	·	era a santa a com	Service Services	
		1	MB		-		T	<u> </u>		Koge	2 Bro	mloi	1			1 61	DOVE
D.F	. SIZE	WEIGHT	G	RADE	TOOL J	T O.D.	TYPE THRE	AD STRING	NO. PUMP N	VO. //	PUM	P MANUFAC	URER		TYPE		ROKE NGTI
	•																
	TIME D	ISTRIBUTI	ON - HOU	JRS		DRI	LLING ASSI (At end of to			BIT	RECORD			MUD RE	CORD		
COD	E - OPEI	BATION	NIGHT	DAY	NO.	T	I		BIT NO.	-				1		1	-1
	RIG UP AN		<del> </del>	12	NO.	-	ITEM	LENGTH					TIME			-	-#
			12	12	<b> </b>	BIT		-	SIZE				WEIGHT				
	PILL AC			-	-				IADC COL	DE			PRESSURE GRADIENT				
	REAMING			-	-		OD		MANUFAC	CTURER			FUNNEL VISCOSITY				
	CONDITIO	NI MUD	ļ						TYPE				PV/YP	7		7	
5. 8	CIRCUL	ATE	ļ	<del> </del>	<b> </b>	-	OD	<del></del>	SERIAL N	Ο.			<u> </u>	<del>                                     </del>		<del>                                     </del>	-
6. 1	RIPS		ļ	1	<b> </b>	-	OD		JETS				GEL STRENGTH FLUID	/			_
7. L	UBRICA1	TE RIG		<u> </u>	<b></b>	ļ. <u></u>	ДO		TFA			-	LOSS				_
	REPAIR R						GO		DEPTH O	LIT			рН				
9. [	UT OFF RILLING	LINE								-			SOLIDS				1
10. [	EVIATIO	N SURVEY							DEPTH IN								
11. V	VIRE LINE	ELOGS				STAN	DS D.P.	-	TOTAL DE	RILLED	-			MUD & CHEMI	CALS ADDED	<u>.                                    </u>	_
12. F	IUN CASIN	G & CEMENT			1		+	-	TOTAL HO				TYPE	AMOUNT	TYPE	AMOU	NT
13. V	VAIT ON	CEMENT			<b>]</b>	SING	LESD.P.		INNER	OUTER	DULL CHAR.	LOCATION				1	_
14. N	IIPPLE UI	P B.O.P.				KELL,	Y DOWN										
15. T	EST B.O.	.P.			1	TOTA	L		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED					1
16. [	PRILL STE	EM TEST			WT. O	F STRIN	NG										1
17. F	LUG BAC		<u> </u>			ni, ettiin itaanii		•			<u> </u>	<u> </u>	L	<u> </u>			v.
18. 5	QUEEZE	CEMENT			REMA	RKS		<u> </u>	est :	•							-
19. F	SHING			<b></b>	<b> </b>			וחרגיי		1 -		•				<u> </u>	-1
20. [	IR. WOR	ĸ			1		JUNE	IUENI	HAI	¥ •				·			
21.						Ä.	· Albania		1116	4							
22.		-45			1	ير ميرسيشي	er til er i de sam	and the second second	renderen beginning betreet	Ž	DBI	LLER _	Show	ستخر.			
23.						DRI	LLING ASSI	EMBLY		DIT					0000		
	A. PERI	FORATING					(At end of to	ur)		D(1	RECORD			MUD RE	COHD		
		NG TRIPS			NO.		ITEM	LENGTH	BIT NO.		·		TIME	-			ı
	C. TREA		ļ .			ВІТ			SIZE				WEIGHT				
COMPLETION	D. SWA					<u> </u>			IADC COE	DE			PRESSURE GRADIENT				1
PLE	E. TEST					<u> </u>			MANUFAC	CTURER		1 1 1	FUNNEL				
S	F.				1	<del>                                     </del>	OD		TYPE				VISCOSITY	<del>                                     </del>		<del>                                     </del>	$-\parallel$
				<u> </u>	<b> </b>	<del> </del>	ОО		SERIAL N	O.			PV/YP	-/,-	/_	<del>                                     </del>	_
	G.				-	<u> </u>	OD		JETS				GEL STRENGTH				
	Н.						OD				-		FLUID LOSS				
TOTA		YWORK TIME	/Z	12	1		OD		TFA				рH				1
		(OFFICE US	E ONLY)	· 1					DEPTH O				SOLIDS				1
HOU	RS W/ CC	ONTR. D.P.			<b> </b>				DEPTH IN	l						<del>                                     </del>	1
HOU	RS W/ OF	PR. D.P.			<b>_</b>	ļ			TOTAL DE	RILLED				MUD & CHEMI	CALS ADDED		-1
HOU	RS WITH	OU1' D.P.		<u> </u>	<b></b>	STAN	IDS D.P.		TOTAL HO	OURS			TYPE	AMOUNT	TYPE	AMOU	NT
HOU	RS STAN	DBY		<u> </u>		SING	LES D.P.		INNER	CUTTING OUTER	STRUCTURE DULL CHAR	LOCATION	}				
				<u> </u>		KELL	Y DOWN										
						ТОТА	ıL		BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED					
		-			WT. 0	F STRIN	NG				UNAN.		<del> </del>				-
					REMA					<u> </u>	<u> </u>	1	L	1			-
TOTA	L DAYW	ORK			1							<del> </del>				•	
NO. 0	OF DAYS		•	•	1		·				·····						
CUM	ULATIVE ATING HO	DURS			1												
	Y MUD C																
TOTA	AL MUD C	OST									55	LLER B	an.	. \			7
© 199	5 Internation	nal Association o	of Drilling Cont	ractors	IAD	C - A	PI OFFIC	IAL DAILY	DRILLING	REPO	RT FORM	<del>()</del>		CONTROL OF		<del></del>	

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3. REAMING	7			1		OD		MANUFAC	CTURER			FUNNEL VISCOSITY			
4. CORING	ON MUD							TYPE				PV/YP	<del>                                     </del>	1 7	<del>                                     </del>
5. & CIRCUL	LATE					OD		SERIAL N	О.			GEL STRENGTH	+ /	1	<del>                                     </del>
6. TRIPS				1	<del> </del>	OD		JETS					+/	<del>                                     </del>	<del>                                     </del>
7. LUBRICA			<u> </u>	-		OD		TFA				FLUID LOSS			
8. REPAIR F	:			<b>-</b>	<u> </u>	OD		DEPTH O	JT			pH ———	<u> </u>		1
9. DRILLING	SLINE		·	1				DEPTH IN				SOLIDS			
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12. RUN CASIN					SINGLES_	D.P.			CUTTING	STRUCTUR		-	AWOONT	11re	AMO
13. WAIT ON					KELLY DO	)WN		INNER	OUTER	DULL CHA	R. LOCATION	+			+
14. NIPPLE U					TOTAL		• • • • • • • • • • • • • • • • • • • •	BEARINGS/ SEALS	010-	OTHER	REASON PULLED	<del> </del>			+
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22. 23. A. PERF	FORATING ING TRIPS			NO.	DRILLIN	end of tour)	BLY	BIT NO.	BIT F		BILLER 3	TIME			
22. 23. A. PERF	ING TRIPS				DRILLIN (At	end of tour)			BITF						
22. 23. A. PERF	ING TRIPS				DRILLIN (At	end of tour)		BIT NO.	-			TIME WEIGHT	MUD R		
22. 23. A. PERF	ATING ABBING				DRILLIN (At	end of tour)		BIT NO.	E			TIME WEIGHT PRESSURE GRADIENT FUNNEL	MUD R		
22. 23. A. PERF	ATING ABBING				DRILLIN (At	end of tour)  A  OD		BIT NO. SIZE IADC COD	E			TIME WEIGHT PRESSURE GRADIENT	MUD R		
22.  A. PERF  B. TUBI  C. TRE/  D. SWA  E. TEST	ATING ABBING				DRILLIN (At	end of tour)		BIT NO. SIZE IADC COD	E			TIME WEIGHT PRESSURE GRADIENT FUNNEL VISCOSITY PV/YP	MUD R		
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DEVIATION RECORD	N DE	CC CC	DEV.	D COL	IR.	TVD	HORIZ DISP	Z	PEPTH	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ
DEVIATION RECORD	N DE	CC CC	DEV.	D COL	IR.	TVD	HORIZ DISP	Z	PEPTH	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ
DEVIATION RECORD	N DE	CC CC	DEV.	D COL	IR.	TVD	HORIZ DISP	Z	PEPTH	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ
DEVIATION RECORD	N DE	CC CC	DEV.	D COL	IR.	TVD	HORIZ DISP	Z	PEPTH	DEV.	DIR.	LINER	S.P.M.	LINER SIZE	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ
DEVIATION RECORD	N DE TO	EPTH E	DEV.	D COL	IR.	TVD  DETAILS	HORIZ DISP	Z. [	DEPTH IN SEQUI	DEV.	DIR.	TVD	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	LINER	S.P.M.	HORIZ

BURI	L ED STATES ARTMENT OF THE INTERIOR EAU OF LAND MANAGEMENT FICES AND REPORTS ON WELLS	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No. UTU-77263
Do not use this form for propos Use "APPLICA"	als to drill or to deepen or reentry to a different reservoir.  FION FOR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name N/A
S	JBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A
1. Type of Well Oil X Gas		8. Well Name and No. Middle Mountain #21-16
2. Name of Operator Fortuna (US), Inc.		9. API Well No. 43-015-30426
	eet SW, Calgary, Alberta T2P5C5 403-23	7-1163 10. Field and Pool, or Exploratory Area Wildcat
4. Location of Well (Footage, Sec., T., R., N	1., or Survey Description)	11. County or Parish, State
1309' FSL, 834' FEL SE/4 SE/4, Section 21,		Emery County, Utah
12. CHECK APPROPRIATE	BOX(s) TO INDICATE NATURE OF NOTICE	, REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TY	PE OF ACTION
Notice of Intent  Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back	Change of Plans New Construction Non-Routine Fracturing

13. Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached are the weekly drilling reports for the Middle Mountain #21-16 well

Casing Repair

Altering Casing

Weekly Drilling Reports

**RECEIVED** 

Water Shut-Off

Dispose Water

Conversion to Injection

JAN ( 7 2003

DIV. OF OIL, GAS & MINING

FILE COPY

14. I hereby certify that the foregoing			
Signed Don Hamilton Don H	Title Agent for Fortuna US	Date	January 2, 2003
(This space for Federal or State office	use)		
Approved by	Title	Date	

اله المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام المام ا

Job Type: Drilling - original

Spud Date 10/28/2002	Rig Release Date	KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	AFE No. 37511	Total AFE Am	n (4)
Daily Summary	<u> </u>	0012.00			Daily Cost Total	Cum. Cost To	Date
Veather		Road Condition	Hole Condition				
Clear		Snow covered	Sloughing sha	le improving	Daily Mud Cost	Mud Additive	Cost To D
perations at Report Time					Depth Start (ftKB)	Depth End (ft)	VD)
REAM HOLE @ 780 Operations This Report Pe		96'KB		. 1,11 1 1	7,924.0		96.0
Drill ahead. Trip bit.		7786			Depth Progress (ftKB)	Drilling Time (	
perations Next Report Pe	_		1 d	e e e e e e e e e e e e e e e e e e e	128.0	15	.00
Orill ahead.							
ime Log					Ops Supervisors	ntact	
tart Date End Time Dur	r (hrs) Code	Activity	Col	mment	Arnie Hamarsnes, D		eer
	15.00 02 Dr	rilling	Drill ahead.		Ernie Natte, Drilling		
		ipping	Trip out for bit.		Mel Knezevich, Drilli	ing Foremar	ı
		ipping	Trip in to 7786 ft.		Mark Moennich, Dril	ling Sup't	
3:00 00:00	1.00 03 Re	eaming	Ream bridge at 778	86 ft.	Don Helms, Mud En	gineer	
Mud Checks: 7,974	I.OftKB, 12/22/20	002 00:00			Randy Hackford, To	ol Pusher	
ype Date	Depth	(ftKB) T(fl) (°F)	Density (lb/gal) Vis (s/qt)	Plas Vis (cp)	Bill Hedglin, Geologi	st	
		7,974.0 82.0	10.2 45	12.0	D' D'II 44 - 41 - 1		
ield Point (cp) gel 10 23.0	0 sec (cp) gel 10 8.0	min (cp) Filtrate (mL/30min 13.0 8.0	) HTHP Filt (mL/30min Filter Cake ( 2.00		Rigs: Bill Martin Jr.	., ડ	
Z3.U ime (lb/bbl) pH		13.0 8.0 nL/mL) Pf (mL/mL)	2.00 Calcium (mg/L) Potassium (r	-	John Day, Tool Push	ner	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9.0	ieme, ri (meme)	60.000	6.8		–	
Chlorides (mg/L) Sand	(%) Solids	(%) Percent Oil (%)	Percent Water (%) LG Solids (%		Rigs: Patterson U.1	ſ.l, 104	
400.000	0.3	7.3	0.5		Rig Supervisor Jesse Blanchard, Dr	illing Manag	er
rill Strings: BHA #	#18. Slick					miny ivialiay	<u></u>
it Rui Bit		IADC Bit Dull	TFA (incl Noz) (in2 ROP (ft/hr Nozz		1, IDECO, MM-550	a (ba) Di (Di)	
12 6 1/8in, STX-20		7-8-FC-A-E-0-CT-PR	2.36 6.1	32/32/32	Pump Number Pump Ratin		meter (in) .5197
en (ft) Max OD (i			Drilling tors Hudroulis Do	vun Deilling Jose			
569.62 4.75		Jp, Drill Collar	, Drilling Jars - Hydraulic Do	own, Drilling Jars -	Liner Size (in) Stroke (i 5 15		(bbl/stk) 0.105
	- Tryuraunc C						
						.00	0.103
Prilling Parameters					Pump Checks		
HA No. Depth St	tart (ftKB) Depth End (	(ftKB) Cum Depth (ftKB) Drill Tim			Pump Checks	Strokes (strokes/min)	
HA No. Depth St 18 7,92	tart (ftKB) Depth End ( 24.0 7,996	(ftKB) Cum Depth (ftKB) Drill Tim .0 251.0 15	5.00 41.25	4.8 252	Pump Checks	Strokes	Eff (%)
HA No. Depth St 18 7,92 OB (1000lbf) RPM (rp	tart (ftKB) Depth End ( 24.0 7,996	(ftKB) Cum Depth (ftKB) Drill Tim .0 251.0 15 .0 Rot HL (1000lbf) PÜ HL (10	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T	4.8 252	Pump Checks  P (psi) Slow Spd 1,350.0 No	Strokes (strokes/min)	Eff (%)
HA No. Depth St 18 7,92 (OB (1000lbf) RPM (rp 25	tart (ffKB) Depth End ( 24.0 7,996 om) SPP (psi) 80 1,350.0	(ftKB) Cum Depth (ftKB) Drill Tim .0 251.0 15 .0 Rot HL (1000lbf) PÜ HL (10	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T	4.8 252	Pump Checks P (psi) Slow Spd	Strokes (strokes/min) 60	Eff (%) 9
HA No. Depth St 18 7,92  OB (1000lbf) RPM (rp 25	tart (ffKB) Depth End ( 24.0 7,996 om) SPP (psi) 80 1,350.0	(ftKB) Cum Depth (ftKB) Drill Tim .0 251.0 15 .0 Rot HL (1000lbf) PÜ HL (10	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T	4.8 252 Forque Off Btm Tq	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550	Strokes (strokes/min) 60	Eff (%)
18 7,93 708 (1000lbf) RPM (rp 25  25  25  25  26  27  25  25  26  27  28  28  28  28  28  28  28  28  28	tart (fKB) Depth End ( 24.0 7,996  om) SPP (psi)  80 1,350.0  #19, Slick  0, 5005063	(fiKB) Cum Depth (fiKB) Drill Tim .0 251.0 15 Rot HL (1000lbf) PÜ HL (10 .0 118 13;	0.00 41.25 4 000br) SO HL (1000br) Drilling T 2 110	4.8 252 Forque Off Btm Tq	Pump Checks  P (psi) Slow Spd  1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0  Liner Size (in) Stroke (iii	Strokes (strokes/min) 60 g (hp) Rod Dia ) 2. n) V/Stk	Eff (%) 9 meter (in) 5197 (bbl/stk)
HA No. Depth St  18 7,92  /OB (1000lbf) RPM (rg  25  Prill Strings: BHA #  It Ruißit  13 6 1/8in, STX-30  en (ft) Max OD (i	tart (fKB) Depth End ( 24.0 7,996  om) SPP (psi)  80 1,350.0  #19, Slick  0, 5005063  in) String Compon	(ffKB) Cum Depth (ffKB) Drill Tim .0 251.0 15 .Rot HL (1000lbf) PÜ HL (10 0 118 13;	5.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (in* ROP (ft/hr Nozz 2.36	4.8 252 forque Off Btm Tq  cles (/32") 32/32/32	Pump Checks  P (psi) Slow Spd  1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0  Liner Size (in) Stroke (iii	Strokes (strokes/min) 60 g (hp) Rod Dia 0 2. n) V/Stk	Eff (%) 9 meter (in) 5197
HA No. 18 7,93 18 7,93 7/08 (1000lbf) RPM (rp. 25    Drill Strings: BHA #   It RurBit   13 6 1/8in, STX-30	tart (ftKB) Depth End ( 24.0 7,996  bm) SPP (psi) 80 1,350.0  #19, Slick  0, 5005063  in) String Compon Hughes ST	(ffKB) Cum Depth (ffKB) Drill Tim .0 251.0 15 .0 Rot HL (1000lbf) PU HL (10 0 118 13:	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110 TFA (incl Noz) (int ROP (ft/hr Nozz	4.8 252 forque Off Btm Tq  cles (/32") 32/32/32	Pump Checks  P (psi) Slow Spd  1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0  Liner Size (in) Stroke (iii	Strokes (strokes/min) 60 g (hp) Rod Dia ) 2. n) V/Stk	Eff (%) 9 meter (in) 5197 (bbl/stk)
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HA No. 18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,	tart (ftKB) Depth End ( 24.0 7,996  om) SPP (psi) 80 1,350.0  #19, Slick  0, 5005063  in) String Compon Hughes ST Hydraulic L  5: 0.0ftKB	(ffKB) Cum Depth (ffKB) Drill Tim .0 251.0 15 .Rot HL (1000lbf) PÜ HL (10 0 118 132  IADC Bit Dull nents "X-30, Bit Sub, Drill Collar Jp, Drill Collar	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit Nozz 2.36  , Drilling Jars - Hydraulic Do	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  wwn, Drilling Jars -	Pump Checks           P (psi)         Slow Spd           1,350.0         No           2, IDECO, MM-550           Pump Number         Pump Ratin           2         550.0           Liner Size (in)         Stroke (in)           5         15           Pump Checks           P (psi)         Slow Spd	Strokes (strokes/min) 60 g (hp) Rod Dia D 2. n) V/Stk. 00 Strokes (strokes/min)	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105
HA No. 18 7,92 18 7,92 100 (1000lbf) RPM (rp. 25    Prill Strings: BHA #   It RutBit	tart (fKB) Depth End ( 24.0 7,996  27,996  28,0 1,350.0  29,5005063  20,5005063  20,5005063  20,Hughes ST  Hydraulic U  20,500ftKB  Lart (fKB) Depth End (	(ffKB) Cum Depth (ffKB) Drill Tim  .0 251.0 15  Rot HL (1000lbf) PÜ HL (10  0 118 13;  IADC Bit Dull	onlibrity of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  bwn, Drilling Jars -	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0 Liner Size (in) Stroke (ii 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No	Strokes (strokes/min) 60 g (hp) Rod Dia 0 2. n) V/Stk	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105
HA No. 18 7,92 18 7,92 18 7,92 25 RPM (rp. 25    Drill Strings: BHA #   It RurBit	tart (fKB) Depth End ( 24.0 7,996  27,996  28,0 1,350.0  29,5005063  20,5005063  20,5005063  20,Hughes ST  Hydraulic U  20,500fKB  20,500fKB  20,7,796	(ffKB) Cum Depth (ffKB) Drill Tim  .0 251.0 15     Rot HL (1000lbf) PU HL (10 0 118 13:  IADC Bit Dull nents "X-30, Bit Sub, Drill Collar Jp, Drill Collar  (ffKB) Cum Depth (ffKB) Drill Tim .0 0.0	ono 41.25  onibit) SO HL (1000lbf) Drilling T  110  TFA (incl Noz) (int ROP (ft/hr/Nozz 2.36  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00	4.8 252 forque Off Btm Tq  tles (/32")	Pump Checks           P (psi)         Slow Spd           1,350.0         No           2, IDECO, MM-550           Pump Number         Pump Ratin           2         550.0           Liner Size (in)         Stroke (in)           5         15           Pump Checks           P (psi)         Slow Spd	Strokes (strokes/min) 60  g (hp) Rod Dia 0 2. n) V/Stk .00  Strokes (strokes/min) 60	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105
No.   Depth St   18	tart (ftKB) Depth End ( 24.0 7,996 24.0 7,996 25.0 1,350.0 25.0 5005063 26.0 String Compone 26.0 Hughes ST Hydraulic U 26.0 0.0ftKB 26.0 7,796 26.0 7,796 26.0 SPP (psi)	(ffKB) Cum Depth (ffKB) Drill Tim .0 251.0 15 .0 251.0 15 .0 Rot HL (1000lbf) PU HL (10 .0 118 13:	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (in* ROP (ft/hr/Nozz 2.36)  Drilling Jars - Hydraulic Do e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T	4.8 252 forque Off Btm Tq  tles (/32")	Pump Checks  P (psi) Slow Spd  1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0  Liner Size (in) Stroke (in 5 15  Pump Checks  P (psi) Slow Spd  1,350.0 No  BOPs	Strokes (strokes/min) 60 g (hp) Rod Dia 2 n) V/Stk .00 Strokes (strokes/min) 60 Nom Sz	Eff (%) 9 meter (in) 5197 (bbl/sik) 0.105  Eff (%) 9
HA No. 18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,93  18 7,73  18 7,73  18 7,73  19 7,73  10 10 1000lbf) RPM (rp	tart (ftKB) Depth End ( 24.0 7,996 24.0 7,996 25.0 1,350.0 25.0 5005063 26.0 String Compone 26.0 Hughes ST Hydraulic U 26.0 0.0ftKB 26.0 7,796 26.0 7,796 26.0 SPP (psi)	(ffKB) Cum Depth (ffKB) Drill Tim .0 251.0 15 .0 251.0 15 .0 Rot HL (1000lbf) PU HL (10 .0 118 13:	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (in* ROP (ft/hr/Nozz 2.36)  Drilling Jars - Hydraulic Do e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T	4.8 252 forque Off Btm Tq  tles (/32")	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0 Liner Size (in) Stroke (ii 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No	Strokes (strokes/min) 60  g (hp) Rod Dia 0 2. n) V/Stk. 00  Strokes (strokes/min) 60  Nom Sz (in)	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9
HA No. Depth St. 18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,73  18 8,92  18 19 7,73  18 19 7,73  19 10 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) RPM (rp. 1000lbf) R	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  3, 5005063  30) String Compon  40 Hughes ST  41 Hydraulic L  5: 0.0ftKB  1,350.0  3: 0.0ftKB  1,350.0  3: 0.0ftKB  1,350.0	(ffKB) Cum Depth (ffKB) Drill Tim .0 251.0 15 .Rot HL (1000lbf) PÜ HL (10 0 118 13;  IADC Bit Dull	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (in* ROP (ft/hit Nozz 2.36  , Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr int ROP 0.00 00lbf) SO HL (1000lbf) Drilling T	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 forque Off Btm Tq	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0 Liner Size (in) Stroke (ii 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPs  Type  Annular Preventers	Strokes (strokes/min) 60  g (hp) Rod Dia 0 2. n) V/Stk .00  Strokes (strokes/min) 60  Nom Sz (in) 11	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9
HA No. 18 7,92 18 7,92 25 RPM (rp 25  Prill Strings: BHA # 13 6 1/8in, STX-30 en (ft) Max OD (i 569.62 4.75  Prilling Parameters HA No. Depth St. 19 7,73 OB (1000/bf) RPM (rp 10	tart (ftKB) Depth End ( 24.0 7,996 24.0 7,996 25.0 1,350.0 25.0 5005063 26.0 String Compone 26.0 Hughes ST Hydraulic U 26.0 0.0ftKB 26.0 7,796 26.0 7,796 26.0 SPP (psi)	(ffKB) Cum Depth (ffKB) Drill Tim .0 251.0 15 .0 251.0 15 .0 Rot HL (1000lbf) PU HL (10 .0 118 13:	0.00 41.25 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit Nozz 2.36  , Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (ht Int ROP 0.00 00lbf) SO HL (1000lbf) Drilling T 2 110	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 orque Off Btm Tq	Pump Checks	Strokes (strokes/min) 60 g (hp) Rod Dia D 2. n) V/Stk .00 Strokes (strokes/min) 60 Nom Sz (in) 11 nts	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9
HA No. Depth St 18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,73  19 7,73  19 7,73  10 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM (rp 1000lbf) RPM	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  In) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (in* ROP (ft/hit Nozz 2.36  , Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr int ROP 0.00 00lbf) SO HL (1000lbf) Drilling T	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 forque Off Btm Tq	Pump Checks	Strokes (strokes/min) 60  g (hp) Rod Dia 0 2. n) V/Stk .00  Strokes (strokes/min) 60  Nom Sz (in) 11	Eff (%)  S meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9  P(wkg) (ps 1,500.
18 7,93 18 7,93 18 7,93 18 7,93 18 7,93 18 17,93 18 17,93 18 18 17,93 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  In) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit Nozz 2.36  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 orque Off Btm Tq	Pump Checks	Strokes (strokes/min) 60  g (hp) Rod Dia 0 2. n) V/Stk. 00  Strokes (strokes/min) 60  Nom Sz (in) 11  nts Consumed Da	Eff (%) 5197 (bbl/stk) 0.105  Eff (%) 9 P(wkg) (p: 1,500.
18 7,93 08 (1000lbf) RPM (rp 25  rill Strings: BHA # RurBit 3 6 1/8in, STX-30 n (ft) Max OD (i 569.62 4.75  rilling Parameters 1A No. Depth St 19 7,73 08 (1000lbf) RPM (rp 10 7  fellbores  v ain Hole irectional Surveys scription	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  In) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32")	Pump Checks	Strokes (strokes/min) 60  g (hp) Rod Dia 0 2. n) V/Stk. 00  Strokes (strokes/min) 60  Nom Sz (in) 11  nts Consumed Da	Eff (%) 5197 (bbl/stk) 0.105  Eff (%) 9 P(wkg) (p: 1,500.
18	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  In) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit Nozz 2.36  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32")	Pump Checks	Strokes (strokes/min) 60  g (hp) Rod Dia 0 2. n) V/Stk. 00  Strokes (strokes/min) 60  Nom Sz (in) 11  nts Consumed Da	Eff (%)  S  meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9  P(wkg) (ps 1,500.
18 7,93 18 7,93 18 7,93 18 7,93 18 17,93 18 17,93 18 17,93 18 17,93 18 17,93 18 17,93 18 17,93 18 17,93 18 17,93 18 17,93 18 18 18 18 18 18 18 18 18 18 18 18 18 1	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  In) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32")	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0  Liner Size (in) Stroke (in 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPs  Type Annular Preventers  Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE	Strokes (strokes/min) 60  g (hp) Rod Dia 2  n) V/Stk  .00  Strokes (strokes/min) 60  Nom Sz (in) 11  nts  Consumed Da 1.0	Eff (%)  5197 (bbl/stk) 0.105  Eff (%) 9  P(wkg) (pt 1,500.
18 7,93 08 (1000lbf) RPM (rp 25  rill Strings: BHA # RurBit 3 6 1/8in, STX-30 n (ft) Max OD (i 569.62 4.75  rilling Parameters 1A No. Depth St 19 7,73 08 (1000lbf) RPM (rp 10 7  fellbores  v ain Hole irectional Surveys scription	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  In) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32")	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0 Liner Size (in) Stroke (ii 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPs  Type Annular Preventers  Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA	Strokes (strokes/min) 60  g (hp) Rod Dia 2  n) V/Stk  .00  Strokes (strokes/min) 60  Nom Sz (in) 11  nts  Consumed Da 1.0	Eff (%)  S meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9  P(wkg) (ps 1,500.
A No.   Depth St   18	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  In) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32")	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0  Liner Size (in) Stroke (in) 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPs  Type Annular Preventers  Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN	Strokes   (strokes/min)   60   60   0   2   00   00   00   00	Eff (%) 5197 (bbl/stk) 0.105  Eff (%) 9 1,500.
18 7,93 08 (1000lbf) RPM (rp. 25  rill Strings: BHA # RurBit 3 6 1/8in, STX-30 n (ft) Max OD (i. 569.62 4.75  rilling Parameters 1A No. Depth St. 19 7,73 08 (1000lbf) RPM (rp. 10 fellbores vain Hole irectional Surveys scription	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  In) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 forque Off Btm Tq  MD (ft/KB) 300.0	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0 Liner Size (in) Stroke (ii 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPs  Type Annular Preventers  Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA	Strokes   (strokes/min)   60   60   0   2   00   00   00   00	Eff (%) 5197 (bbl/stk) 0.105  Eff (%) 9 1,500  1,35 3,28
HA No. 18 7,93 18 7,93 10B (1000lbf) RPM (rp. 25  Prill Strings: BHA # It RurBit 13 6 1/8in, STX-30 Prilling Parameters HA No. Depth St 19 7,73 10B (1000lbf) RPM (rp. 10 10  Vellbores  Valin Hole  Irrectional Surveys  escription	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  in) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 forque Off Btm Tq  MD (ft/KB) 300.0	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0 Liner Size (in) Stroke (in 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPs  Type Annular Preventers  Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA MUD MAN BAROID USA MUD MAN BAROID USA MUD BAROID USA MUD MAN BAROID USA MUD BAROID USA MUD	Strokes   (strokes/min)   60   60   0   2   0   0   0   0   0   0   0	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9 P(wkg) (ps 1,500.  1,356 3,286 756
18	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  in) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 forque Off Btm Tq  MD (ft/KB) 300.0	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0  Liner Size (in) Stroke (in) 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPS  Type Annular Preventers  Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA MUD MAN BAROID USA MUD MAN BAROID USA MUD TRANSPORT	Strokes   (strokes/min)   60   60   2   60   7   7   7   7   7   7   7   7   7	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9 P(wkg) (ps 1,500.  1,356 3,285 756
HA No. 18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,92  18 7,73  18 8,92  18 19 7,73  18 19 7,73  19 10 8,74  10 8,74  10 8,74  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,75  10 8,	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  in) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 forque Off Btm Tq  MD (ft/KB) 300.0	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0 Liner Size (in) Stroke (in) 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPs  Type Annular Preventers  Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA MUD MAN BAROID USA MUD TRANSPORT BAROID USA	Strokes   (strokes/min)   60   60   2   60   7   7   7   7   7   7   7   7   7	Eff (%) 99 meter (in) 5197 (bbl/sik) 0.105  Eff (%) 90 P(wkg) (psi
18	tart (ftKB) Depth End ( 24.0 7,996  24.0 7,996  35PP (psi)  80 1,350.0  419, Slick  2, 5005063  in) String Compon  60 Hughes ST  Hydraulic L  5: 0.0ftKB  tart (ftKB) Depth End ( 96.0 7,796.  3m) SPP (psi)  70 1,350.0  Vellbore Name	(fiKB) Cum Depth (fiKB) Drill Tim .0	0.00 41.25 4 00lbf) SO HL (1000lbf) Drilling T 2 110  TFA (incl Noz) (int ROP (ft/hit/Nozz 2.36)  Drilling Jars - Hydraulic Do  e (hrs) Cum Drill Time (hr Int ROP 0.00) 00lbf) SO HL (1000lbf) Drilling T 2 110  KO 90.00	4.8 252 forque Off Btm Tq  tles (/32") 32/32/32  own, Drilling Jars -  (ft/hr) Flow Rate (gpm) 252 forque Off Btm Tq  MD (ft/KB) 300.0	Pump Checks  P (psi) Slow Spd 1,350.0 No  2, IDECO, MM-550 Pump Number Pump Ratin 2 550.0 Liner Size (in) Stroke (in) 5 15  Pump Checks  P (psi) Slow Spd 1,350.0 No  BOPs  Type Annular Preventers  Mud Additive Amou Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA MUD MAN BAROID USA MUD MAN BAROID USA MUD TRANSPORT BAROID USA REGULAR BARITE	Strokes   (strokes/min)   60   60   0   2   0   0   0   0   0   0   0	Eff (%) 9 meter (in) 5197 (bbl/stk) 0.105  Eff (%) 9 P(wkg) (ps 1,500.  1,356 3,283 756 233

Formation Picks Group Drilling Sample

Talinman Energy Canada - Daily Drilli Report Page 2/2
Well Name: FORTUNA MIDDLE | JNTAIN #21-16 Da. .. 12/22/2002, Report: 56.0, DFS: 56.00
Job Type: Drilling - original

Spud Date 10/28/2002	Rig Release Date	KB Elevation (ft)   8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft)	Name Ferron	Top (ftKB) 7,735.0
Daily Summary	L	8072.00	0033.00	17.00	Bluegate	5,672.0
					Emery	4,280.0
					Mancos Star Point	3,073.0 2,700.0
					Intermediate Casing, 4,4* Casing Run Date Max OD (in) Grad	I3.0ftKB
					Casing Run Date Max OD (in) Grade 11/26/2002 9 5/8 J-	e Wt (lbs/ft) 55 36.00
					123.2332 \ 03   0	<u></u>

Report Printed: 12/23/2002

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Tall' han Energy Canada - Daily Drillir Report

Well Name: FORTUNA MIDDLE M. JNTAIN #21-16

Date. 12/23/2002, Report: 57.0, DFS: 57.00

Job Type: Drilling - original

Total AFE Amt (\$) Ground Elevation (ft) KB-Ground Distance (ft) AFE No KB Elevation (ft) Rio Release Date Spud Date 37511 17.00 8655.00 10/28/2002 8672.00 Daily Cost Total Cum. Cost To Date **Daily Summary** Hole Condition Road Condition Weathe Daily Mud Cost Mud Additive Cost To Date Sloughing shale improving Snow covered CLEAR Operations at Report Time Depth Start (ftKB) Depth End (ftKB) 0600 HR - DRILL 6 1/4" HOLE / DEPTH - 8045'KB 7,796.0 8.018.0 Operations This Report Period Depth Progress (ftKB) Drilling Time (hrs) REAM HOLE F/ 7786' - 7996' / DRILL 6 1/4" HOLE F/ 7996' - 8018'KB 5.00 222.0 Operations Next Report Period DRILL AHEAD **Ops Supervisors** Time Log Arnie Hamarsnes, Drilling Engineer Comment Activity Start Date End Time Dur (hrs) Code REAM 6 1/8" HOLE F/ 7786' - 7847 Mel Knezevich, Drilling Foreman 14.75 03 Reaming 00:00 14:45 RIG SERVICE / FUNCTION PIPE RAMS Ernie Natte, Drilling Foreman 15:15 0.50 07 Rig Service 14:45 REAM 6 1/8" HOLE F/ 7847' - 7996' Mark Moennich, Drilling Sup't 15:00 18:45 3.75 03 Reaming DRILL 6 1/8" HOLE F/ 7996 - 8018' Drilling Don Helms, Mud Engineer 18:45 23:45 5.00 02 Randy Hackford, Tool Pusher Mud Checks: 7,996.0ftKB, 12/23/2002 10:00 Bill Hedglin, Geologist T(fl) (°F) Density (lb/gal) Vis (s/qt) Plas Vis (cp) Depth (ftKB) 83.0 10.2 45 12.0 7,996.0 Gel-Chem 12/23/2002 10:00 Rigs: Bill Martin Jr., 3 HTHP Filt (mL/30min Filter Cake (in) MBT (lb/bbl) Filtrate (mL/30min) Yield Point (cp) gel 10 sec (cp) gel 10 min (cp) 8.0 13.0 23.0 8.0 John Day, Tool Pusher Polymer (lb/gal) Potassium (mg/L) Pm (mL/mL) Pf (mL/mL) Calcium (mg/L) Lime (lb/bbl) 9.0 Rigs: Patterson U.T.I, 104 LG Solids (%) Electric Stab (V) Percent Water (%) Chlorides (mg/L) Solids (%) Percent Oil (%) 0.5 0.3 7.3 Jesse Blanchard, Drilling Manager Drill Strings: BHA #19, Slick 1. IDECO, MM-550 TFA (incl Noz) (in ROP (ft/hr Nozzles (/32" IADC Bit Dull Bit Rui Bit ump Number Pump Rating (hp) Rod Diameter (in) 2.36 44.4 32/32/32 13 6 1/8in, STX-30, 5005063 550.0 2.5197 1 Len (ft) Max OD (in) String Components Stroke (in) V/Stk (bbl/stk) Liner Size (in) Hughes STX-30, Bit Sub, Drill Collar, Drilling Jars - Hydraulic Down, Drilling Jars -4.750 569.62 0.105 5 15.00 Hydraulic Up, Drill Collar 2, IDECO, MM-550 **Drilling Parameters: 222.0ftKB** Pump Number Pump Rating (hp) Rod Diameter (in) Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) BHA No 550.0 2.5197 7,796.0 5.00 5.00 44.4 252 8,018.0 222.0 V/Stk (bbl/stk) SPP (psi) PU HL (1000lbf) SO HL (1000lbf) Drilling Torque Off Btm Tq Liner Size (in) Stroke (in) Rot HL (1000lbf) WOB (1000lbf) RPM (rpm) 0.105 110 15.00 132 70 1,700.0 118 25 **Pump Checks** Wellbores Strokes VS Dir (°) KO MD (ftKB) Wellbore Name Slow Spd (strokes/min) 90.00 300.0 P (psi) Eff (%) Main Hole 1,700.0 60 Directional Surveys: SINGLE SHOT **BOPs** Survey Company Description Nom Sz Patterson Crew SINGLE SHOT (in) P(wka) (psi) Type Annular Preventers 11 1,500.0 **Mud Additive Amounts** Consumed Daily Cost (\$) Description **BAROID USA** 4.0 CAUSTIC SODA 5.0 2.053 **BAROID USA BARAZAN D PLUS BAROID USA** 32.0 QUICK GEL BAROID USA 115.0 REGULAR BARITE Formation Pick Groups: Drilling Sam... Formation Picks Group **Drilling Sample** Top (ftKB) 7,735.0 Ferron 5,672.0 Bluegate 4,280.0 Emery Mancos 3,073.0

Report Printed: 12/24/2002

Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade

Star Point

11/26/2002 9 5/8

90

154

91

2,700.0

Wt (lbs/ft)

36.00

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Well Name: FORTUNA MIDDLE N. JNTAIN #21-16 Date: 12/24/2002, Report: 58.0, DFS: 58.00

Job Type: Drilling - original

Spud Da 1	te 0/28/200	Rig Releas	e Date K	B Elevation (ft) 8672.00	0	Fround Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	AFE N
Daily S	Summar	у						Daily (
Weather			Road Condi	tion		Hole Condition		
CLEAF			Snow co	vered		LOST CIRC	@ 8120'	Daily N
1 '	ns at Repor	t Time MUD F/ LOSS	CIRC @ 8120'			* · · · · · · · · · · · · · · · · · · ·		Depth
t	ns This Rep		01110 @ 0120					
1			3120' / LOST CI	RC @ 8120' (LC	OST 2	10 BBL)		Depth
Operation	ns Next Rep	ort Period		. · · ·				; i
CURE	LOST C	IRC & DRILL AI	HEAD					One
Time L	_oa							Ops
		Dur (hrs) Cod	<b>⇒</b> !	Activity			Comment	Arnie
00:00	17:00	17.00 02	Drilling			DRILL 6 1/8" HOL	E F/ 8018' - 8090'	Ernie
17:00	17:30	0.50 07	Rig Service			RIG SERVICE / F & ANNULAR	UNCTION PIPE RAMS	Mel I Mark
17:30	23:00	5.50 02	Drilling			DRILL 6 1/8" HOL	E F/ 8090' - 8120'	Don
23:00	00:00	1.00 05		id/or Circulate m	nud	<del></del>	20' / MIX & PUMP CAL	Ranc
								Bill F
		3,120.0ftKB, 12		T/01 /65		- m		Rigs
Type Gel-Ch		Date	Depth (ftKB) 8,120.0	T(fl) (*F)	Densi	ty (lb/gal) Vis (s/qt) 10.0 5	Plas Vis (cp) 6 22.0	Rig Su
Yield Poi		12/24/2002 23:45 gel 10 sec (cp)	gel 10 min (cp)	Filtrate (mL/30min)	HTHE	Filt (mL/30min Filter Cake		John
	1.0	12.0	18.0	7.2		THE (THE/SOMMET MET CAKE	(III) WIDT (ID/DDI)	
Lime (lb/t		рH 9.5	Pm (mL/mL)	Pf (mL/mL)	Calciu	ım (mg/L) Potassium	(mg/L) Polymer (lb/gal)	Rigs Rig Su Jess
Chlorides 400	(mg/L) 0.000	Sand (%)	Solids (%) 6.8	Percent Oil (%)	Perce	nt Water (%) LG Solids 1.		1, ID
Drill St	trinas: B	HA #19, Slick						Pump I
Bit Rui Bit			IADC Bit Du	ıi · · · · · · · · · · · · · · · · · · ·	TFA (	ncl Noz) (in²!ROP (ft/hr No	zzles (/32")	7 L
13 6		X-30, 5005063				2.36 7.6	32/32/32	Liner S
Len (ft)		•	Components					
569.	62		es STX-30, Bit : aulic Up, Drill Co		Drillir	g Jars - Hydraulic D	own, Drilling Jars -	Pum
Drilling	Parame	eters: 102.0ftK	 В					P (r
BHA No.				epth (ftKB) Drill Time	e (hrs)	Cum Drill Time (hr Int RO	OP (ft/hr) Flow Rate (gpm)	<u>'.</u> '
19		•			.50	42.50	4.5 252	2, ID
WOB (10				000lbf) PU HL (100		SO HL (1000lbf) Drilling	Torque Off Btm Tq	Pump I
2	5	70 1	,700.0 11	8 132	2	110		
Wellbo	res							Liner S
		Wellbore Name		VS D			O MD (ftKB)	11
Main H	ole				90	0.00	300.0	Pum
		veys: SINGLE	SHOT					P(p
Description						Survey Company		1,7
SINGL	E SHOT					Patterson Cre	w	; <del>                                    </del>
								BOP
								Annul
								- ramui

Total AFE Amt (\$) 37511 Cost Total Cum. Cost To Date Aud Cost Mud Additive Cost To Date Start (ftKB) Depth End (ftKB) 8,018.0 8,120.0 Progress (ftKB) Drilling Time (hrs) 102.0 22.50 Supervisors Contact Hamarsnes, Drilling Engineer Natte, Drilling Foreman Knezevich, Drilling Foreman Moennich, Drilling Sup't Helms, Mud Engineer ly Hackford, Tool Pusher ledglin, Geologist Bill Martin Jr., 3 pervisor Day, Tool Pusher Patterson U.T.I, 104 pervisor Blanchard, Drilling Manager ECO, MM-550 Number Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 V/Stk (bbl/stk) Stroke (in) ize (in) 5 0.105 15.00 p Checks Strokes Slow Spd (strokes/min) Eff (%) 0.00 No 60 ECO, MM-550 lumber Pump Rating (hp) Rod Diameter (in) 550.0 2.5197 Stroke (in) V/Stk (bbi/stk) 15.00 0.105

į	Pump Che	ecks		
	P (psi)	Slow Spd	Strokes (strokes/min)	Eff (%)
	1,700.0	No	60	90
	BOPs			
			Nom Sz	1
	T	уре	(in)	P(wkg) (psi)
	Annular Pr	eventers	11	1,500.0
	Mud Addit	ive Amo	unts	
	Descri	ption	Consumed D	aily Cost (\$)
	BAROID U	SA	4.0	175

	~	i
Description	Consumed	Daily Cost (\$)
BAROID USA	4.0	175
DESCO CHROME		
FRFF		
	أبيات ا	1 1122
BAROID USA	5.0	192
CAUSTIC SODA		
BAROID USA	9.0	3,696
BARAZAN D PLUS		
BAROID USA	70.0	2,076
	70.0	2,076
BARACARB 600		
BAROID USA	168.0	479
QUICK GEL		
BAROID USA	175.0	5.604
BARACARB 150	175.0	5,604
	1 1	
BAROID USA	440.0	1,597
REGULAR BARITE		
		4

lai<sup>/</sup> nan Energy Canada - Daily Drilli Report Page 2/2
Well Name: FORTUNA MIDDLE L. JNTAIN #21-16 Date: 12/24/2002, Report: 58.0, DFS; 58.00
Job Type: Drilling soriginal

Job Type: Drilling soriginal

Ground Elevation (ft) KB-Ground Distance (ft) KB Elevation (ft) Spud Date Rig Release Date 8655.00 17.00 8672.00

10/28/2002 Daily Summary Formation Pick Groups: Drilling Sama: Formation Picks Group

Drilling Sample

Top (ftKB) Ferron 7,735.0 Bluegate 5,672.0 4,280.0 Emery 3,073.0 Mancos 2,700.0 Star Point

Intermediate Casing, 4,413.0ftKB Casing Run Date Max OD (in) Grade Wt (lbs/ft) 36.00 11/26/2002 9 5/8

Date: 12/25/2002, Report: 59.0, DFS: 59.00

Job Type: Drilling - original

AFF No Total AFE Amt (\$) KR-Ground Distance (ft) KB Elevation (ft) Ground Flevation (ft) Spud Date Rig Release Date 8672 00 8655 00 17.00 37511 10/28/2002 Cum. Cost To Date Daily Cost Total Daily Summary Hole Condition Weather Road Condition Daily Mud Cost Mud Additive Cost To Date LOST CIRC @ 8120' Snow covered **CLEAR** Operations at Report Time Depth End (ftKB) Depth Start (ftKB) 0600 HR - BUILD VOLUME / DEPTH - 8162' 8,120.0 8.140.0 Operations This Report Period Drilling Time (hrs) Depth Progress (ftKB) BUILD VOLUME / DRILL F/ 8120' - 8140' / BUILD VOLUME 20.0 2.75 Operations Next Report Period BUILD VOLUME & DRILL F/ 8140' **Ops Supervisors** Time Log Arnie Hamarsnes, Drilling Engineer Comment Start Date | End Time | Dur (hrs) | Code Activity BUILD VOLUME / ATTEMPT TO CIRC 10.00 05 Condition and/or Circulate mud Mel Knezevich, Drilling Foreman 00:00 10:00 @ 7690' (PARTIAL RETURNS) Ernie Natte, Drilling Foreman 0.25 06 **RUN IN TO 8120'** Mark Moennich, Drilling Sup't 10:15 Tripping 10:00 **Undefined Status** WAIT ON MUD TRUCKS 10:15 12:00 1.75 00 Don Helms, Mud Engineer Condition and/or Circulate mud **BUILD VOLUME** Randy Hackford, Tool Pusher 12:00 15:00 3.00 05 PUMP CAL CARB PILL / BREAK CIRC & 15:00 15:45 0.75 05 Condition and/or Circulate mud Bill Hedglin, Geologist CIRC Rigs: Bill Martin Jr., 3 DRILL 6 1/8" HOLE F/ 8120' - 8125' 16:00 0.25 02 Drilling 15:45 HOIST 5 STANDS D.P. INTO 7" CSG ( 17:00 1.00 06 Tripping 16:00 John Day, Tool Pusher TO BUILD VOLUME) **BUILD VOLUME** 0.50 05 Condition and/or Circulate mud 17:00 17:30 Rigs: Patterson U.T.I, 104 RIG SERVICE 0.50 07 Rig Service 17:30 18:00 Jesse Blanchard, Drilling Manager 3.50 05 Condition and/or Circulate mud **BUILD VOLUME** 18:00 21:30 Drilling 2.50 02 DRILL 6 1/8" HOLE F/ 8125' - 8140' 21:30 00:00 1, IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in) Mud Checks: 8,140.0ftKB, 12/25/2002 00:00 550.0 2.5197 Depth (ftKB) T(fl) (°F) Density (lb/gal) Vis (s/qt) Plas Vis (cp) Type Liner Size (in) Stroke (in) V/Stk (bbl/stk) 10.2 18.0 8,140.0 Gel-Chem 12/25/2002 00:00 5 15.00 0.105 MBT (lb/bbl) Yield Point (cp) gel 10 sec (cp) gel 10 min (cp) Filtrate (mL/30min) HTHP Filt (mL/30min Filter Cake (in) 11.0 64 0.000 8.0 15.0 2, IDECO, MM-550 Polymer (lb/gal) Lime (lb/bbl) Pm (mL/mL) Pf (mL/mL) Calcium (mg/L) Potassium (mg/L) np Number Pump Rating (hp) Rod Diameter (in) 10.0 550.0 2 2.5197 Electric Stab (V) Sand (%) Percent Oil (%) Percent Water (%) LG Solids (%) Chlorides (mg/L) Solids (%) Liner Size (in) Stroke (in V/Stk (bbl/stk) 400.000 0.1 0.105 15.00 Drill Strings: BHA #19, Slick Pump Checks TFA (incl Noz) (in<sup>2</sup> ROP (ft/hr Nozzles (/32") IADC Bit Dull Strokes 32/32/32 13 6 1/8in, STX-30, 5005063 2.36 7.6 (strokes/min) Eff (%) P (osi) Slow Spd Len (ft) Max OD (in) String Components 1,700.0 60 90 Hughes STX-30, Bit Sub, Drill Collar, Drilling Jars - Hydraulic Down, Drilling Jars -569.62 4.750 Hydraulic Up, Drill Collar **BOPs** Nom Sz Drilling Parameters: 20.0ftKB (in) P(wkg) (psi) Type Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) Annular Preventers 11 1,500.0 **BHA No** 45 25 7.3 252 2.75 8,120.0 8,140.0 344.0 **Mud Additive Amounts** PU HL (1000lbf) SO HL (1000lbf) Drilling Torque Off Btm Tq SPP (psi) Rot HL (1000lbf) WOB (1000lbf) RPM (rpm) Consumed Daily Cost (\$) Description 132 110 118 70 1.700.0 BAROID USA 9.0 346 CAUSTIC SODA Wellbores VS Dir (°) KO MD (ftKB) Wellbore Name **BAROID USA** 1,186 40.0 300.0 90.00 Main Hole **BARACARB 600** 3,080 Directional Surveys: SINGLE SHOT BAROID 56.0 Survey Company Description **BARACARB 600** Patterson Crew SINGLE SHOT 4,483 BAROID USA 140.0 **BARACARB 150** BAROID USA 145.0 4,643 BARACARB 50 564 BAROID USA 198.0 QUICK GEL 920.0 BAROID USA 3,340 REGULAR BARITE Formation Pick Groups: Drilling Sam... Formation Picks Group **Drilling Sample** Top (ftKB) Ferron 7,735.0 5,672.0 Bluegate 4,280.0 Emery Report Printed: 12/26/2002 Tali nan Energy Canada - Daily Drilli Report Page 2/2

Well Name: FORTUNA MIDDLE JUTAIN #21-16 Date: 12/25/2002 Report: 59.0 DFS: 59.00

Job Type: Drilling - original

	notes a marketing				and the second second		
Soud Date	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Name	14.1	Top (ftKB)
10/28/2002	Mig Malease Date	8672.00	8655.00	17.00	Mancos	•	3,073.0
	1	0012:00	0000.55		Star Point		2,700.0
Daily Summary					The second second	TO THE STREET	77,196
					Intermediate Ca	eing :4 413	NAKB

Page 1/2

Hall nan Energy Canada - Daily Drilli Report
Well Name: FORTUNA MIDDLE № JNTAIN #21-16 Date: 12/26/200 Date: 12/26/2002, Report: 60.0, DFS: 60.00

Job Type: Drilling - original

10/28/2002	Rig Release Date	KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft)	AFE No. 37511 Daily Cost Total	Total AFE Am	
aily Summary		Died Condition	Usla Constitution		July Cost Total	500110	ستت
eather LEAR		Road Condition Snow covered	Hole Condition	on RC @ 8162'	Daily Mud Cost	Mud Additive	Cost To Dat
erations at Report Tirr		Silow covered					ربي
	VOLUME / DEPTH	- 8200'			Depth Start (ftKB)	Depth End (ftl	кв) 78.0
erations This Report F					8,140.0 Depth Progress (ftKB)	O, 17 Drilling Time (	
		BUILD VOLUME / TRIP F/ E	3IT @ 8178'		38.0		25
perations Next Report I							
OILD VOLOIVIL G	DIVIELTYON				Ops Supervisors	ntact	
me Log art Date   End Time   D	hur (bra)   Codo	Activity		Comment	Arnie Hamarsnes, Di		eer
0:00 04:00	4.00 02 Drill		DRILL 6 1/8" H	OLE F/ 8140' - 8162'	Mel Knezevich, Drillin		
2.00	1.00.02	9	(LOST CIRC @		Ernie Natte, Drilling F	-	
1:00 07:00	3.00 05 Cor	ndition and/or Circulate mud	PUMP PILL & I	REGAIN CIRC / BUILD	Mark Moennich, Drill		
			VOLUME		Don Helms, Mud Eng	<b>.</b>	
7:00 07:15	0.25 02 Drill	ling	DRILL 6 1/8" H	OLE F/ 8162' - 8164'	Randy Hackford, Too	-	
7:15 07:30	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	defined Status	WAIT ON WAT	ER TRUCKS	Bill Hedglin, Geologis	st	
7:30 08:30	1.00 02 Drill	ling	DRILL 6 1/8" H	OLE F/ 8164' - 8174'			
3:30 12:00	3.50 05 Con	ndition and/or Circulate mud	BUILD VOLUM	Ē	Rigs: Bill Martin Jr.	<u>, 3</u>	
2:00 13:00	1.00 02 Drill	ling	DRILL 6 1/8" H	OOLE F/ 8174' - 8178'	Rig Supervisor  John Day, Tool Push	ner	
3:00 14:30	1.50 05 Cor	ndition and/or Circulate mud	BUILD VOLUM	IE & PUMP PILL	John Day, 10011 usin		
4:30 17:30	3.00 06 Trip	pping	TRIP F/ BIT		Rigs: Patterson U.T	.i, 104	
7:30 18:00	0.50 07 Rig	Service	RIG SERVICE		Rig Supervisor		
3:00 00:00	6.00 06 Trip	pping		W/ 6 1/8" BIT / BREAK	Jesse Blanchard, Dri	iling Manag	jer
	4		CIRC @ 4540'	& 7643'	1, IDECO, MM-550		
ud Chacke: 8 1	78.0ftKB, 12/26/200	)2 11:30			Pump Number Pump Ratin	•	
pe Dat			ensity (lb/gal) Vis (s/	(qt) Plas Vis (cp)	1 550.0		2.5197
el-Chem 12	2/26/2002 11:30 : 8,	178.0	10.0	42 14.0	Liner Size (in) Stroke (ii	•	k (bbl/stk)
	10 sec (ср) gel 10 п		THP Filt (mL/30min Filter (		5 15	.00	0.105
11.0		10.0 9.2 /mL) Pf (mL/mL) Ca		1.000 sium (mg/L) Polymer (lb/gal)	2, IDECO, MM-550		
me (lb/bbl) pH	Pm (mL	inc) Pr (MDINE)	alcium (mg/L)	sum (mg/c) Tolymer (lo/gar)	Pump Number Pump Rating		
nlorides (mg/L) Sar	nd (%) Solids (	%) Percent Oil (%) Pe	ercent Water (%) LG So	olids (%) Electric Stab (V)	2 550.0		2.5197
400.000		6.4		0.2	Liner Size (in) Stroke (in	•	k (bbl/stk)
rill Strings: BHA	#10 Slick				5 15	.00	0.105
t Ru(Bit	1 #19, SHCK	IADC Bit Dull TF	A (incl Noz) (in2 ROP (ft/h	n/Nozzies (/32")	Pump Checks		
13 6 1/8in, STX-		7-7-BT-A-4-1-WT-PR	2.36 7.4	32/32/32	P (psi) Slow Spd	Strokes (strokes/min)	Eff (%)
n (ft) Max Ot	(in) String Compone	ents		C- D D-105 1	1,700.0 No	60	<u> </u>
569.62 4.		X-30, Bit Sub, Drill Collar, Dr	illing Jars - Hydraul	ic Down, Drilling Jars -			
<u></u>	nyulaulic O	p, Drill Collar			BOPs	Nom Sz	1
rilling Paramete	rs: 38.0ftKB				Туре	(in)	P(wkg) (p
		tKB) Cum Depth (ftKB) Drill Time (hr	s) Cum Drill Time (hr lr	nt ROP (ft/hr) Flow Rate (gpm)	Annular Preventers	11	1,500.
	,140.0 8,178.0 (rpm) SPP (psi)	382.0 6.25			1.1		
			51.50	6.1 252	Mud Additive Amou		
OB (1000lbf) RPM		Rot HL (1000lbf) PU HL (1000lbf	51.50 f) SO HL (1000lbf) Dr		Mud Additive Amou		aily Cost (\$
25 RPM	70 1,700.0	Rot HL (1000lbf) PU HL (1000lbf	51.50	6.1 252	Description BAROID USA MUD	ınts	Paily Cost (\$
25	70 1,700.0	Rot HL (1000lbf) PU HL (1000lbf) 118 132	51.50 f) SO HL (1000lbf) Dr 110	6.1 252 rilling Torque Off Btm Tq	Description BAROID USA MUD ENG LIVING	ints  Consumed  D	
25 /ellbores		Rot HL (1000lbf) PU HL (1000lbf	51.50 f) SO HL (1000lbf) Dr 110	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)	Description BAROID USA MUD ENG LIVING ALLOWANCE	ints  Consumed  D	
25 /ellbores lain Hole	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110	6.1 252 rilling Torque Off Btm Tq	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD	ints  Consumed  D	
25 /ellbores lain Hole irectional Surve	70 1,700.0	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE	Consumed D	1,80
25 fellbores ain Hole irectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA	Consumed D	14
25 /ellbores ain Hole /rectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN	Consumed D 4.0	1,80 23
25 /ellbores ain Hole //ecctional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA	Consumed D 4.0	1,80
25  lellbores  ain Hole  irectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA	### A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.	1,80 23 4,10
25 ellbores ain Hole rectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA	### A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.	1,80 23 4,10 3,75
25  lellbores  ain Hole  irectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA BARAZAN D PLUS BAROID USA MUD TRANSPORT BAROID USA	### A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.	1,80 23 4,10 3,75
25 ellbores ain Hole rectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA BAROID USA MUD TRANSPORT	### A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.	1,80 2; 4,10 3,75
25  lellbores  ain Hole  irectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA BARAZAN D PLUS BAROID USA MUD TRANSPORT BAROID USA QUICK GEL BAROID USA	### A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.0   A.	1,80 2; 4,10 3,75
25 ellbores ain Hole rectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA BARAZAN D PLUS BAROID USA MUD TRANSPORT BAROID USA QUICK GEL BAROID USA BARACARB 600 BAROID USA	### Consumed D	1,86 2; 4,10 3,75 5
25 ellbores ain Hole rectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA BAROID USA BAROID USA BAROID USA MUD TRANSPORT BAROID USA QUICK GEL BAROID USA BARACARB 600 BAROID USA BARACARB 150	### Annual Consumed   D	1,80 2; 4,10 3,75 51 11,41
25 ellbores ain Hole rectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA BAROID USA BAROID USA MUD TRANSPORT BAROID USA QUICK GEL BAROID USA BARACARB 600 BAROID USA BARACARB 150 BAROID USA	### Consumed D	1,80 2; 4,10 3,75 51 11,41
25 ellbores ain Hole rectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA BAROID USA BAROID USA BAROID USA MUD TRANSPORT BAROID USA QUICK GEL BAROID USA BARACARB 600 BAROID USA BARACARB 150	### Annual Consumed   D	1,80
25 ellbores ain Hole rectional Surve	70 1,700.0  Wellbore Name	Rot HL (1000lbf)   PU HL (1000lbf)     118   132	51.50 f) SO HL (1000lbf) Dr 110 90.00	6.1 252 rilling Torque Off Btm Tq  KO MD (ftKB)  300.0	Description BAROID USA MUD ENG LIVING ALLOWANCE BAROID USA MUD MAN BAROID USA CAUSTIC SODA BAROID USA BAROID USA BAROID USA MUD TRANSPORT BAROID USA QUICK GEL BAROID USA BARACARB 600 BAROID USA BARACARB 150 BAROID USA	### Annual Consumed   D	1,80 2; 4,10 3,75 51 11,41

Tali nan Energy Canada - Daily Drilli Report Page 2/2
Well Name: FORTUNA MIDDLE M. JNTAIN #21-16 Date: 12/26/2002; Report: 60.0; DFS: 60.00
Job Type: Drilling - original

Spud Date	Rig Release Date	KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)
10/28/2002		8672.00	8655.00	17.00
Daily Summary	<u> </u>			

-	Formation Pick Groups: Dr	
	Formation Picks Group	
	•	
	Drilling Sample	
Ţ	Momo	Too (RKR)

Jiming Garripic				
Top (ftKB)				
7,735.0				
5,672.0				
4,280.0				
3,073.0				
2,700.0				

Intermediate Casing, 4,413.0ftKB							
Casing Run Date	Max OD (in)	Grade	Wt (lbs/ft)				
11/26/2002	9 5/8	J-55	36.00				

Report Printed: 12/27/2002

Tali man Energy Canada - Daily Drillir 7 Report Page 1/1
Well Name: FORTUNA MIDDLE | JNTAIN #21-16 Da . 12/27/2002, Report: 61.0, DFS: 61.00

Job Type: Drilling - original

Spud Date	28/2002	Rig Release I		on (ft) 672.00	Ground Elevation ( 8655.0		round Distance (ft) 17.00	AFE No. 37511	Total AFE Am	
	ımmary							Daily Cost Total	Cum. Cost To	Date
Weather			Road Condition		Hole Co			Daily Mud Cost	Mud Additive	Cost To Date
CLEAR			Snow covered		BRIDO	SE @ 7724'		Carry Made Cost		
Operations 0600 HF	at Report 1	ime K STUCK LOGO	GING TOOL / DEPTH	1 8240' TD				Depth Start (ftKB) 8,178.0	Depth End (ft) 8,17	
Operations	This Repoi	t Period	===	OC 8 LIGIST	TO 1 OC			Depth Progress (ftKB)	Drilling Time (	
			78' - 8240' (TD) / CIF	KU & HUIST	TO LOG			0.0	0.	00
Sperations FREE L	Next Repo	TOOL / RUN I	N & CONDITION HO	LE				Ops Supervisors		
Time Lo	og .				×				ntact	
	End Time	h	Activ	ty	DEAM E/ 8	Commen ) 78' - 8178' (		Ernie Natte, Drilling		icci
00:00	01:30	1.50 03	Reaming		BTM)	370 0170 (	10 1 122 011	Mel Knezevich, Drilli		n
01:30	06:00	4.50 02	Drilling			B" HOLE F/ 8	178' - 8200'	Mark Moennich, Dril	•	
06:00	08:00	2.00 05	Condition and/or C	irculate mud	BUILD VOL	.UME		Don Helms, Mud En		
08:00	10:00	2.00 02	Drilling		DRILL 6 1/8	3" HOLE F/ 8	200' - 8214'	Randy Hackford, To	ol Pusher	
	11:00	1.00 08	Rig Repair			F PUMPS / T	HAW OUT	Bill Hedglin, Geolog	st	
			<u> </u>		SUCTION	3" HOLE F/ 8	214' 9240'	Rigs: Bill Martin Jr	3	
11:00	14:30	3.50 02	Drilling		(T.D.)	, HULE F/ 8	214 - UZ4U	Rig Supervisor John Day, Tool Pus		
14:30	15:00	0.50 07	Rig Service		RIG SERVI			Join Day, 1001 Pus	161	
15:00	20:00	5.00 06	Tripping	-		IP TO 7690'	REAM 155' TO	Rigs: Patterson U.	Г.І, 104	
					втм			Rig Supervisor	illina Mana	nor
20:00	21:00	1.00 05	Condition and/or C	irculate mud		E & CONDI	TION HOLE	Jesse Blanchard, Di	IIIIIy Ivialia	JC1
21:00	00:00	3.00 06	Tripping		HOIST TO	LOG		1, IDECO, MM-550 Pump Number Pump Ratio	on (bp) Red Di	amotor (in)
Mud Cl	necks: 8.	223.0ftKB, 12/2	27/2002 12:15					1 550.		2.5197
Туре		Date	Depth (ftKB) T(fl) (	F) D	ensity (lb/gal) V 9.7	'is (s/qt) 50	Plas Vis (cp) 17.0	Liner Size (in) Stroke (	in) V/St	tk (bbl/stk)
Gel-Che Yield Poin		12/27/2002 12:15 gel 10 sec (cp)	8,223.0 gel 10 min (cp) Filtrat	e (mL/30min) H	9.1 THP Filt (mL/30min F		MBT (lb/bbl)		5.00	0.105
8		5.0	9.0	10.2				2, IDECO, MM-550		
Lime (lb/bl	ol) l		Pm (mL/mL) Pf (ml	JmL) C	alcium (mg/L) F	otassium (mg/L)	Polymer (lb/gal)	Pump Number Pump Ratio		
		10.0	Solids (%) Perce	nt Oil (%) P	ercent Water (%) L	G Solids (%)	Electric Stab (V)	2 550.	T	2.5197
Chlorides 400		Sand (%)	5.4	111 (76)	ercent volter (70)	.0 00 (10)		Liner Size (in) Stroke (		tk (bbl/stk)
Wellbo							`		5.00	0.105
AAGUDO	162	Wellbore Name		VS Dir (°		KO MD (	fiKB) 300.0	BOPs	Nom Sz	Т
Main H					90.00		300.0	Туре	(in)	P(wkg) (psi 1 1,500.0
Direction Description		veys: SINGLE	SHOT		Survey	Company		Annular Preventers		1,500.0
	SHOT				1	son Crew		Mud Additive Amo	Unts Consumed [	Daily Cost (\$)
	T. T							BAROID USA CAUSTIC SODA	1.0	38
								BAROID USA	2.0	821
								BARAZAN D PLUS	00.0	ر خرن
								BAROID USA QUICK GEL	96.0	274
								BAROID USA	160.0	581
:								REGULAR BARITE	175.0	12,250
									.1	
								Formation Pick Group	oups: Drilli	ng Sam
								Drilling Sample		
:								Name		Top (ftKB)
								Ferron		7,735.0
								Bluegate		5,672.0
i								Emery	1	4,280.0
:								Mancos		3,073.0
i								Star Point		2,700.0
1								1.1		
								Intermediate Casir	g. 4.413.0f	tKB
								Intermediate Casir Casing Run Date Max OD 11/26/2002 9 5/8	(in) Grade	Wt (lbs/ft) 36.00

Tali man Energy Canada - Daily Drilli n Report Page 1/1
Well Name: FORTUNA MIDDLE | UNTAIN #21-16 Da. 12/27/2002, Report: 61.0, DFS: 61.00

12/15/2002

Report Printed: 12/31/2002

Job Type: Drilling - original

Spud Date 10/28/2002	Rig Release Date KB Ele	vation (ft) Gr 8672.00	ound Elevation (ft) KB-G	round Distance (ft) 17.00	AFE No. 37511	Total AFE Amt (\$)
Daily Summary					Daily Cost Total	Cum. Cost To Date
Weather CLEAR	Road Condition Snow covere	ed	Hole Condition BRIDGE @ 7724'	· · · · · ·	Daily Mud Cost	Mud Additive Cost To Date
Operations at Report Time					Depth Start (ftKB)	
Operations This Report Perio	UCK LOGGING TOOL / DEF	TH 8240' TD			8.178.0	Depth End (ftKB) 8,240.0
TRIP / DRILL 6 1/8" F	IOLE F/ 8178' - 8240' (TD) /	CIRC & HOIST TO	LOG		Depth Progress (ftKB) 62.0	Drilling Time (hrs)
Operations Next Report Period FREE LOGGING TO	od DL / RUN IN & CONDITION I	HOLE				0.00
Time Log				·····	Ops Supervisors	ontact
Start Date   End Time   Dur (f		ztivity	Comment		Arnie Hamarsnes, D	
00:00 01:30 1	.50 03 Reaming		REAM F/ 8078' - 8178' (1	10' FILL ON	Ernie Natte, Drilling	Foreman
01:30 06:00 4	50 02 Drilling		BTM)	1701 00001	Mel Knezevich, Drill	
11.	.50 02 Drilling .00 05 Condition and/or		DRILL 6 1/8" HOLE F/ 81 BUILD VOLUME	178 - 8200	Mark Moennich, Dri	•
il	.00 03 Collation and/or		DRILL 6 1/8" HOLE F/ 82	200' - 8214'	Don Helms, Mud Er	
i I :	00 08 Rig Repair		BLEED OFF PUMPS / TI		Randy Hackford, To Bill Hedglin, Geolog	
			SUCTION		.	
11:00 14:30 3.	50 02 Drilling		DRILL 6 1/8" HOLE F/ 82 (T.D.)	214' - 8240'	Rigs: Bill Martin Jr	
14:30 15:00 0.	50 07 Rig Service		RIG SERVICE		John Day, Tool Pus	her
	00 06 Tripping		WIPER TRIP TO 7690' / BTM	REAM 155' TO	Rigs: Patterson U.	Г.І, 104
20:00 21:00 1.	00 05 Condition and/or		CIRCUL;ATE & CONDIT	ION HOLE	Jesse Blanchard, Dr	rilling Manager
21:00 00:00 3.	00 06 Tripping		HOIST TO LOG	:	1, IDECO, MM-550	
	ftKB, 12/27/2002 12:15				Pump Number Pump Ratir 1 550.	
Type Date 12/27/2	Depth (ftKB) T(ft 2002 12:15 8,223.0		(lb/gal) Vis (s/qt) 9.7 50	Plas Vis (cp) 17.0	Liner Size (in) Stroke (	
Yield Point (cp) gel 10 se	ec (cp) gel 10 min (cp) Filti	ate (mL/30min) HTHP F	ilt (mL/30min Filter Cake (in)	MBT (lb/bbl)		5.00 0.105
8.0 Lime (lb/bbl) pH	5.0 9.0 Pm (mL/mL) Pf (	10.2 mL/mL) Calcium	n (mg/L) Potassium (mg/L)	Polymer (lb/gal)	2, IDECO, MM-550	on (hp)   Bod Diemeter (in)
! I	0.0		·		Pump Number Pump Ratin 2 550.	
Chlorides (mg/L) Sand (% 400.000	) Solids (%) Per 5.4	cent Oil (%) Percent	Water (%) LG Solids (%)	Electric Stab (V)	Liner Size (in) Stroke (i	in) V/Stk (bbl/stk)
Drill Strings: BHA #2			· · · · · · · · · · · · · · · · · · ·			0.105
Bit Rui Bit	IADC Bit Dull		ci Noz) (in² ROP (ft/hr Nozzles (/32		Pump Checks	
14 6 1/8in, STR-30 Len (ft) Max OD (in)	, ZT12XM String Components	2	.36 6.2 3	32/32/32	P (psi) Slow Spd	Strokes (strokes/min) Eff (%)
569.62 4.750	Hughes STR-30 , Bit Su	b, Drill Collar, Drillin	ng Jars - Hydraulic Down,	Drilling Jars -	1,700.0 <b>N</b> o	60 90
	Hydraulic Up, Drill Collar				BOPs	
Drilling Parameters:					Туре	Nom Sz (in) P(wkg) (psi)
BHA No. Depth Start 20 8,178	(ftKB) Depth End (ftKB) Cum Depth .0 8,240.0 62.0		Cum Drill Time (hit Int ROP (ft/hr) 10.00 6.2	Flow Rate (gpm)	Annular Preventers	11 1,500.0
WOB (1000lbf) RPM (rpm)			O HL (1000lbf) Drilling Torque	252 Off Btm Tg	Mud Additive Amou	ınts
25 70		132	110		Description	Consumed Daily Cost (\$)
Wellbores					BAROID USA CAUSTIC SODA	1.0 38
	lbore Name	VS Dir (*)	KO MD (ftk	(B) 300.0	BAROID USA	2.0 821
Directional Surveys:	SINGLE SHOT				BARAZAN D PLUS BAROID USA	96.0 274
Description SINGLE SHOT			Survey Company Patterson Crew		QUICK GEL	
					BAROID USA REGULAR BARITE	160.0 581
				:	BAROID N SEAL	175.0 12,250
					Formation Pick Gro	
					Formation Picks Group	ups. Diming Sam
					Drilling Sample	Top (ftKB)
					Tununk	8,200.0
				i	Ferron	7,735.0
				:	Bluegate	5,672.0
				i i	Emery	4,280.0
				: 1	Mancos	3,073.0
					Intermediate Casing Casing Run Date Max OD (in	

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Talinman Energy Canada - Daily Drillin Report Page 1/2
LE . UNTAIN #21-16 Da. ... 12/28/2002, Report: 62.0, DFS: 62.00 Well Name: FORTUNA MIDDLE . UNTAIN #21-16

Job Type: Drilling - original

Spud Date	Rig Release Date KB Eleve			nd Distance (ft)	1 '	Total AFE Amt	(\$)
10/28/2002		8672.00 865	5.00	17.00	37511 Daily Cost Total	Cum. Cost To D	Date
Daily Summary Weather	Road Condition	Hole	e Condition				
CLEAR	Snow covered		IDGE @ 7724'		Daily Mud Cost	Mud Additive C	ost To Date
Operations at Report Time	AUL OCCINC TOOLS			-	1	Depth End (ftKE	
Operations This Report Pe	N/ LOGGING TOOLS				8,240.0	8,240 Drilling Time (h	
RUN IN W/ LOGGI	IG TOOLS - STUCK @ 7724' -	FREE & HOIST TOOLS / I	RUN IN & CONDITI	ION HOLE	Depth Progress (ftKB) 0.0	0.0	
Operations Next Report Per HOIST TO LOG & L					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
					Ops Supervisors Cont		
Time Log Start Date End Time Du	r (hrs)   Code   Ad	tivity	Comment		Arnie Hamarsnes, Dri		er
00:00 02:00	2.00 06 Tripping		TO LOG / SHLUMBERGER	/ LOGGING	Mel Knezevich, Drillin Ernie Natte, Drilling F	-	
02:00 09:15	7.25 11 Wireline Logs	TOOL S	TUCK @ 7725' / A	PPLY 6500#	Mark Moennich, Drilling		
	1		N & PULL FREE /	HOIST	Don Helms, Mud Eng	•	
			NG TOOLS		Randy Hackford, Too		
09:15 10:00	0.75 06 Tripping		W/ 6 1/8" BIT & BI CUT 130' DRLG LII		Bill Hedglin, Geologis	<u>t</u>	
10:00 11:00 11:00 14:00	1.00 09 Cut/Slip Drilling L 3.00 06 Tripping		/ BREAK CIRC @		Rigs: Bill Martin Jr.,	3	
14:00 14:00	4.00 03 Reaming	WASH	& REAM F/ 8000' -	8240'	Rig Supervisor John Day, Tool Push	er.	
18:00 00:00	6.00 05 Condition and/or		ATE & CONDITION	N MUD /			
	· · · · · · · · · · · · · · · · · · ·	BUILD	VOLUME		Rigs: Patterson U.T. Rig Supervisor	i, 104	
	0.0ftKB, 12/28/2002 23:45	(°F) Density (lb/gal)	Vis (s/qt)	Plas Vis (cp)	Jesse Blanchard, Dril	ling Manage	er
Type Date Gel-Chem 12/	Depth (ftKB) T(fl) 28/2002 23:45 8,240.0	9.8	47	19.0	1, IDECO, MM-550		
Yield Point (cp) gel 1	0 sec (cp) gel 10 min (cp) Filtr	ate (mL/30min) HTHP Filt (mL/30r	min Filter Cake (in)	MBT (lb/bbl)	Pump Number Pump Rating 1 550.0		neter (in) 5197
13.0 Lime (lb/bbl) pH	5.0 9.0 Pm (mL/mL) Pf (i	9.6 mL/mL) Calcium (mg/L)	Potassium (mg/L)	Polymer (lb/gal)	Liner Size (in) Stroke (in		(bbl/stk)
Emic (lossely	10.0		e komanania.	51 1 51 40	5 15.		0.105
Chlorides (mg/L) Sand 400.000	(%) Solids (%) Per 5.2	cent Oil (%) Percent Water (%	) LG Solids (%) 1	Electric Stab (V)	2, IDECO, MM-550		
					Pump Number Pump Rating 2 550.0		neter (in) 5197
Drill Strings: BHA Bit RuiBit	IADC Bit Dull	•	ROP (ft/hr Nozzles (/32")		Liner Size (in) Stroke (in		(bbl/stk)
14 6 1/8in, STR-3		2.36	6.2	2/32/32	5 15.	-	0.105
Len (ft) Max OD 569.62 4.7	(in) String Components 50 Hughes STR-30, Bit Su	b, Drill Collar, Drilling Jars	- Hydraulic Down, D	Orilling Jars -	Pump Checks		
:	Hydraulic Up, Drill Collar				P (psi) Slow Spd	Strokes (strokes/min)	Eff (%)
Wellbores					800.0 No	45	90
Main Hole	Wellbore Name	VS Dir (*) 90.00	KO MD (fike	300.0	BOPs		
,	- CINOLE CHOT				Type	Nom Sz (in)	P(wkg) (psi)
Directional Survey	S: SINGLE SHUT		vey Company		Annular Preventers	1	1,500.0
SINGLE SHOT		Pa	tterson Crew		Mud Additive Amou	nts	
					Description	Consumed Da	ily Cost (\$) 70
					BAROID USA MUD	2.0	70
					ALLOWANCE		
					BAROID USA MUD	2.0	900
:					BAROID USA	2.0	87
				į	DESCO CHROME		
					FREE		400
					BAROID USA CAUSTIC SODA	5.0	192
: 1					BAROID USA	8.0	3,285
1				ŀ	BARAZAN D PLUS		
					BAROID N SEAL	88.0	6,160
-					BAROID USA BARACARB 150	350.0	11,207
					BAROID USA	410.0	1,488
					REGULAR BARITE		.,
.					Formation Pick Gro	une: Drillin	a Sam
					Formation Picks Group	apa. Dillilli	A 04
				[	Drilling Sample		

Drilling Sample

Report Printed: 12/31/2002

lair man Energy Canada - Daily Drillir Report Page 2/2
DEL JNTAIN #21-16 Da . 12/28/2002, Report: 62.0, DFS: \$62.00 Well Name: FORTUNA MIDDLE I

Job Type: Drilling - original

Spud Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) Rig Release Date 8655.00 10/28/2002 8672.00 17.00 Daily Summary

ূ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	West and the second second second second second second second second second second second second second second				
	Name	Top (ftKB)				
1	Tununk	8,200.0				
	Ferron	7,735.0				
	Bluegate	5,672.0				
	Emery	4,280.0				
	Mancos	3,073.0				

	Intermediate	Casing,	7,690.0ft	KB
	Casing Run Date	Max OD (in)	Grade	Wt (lbs/ft)
Ì	12/15/2002			

Job Type: Drilling - original

Well Name: FORTUNA MIDDLE . UNTAIN #21-16 Page 1/1

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12/29/2002, Report: 63.0, DFS: 63.00

Spuid Date         Rig Release Date         KB Elevation (ft)           10/28/2002         8672.00	Ground Elevation (ft) KB-Ground Distance (ft) 8655.00 17.00	AFE No. Total AFE Amt (\$) 37511
Daily Summary		Daily Cost Total Cum. Cost To Date
Veather Road Condition Clear Snow covered	Hole Condition Good to T.D.	Daily Mud Cost Mud Additive Cost To Date
perations at Report Time		
6:00 hrs Dec 30/Clean out to case.		Depth Start (ftKB) Depth End (ftKB) 8,240.0 8,240.0
perations This Report Period		Depth Progress (ftKB) Drilling Time (hrs)
rip out and log. Run in to clean out.  perations Next Report Period		0.0 0.00
Complete trip in. Clean out. Heal losses. Lay down pipe to c	ase.	Ops Supervisors
lime Log	Comment	Contact Arnie Hamarsnes, Drilling Engineer
Nart Date   End Time   Dur (hrs)   Code   Activity   Activity   O:00   O4:00   4:00   O6   Tripping	HOIST TO LOG	Mel Knezevich, Drilling Foreman
4:00 18:00 14:00 11 Wireline Logs	LOG WELL W/ SHLUMBERGER / LOG	Ernie Natte, Drilling Foreman
4.00 10.00 14.00 11 villolino 20g0	#1 - AIT-BHC-GR-CAL	Mark Moennich, Drilling Sup't
8:00 00:00 6.00 06 Tripping	Trip in to the shoe and break circulation	Don Helms, Mud Engineer
	at 4000 ft and at the shoe.	Randy Hackford, Tool Pusher
orill Strings: BHA #20, Slick		Bill Hedglin, Geologist
it RulBit IADC Bit Dull 14 6 1/8in, STR-30 , ZT12XM	TFA (incl Noz) (in <sup>2</sup> ROP (ft/hr(Nozzles (/32") 2.36 6.2 32/32/32	Rigs: Bill Martin Jr., 3
en (ft) Max OD (in) String Components		Rig Supervisor John Day, Tool Pusher
569.62 4.750 Hughes STR-30 , Bit Sub, Drill Co Hydraulic Up, Drill Collar	ollar, Drilling Jars - Hydraulic Down, Drilling Jars -	
		Rigs: Patterson U.T.I, 104 Rig Supervisor
Drilling Parameters: 0.0ftKB  HA No. Depth Start (ftKB): Depth End (ftKB): Cum Depth (ftKB): Drill	Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm)	Jesse Blanchard, Drilling Manager
20 8,240.0 8,240.0 62.0	10.00 125	1, IDECO, MM-550
/OB (1000lbf) RPM (rpm) SPP (psi) Rot HL (1000lbf) PU HL 0 30 430.0 118	(1000lbf) SO HL (1000lbf) Drilling Torque Off Btm Tq 132 110	Pump Number Pump Rating (hp) Rod Diameter (in) 1 550.0 2.5197
Vellbores	110	Liner Size (in) Stroke (in) V/Stk (bbl/stk)
Wellbore Name V	S Dir (*) KO MD (ftKB) 90.00 300.0	5 15.00 0.105
Main Hole	90.00	2, IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in)
Directional Surveys: SINGLE SHOT	Survey Company	2 550.0 2.5197
SINGLE SHOT	Patterson Crew	Liner Size (in) Stroke (in) V/Stk (bbl/stk)
		5 15.00 0.105
		BOPs
		Nom Sz Type (in) P(wkg) (ps
		Annular Preventers 11 1,500.
		Mud Additive Amounts
		Description Consumed Daily Cost (\$) BAROID USA 1.0 3
		BAROID USA 1.0 3 CAUSTIC SODA
		BAROID USA 8.0 3,28
		BARAZAN D PLUS
		BAROID N SEAL 75.0 5,25
		BAROID USA 96.0 34 REGULAR BARITE
		BAROID USA 114.0 32
		QUICK GEL
		BAROID USA 307.0 9,83 BARACARB 150
		Formation Pick Groups: Drilling Sam Formation Picks Group
		Drilling Sample
		Name         Top (ftKB)           Tununk         8,200.
		Ferron 7,735.
		Bluegate 5,672.
		Emery 4,280.
		Mancos 3,073.
		5,010.

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Well Name: FORTUNA MIDDLE . UNTAIN #21-16 Daw: 12/30/2002, Report: 64.0, DFS: 64.00

Job Type: Drilling - original

Spud Date		Rig Release		Ground Elevation (ft) KB-Ground Distance (ft)	!!!!!	otal AFE Amt (\$)
	/28/2002		8672.00	8655.00 17.00	37511 Daily Cost Total Cu	um. Cost To Date
Daily S	ummary			ng mengangan kalangan di kacamatan di kacamatan di kacamatan di kacamatan di kacamatan di kacamatan di kacamat	Daily Cost Total	im. Cost to Date
Veather			Road Condition	Hole Condition	Daily Mud Cost Me	ud Additive Cost To Date
Clear			Snow covered	Good to T.D.		
	at Report Ti		from 7780 ft		Depth Start (ftKB) De	epth End (ftKB)
	This Report	/ Wash casing	IIOIII 7700 IL.		8,240.0	8,240.0
rip in a	nd clean	out to case. Ci	rc and heal losses. Trip out laying d	own pipe and collars. Rig up casers and run	Depth Progress (ftKB) Dr	illing Time (hrs) 0.00
perations	Next Report	Period			Ops Supervisors	
omple	te running	casing, circula	ate and cement casing. Set slips an	d tear out rig.	Contac	<del>*************************************</del>
ime Lo	<b>7</b> 0				Arnie Hamarsnes, Drilli	
tart Date	End Time	Dur (hrs) Code	Activity	Comment	Ernie Natte, Drilling For	
0:00	03:30	3.50 05	Condition and/or Circulate mud	Circulate at the shoe. Condition mud to control losses.	Mel Knezevich, Drilling Mark Moennich, Drilling	
3:30	04:00	0.50 06	Tripping	Trip in to bottom. No problems with the hole.	Don Helms, Mud Engin Randy Hackford, Tool f	
04:00	12:15	8.25 05	Condition and/or Circulate mud	Circulate and condition mud. Control losses.	Bill Hedglin, Geologist	
12:15	20:00	7.75 06	Tripping	Lay down 3 1/2 drill string.	Rigs: Bill Martin Jr., 3	
	00:00	4.00 12	Run Casing & Cement	Rig in casers and run 4 1/2 casing.	Rig Supervisor John Day, Tool Pusher	
Vellbo	res	Wellbore Name	VS Dir (°)	KO MD (ftKB)	Rigs: Patterson U.T.I,	104
Main Ho	ole	TTCIIDOTC TTUINC		90.00 300.0	Rig Supervisor Jesse Blanchard, Drillir	ng Manager
		eys: SINGLE	<b>ВНОТ</b>	O Oan		
Description				Survey Company	1, IDECO, MM-550 Pump Number : Pump Rating (h	no) (Rod Diameter (in)
SINGLE	SHOT			Patterson Crew	1 550.0	2.5197
					Liner Size (in) Stroke (in) 5 15.00	V/Stk (bbl/stk) 0 0.105
						0.105
					2, IDECO, MM-550 Pump Number Pump Rating (h	np) iRod Diameter (in)
					2 550.0	2.5197
					Liner Size (in) Stroke (in) 5 15.00	V/Stk (bbl/stk) 0.105
					BOPs	
					BOFS	Nom Sz
					Туре	(in) P(wkg) (psi
					Annular Preventers	11 1,500.0
					Mud Additive Amount	8
						onsumed Daily Cost (\$)
					BAROID USA BARAZAN D PLUS	9.0 3,696
					BAROID USA QUICK GEL	12.0 34
					BAROID USA BARACARB 50	164.0 5,25
					BAROID USA REGULAR BARITE	219.0 795
					BAROID USA BARACARB 600	411.0 12,186
						a. Drilling Com
					Formation Pick Group Formation Picks Group Drilling Sample	is. Drining Sain
					Name	Top (ftKB)
					Tununk	8,200.0
					Ferron	7,735.0
					Bluegate	5,672.0
					Emery	4,280.0
					Mancos	3,073.0
					Intermediate Casing,	7 EGN NHKR

Well Name: FORTUNA MIDDLE /UNTAIN #21-16 Day: 12/31/2002, Report: 65.0, DFS: 65.00 Page 1/2

Report Printed: 12/31/2002

Job Type: Drilling - original

	/28/2002 ummary	Rig Release	Date KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	KB-Ground Distance (ft) 17.00	AFE No. 37511 Daily Cost Total	Total AFE An	
Veather Heavy s Departions 06:00 h Departions Run cas well hea	snow s at Report 1 rs Jan 01 s This Report 1 sing. Circ ad and te	, 03 Tear out ri t Period ulate tight hole ar out rig	Road Condition Snow covered  g.  from 7780 ft to bottom. Circ casin	Hole Condition Cased g and cement. Set slips	s, cut casing, install	Depth Start (ftKB) 8,240.0 Depth Progress (ftKB) 0.0	Drilling Time	KB) 40.0
	s Next Repo It rig to m					Ops Supervisors	tact	
Time Lo	og	Dur (hrs)   Code 9.00 12	Activity Run Casing & Cement	Run casing to 7780 and circulate bridg progress until 07:0 Schlumberger cento lay down casing move down hole. C	0 hrs. Released nent ers and prep lease when it started to	Arnie Hamarsnes, Con Ernie Natte, Drilling F Mel Knezevich, Drillin Mark Moennich, Drillin Don Helms, Mud Eng Randy Hackford, Too Bill Hedglin, Geologis	illing Engir oreman ig Forema ng Sup't ineer I Pusher	
09:00	12:30	3.50 05	Condition and/or Circulate mud		oosing 40 bbls per I. 50 funnel visc and	Rigs: Bill Martin Jr., Rig Supervisor John Day, Tool Push		
				9.7 ppg weight. Th circulating the tank Mixed Baracor 700		Rigs: Patterson U.T. Rig Supervisor Jesse Blanchard, Dril		ger
12:30	14·00	1.50 12	Run Casing & Cement	bbls of circulation.	ood returns except for	1, IDECO, MM-550 Pump Number Pump Rating 1 550.0		ameter (in) 2.5197
2.50		1	, and outside a comment	the last 10 bbls of casing became stu stopped. The press	displacement. The lick and circulation sure rose slow and	Liner Size (in) Stroke (in 5 15.	-	tk (bbl/stk) 0.105
				steady for the last surface. Dowell did down during this jo		2, IDECO, MM-550 Pump Number Pump Rating 2 550.0	2	2.5197
14:00	00:00	10.00 00	Undefined Status	off the casing. Ren		Liner Size (in) Stroke (in 5 15.  BOPs  Type  Annular Preventers		P(wkg) (ps
<b>Wellb</b> o Main He		Wellbore Name	VS Dir (*	90.00 K	O MD (fiKB) 300.0	Mud Additive Amou Description BAROID USA QUICK GEL	nts Consumed [ -226.0	Daily Cost (\$ -64
Descriptio		veys: SINGLE	SHOT	Survey Company Patterson Cre	∋w	BAROID USA BARO SEAL MEDIUM	-125.0	-1,75
						BAROID USA CAUSTIC SODA	-8.0	-30
						BAROID USA BARA DEFOAM	-3.0	-34
						BAROID USA BARACAT BAROID USA	-1.0 1.0	-8 5
						ALUMINIUM STEARATE		
						BAROID USA SAPP BAROID USA	2.0	1,76
						BARACOR 700 BAROID USA MUD	2.0	90
						MAN BAROID USA DESCO CHROME FREE	2.0	8

וואי האחר בחפרקע Canada - Daily Drill ק Report Page 2/2
Well Name: FORTUNA MIDDLE UNTAIN #21-16 D. : 12/31/2002; Report: 65.0, DFS: 65.00
Job Type: Drilling - original

KB-Ground Distance (ft) KB Elevation (ft) Ground Elevation (ft) Rig Release Date Spud Date 17.00 10/28/2002 8672.00 8655.00 Daily Summary

Carlot Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the		Stratigican lact
Mud Additive Amou	nts	na kalendari (p. 1877) 1985 ay ay ay ay ay ay
Description	Consumed	Daily Cost (\$)
BAROID USA MUD ENG LIVING ALLOWANCE	4.0	140
BAROID USA FUMARIC ACID	5.0	320
BAROID USA BARO SEAL COURSE	10.0	140
BAROID USA BARAZAN D PLUS	37.0	15,194
BAROID USA COTTONSEED HULLS	40.0	638
BAROID USA SAWDUST	60.0	285
BAROID USA BARACARB 150	74.0	2,369
BAROID USA MUD TRANSPORT	108.0	8,100
BAROID USA REGULAR BARITE	135.0	490
BAROID USA BARACARB 600	170.0	5,041
BAROID USA BARACARB 50	268.0	8,581
BAROID USA MAGMA FIBER	305.0	21,301
BAROID USA BARACARB 150	322.0	10,310

Formation Pick Groups: Drilling Sam... Formation Picks Group

Drilling Sample

Name	Top (ftKB)
Tununk	8,200.0
Ferron	7,735.0
Bluegate	5,672.0
Emery	4,280.0
Mancos	3,073.0

Production Casing, 8,240.0ftKB Wt (lbs/ft) Casing Run Date Max OD (in) Grade 12/31/2002 4 1/2 P-110 13.50

SUNDRY NOTICE  Do not use this form for proposals to Use "APPLICATION	ED STATES  ALL, IT OF THE INTERIOR DE LAND MANAGEMENT  S AND REPORTS ON WELLS De drill or to deepen or reentry to a different reservoir. FOR PERMIT—" for such proposals	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No. UTU-77263  6. If Indian, Allottee or Tribe Name N/A  7. If Unit or CA, Agreement Designation N/A
Oil X Gas  2. Name of Operator		8. Well Name and No.  Middle Mountain #21-16
Fortuna (US), Inc.		9. API Well No. 43-015-30426
	SW, Calgary, Alberta T2P5C5 403-237	-1163 10. Field and Pool, or Exploratory Area Wildcat
Location of Well (Footage, Sec.,T., R:, M., or S 1309' FSL, 834' FEL SE/4 SE/4, Section 21, T16		11. County or Parish, State  Emery County, Utah
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, I	REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE	E OF ACTION
directionally drilled, give subsurface locations and m	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Production Casing and Cement Reports  early state all pertinent details, and give pertinent dates, inclueasured and true vertical depths for all markers and zones percoduction Casing and Cement Reports	
		RECEIVED  JAN 9.7.2003  DIV. OF OIL, GAS & MINING
		FILE COPY
14. I hereby certify that the foregoing is true and com- Signed Don Hamilton Don Hamilton T	itle <u>Agent for Fortuna US</u> Date	January 2, 2003
(This space for Federal or State office use)		
Approved by Title Conditions of approval, if any:	Date	

Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

KB Elevation (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	1016	
8672.00	8655.00	8655.00	47.00	• • • • • • • • • • • • • • • • • • • •	Spud Date	Rig Release Date
0072.00	0000.00	0055.00	17.00	17.00	10/28/2002	12/31/2002
	The property of the second of the second	Control Mary Control Control (1984) The Control Control	Market Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	·		12/01/2002

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Size (in)	Top (ftKB)	Btm (ftKB)
17 1/2	0.0	1,125
12 1/4	1,125.0	4,421
8 3/4	4,421.0	7,690
6 1/4	7,690.0	7,745
6 1/8	7,745.0	8,240

Casing Description Production Casing					Casin	g Run Da	ite 12/31/200	2	Casing Shoe	Set Depth (ftKB) 8.240.0	Wellbore Name	Main Hole	200
Item Des	OD (in)	Wt (lbs/ft)	Grade	Drift (in)	Top Thread	Jts	Len (ft)	Top (ftKB)	Mk-up Tq (ft-lbs)	Make			
Stick up	4 1/2	13.50	P-110	<u> </u>	LT&C	1	3.00	3.2	(1.27)	IVIANO	Model	Max OD (in)	ID (in)
Casing Joints	4 1/2	13.50	P-110	3.795	LT&C	188		6.2	3660				3.9
loat Collar	4 1/2	13.50	P-110		LT&C	1	1.20	8,193.2	3660				3.9
asing Joints	4 1/2	13.50	P-110	3 795	LT&C	1	44.06	8,194.4	3660				3.9
loat Shoe	4 1/2		P-110	0.100	LT&C	+ ;	1.50		3660				3.92

Report Printed: 12/31/200

## ealisman Energy Canada - Casing String Summary Well Name: FORTUNA MIDDLE ( JNTAIN #21-16

KB Elevation (ft) Ground Ele		ec. 21, T16S - R6E Middle Mountain vation (ft) Casing Flange Elevation (ft)			V	peration Group Vestern oud Date		015-30426 Release Date	State/Province Utah Current Well Status Potential Gas			
	8672.00		8655.00		8655.00		10/28/2002		12/31/20			
Cas Casin	ing: Surface Casing g Shoe Set Depth (ffKB) 1,080.0	g, 1,080. Set	Off.KB Tension (lbf) 60,000.0	Su	ring Max Nomin 13 3/	al OD (III)	String Drift Min (in) 12.559	1 a	entralizers 0 ft above s bove float c , 500 ft, 400 pp 2 joints.	hoe, 10 ft ollar, 600	1	
												Collapse Pre (psi)
Jts	Item Des		OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top Thread	Top (ftKB) 16.3	8tm (ftKB) 1,034.3	Len (ft) 1018.03	(psi) 1,725.9	740.
	Casing Joints		13 3/8	12.717	48.00		ST&C 13 3/8	1.034.3	1 1	1.15		140
	Float Collar		13 3/8	12.717 12.717	48.00 48.00		ST&C	1,035.5		42.95		740
1	Casing Joints		13 3/8 13 3/8	12.717	48.00		13 3/8	1.078.4	1.080.0	1.57		
. 4 12.5	Float Shoe	en Markinion	13 3/0	74.7 (1) Vyl. (1) (1) (1) (1)	arana ahasayes	Warring &	organización de la contrata	9	Constant All day			
	ing: Intermediate C				是"大学"的 <del>"</del>	w is spirit in		300	anagy Sections	ng berufung Mesan, dabi s Kilopada pada salah salah	. 6	ing see the second
asin	ng Shoe Set Depth (flKB) 4,413.0	Se	Tension (lbf) 144,000.0	1	ring Max Nomin 9 5/8		String Drift Min (in) 8.765	1 a 1	entralizers 0 ft above s bove float o 0 collars an rd collar to	ollar, next d every	Scratchers None	
									T		Burst Pres.	Collapse Pre
Jts	Item Des		OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)	(psi)	(psi)
	Casing Joints		9 5/8	8.921			ST&C	-4.4		962.18		2,019
1	Casing Pup Joint		9 5/8	8.921		177	ST&C	957.7	1			
1	Stage Collar		9 5/8	8.921		1	ST&C	966.8				2.010
77	Casing Joints		9 5/8	8.921			ST&C	969.6				2,019
1	Float Collar		9 5/8	8.921			ST&C	4,365.2		1.20	1	2.010
1	Casing Joints		9 5/8	8.921		1	ST&C	4,366.4		45.13		2,019
_	Float Shoe		9 5/8	8.921	36.00	J-55	ST&C	4,411.5	4,413.0	1.46		
Cas	sing: Intermediate C ng Shoe Set Depth (ftKB) 7,690.0	Casing, 7	<b>,690.0ftKB</b> t Tension (lbf) 170,000.0	1	tring Max Nomir 7		String Drift Min (in) 6.151	1	entralizers 0 ft above t	he shoe.	Scratchers None	
Cas	sing: Intermediate C ng Shoe Set Depth (ftKB)	Casing, 7	,690.0ftKB t Tension (lbf)	1	-			1 1 E	entralizers	he shoe he collar. to 500 ft	None	
Cas	sing: Intermediate C ng Shoe Set Depth (ftKB)	Casing, 7	,690.0ftKB t Tension (lbf)	1	7	al OD (in)	6.151	1 1 1 E	entralizers 0 ft above t 0 ft above t every collar nside the 9	he shoe. he collar. to 500 ft 5/8 casing.	None  Burst Pres.	
C <b>as</b> Casir	sing: Intermediate ( ng Shoe Set Depth (ftKB) 7,690.0	Casing, 7	,690.0ftKB t Tension (lbf)	D (in)	7 Wt (lbs/ft)	al OD (in)	6.151	Top (ftKB)	entralizers 0 ft above t 0 ft above t Every collar nside the 9 Btm (ftKB)	he shoe. he collar. to 500 ft 5/8 casing.	None Burst Pres. (psi)	(psi)
Casir Casir Jts 166	sing: Intermediate ( ng Shoe Set Depth (ftKB) 7,690.0  ftem Des Casing Joints	Casing, 7	690.0ftKB t Tension (lbf) 170,000.0 OD (in)	ID (in) 6.276	7 Wt (fbs/ft) 26.00	Grade	6.151  Top Thread  LT&C	Top (ftKB)	entralizers 0 ft above t 0 ft above t Every collar nside the 9  Btm (ftKB) 7,176.5	he shoe. he collar. to 500 ft 5/8 casing.	Burst Pres. (psi) 4,974.8	(psi) 4,319
Cas Casir Jts 166	ing: Intermediate Cong Shoe Set Depth (ftKB) 7,690.0  ftem Des Casing Joints Casing Joints	Casing, 7	OD (in)	ID (in) 6.276 6.276	7 Wt (lbs/ft) 26.00 26.00	Grade J-55 N-80	6.151  Top Thread  LT&C  LT&C	Top (fiKB) -3.4 7,176.5	entralizers 0 ft above t 0 ft above t Every collar nside the 9 Btm (ftKB) 7,176.5 7,650.1	he shoe. he collar. to 500 ft 5/8 casing. Len (ft) 7179.98 473.53	Burst Pres. (psi) 4,974.8 7,237.4	(psi) 4,319 5,410
Jts 166	tem Des Casing Joints Casing Joints Float Collar	Casing, 7	OD (in)	ID (in) 6.276 6.276 6.276	7 Wt (lbs/ft) 26.00 26.00 26.00	Grade J-55 N-80 N-80	6.151  Top Thread  LT&C  LT&C  LT&C  LT&C	Top (ftKB) -3.4 7,176.5 7,650.1	entralizers 0 ft above t 0 ft above t Every collar nside the 9  Btm (ftKB) 7,176.5 7,650.1 7,651.2	he shoe. he collar. to 500 ft 5/8 casing. Len (ft) 7179.98 473.53	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4	(psi) 4,319 5,410 5,410
Jts 166	Item Des Casing Joints Casing Joints Casing Joints Casing Joints Casing Joints Casing Joints	Casing, 7	OD (in)	ID (in) 6.276 6.276 6.276 6.276	7 Wt (lbs/ft) 26.00 26.00 26.00 26.00	Grade J-55 N-80 N-80 N-80	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C	Top (fiKB) -3.4 7,176.5	entralizers 0 ft above t 0 ft above t every collar nside the 9  Btm (ftKB) 7,176.5 7,650.1 7,651.2 7,688.9	he shoe. he collar. to 500 ft 5/8 casing. Len (ft) 7179.98 473.53 1.14 37.68	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4	(psi) 4,319 5,410 5,410 5,410
Jts 166	tem Des Casing Joints Casing Joints Float Collar	Casing, 7	OD (in)	ID (in) 6.276 6.276 6.276	7 Wt (lbs/ft) 26.00 26.00 26.00	Grade J-55 N-80 N-80 N-80	6.151  Top Thread  LT&C  LT&C  LT&C  LT&C	Top (ffKB) -3.4 7,176.5 7,650.1 7,651.2	entralizers 0 ft above t 0 ft above t every collar nside the 9  Btm (ftKB) 7,176.5 7,650.1 7,651.2 7,688.9	he shoe. he collar. to 500 ft 5/8 casing. 7179.98 473.53 1.14 37.68 1.12	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4	(psi) 4,319 5,410 5,410 5,410
Jts 166 12	tem Des Casing Joints Casing Joints Float Collar Casing Joints Float Shoe	Casing, 7	OD (in)  OD (in)  7 7 7 7 240.07tkB	ID (in) 6.276 6.276 6.276 6.276 6.276	7 Wt (lbs/ft) 26.00 26.00 26.00 26.00	Grade J-55 N-80 N-80 N-80 N-80	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Top (ffKB) -3.4 7,176.5 7,650.1 7,651.2 7,688.5	entralizers 0 ft above t 0 ft above t very collar nside the 9    Btm (ftKB)	he shoe. he collar. to 500 ft 5/8 casing. Len (ft) 7179.98 473.53 1.14 37.68	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4	(psi) 4,319 5,410 5,410 5,410
Jts 166 12	Item Des Casing Joints Casing Joints Casing Joints Casing Joints Casing Joints Casing Joints	Casing, 7	OD (in)  OD (in)  7 7 7 7 7	ID (in) 6.276 6.276 6.276 6.276 6.276	7 Wt (lbs/ft) 26.00 26.00 26.00 26.00	Grade J-55 N-80 N-80 N-80 N-80	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C	Top (fik/B) -3.4 7,176.5 7,650.1 7,651.2 7,688.9	entralizers 0 ft above t 0 ft above t every collar nside the 9  Btm (ftKB) 7,176.5 7,650.1 7,651.2 7,688.9	he shoe. he collar. to 500 ft 5/8 casing. Len (ft) 7179.98 473.53 1.14 37.68 1.12	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4	4,319
Jts 166 12	tem Des Casing Joints Casing Joints Float Collar Casing Joints Float Shoe Sing: Production Cang Shoe Set Depth (ftKB)	Casing, 7	OD (in)  OD (in)  7 7 7 7 7 249.0ftKB	ID (in) 6.276 6.276 6.276 6.276 6.276	7 Wt (libs/ft) 26.00 26.00 26.00 26.00 26.00 tring Max Nomir 4 1/	Grade J-55 N-80 N-80 N-80 N-80 2	Top Thread  LT&C  LT&C  LT&C  LT&C  LT&C  String Drift Min (in)  3.795	Top (fitKB) -3.4 7,176.5 7,650.1 7,651.2 7,688.5	entralizers 0 ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft above to ft a	he shoe. he collar. to 500 ft 5/8 casing. Len (ft) 7179.98 473.53 1.14 37.68 1.12 the shoe. he collar. to the 7" 2nd 1000'	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4 Scratchers None	(psi) 4,319 5,410 5,410 5,410
Jts 166 12 Casiii	tem Des  tem Des  Casing Joints Casing Joints Casing Joints Float Collar Casing Joints Float Shoe  Sing: Production Casing Joints Float Shoe  sing: Production Casing Joints Float Shoe  Item Des	Casing, 7	OD (in)  OD (in)  OD (in)  OD (in)  OD (in)  OD (in)  OD (in)  OD (in)  OD (in)	ID (in) 6.276 6.276 6.276 6.276 6.276	7 Wt (libs/ft) 26.00 26.00 26.00 26.00 26.00 tring Max Nomir 4 1/	Grade J-55 N-80 N-80 N-80 N-80 2	Top Thread LT&C LT&C LT&C LT&C LT&C String Drift Min (in) 3.795	Top (ftKB) -3.4 7,176.5 7,650.1 7,651.2 7,688.9	entralizers 0 ft above to ft above to every collar reside the 9  Btm (ftKB) 7,176.5 7,650.1 7,651.2 7,688.9 7,690.0 7,690.0 7,690.0 7,690.0 8 8 8 9 7,690.0 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	he shoe. he collar. to 500 ft 5/8 casing.  Len (ft) 7179.98 473.53 1.14 37.68 1.12  the shoe. the collar. to the 7" 2nd 1000'	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4 Scratchers None  Burst Pres. (psi)	(psi) 4,319 5,410 5,410 5,410
Jts 166 12 Casin	tem Des Casing Joints Casing Joints Casing Joints Float Collar Casing Joints Float Shoe Sing: Production Casing Joints Float Shoe Sing: Production Casing Joints Float Shoe Sing: Production Casing Joints Float Shoe Stick up	Casing, 7	OD (in)  OD (in)  OD (in)  OD (in)  OD (in)  7  7  7  7  7  1  115,000.	ID (in) 6.276 6.276 6.276 6.276 6.276 0 S	7 Wt (lbs/ft) 26.00 26.00 26.00 26.00 26.00 tring Max Nomir 4 1/	Grade J-55 N-80 N-80 N-80 N-80 2 Grade	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C  Top Thread LT&C  Top Thread LT&C	Top (ftKB) -3.4 7,176.5 7,650.1 7,651.2 7,688.9	entralizers 0 ft above to ft above to every collar reside the 9  Btm (ftKB) 7,176.5 7,650.1 7,651.2 7,688.9 7,690.0  entralizers 0 ft above to ft above to ft above to every collar shoe. Every nside.	he shoe. he collar. to 500 ft 5/8 casing.  Len (ft) 7179.98 473.53 1.14 37.68 1.12  the shoe. the collar. to the 7" 2nd 1000'  Len (ft) 3.00	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4 Scratchers None  Burst Pres. (psi)	(psi) 4,319 5,410 5,410 5,410 5,410
Jts 166 12 1 Casi	tem Des Casing Joints Casing Joints Float Collar Casing Joints Float Shoe  Sing: Production Casing Joints Float Shoe  Sing: Production Casing Joints Float Shoe  Sing: Production Casing Shoe Set Depth (fikB) 8,240.0	Casing, 7	OD (in)  OD (in)  OD (in)  7 7 7 7 7 240:0ftKB at Tension (lbf) 115,000.	ID (in) 6.276 6.276 6.276 6.276 6.276 0 S	7 Wt (lbs/ft) 26.00 26.00 26.00 26.00 26.00 4 1/	Grade J-55 N-80 N-80 N-80 N-80 2 Grade	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Top (ftKB) -3.4 7,176.5 7,650.1 7,651.2 7,688.9	entralizers 0 ft above to ft above to every collar reside the 9  Btm (ftKB) 7,176.5 7,650.1 7,651.2 7,688.9 7,690.0 7,690.0 7,690.0 7,690.0 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	he shoe. he collar. to 500 ft 5/8 casing.  Len (ft) 7179.98 473.53 1.14 37.68 1.12  the shoe. the collar. to the 7" 2nd 1000'  Len (ft) 3.00 8187.00	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4 Scratchers None  Burst Pres. (psi)	(psi) 4,319 5,410 5,410 5,410
Jts 1666 122 1 Jts Casil 1888 1	tem Des Casing Joints Casing Joints Casing Joints Float Collar Casing Joints Float Shoe  Sing: Production Casing Joints Float Shoe  ttem Des Sing: Production Casing Joints Stock Set Depth (fikB) 8,240.0	Casing, 7	OD (in)  OD (in)  OD (in)  7 7 7 7 7 240:0ftKB at Tension (lbf) 115,000.	ID (in) 6.276 6.276 6.276 6.276 6.276 0 S 0 ID (in) 3.921 3.921 3.921	7  Wt (libs/ft) 26.00 26.00 26.00 26.00 26.00  tring Max Nomir 4 1/	Grade J-55 N-80 N-80 N-80 N-80 P-110 P-110 P-110	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Top (ftKB) -3.4 7,176.5 7,650.1 7,651.2 7,688.9	entralizers 0 ft above to ft above to every collar reside the 9  Btm (ftKB) 7,176.5 7,650.1 7,651.2 7,688.9 7,690.0 7,690.0 7,690.0 8th (ftKB) 6.2 8,193.2 8,194.4	he shoe. he collar. to 500 ft 5/8 casing.  Len (ft) 7179.98 473.53 1.14 37.68 1.12  the shoe. the collar. to the 7" 2nd 1000'  Len (ft) 3.00 8187.00 1.20	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4 Scratchers None  Burst Pres. (psi)	(psi) 4,319 5,410 5,410 5,410 5,410 10,680
Jts 166 12 1 Casin 188 1 188 1 1	tem Des Casing Joints Casing Joints Float Collar Casing Joints Float Shoe  Sing: Production Casing Joints Float Shoe  Sing: Production Casing Joints Float Shoe  Sing: Production Casing Shoe Set Depth (fikB) 8,240.0	Casing, 7	OD (in)  OD (in)  OD (in)  7 7 7 7 7 240:0ftKB at Tension (lbf) 115,000.	ID (in) 6.276 6.276 6.276 6.276 6.276 0 S	7  Wt (libs/ft) 26.00 26.00 26.00 26.00 26.00  tring Max Nomir 4 1/  Wt (libs/ft) 13.50 13.50 13.50	Grade J-55 N-80 N-80 N-80 N-80 2 Grade	Top Thread LT&C LT&C LT&C LT&C LT&C LT&C LT&C LT&C	Top (ftKB) -3.4 7,176.5 7,650.1 7,651.2 7,688.9	entralizers 0 ft above to ft above to every collar r,650.1 7,650.1 7,651.2 7,688.9 7,690.0 entralizers 0 ft above to ft above to ft above to ft above to every collar shoe. Every nside.    Btm (ftKB)	he shoe. he collar. to 500 ft 5/8 casing.  Len (ft) 7179.98 473.53 1.14 37.68 1.12  the shoe. the collar. to the 7" 2nd 1000'  Len (ft) 3.00 8187.00 1.20 44.06	Burst Pres. (psi) 4,974.8 7,237.4 7,237.4 7,237.4 Scratchers None  Burst Pres. (psi) 12,415.2	(psi) 4,319 5,410 5,410 5,410 5,410

Report Printed: 12/31/2002

Well Name: FORTUNA MIDDLE! JNTAIN #21-16

KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	Casing Flange 8655	Elevation (ft)   KE		Distance (ft) 7.00	KB-CF (ft)		Date 10/28/2002		ig Release Date 12/31/2002
	🍇 karang garagkatan s				The State			San Aldrey		
Cement Details			Parting the Parties	drivinal4	14.40.00	Ben and the second	PARTANE AND A	*****	77.97.57.1-114	n Salada an an an an an an
Cementing Start Date		enting End Date	Date String					Wellbore Name		
12/31/2002 1 Comment	2:30	12/31/2002 1	4:00	Produc	tion Casing,	8,240.0ftKB			M	ain Hole
	wall Schlumbaraa	r. Cood roturns o	vaant far tha	I==4 10 I	-bl- Ci	h + +			D	
No problems with Dov	wen Schlumberge at surface	i. Good returns e	xcept for the	iast 101	bbis. Casing	became stud	ck and circulat	ion stopped.	Plug bi	imped, floats held
Cement Stages: 1, 3		<b>'</b> D								<del></del>
Description	,420.0-0,240.UILN	<u> </u>	Objective/Purpo				·· · · · · · · · · · · · · · · · · ·	Sement Too loter	val (ftKR)	Cement Bottom Interval
Production Casing			Production					3.428.0		8.240.0
Top Plug? Bo	ottom Plug?	Q(start) (bbl/min)	Q(end) (bbl/m	_	Q(avg) (bbl/mi	n) P(fine	al) (psi)	P(bump) (psi)		Cmnt Rtrn (bbl)
Yes	No	5	5		5		1,250.0	2,000		0.0
Pipe Reciprocated?		Reciprocation Stroke L	ength (ft)		Pipe Rotated?			Pipe RPM (rpr	n)	!
Yes			6.00							
Depth Tagged (ftKB)	:	Tag Method			Depth Plug Dr	lled Out To (ftKB	()	Drill out diame	ter (in)	
Cement Fluids: 1, Pr	reflush		**		<del></del>	<del>7</del>				
Fluid Type	Fluid Description	Ceme	ent Amount (sacks	s)	Cement Class		Volume Pumpe	d (bbl)	Yield (f	t³/sack)
Preflush					!			0.0		,
Mix H20 Ratio (gal/sack)	ix H20 Ratio (gal/sack) Free Water (%)		Density (lb/gal)		Plastic Viscosity (cp)		Thickening Time (hrs)		1st Compressive Strength (psi	
			8.3						i	
Cement Fluids: 2, Le						* .				
Fluid Type	Fluid Description	Ceme	nt Amount (sacks	<del>)</del>	Cement Class		Volume Pumpe		Yield (fi	³/sack)
Lead	- 777 11 444	· · · · · · · · · · · · · · · · · · ·				G	20.0		10.20	
Mix H20 Ratio (gal/sack) 73.00	Free Water (%)	Densi	ty (lb/gal) 10.0		Plastic Viscosity (cp)		Thickening Time	e (hrs)	1st Con	npressive Strength (psi)
Cement Fluid Additiv										
	Add			уре		Amt	Amt Un	it	Conc	Conc Unit
D020		Bentonite					0.0 lb			2.0 %
D907		G Cemen	t			1	1.0 sx	:		98.0   %
Cement Fluids: 3, Ta		*** *							*	
Fluid Type Tail	Fluid Description	:Ceme	nt Amount (sacks	)	Cement Class	•	Volume Pumped	• •	Yield (ft	·
Mix H20 Ratio (gal/sack)	Free Water (%)	Deni	200		i .	G		2.0		1.73
8.10	Free Water (%)	Densil	ty (lb/gal) 14.0		Plastic Viscosit	/ (cp)	Thickening Time	e (hrs) .50	1st Com	pressive Strength (psi)
Cement Fluid Additiv									***************************************	
· · · · · · · · · · · · · · · · · · ·	Add	0.00	Ty	фе		Amt	Amt Un	t i	Conc	Conc Unit
S001		CaCl2					8.0 lb			1.0 %
D8004A-G		G Cemen	=			-	0.0 sx			92.7 %
D42		KOLITE L					5.0 lb			5.3 %
D35-CF		LITEPOZ	3 Extender				3.0 cu. ft.			1.0 %

034



P.O. Box 1230 195 North 100 West Huntington, Utah 84528 Phone: 435-687-5310 Cell: 435-650-1886 Fax: 435-687-5311 Email: talon@etv.net

January 8, 2003

Mr. Eric Jones
Petroleum Engineer
Bureau of Land Management
82 East Dogwood
Moab, Utah 84532

RE: Sundry Notice (Initial Site Clean-up)
—Fortuna (US), Inc.

Middle Mountain #21-16— 1,309' FSL, 834' FEL
Section 21, T16S, R6E, SLB&M, Emery County, Utah

43-015-30426

Dear Mr. Jones:

On behalf of Fortuna (US), Inc. Talon Resources, Inc. respectfully submits the enclosed original and two copies of the *Sundry Notice* for the Middle Mountain #21-16 well on lands managed by the Manti La-Sal Forest Service.

Thank you for your timely consideration of the enclosed application. Please feel free to contact myself or Mr. Don Jackson of Fortuna (US), Inc. at 1-780-621-6900 if you have any questions or need additional information.

Sincerely,

Don Hamilton
Don Hamilton
Agent for Fortuna (US), Inc.

**Enclosures** 

cc: Mr. Don Stephens, BLM—Price Field Office Mr. Carter Reed, USDA Forest Service—Price SO Mr. Tom Lloyd, USDA Forest Service—Ferron DO Mrs. Carol Daniels, Division of Oil, Gas and Mining Mr. Arne Hamarsnes, Fortuna (US), Inc.

JAN 1 4 2003

DIV. OF OIL, GAS & MINING

FILE GORY

Forn:-3160-5 (June 1990)

1. Type of Well Oil

2. Name of Operator

X Gas

### UNITED STATES DEPARTM OF THE INTERIOR BUREAU OF AND MANAGEMENT

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

	Expires: March 31, 1993	
Lease	Designation and Serial No.	

UTU-77263

N/A
Well Name and No.

API Well No.

<b>SUNDRY NOTICES</b>	AND	REPORTS	ON WELLS
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Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

6.	If Indian, Allottee or Tribe Name	
	N/A	
7.	If Unit or CA, Agreement Designation	_

Middle Mountain #21-16

Fortuna (US), Inc.	43-015-30426	
3. Address and Telephone No. Suite 3400, 888 3rd Street SV	163 To. Field and Pool, or Exploratory Area Wildcat	
4. Location of Well (Footage, Sec., T., R., M., or Sur 1309' FSL, 834' FEL SE/4 SE/4, Section 21, T16S	11. County or Parish, State  Emery County, Utah	
12. CHECK APPROPRIATE BOX(S	F ACTION	
Notice of Intent  Subsequent Report  Final Abandonment Notice	Change of Name Recompletion Plugging Back Casing Repair Altering Casing Initial Site Cleanup Plan	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water

Fortuna (US), Inc. would like to complete the Initial Site Cleanup of the Middle Mountain #21-16 well by adhering to the following proposed plan as referenced in the previously approved permit to drill:

13. Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is

• Liquids will be transported to RNI Water in Roosevelt, Utah to their permitted evaporation pit.

directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

- Solids (mud and drill cuttings) have been tested for chemical composition and will be disposed of at the approved Nielson Construction landfill in Emery County.
- Sump liner and all other solid waste will be disposed at the approved Nielson Construction landfill in Emery County
- The earthen berm will be reinforced where the road enters the pad and as needed on the remainder of the pad to insure that no fluids leave the site.
- The Drill site will have a locked gate on the access road that will be locked at all times until further operations commence.
- Final clean up will follow in the summer of 2003 and will include, down-sizing, re-contouring, final clean up and reseeding of site as per USFS requirements and as dictated in the previously approved permit to drill.

per USFS requirements and as dictated in the previo	usly approved permit to drill.	experience (	RECEIVED
	COPY SEN Date: 1 Indials:	IT TO OPERATOR 01-19-03	JAN 1 4 2003
14. I hereby certify that the foregoing is true and correct			DIV. OF OIL, GAS & MINING
Signed Don Hamilton Da Hamilton Title Agent for Fortuna	US Date	January 8, 2003	
(This space for Federal or State office use)			
Conditions of approval, if any: Utah I	ted by the Division of and Mining	Federal Approval Action Is Neces	
Title 18 II S.C. Section 1001 makes it a crime for any passes nowing Van	willfull to make to any departmen	nt or agency of the Unite	d States any false, fictitious or fraudulent

Title 18 U.S.C. Section 1001, makes it a crime for any participation will be statement of agency of the Office States any tarse, neutrous of fraudation statements or representations as to any matter within its jurisdiction.

#### an Energy Canada - Directional rvey

Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Operation Group License No. Bottomhole Legal Location Surface Legal Location Field Name 43-015-30426 Utah SE SE Sec. 21, T16S-R6E Middle Mountain Western SE SE Sec. 21, T16S - R6E Current Well Status Rig Release Date Spud Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) Potential Gas 2002-12-31 8655.00 17.00 2002-10-28 8672.00

Vertical Section Direction (°) Wellbore Name 90.00 Main Hole Survey Company Description Patterson Crew

SINGLE SHOT

urvey C	ala							
Tie-in Pt?	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
Yes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,339.00	1.00	0.00	1,338.93	0.00	11.68	0.00	0.0
	1,806.00	1.70	357.00	1,805.80	-0.36	22.68	-0.36	0.19
	2,363.00	3.00	332.00	2,362.33	-7.64	43.80	-7.64	0.29
	2,455.00	2.00	331.00	2,454.24	-9.55	47.33	-9.55	1.0
	2,550.00	2.75	325.00	2,549.16	-11.66	50.65	-11.66	0.8
	2,580.00	3.00	332.00	2,579.12	-12.44	51.93	-12.44	1.4
	2,709.00	2.75	341.00	2,707.96	-15.03	57.83	-15.03	0.4
	2,803.00	2.00	340.00	2,801.88	-16.33	61.51	-16.33	0.8
	2,926.00	2.00	326.00	2,924.81	-18.26	65.30	-18.26	0.4
	3,053.00	1.80	346.00	3,051.74	-19.98	69.08	-19.98	0.5
	3,147.00	1.75	337.00	3,145.69	-20.90	71.83	-20.90	0.3
	3,302.00	2.00	347.00	3,300.61	-22.43	76.65	-22.43	0.2
	3,380.00	1.50	348.00	3,378.57	-22.95	78.97	-22.95	0.6
	3,512.00	1.00	8.00	3,510.54	-23.15	81.80	-23.15	0.5
	3,633.00	1.00	7.00	3,631.52	-22.88	83.89	-22.88	0.0
	3,789.00	1.00	33.00	3,787.50	-21.97	86.39	-21.97	0.2
	4,006.00	1.00	33.00	4,004.47	-19.91	89.56	-19.91	0.0
	4,381.00	1.00	21.00	4,379.41	-16.95	95.36	-16.95	0.0
·· <del> </del> -	4,585.00	2.75	345.00	4,583.30	-17.58	101.75	-17.58	0.9
	4,795.00	2.75	336.00	4,793.06	-20.93	111.22	-20.93	0.2
	5,077.00	2.50	333.00	5,074.76	-26.48	122.88	-26.48	0.1
	5,546.00	2.75	331.00	5,543.27	-36.57	141.83	-36.57	0.0
	6,030.00	2.50	343.00	6,026.77	-45.29	162.08	-45.29	0.1
	6,545.00	1.75	328.00	6,541.41	-52.74	179.49	-52.74	0.1
-	7,105.00	0.75	13.00	7,101.28	-56.45	190.32	-56.45	0.2
	7,670.00	1.00	103.00	7,666.24	-50.81	192.81	-50.81	0.2

Report Printed: 2003-02-20

Page 1/1 in Energy Canada - Daily Drillin 'eport Talis Dare: 2002-10-28, Report: 1.0, DFS: 1.00

Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Job Type: Drilling - original KB Elevation (ft) Rig Release Date Spud Date

Ground Elevation (ft) KB-Ground Distance (ft) 17.00 8655.00

Good

2002-10-28 2002-12-31 **Daily Summary** Hole Condition Road Condition Weather

Icey

Cloudy Operations at Report Time Wait on Daylight

Operations This Report Period

Move Bill Martin Jr. onto location and drill 444.5mm hole to set 339.7mm surface casing. Hold safety meeting and rig up to drill surface hole with Bill Martin Jr. Drill 444.5mm hole with Bill Martin Jr. Cost will be one day behind until the Patterson Rig is on location.

8672.00

Operations Next Report Period

Drill with Bill Martin Jr.

1000.49

9.016

Time Lo	og				
Start Date	End Time	Dur (hrs)	Code	Activity	Comment
00:00	08:00	8.00	00	Undefined Status	Wait for day light.
12:00	14:00	2.00	01	Rig Up & Tear Down	Rig up Bill Martin Jr. water well rig, rotating head and booie line.
12:00	12:30	0.50	21	Safety Meeting	Safety meeting with Bill Martin Jr. crew.
14:00	19:00	5.00	02	Drilling	Drill with Hammer and 17.5" bit. Two 900 x 350 compressors running at this time. Drill to 235 ft with the hole making no noticable water. Misting at 5 gallons per minute of water and surfractant. Pull up to 100 ft to sit the night. No hole trouble at dark which is quitting time. There will be other compressors delivered to location to drill passed the 500 ft depth.
19:00	00:00	5.00	00	Undefined Status	Wait for Daylight

Drill Strings: BHA #1, Slick TFA (incl Noz) (in2 ROP (ft/hr Nozzles (/32\*) IADC Bit Dull 23.8 1 17 1/2in, Q4, BMJ String Components Len (ft) Max OD (in)

Drilling Parameters: 235.0ftKB Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) 47.0 5.00 5.00 0.0 235.0 235.0 Off Btm Tq SPP (psi) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) Drilling Torque WOB (1000lbf) RPM (rpm)

Ingersol Q4, Hammer, Drill Rod, XO, Drill Rod

30 Drill Strings: BHA #20, Slick TFA (incl Noz) (in2 ROP (ft/hr Nozzles (/32\*) IADC Bit Dull 6.2 14 6 1/8in, STR-30, ZT12XM 2.36 Max OD (in) String Components Len (ft)

Hughes STR-30 , Bit Sub, Drill Collar, Drilling Jars - Hydraulic Down, Drilling Jars -4.750 569.62 Hydraulic Up, Drill Collar

**Drilling Parameters: 62.0ftKB** Cum Drill Time (hr Int ROP (ft/hr) Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Flow Rate (gpm) 252 10.00 10.00 6.2 62.0 8,178.0 8,240.0 Off Btm Tq SO HL (1000lbf) Drilling Torque Rot HL (1000lbf) PU HL (1000lbf) WOB (1000lbf) RPM (rpm) SPP (psi) 70 1,700.0 118 132 110 25

Wellbores KO MD (ftKB) Wellbore Name 300.0 90.00 Main Hole

AFE No.	Total AFE Amt (\$)
37511	1,799,800
Daily Cost Total	Cum. Cost To Date
419,535.53	419,535.53
Daily Mud Cost	Mud Additive Cost To Date
0.00	0.00
Depth Start (ftKB)	Depth End (ftKB)
0.0	235.0
Depth Progress (ftKB)	Drilling Time (hrs)
235.0	5.00

**Ops Supervisors** Cell Phone Contact Arnie Hamarsnes, Drilling 403-861-8842 Mel Knezevich, Drilling Fo 780-402-1296 Mark Moennich, Drilling St 403-863-3632

Rigs: Bill Martin Jr., 3 John Day, Tool Pusher

Rigs: Patterson U.T.I, 104 Jesse Blanchard, Drilling Manager

1, IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in) 2.5197 550.0

2, IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in) 550.0 2.5197

**BOPs** P(wkg) (psi) Type Annular Preventers 11 1,500.0

Formation Pick Groups: Drilling Sam... Formation Picks Group

Drilling Sample

Talis in Energy Canada - Daily Drillin 'eport Page 1/1 Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Date: 2002-10-29, Report: 2.0, DFS: 2.00 Job Type: Drilling - original Spud Date Rig Release Date KB Elevation (ft) Ground Elevation (ft) KB-Ground Distance (ft) AFE No. Total AFE Amt (\$) 2002-10-28 2002-12-31 8672.00 8655.00 37511 1,799,800 17.00 Daily Cost Total Cum. Cost To Date **Daily Summary** 16.840.00 436.375.53 Road Condition Hole Condition Weather Daily Mud Cost Mud Additive Cost To Date Cloudy Icey Good 0.00 0.00 Operations at Report Time Depth Start (ftKB) Depth End (ftKB) Wait on Daylight 235.0 500.0 Operations This Report Period Depth Progress (ftKB) Drilling Time (hrs) Travel to location. Warm up equipment. Trip in to 235 ft. No hole problems. Start drilling at 0730 hrs. Drill to 500 265.0 11.00 ft at 1730 hrs. Blow hole clean to 1815 hrs. Pull to 375 ft to sit for the night. Operations Next Report Period **Ops Supervisors** Travel to location in the AM, start and warm the equipment. Trip in to 500 ft and mist drill. Cell Phone Contact Arnie Hamarsnes, Drilling 403-861-8842 Time Log
Start Date | End Time | Dur (hrs) | Code Comment Mel Knezevich, Drilling Fo 780-402-1296 7.00 00 00:00 07:00 **Undefined Status** Wait on Daylight. Mark Moennich, Drilling St 403-863-3632 11.00 02 Drilling Start and warm rig up. Trip in to 235 ft 07:00 18:00 from 100 ft. No hole problems. Start Rigs: Bill Martin Jr., 3 drilling and drill to 500 ft with air mist. The Rig Supervisor John Day, Tool Pusher hole is cleaning well with 10 gallons per minute of mist fluid. The hole is not Rigs: Patterson U.T.I, 104 making noticable water. The pressure is not increasing as it would if the hole was Jesse Blanchard, Drilling Manager loading up with water. Blow the hole dry and trip up to 375 ft for the night. 1, IDECO, MM-550 Pump Number Pump Rating (hp) Rod Diameter (in) 1 550.0 2.5197 18:00 00:00 6.00 00 **Undefined Status** Wait on Daylight. 2, IDECO, MM-550 Drill Strings: BHA #1, Slick Rod Diameter (in) IADC Bit Dull Pump Number | Pump Rating (hp) TFA (incl Noz) (in ROP (ft/hr Nozzles (/32\*) Bit Ru Bit 2 550.0 2.5197 1 17 1/2in, Q4, BMJ 23.8 Max OD (in) String Components Len (ft) **BOPs** Ingersol Q4, Hammer, Drill Rod, XO, Drill Rod 1000.49 9.016 Nom Sz (in) P(wkg) (psi) Type Drilling Parameters: 265.0ftKB **Annular Preventers** 11 1,500.0 Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) 235.0 500.0 500.0 11.00 16.00 24.1 Formation Pick Groups: Drilling Sam... WOB (1000lbf) RPM (rpm) SPP (psi) Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) Drilling Torque Off Btm Ta Formation Picks Group 2 **Drilling Sample** Drill Strings: BHA #20, Slick IADC Bit Dull TFA (incl Noz) (in2 ROP (ft/ht Nozzles (/32") 14 6 1/8in, STR-30 , ZT12XM 2.36 32/32/32 Len (ft) Max OD (in) String Components Hughes STR-30, Bit Sub, Drill Collar, Drilling Jars - Hydraulic Down, Drilling Jars -569.62 4.750 Hydraulic Up, Drill Collar **Drilling Parameters: 62.0ftKB** Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) BHA No. Flow Rate (gpm) 8,178.0 10.00 252 8,240.0 62.0 10.00 6.2 SO HL (1000lbf) Off Btm Tq WOB (1000lbf) RPM (rpm) SPP (psi) Bot HL (1000lbf) PU HL (1000lbf) Drilling Torque 25 70 1,700.0 118 132 110 Wellbores VS Dir (° KO MD (ffKB) Wellbore Name Main Hole 90.00 300.0

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Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Date: 2002-10-30, Report: 3.0, DFS: 3.00

Job Type: Drilling - original

Spud Date		R	ig Release	Date	KB E	levation (ft)	Gr	ound Elevation		KB-Groun	d Distance (ft)
200	2-10-28	3	2002	2-12-31		8672.00 8655.00			17.00		
Daily Sເ	ımmary										
Weather Clear Operations Wait on	,				d Condition	n		Hole C Good	ondition [		
Travel to	This Repo	n. Warr	n up equ	ipment. T	Frip in to	500 ft. No ho	le prob	lems. Star	t drilling at	: 0730 h or the ni	rs. Drill to 600 aht.
	Next Repo										· · · · · · · · · · · · · · · · · · ·
- 1			rip in to	drill.							
Time I e					····	, , , , , , , , , , , , , , , , , , , ,					
Time Lo Start Date		Dur (hrs	s) Code			Activity			Cor	nment	
00:00	07:00		0 00	Undefi	ned Sta			Wait on D	ay light.		
07:00	15:30		0 02	Drilling	Undefined Status Drilling			Drill ahead with air hammer. Small amount of water encountered at 500 ft. Pressure came up 20 psi. Drill ahead to 600m. Need to change choke in the hammer to reduce pressure.			
15:30	19:00	3.5	06	Trippin	ng			hammer fo	or one with gy air pac ittings. Bill essure wi	n a bigg kage to jr. canr th this r	location to not pump ig to go to
19:00	00:00	5.0	00 00	Undefi	ned Sta	atus		Wait on d	aylight.		
M OL		F0 044	P 2002	-10-30 09		MARIN			1.17.1		1.1
Type		Date	B, 2002	Depth (ftKB		T(fl) (°F)	Densit	y (lb/gal)	Vis (s/qt)	F	Plas Vis (cp)
Air/Mist			-30 09:00	550		44.0		8.3	\ \ '.'		
Yield Point		gel 10 se		gel 10 min (		Filtrate (mL/30min)	НТНР	Filt (mL/30min	Filter Cake (	in) N	MBT (lb/bbl)
Lime (lb/bb	ol)	pH g	3.2	Pm (mL/mL 0.00	•	Pf (mL/mL)	Calciu	m (mg/L)	Potassium (r	mg/L) F	Polymer (lb/gal)
Chlorides (	(mg/L)	Sand (%)		Solids (%)		Percent Oil (%)	Percei	nt Water (%)	LG Solids (%	6) E	lectric Stab (V)
Drill Str	rinas: B	HA #1.	Slick								
Bit Ru Bit				IAD	C Bit Dull		TFA (ii	ncl Noz) (in² R		zles (/32")	
	1/2in, C								23.8		
Len (ft) 1000.		OD (in) 9.016	String (	Components	In	gersol Q4, Har	nmer,	Drill Rod, X	(O, Drill R	od	
	Parame	eters: 1	00.0ftK	<b>B</b>		<u> </u>				- 11	1
BHA No.	De	opth Start	(ftKB) Dep	th End (ftKB)		epth (ftKB) Drill Tim			ne (hr Int RO	P (ft/hr) I <b>1.8</b>	Flow Rate (gpm)
1 WOR (100	MINA ID	500.0		600.0 P (psi)   F	60 Rot HL (10		50	24.50 SO HL (1000)			Off Btm Tq
WOB (100 2		PM (rpm) 30		280.0	SOLFIE (10	JOUIN FU TIL (10	ooiui)	55 FIE (1000II	J., Dinning	, 51400	511 Dill 14
Drill St	rings: B	HA #20	), Slick	IAD	C Bit Dull		TFA (i	ncl Noz) (in² R	OP (ft/hr Noz	zles (/32")	
	1/8in, S1	rR-30 .	ZT12XN					2.36	6.2		2/32/32
Len (ft)		OD (in)	String (	Components							
569.6	52	4.750		es STR-3 aulic Up, l		Sub, Drill Colla llar	ar, Drill	ling Jars - I	Hydraulic I	Down, E	Orilling Jars -
Drilling	Param	eters: (	2.0ftKB								1
BHA No.				th End (ftKB)		epth (ftKB) Drill Tim			ne (hr Int RO		Flow Rate (gpm)
20		8,178		8,240.0			0.00	10.00	1	6.2	252
WOB (100 25		PM (rpm) 70	I .	P (psi) F ,700.0	Rot HL (10			SO HL (1000) 110	bf) Drilling	ıorque	Off Btm Tq
		/0		,700.0	1 34	- 1 10					<del></del>
Wellbo	res	Wal	Ibore Name		- 12.34	VSI	Dir (°)		K	MD (ftKE	3)
Main Ho	ole	***	o.o.raine					0.00		,	300.0

AFE No.	Total AFE Amt (\$)
37511	1,799,800
Daily Cost Total	Cum. Cost To Date
21,921.00	458,296.53
Daily Mud Cost	Mud Additive Cost To Date
275.00	275.00
Depth Start (ftKB)	Depth End (ftKB)
500.0	600.0
Depth Progress (ftKB)	Drilling Time (hrs)
100.0	8.50

Ops Supervisors	
Contact	Cell Phone
Arnie Hamarsnes, Drilling	403-861-8842
Mel Knezevich, Drilling For	780-402-1296
Mark Moennich, Drilling Su	403-863-3632

Rigs: Bill Martin Jr., 3	
Rig Supervisor	
John Day, Tool Pusher	

### Rigs: Patterson U.T.I, 104 Rig Supervisor Jesse Blanchard, Drilling Manager

1, IDECO, MM-550						
Pump Number	Pump Rating (hp)	Rod Diameter (in)				
1	550.0	2.5197				

2, IDECO,	2, IDECO, MM-550						
Pump Number	Pump Rating (hp)	Rod Diameter (in)					
2	550.0	2.5197					

-	BOPs		
į		Nom Sz	
	Туре	(in)	P(wkg) (psi)
	Annular Preventers	11	1,500.0

Mud Additive Amou	nts	
Description	Consumed	Daily Cost (\$)
BARIOD USA MUD	1.0	275
CHECK		

Formation Pick Groups: Drilling Sam
Formation Picks Group
Drilling Sample



Tali: In Energy Canada - Daily Drillin 'eport
Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Date: 2002-1 Page 1/1 Date: 2002-10-31, Report: 4.0, DFS: 4.00

Spud Date		-	Release		KB Elevatio		G	round Elevation (ft)	KB-Grour	nd Distance (ft)	AFE No.	4	Tot
	02-10-28		2002	2-12-31	86	672.00		8655.00		17.00	3751 Daily Cost Total		Cur
	ummary										38,213	.81	
Weather					Condition			Hole Condi	tion		Daily Mud Cost		Mu
Overcas	at Report	Timo		Sand	<u> </u>			IGOOU		·	275.0		
1 .	Daylight										Depth Start (ftKE		De
Operations	This Reno	n Period									600.0		Drif
Travel to	o location	n. Warm	up equ	ipment. Ti o 1615 hrs	rip in to 600 s. Pull up 20	ft. No hole 0 ft to che	prob ck the	olems. Start dri e hole condition	illing at 0730 l n. Sit for the r	nrs. Drill to 775 ight.	Depth Progress 175.		
Operations	Next Repo	rt Period									Ops Superv	/isors	
_ <del>-</del> -											Arnie Hama		)rillir
Time Lo	og End Time	Dur (brs)	Code		Activit	v			Comment		Mel Knezev	ich, Drill	ing
00:00	07:00	7.00			ed Status	<b>,</b>		Wait on day li	ight.		Mark Moenr	nich, Dri	lling
07:00	18:00	11.00		Drilling					from 600 to 7		Bill Hedglin,	Geolog	ist
									tion, There is iing. Rig in En	about 10 ft of	Rigs: Bill M	lartin .lı	- 3
									e fuel brought		Rig Supervisor	iai tiii Oi	., 0
	i							The Energy A	ir people are	quite prompt.	John Day, T	ool Pus	her
								The fuel was	a little differer	nt. Thanks for			
								the help Arnie	e, Anouska ar	nd Cleve.	Rigs: Patte	rson U.	T.I,
								Nielson Cons helpfull.	truction is ext	remely	Jesse Bland	hard, D	rillin
								neipiuii.			1, IDECO, N	AM-550	
17.00	00.00	6.00	00	Lindofin	ned Status			Wait on day I	iaht		Pump Number		
17:30	23:30	0.00	100	Ondem	ieu Status			Trait on day i			1 1	550	.0
	rings: B	HA #1, S	Blick	LIADO	Bit Dull		TFA (	incl Noz) (in <sup>2</sup> ROP (	ft/hr Nozzles (/32"	<u> </u>	2. IDECO. I	им-550	
Bit Ru Bit	7 1/2in, C	4 BM.I		INDO	, Dit Dull		'''	23.		,	Pump Number		
Len (ft)		OD (in)	String (	Components			1		L		2	550	.0
1000	.49	9.016			Ingerso	I Q4, Ham	mer,	Drill Rod, XO,	Drill Rod		BOPs		
Drilling	Parame	eters: 17	5.0ftK	В									
BHA No.	De	pth Start (f	KB) Dep	th End (ftKB)	Cum Depth (ftl			Cum Drill Time (f		Flow Rate (gpm)	Annular Pre	pe venters	
1		600.0		775.0	775.0	9.0		33.50	19.4 Drilling Torque	Off Btm Tq			
WOB (10	-	PM (rpm)	1	P (psi) Ri 280.0	ot HL (1000lbf)	PU HL (100	Olbt)	SO HL (1000lbf)	Drilling Forque	Oli Billi Iq	Mud Additi Descrip		Co
2		30		200.0							BARIOD US		
	rings: B	HA #20,	Slick				TEA /	incl Noz) (in² ROP	(#/hd Norrigo //22)	<u> </u>	CHECK	57 ( 117 5 4	
Bit Ru Bit	1/8in, ST	D-20	7T10YN		Bit Dull		IFA (	2.36 6.2		, 2/32/32			
Len (ft)		OD (in)		Components			L	1			Formation		rou
569.		4.750	Hugh	es STR-3	0 , Bit Sub,	Drill Colla	r, Dril	lling Jars - Hyd	raulic Down,	Drilling Jars -	Formation Pick		
			Hydra	aulic Up, E	Orill Collar						Dilling San	ibie	
Drilling	g Param	eters: 62	2.0ftKB	l ·	:						] [		
BHA No.	De	epth Start (f	tKB) Dep	th End (ftKB)	Cum Depth (ft	KB) Drill Time	(hrs)	Cum Drill Time (	1	Flow Rate (gpm)	]		
20		8,178.0		8,240.0	62.0	10	00	10.00	6.2	252 Off Btm Tq	4		
WOB (10		PM (rpm) 70		P (psi) R 1,700.0	ot HL (1000lbf) 118	132		SO HL (1000lbf)	Drilling Torque	On Built 14			
				.,,,,,,,,,					<u></u>		1,00		1
Wellbo	res	Wellh	ore Name	<u> </u>	· T	VS D	ir (°)		KO MD (ftk	(B)		31 11.	سال أن
Main H	lole						5	00.00		300.0	0]		
											[]		
											11		
											1.1		

AFE No.	Total AFE Amt (\$)
37511	1,799,800
Daily Cost Total	Cum. Cost To Date
38,213.81	496,510.34
Daily Mud Cost	Mud Additive Cost To Date
275.00	550.00
Depth Start (ftKB)	Depth End (ftKB)
600.0	775.0
Depth Progress (ftKB)	Drilling Time (hrs)
175.0	9.00

Ops Supervisors	
Contact	Cell Phone
Arnie Hamarsnes, Drilling	403-861-8842
Mel Knezevich, Drilling For	780-402-1296
Mark Moennich, Drilling St	403-863-3632
Bill Hedglin, Geologist	

Rig Supervisor	
John Day, Tool Pusher	
Rigs: Patterson U.T.I, 104	

Rigs: Patterson U.T.I, 104
Rig Supervisor
Jesse Blanchard, Drilling Manager

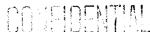
1, IDECO,		
Pump Number	Pump Rating (hp)	Rod Diameter (in)
1	550.0	2.5197

2, IDECO, MIM-330						
Pump Number	Pump Rating (hp)	Rod Diameter (in)				
2	550.0	2.5197				

ł	BOPS		
l		Nom Sz	
١	Type	(in)	P(wkg) (psi)
ĺ	Annular Preventers	11	1 500 0

١	Mud Additive Amounts								
	Description	Consumed	Daily Cost (\$)						
1	BARIOD USA MUD	1.0	275						
1	CHECK								

· ·		
Formation Pick Groups:	Drilling	Sam
Formation Picks Group		
Drilling Sample		



an Energy Canada - Daily Drillin Report Page 1/1 Tali Date: 2002-11-01, Report: 5.0, DFS: 5.00 Well Name: FORTUNA MIDDLE MOUNTAIN #21-16 Job Type: Drilling - original Ground Elevation (ft) KB-Ground Distance (ft) AFE No. Total AFE Amt (\$) Spud Date Rig Release Date KB Elevation (ft) 37511 1,799,800 2002-10-28 8672.00 8655.00 17.00 2002-12-31 Daily Cost Total Cum. Cost To Date **Daily Summary** 18.215.00 514,725.34 Road Condition Hole Condition Weather Mud Additive Cost To Date Daily Mud Cost Good Sanded Clear 0.00 550.00 Operations at Report Time Depth End (ftKB) Depth Start (ftKB) Wait on Daylight 775.0 1,000.0 Operations This Report Period Depth Progress (ftKB) Drilling Time (hrs) 9.25 225.0 Operations Next Report Period Trip in to 1000 ft and drill ahead to T.D. into the Blackhawk **Ops Supervisors** Cell Phone Contact Time Log Arnie Hamarsnes, Drilling 403-861-8842 Start Date | End Time | Dur (hrs) | Code Activity Wait on daylight Mel Knezevich, Drilling Fo 780-402-1296 07:00 7.00 00 **Undefined Status** 00:00 Trip in to 775 ft and drill to 1000 ft. Blow Mark Moennich, Drilling St 403-863-3632 07:00 18:15 11.25 02 Drilling hole clean. Trip to 700 ft and sit for the Bill Hedglin, Geologist niaht. Rigs: Bill Martin Jr., 3 Wait on day light. 5.75 00 **Undefined Status** 18:15 00:00 John Day, Tool Pusher Drill Strings: BHA #1, Slick TFA (incl Noz) (in2 ROP (ft/hr Nozzles (/32") IADC Bit Dull Rigs: Patterson U.T.I, 104 1 17 1/2in, Q4, BMJ 23.8 Max OD (in) String Components \_en (ft) Jesse Blanchard, Drilling Manager Ingersol Q4, Hammer, Drill Rod, XO, Drill Rod 1000.49 9.016 1, IDECO, MM-550 **Drilling Parameters: 225.0ftKB** Pump Number | Pump Rating (hp) | Rod Diameter (in) Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) BHA No. 2.5197 42.75 24.3 1 550.0 9 25 1,000.0 775.0 1,000.0 Rot HL (1000lbf) PU HL (1000lbf) SO HL (1000lbf) Drilling Torque Off Btm Ta WOB (1000lbf) RPM (rpm) SPP (psi) 2, IDECO, MM-550 300.0 2 30 Rod Diameter (in) Pump Number | Pump Rating (hp) 550.0 2.5197 Drill Strings: BHA #20, Slick TFA (incl Noz) (in2 ROP (ft/hr Nozzles (/32") IADC Bit Dull **BOPs** 2.36 6.2 14 6 1/8in, STR-30 , ZT12XM Nom Sz String Components P(wkg) (psi) Len (ft) Max OD (in) Type Hughes STR-30 , Bit Sub, Drill Collar, Drilling Jars - Hydraulic Down, Drilling Jars -4.750 Annular Preventers 11 1,500.0 569.62 Hydraulic Up, Drill Collar Formation Pick Groups: Drilling Sam... Drilling Parameters: 62.0ftKB Formation Picks Group Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) BHA No. **Drilling Sample** 10.00 6.2 252 62.0 10.00 20 8,178.0 8.240.0 Top (ftKB) Off Btm Tq SPP (psi) PU HL (1000lbf) SO HI (1000lbf) Drilling Torque Rot HL (1000lbf) WOB (1000lbf) RPM (rpm) 831.0 Price River 70 1,700.0 118 132 110 25 Wellbores KO MD (ftKB) VS Dir (° Wellbore Name 300.0 90.00 Main Hole

Report Printed: 2003-02-20

Tali: an Energy Canada - Daily Drillin Report Page 1/1
DDLE MODNTAIN #21-16 Date: 2002-11-02, Report: 6.0, DFS: 6.00

pud Date		Rig I	Release [		KB Elevation (ft)	Gro	ound Elevation (ft)	KB-Ground D		
	02-10-28		2002	-12-31	8672.00		8655.00	1	7.00	
aily Su	ımmary			Road	Condition		Hole Condition			
lear				Sand			Good			
	at Report T	ime					·			
	casing This Report	Poriod								
			e. Trip (	out and ca	ase.					
	Next Repor									
ement	casing. I	nstall ce	llar.							
ime Lo		Dur (bas)	Code	T	Activity		r	Comment		
0:00	End Time 07:00	Dur (hrs) 7.00		Undefin	ed Status		Wait on day light	. Minor cold	problems	
						:	starting up today A.M. On the way Construction peovehicle in the car two unhurt men i Colorado plates the Sherriff for the arrived the men thing or another.	in Bill jr. and ople had com hyon up side nside. The veon it. Bill jr's em. When the were arresste	Nielson e across a down with ehicle had men called ne Sherriff ed for one	
07:00	10:00	3.00	06	Tripping	9		Warm up equipment, Trip in. Water was at 750 ft. 250 ft or 75 bbls in the hole. There was a bridge at 960 ft and there was 10 ft of fill on bottom. The water most likely came from the sand that was drilled at 975 ft.			
10:00	14:30	4.50	02	Drilling			Drill ahead with a	air/mist.		
14:30	15:30	1.00	05	Condition	on and/or Circulate	mud	Blow hole clean. Add polymer and clean hole. Hole is making water of an undetermined amount. The depth of the well will not allow for a water sample. We will get it at bottoms up circulating casing			
15:30	17:00	1.50	06	Trippin	g		Trip out to run ca			
17:00	00:00	7.00	7.00 12 Run Casing & Cement			Rig up tongs, spider, slips and elevators Run casing to 600 ft. Switch to crane from rig line and run casing to 1061 ft. Hole has fill at this depth. No way to circulate joints of casing down. No 50 ft hoses. Casing seat at this depth is 36 ft into the Blackhawk formation.				
Drill St	rings: Bi	HA #1, S	lick	IADO	C Bit Dull	TFA (i	ncl Noz) (in² ROP (ft/hr	Nozzles (/32")	·	
- 1	7 1/2in, Q	4, BMJ		1000		,,,,,	23.8			
en (ft)		OD (in) 9.016	String C	omponents	Ingersol Q4, H	ammer,	Drill Rod, XO, Dri	ll Rod		
	Parame		5.0ftKF	3			4.44			
BHA No.			KB) Dept	h End (ftKB)			Cum Drill Time (hr In		Flow Rate (gpm	
1		1,000.0 PM (rpm)	- 1	,125.0 P (psi) R	1,125.0 ot HL (1000lbf) PU HL (	4.50	47.25    SO HL (1000lbf)   Dril	27.8 Ing Torque	Off Btm Tq	
<b>WOB</b> (10										

$\neg$	AFE No.		Total A	FE Amt	(\$)		
	37511	l	1,799,800 Cum. Cost To Date				
	Daily Cost Total	.04			l l		
	114,359 Daily Mud Cost	.34	629,084.69 Mud Additive Cost To Date				
	1,680.3	34	111007	2,230			
	Depth Start (ftKB		Depth	End (ftKl	3)		
	1,000.			1,12			
	Depth Progress (		Drilling	Time (h 4.5			
	125.0	, 		4.5	<u> </u>		
$\dashv$	Ops Superv	isors					
	Cor	ntact			I Phone		
$\dashv$	Arnie Hamar Mel Knezevi						
s	Mark Moenn						
	Bill Hedglin,						
	Rigs: Bill M	artin Jr.	, 3				
ı l	Rig Supervisor John Day, T						
	Rigs: Patter Rig Supervisor	son U.T	.ı, 10	4			
	Jesse Blanc	hard, Dri	lling I	Manag	er		
5	1, IDECO, N	IM-550					
- 1	Pump Number   F	omp Ratin	g (hp)				
	1	550.0	)	2.	5197		
s	2, IDECO, N	IM-550					
	Pump Number	Pump Ratin					
	2	550.0	)	2.	5197		
	BOPs			I C-	T		
n	Туј	эө	'	Nom Sz (in)	P(wkg) (psi)		
,	Annular Pre			11	1,500.0		
/e	Mud Additiv	ve Amou	ints				
ng.	Descript	tion	Consu		aily Cost (\$)		
	BAROID US	SA		1.0	96		
s.	BAROID US	SA		1.0	80		
	BARACAT						
	BAROID US			8.0	600		
t	BAROID US		1	8.0	904		
	QUICK FOA						
	Formation		oups:	Drilli	ng Sam		
	Formation Picks Drilling Sam						
	Drilling Gain	Name			Top (ftKB)		
	Price River				831.0		
	Surface Ca	sing, 1,0	080.01	tKB			
m)	Casing Run Dat	e Max OD	(in) Gra	de	Wt (lbs/ft)		
	2002-11-02	13 3/8	5   F	1-40	48.00		
	ŀ						

Bit Rui Bit

14 6 1/8in, STR-30 , ZT12XM

Len (ft)

569.62

Max OD (in)

String Components
Hughes STR-30 , Bit Sub, Drill Collar, Drilling Jars - Hydraulic Down, Drilling Jars - Hydraulic Up, Drill Collar

Drilling Parameters: 62.0ftKB Cum Drill Time (hr Int ROP (ft/hr) Flow Rate (gpm) Depth Start (ftKB) Depth End (ftKB) Cum Depth (ftKB) Drill Time (hrs) BHA No. 252 6.2 8,178.0 8,240.0 62.0 10.00 10.00 Off Btm Tq SO HL (1000lbf) Drilling Torque Rot HL (1000lbf) PU HL (1000lbf) WOB (1000lbf) RPM (rpm) SPP (psi) 1,700.0 110 118 132 70 25

 Wellbores
 VS Dir (°)
 KO MD (ftKB)

 Main Hole
 90.00
 300.0

Tali: In Energy Canada - Daily Drillin eport Page 1/1

JNA MIDDLE MOONTAIN #21-16 Date: 2002-11-03, Report: 7.0, DFS: 7.00

Well Name: FORTUNA MIDDLE MOUNTAIN #21-16
Job Type: Drilling - original

pud Date		Rig	Release D		KB Elevation		Ground Elev		KB-Groun	d Distance (ft)
200	02-10-28	į	2002-	12-31	867	72.00	86	55.00		17.00
aily Su	ummary									
Veather				Road (	Condition		H	ole Condition		
Clear				Sand	led/Dusty		G	ood		
perations	at Report	Time								
	casing							<u>—</u>		
	This Repo				-4-1111	مما مام امم	a for ria r	2010		
			asing an	nuias. in	stall cellar ar	id blade leas	se for rig r	nove.		
	Next Repo	n Period on Rig 10	4							
NOVE III	raileisc	ii nig 10	<del></del>							
Time Lo										
	End Time		Code	Dur O	Activity	nt	Duma	holo volur	Comment	, 20 bbls of
00:00	00:00 02:15 2.25 12 Run Casing & Ce		sing & Ceme	HIL				ent. Displace		
					with 16	11y, 200 b 32 bbls. bl	na primbe	d. No returns.		
				ļ						
02:15	13:00	10.75	13	Wait Or	Cement		Wait for cement to set. Call out me			out more bu
							to top up.			
13:00	18:00	5.00	12	Run Ca	asing & Cement 430 sx top up job cement fell bac				ell back. 80 si	
							top up job to get cement to stay at surface. Mike Kaminski with BLM t			stay at
					witness second top up. He als					
									top up. ne verify it is n	
							On the	lease to v	reilly it is if	or to big.
18:00	00:00	6.00	13	Wait Or	Cement		Wait o	n cement		
		4	1							
Bit Rui Bit		HA #20,	SIICK	IADC	Bit Dull	TE	A (incl Noz) (	n² ROP (ft/hr	Nozzles (/32")	1
		R-30 , Z	T12XM	"			2.36	6.2		2/32/32
Len (ft)		OD (in)	String Co	mponents						
569.6	62	4.750	Hughes	STR-30	, Bit Sub, D	rill Collar, D	rilling Jars	s - Hydrau	lic Down, E	Orilling Jars -
			Hydrau	ilic Up, D	rill Collar					
Deilling	. Darama	eters: 62	OHVD.					, , , , , , , , , , , , , , , , , , , ,		
BHA No.	<b>Parame</b> De	oth Start (ft	KB) Depth	End (ftKB)	Cum Depth (ftKE	B) Drill Time (hrs	s) Cum Dr	ill Time (hr In	t ROP (ft/hr)	Flow Rate (gpm
20		8,178.0		240.0	62.0	10.00		0.00	6.2	252
WOB (100	00lbf) Ri	PM (rpm)	SPP	(psi) Ro	t HL (1000lbf)	PU HL (1000lbf)	)  SO HL (1	000lbf) Dri	lling Torque	Off Btm Tq
25	5	70	1,7	700.0	118	132	11	0		
Wellbo	roc									
AA GUDO	1 63	Wellbo	re Name			VS Dir (°)			KO MD (ftKE	3)
	olo						90.00			300
Main H	UIE									

Total AFE Amt (\$)
1,799,800
Cum. Cost To Date
637,504.69
Mud Additive Cost To Date
2,230.34
Depth End (ftKB)
1,125.0
Drilling Time (hrs)
0.00

Ops Supervisors

Contact
Contact
Arnie Hamarsnes, Drilling
Mel Knezevich, Drilling For 780-402-1296
Mark Moennich, Drilling Sy 403-863-3632
Bill Hedglin, Geologist

Rigs: Bill Martin Jr., 3
Rig Supervisor
John Day, Tool Pusher

Rigs: Patterson U.T.I, 104
Rig Supervisor
Jesse Blanchard, Drilling Manager

| 2, IDECO, MM-550
| Pump Number | Pump Rating (hp) | Rod Diameter (in) | 2 | 550.0 | 2.5197
| Liner Size (in) | Stroke (in) | V/Stk (bbl/stk) | 5 | 15.00 | 0.105

Formation Pick Groups: Drilling Sam...

Formation Picks Group

Drilling Sample

Name

Top (ftKB)

Price River

831.0

 Surface Casing, 1,080.0ftKB

 Casing Run Date Max OD (in) Grade 2002-11-02
 Wt (lbs/ft) 48.00

 48.00
 48.00



Report Printed: 2003-02-20

# Talisman Energian Canada - Job Operational Summ y (Completions) Page Well Name: FORTUNA MIDDLE MOONTAIN #21-16

Page 1/7

Report Printed: 2003-02-24

Surface Legal Location SE SE Sec. 21, T1		eld Name liddle Mountain	Operation Grou Western	ıp KB	Elevation (ft) 8672.00	Ground Eleva	ation (ft) 655.00	Plug Back Total Depth (ftKB)
2003-01-13, Com Job Category Completion/Work	over	Start D	2003-01-13	AFE No. 39363	AFE Percent	age (%) Total AF	E Amt (\$) 288,036	Total AFE Sup (\$)
Weather	Reports: 2	2003-01-14 00:00- Road Condition	-2003-01-15 00:00 ease Condition	Tubing Pressure (psi)	Casing Pressure (psi)	24 Hrs SCVF (bbm)	24 Hrs SISCVP (psi	H2S < 1% (ppm) H2S > 1% (%)
Start Date 06:00	Code OTHR	Acti Other Operations		ARRIVE ON LOC	ATION. LEASE W	Comment VET BUT FIRM,	ROAD DRY	
Daily Operation Weather	Reports: 2	2003-01-15 00:00 Road Condition	-2003-01-16 00:00 ease Condition	Tubing Pressure (psi)	Casing Pressure (psi)	24 Hrs SCVF (bbm)	24 Hrs SISCVP (psi	)H2S < 1% (ppm) H2S > 1% (%)
Time Log Start Date	Code	Acti			OL 050 405 DIG	Comment	LALLIBURT	DN, FRAC STIM, DALE
	OTHR	Other Operations		OWEN (ALL) HALLIBURTON,I WEATHERFORE TANKS, HEAVY LOCATE; AZTEC FLUI MAINTENANCE, DALBO, KCL WA	SOLATION SERV ), SUPPORT E	ICES, HALLIBU EQUIP, STAN F ENCO ANCHOR KE ZACCARDI, N	JRTON, EWL S FULLENWIDER	SERVICES, I, TIGER TANKS, FRAC RS, EARL BRIDGES, RNI
Daily Operation Weather	Reports:	2003-01-16 00:00 Road Condition	0-2003-01-17 00:00 Lease Condition	O Tubing Pressure (psi)	Casing Pressure (psi)	24 Hrs SCVF (bbm)	24 Hrs SISCVP (ps	i) H2S < 1% (ppm) H2S > 1% (%)
Daily Operation Weather	Reports:	<b>2003-01-17 00:00</b> Road Condition	-2003-01-18 00:0 Lease Condition	O Tubing Pressure (psi)	Casing Pressure (psi)	24 Hrs SCVF (bbm)	24 Hrs SISCVP (ps	H2S < 1% (ppm) H2S > 1% (%)
Time Log Start Date	Code	Ac	tivity			Comment	STUDBANCE	DEVIEW SITE SUBVEY
08:00	RIG	Rig Up/Down		LINE LOCATING RIG TO #20000. ACCUMULATOR DON STEVENS COMMUNICATION	IS NOT DONE B R/U SERVICE RI UNIT. SPOT 2 S	IY ANCHOR INS G, PUMP AND SURFACE STOF OF THE COMP RESTRY SERV	STALLER. INS TANK, SPOT V RAGE TANKS. PLETION AND ICE TOM LLOV	ESTABLISH LINE OF YD INFORM HIM OF RIG
18:00	SIFN	Shut in for Night			. PREPARE FOR	COLD WEATH	ER START. SD	PFN.
Daily Operation Weather CLEAR Time Log	T (°F)	2003-01-18 00:00 Road Condition GOOD	0-2003-01-19 00:0 Lease Condition WET	Tubing Pressure (psi)	Casing Pressure (psi) 0.0	0	0.0	si) H2S < 1% (ppm) H2S > 1% (%) 0 0.00
Start Date 07:30	Code SMTG	Safety Meeting	etivity	PERFORM LEA	SE/RIG WALK AF	Comment ROUND. HOLD	OPERATIONA	L SAFETY MEETING WITH
07:45	ВОРІ	Install BOP's		N/D 7" 3000 TU FITTINGS. N/U AND PIPE RAM CLOSURE TIME PRESSURE TE MINUTES EACI PERFORM RIG H2S TDG. ETG	BING SPOOL,, N/ CLASS II BOP. FU S, INITIAL MANIF E 2 SECONDS EA ST PIPE RAMS V INLOAD 300 J	JNCTION TEST FOLD PRESSUF ICH. TURN ON ERSUS HANGI OINTS 2 3/8 TU EREPORT. CF BY STATE). N	T. WITH PUMP RE 1600PSI FII PUMP 47 SEC ER TO 100 psi JBING. SPOT 2 REW HAS NO ( O INSPECTIO!	OVER VALVES AND OFF FUNCTION BLIND NAL PRESSURE 1350PSI. OND RECOVERY TIME. AND 3000psi FOR 15 E FRAC FLUID TANKS. CERTIFICATIONS (BOP, N CERTS WITH RIG (BOP,
11:45 18:00				M/U 3 3/4" BIT A	AND 4 1/2" SCRAI DRAIN LINES. S	PER RIH ON 2 SHUT DOWN F	3/8" J-55 EUE OR NIGHT.	TUBING TO 6000'
	n Reports	: 2003-01-19 00:0	0-2003-01-20 00:0	00 Tubing Pressure (psi)	Casing Pressure (psi)	24 Hrs SCVF (bbm	i) 24 Hrs SISCVP (p	osi) H2S < 1% (ppm) H2S > 1% (%)
CLEAR		GOOD	WET	0.0	0.0		<u> </u>	0 0.00
Start Date 07:30	Code SMTG	Safety Meeting	ctivity	PERFORM LEA	SE/RIG WALK AI	Commer ROUND. HOLD	<b>OPERATIONA</b>	L SAFETY MEETING WITH
07:45	TBGR	Run Tubing		POOL. CALL S	AND TRUCK IN T	O SAND LEASI SCRAPER . P/I	E AND BAD CC	TALLY, DRIFT SIZE 1.901"

## Talisman Ener Canada - Job Operational Sumr y (Completions) Page 2/7 Well Name: FORTUNA MIDDLE MOONTAIN #21-16

Surface Legal Loca		eld Name	Operation Grou	ip KI	B Elevation (ft)	Ground Elevation (ft)		Plug Back Total Depth (ftKB
SE SE Sec. 21,	T16S-R6E N	Middle Mountain	Western		8672.00	8655.00	<u> </u>	
ime Log								
Start Date	Code	Activ	ty			Comment		
1:00	TBGP	Pull Tubing		POH BIT AND S	CRAPER, RACK IN	DERRICK.		OD E MINUTEO AND
2:30	BOPT	Pressure Test BO		PRESSURE TEST BLIND RAMS AGAINST CASING TO 100psi FOR 5 MINUTES AND 1000psi FOR 15 MINUTES.				
3:00	LOGG	Logging	<u> </u>  -	CBL-GR-CCL FF TOC= 7742'. AP TO THE 4 1/2" F	A GREEN BOOK OF ROM 8178 TO 7390, PEARS TO BE LARG ROM 7742' AND UP SURE. R/D EWL.	THEN PRESSURE SE WASHOUT BEL	PASS FR OW 7" CA	TON EWL. RUN 1, IOM 8178 TO 7390 '. ASING SHOE NO BOI G 8178 TO 7690 UND
2:30	SIFN	Shut in for Night		DRAIN LINES. S	SECURE WELL.SDF	N.		
		2003-01-20 00:00-	2003-01-21 00:00					
Weather	T (°F)	Road Condition Le	ease Condition T	rubing Pressure (psi)	Casing Pressure (psi) 24	Hrs SCVF (bbm) 24 Hrs	SISCVP (psi)	H2S < 1% (ppm) H2S > 1%
CLEAR			VET, ICY		0.0			0 0.00
Time Log								
Start Date	Code	Activ	ity			Comment		SET / MESTINIO MUT
07:30	SMTG	Safety Meeting		POOL AND ZUE	BIATE HOT OILER.			FETY MEETING WIT
07:45	BOPR	Remove BOP's		N/D BOPE. N/U 5000psi FOR 10		). PRESSURE T <b>E</b> S	T CASING	VS FRAC HEAD TO
09:30	TBGR	Run Tubing		RIH 2 3/8" TO 8	170',			
13:00	CIRC	Circulate Well		CIRCULATE W	ELL OVER TO 4% K	CL BRINE		
15:00	SWAB	Swabbing		SWAB WELL D	OWN FOR A 1000ps	i UNDERBALANCE	. ( 45 BBl	S LEFT IN WELL)
	TBGP	Pull Tubing			ACK IN DERRICK.		•	
17:00	1	_		SECURE WELL				
19:30	SIFN   Shut in for Night   SECURE WELL. SDFN.  ration Reports: 2003-01-21 00:00-2003-01-22 00:00							
Daily Operati	on Reports:	2003-01-21 00:00-	<u> 2003-01-22 00:00</u>	) 	Casing Proceure (nei) 2	Ure SCVE (bbm) 24 Hrs	SISCVP (nsi)	H2S < 1% (ppm)   H2S > 1%
Veather CLEAR			ease Condition VET, ICY	lubing Pressure (psi)	0.0	7115 30 71 (0011) 24 1113		0 0.00
Time Log		Activ	da			Comment		
Start Date 07:30	Code SMTG	Safety Meeting	nty	PERFORMLEA	SE/BIG WALK ARO	UND. HOLD OPER	ATIONAL	SAFETY MEETING V
07.30	SWITG	Salety Meeting		POOL.	.02,1110 117.12.11.11			
07:45	PERF	Perforating		R/U HALLIBUR LUBRICATOR TRUN-1 RUN-1 RUN-2 PERFOI MISRUN.	TEMP THERMOMET RATE (SHOT 1) 8132 MEETING AT 200'. I	TER TO 8168 ft BC 2.0-8137.5 MISRUN	OTH THEF ; (SHOT 2	RMOMETERS 146 deç 2) 8122.0-8132.0
16:30	RIG	Rig Up/Down		RUN-3 FIRE 1 BOTH SHOOTS FIRE TWO. TH OBSCURE, TH THE PERFORA SHOTS WERE MINUTE SHUT PERFORATED MEMO ON TIC AND RELEASE	PERFORATE 8132.0  WERE WITH THE E FIRST SHOOT WA E ENGINEER SAID I ATIONS WERE PERI FIRED, SHOT HOLE IN WAS O psi, A SL AT 1545 hours. KET TO RECOVER SEHES EWL.  STAND 40' FLARE SEGERS. 1 HOUR DO	ED WIRE, REWIRE 1-8137.5' (5.5'), FIRI SAME CARRIER, F AS CLEARLY OBSE T WAS A NORMAL FORMED WITH A 3 ES UNIFORM. THE IGHT BLOW WHEN 5760 FOR STANDB STACK. PICKER UN CKED FROM TICKI	GUN. E 2 PERF IRE ONE, ERVED, TI FIRE ON 3/8" MILL GUN CAN I THE WE Y TIME D  IIT HAD H ET. SPOT	ORATE 8122.0-8132.0 REPOSITION THEN HE SECOND WAS ITHE SECOND TRY. LENIUM 6 SPF GUN. A ME OUT CLEAN. 30 ELL WAS OPENED. W UE TO MISRUN. R/D HYDRAULIC PROBLE
16:30	ion Reports	: 2003-01-22 00:00		RUN-3 FIRE 1 BOTH SHOOTS FIRE TWO. TH OBSCURE, TH THE PERFORA SHOTS WERE MINUTE SHUT PERFORATED MEMO ON TIC AND RELEASE  MOVE IN AND WITH OUTRIG AND TEST EQ TANK AND LO FLOOR.	PERFORATE 8132.05 WERE WITH THE E FIRST SHOOT WA E ENGINEER SAID I ATIONS WERE PERI FIRED, SHOT HOLE IN WAS O psi, A SL AT 1545 hours. KET TO RECOVER SE HES EWL.  STAND 40' FLARE SE GGERS, 1 HOUR DO UIPMENT. HAUL IN AD 35 TON. SEND 1	ED WIRE, REWIRE 1-8137.5' (5.5'), FIRISAME CARRIER, FIRIS CLEARLY OBSE T WAS A NORMAL FORMED WITH A 3 ES UNIFORM. THE IGHT BLOW WHEN 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR	GUN. E 2 PERF IRE ONE, ERVED, TI FIRE ON 3/8" MILL GUN CAM I THE WE Y TIME D  IIT HAD F ET. SPOT RAC FLU L WATER	ORATE 8122.0-8132.0 REPOSITION THEN HE SECOND WAS ITHE SECOND TRY. LENIUM 6 spf GUN. A ME OUT CLEAN. 30 ELL WAS OPENED. W UE TO MISRUN. R/D HYDRAULIC PROBLE SEPARATOR, P TAN ID (4% KCL). SPOT C TO DISPOSAL. R/D
	ion Reports	: 2003-01-22 00:00  Road Condition		RUN-3 FIRE 1 BOTH SHOOTS FIRE TWO. TH OBSCURE, TH THE PERFORATED MEMO ON TIC AND RELEASE  MOVE IN AND WITH OUTRIG AND TEST EQ TANK AND LO. FLOOR.	PERFORATE 8132.05 WERE WITH THE E FIRST SHOOT WA E ENGINEER SAID I ATIONS WERE PERI FIRED, SHOT HOLE IN WAS O psi, A SL AT 1545 hours. KET TO RECOVER SE HES EWL.  STAND 40' FLARE SE GGERS, 1 HOUR DO UIPMENT. HAUL IN AD 35 TON. SEND 1	ED WIRE, REWIRE 1-8137.5' (5.5'), FIRISAME CARRIER, FIRIS CLEARLY OBSE T WAS A NORMAL FORMED WITH A 3 ES UNIFORM. THE IGHT BLOW WHEN 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR STANDB 1-760 FOR	GUN. E 2 PERF IRE ONE, ERVED, TI FIRE ON 3/8" MILL GUN CAM I THE WE Y TIME D  IIT HAD F ET. SPOT RAC FLU L WATER	ORATE 8122.0-8132. REPOSITION THEN HE SECOND WAS ITHE SECOND TRY. LENIUM 6 spf GUN. A ME OUT CLEAN. 30 ELL WAS OPENED. W UE TO MISRUN. R/D HYDRAULIC PROBLE SEPARATOR, P TAN ID (4% KCL). SPOT C

### Canada - Job Operational Sumr y (Completions)

Page 3/

Talisman Ener Canada - J Well Name: FORTUNA MIDDLE MOONTAIN #21-16

CONFIDENTIAL

Surface Legal Location Field Name Operation Group KB Elevation (ft) Ground Elevation (ft) Plug Back Total Depth (ftKB)

SE SE Sec. 21, T16S-R6E Middle Mountain Western 8672.00 8655.00

Time Log				Over					
Start Date	Code		tivity	PERFORM LEASE RIG WALK AROUND. GREEN SAFETY ORIENTATION WITH					
08:00	SMTG	Safety Meeting		NORTHLAND TESTERS.  CATHERINE WOODFIELD OF THE U.S. FOERSTRY SERVICE HAD A SITE INSPECTION. 1. SHE SAID SHE WOULD INSPECT THE LOCATION FIRST THEN CONFER WITH ME. I THOUGHT IT PRUDENT SHE BE ACCOMPANIED, FOR HER SAFETY AND FOR ORIENTATION TO COMPLETION OPERATIONS. 2. SHE WAS CURIOUS ABOUT INITIAL WELL PERFORMANCE, I REPLIED IT IS TIGHT HOLE, SHE SAID WAS HER JOB TO KNOW, I REPLIED IT IS TO SOON TO KNOW. THAT DATA WOULD BE KNOWN AFTER THE 24 TO 48 HOUR TEST, 3. SHE REPLIED. NOBODY TOLD US (U.S. FORESTRY SERVICE) THAT THERE WOULD BE 24 HOURS OPERATIONS. 4. SHE WANTED MSDS SHEETS ON LOCATION AND AT THE OFFICE IN FERRON, I AGREED. 5. SHE ALSO THOUGHT THERE WAS A SAFETY ISSUE WITH 1 TO 2 INCHES OF MUD ON SOME AREAS OF THE LEASE, SOME AREAS WERE DRY, SHE WAS SUGGESTING MORE GRAVEL. OBSERVATION; IT IS ABOVE FREEZING AND STRONG SUNLIGHT IN THE DAY TIME, THE BASE IS SOLID.  6. SHE ALSO WANTED THE EMERGENCY SPILL GUIDELINE ON LOCATION. DONE.  7. SHE WANTED A CALL EVERYDAY ON OPERATIONAL PROGRESS.  8. TOM LLOYD (HER BOSS) WANTED A CALL EVERY COUPLE OF DAYS. THE GRAVEL AND THE 24 HOUR TESTING WERE THE TWO ISSUES THAT WERE PASSED TO CALGARY, S MCCONKEY.  NOTE; THE LEASE AND LEASE ROAD ARE SANDED EVERY MORNING BUT BY LUNCH TIME THERE IS 1 TO 2 INCHES OF MUD FROM MELTING IN SOME AREAS.  NOTE: ITEMS OF HSE IN PLACE PRIOR TO VISIT; ONSITE TOILET, COVERED GARBAGE BIN, DOCUMENTED COMPLETION FLUID TO DISPOSAL, A PERSNAL VISIT TO EMERGENCY DISPATCH OF EMERY COUNTY TO ESTABLISH COMMUNICATION LINK (M ALLISON), ON SITE FIRST AID FOR FRAC TREATMENT, REGULAR SAFETY MEETINGS.					
08:15	08:15 RIG Rig Up/Down			R/U 285 psi 3 STAGE SEPARATOR, 10000 psi MANIFOLD , 5000 psi LINE HEATER, 4 1/16" FLOW TEE AND ASSOCIATED EQUIPMENT.					
13:15	GRAD	Static Gradient		PERFORM STATIC GRADIENT WITH DOUBLE MECHANICAL RECORDERS. MECHANICAL DEAD WEIGHT ON SURFACE, WITH 5min STOPS AT 2000', 4000', 8000', 60 MINUTE STOP AT 8129' (MID PERFS), 5 MINUTES STOP AT 8137.5' (BOTTOM PERF), SURFACE DEAD WEIGHT. INITIAL SURFACE DEAD WEIGHT 33psi, FINAL 38 psi, ESTIMATED BHP=2800psi, FLUID LEVEL 1900' WIRELINE MEASURE. ESTIMATED BHT=142 F.					
17:45	OTHR	Other Operation	าร	.VENT GAS TO ATMOSPHERE 3 MINUTES TO ZERO. LEAVE SATELLITE PHONE ON LOCATION 011881631467465 . NIGHT CREW ASSIGNED FOR KCL WATER HEATING OPERATION.					
Daily Operation	n Reports:	2003-01-23 00:0	0-2003-01-24 00	:00					
Weather	T (°F)	Road Condition	Lease Condition	Tubing Pressure (psi)   Casing Pressure (psi)   24 Hrs SCVP (pbm)   24 Hrs SiscVP (psi)   123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)   1123 × 176 (ppm)					
OVERCAST	37.0	GOOD	GOOD	600.0					
Time Log	C	1	ctivity	Comment					
Start Date 00:00	OTHR	Other Operation		HEAT 500 BBL'S 4% KCL BRINE TO 90 degrees F.					
06:00	RIG	Rig Up/Down		MOVE IN AND RIG UP HALLIBURTON FRAC CREW. HOLD EMERGENCY RESPONSE AND GREEN BOOK SAFETY ORIENTATION MEETING					
12:00	FRAC Fracture Stimulation		ation	PERFORM 65Q CO2 30# WATERFRAC G ON THE FERRON SANDSTONE. PUMP 50000# OF 20/40 ACFRAC PR6000 USING GELLED 4% KCL AS CARRIER FLUID IN 11 STAGES. HIGHEST PRESSURE WAS 2979psi. NO PRESSURE SPIKE OBSERVED AS BREAKDOWN. UNDER FLUSH BY 4.26bbl. INITIAL ISIP=1110psi, FINAL ISIP 1225psi. LOAD FLUID 412bbls. RIG DOWN FRAC EQUIPMENT. VAC TRUCK CLEAN LINES AND SAND ON LEASE. RELASE HALLIBURTON, RELEASE SAFETY MAN, RELEASE VAC TRUCK, RELEASE WELLHEAD ISOLATION TOOL HAND.					
14:00	FLOW	Flowback Well	on Clean Up	OPEN WELL AT 1400 hours, FLOW WELL ON CLEAN UP AS PER PRODUCTION TEST REPORT					
Daliv Operation	n Reports:	: 2003-01-24 00:0	00-2003-01-25 00	100					
Weather LIGHT SNOW	T (°F)	Road Condition GOOD	Lease Condition GOOD	Tubing Pressure (psi)   Casing Pressure (psi)   24 Hrs SCVF (bbm)   24 Hrs SISCVP (psi)   H2S < 1% (ppm)   H2S > 1% (%)   0.00					
Time Log				Commant					
Start Date 00:00	Code		Activity	CONTINUE TO FLOW WELL ON CLEAN UP. SEE PRODUCTION TEST ALSO SET FEKETE FILE IN TEST ATTACHEMENT.					
	J			Parant Printed: 2002.02.2					

Talisman Ener Canada - Job Operational Sumi y (Completions) Page 4/7 Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Operation Group

Field Name

Plug Back Total Depth (ftKB) Ground Elevation (ft)

Report Printed: 2003-02-24

Surface Legal Location 8655.00 Western 8672.00 SE SE Sec. 21, T16S-R6E Middle Mountain Time Log Comment Activity Code FLOW WELL ON CLEAN UP. WELL STOPPED FLOWING. THREE DIFFERENT GAS **FLOW** Flowback Well on Clean Up 00:00 DETECTORS FOUND 9ppm H2S. A DRAEGER 5-60ppm TUBE, A BW TWO HEADTESTER AND A POOL ELECTRONIC TESTER. FLUID RECOVERED 412bbl (FRAC LOAD) + 45 (UNDERBALANCE LOAD)+ 359.5 (PROBABLE DRILLING LOSSES) FOR A TOTAL OF 816.5bbl. TOTAL GAS (NON BURNABLE) 1.385 mmcf, LAST SALINITY= 12635ppm, pH=7.5. TOTAL 4% KCL HAULED TO LOCATION 720.0bbls, TOTAL HAULED TO DISPOSAL 605.0bbls. OBSERVE WELL DEAD. DRILLER CUT FINGER MOVING BOPE, SEND TO CASTLE BOPI Install BOP's 12:00 DALE CLINIC FOR MEDICAL ATTENTION. RECIEVED 5 STITCHES AND RETURNED TO WORK.. PUMP 3 bbls 4% KCL DOWN CASING TO SCRUB ANY WELL GAS. WELL ON SLIGHT VACUUM. N/D FRAC HEAD. N/U BOPE. PRESSURE TEST PIPE RAM VS TUBING HANGER TO 1500psi FOR 15 min AND 100psi 14:00 PTST Pressure Test FOR 5 min M/U 2 3/8 WIRELINE RE ENTRY GUIDE, 4' PUP JOINT OTIS XN NIPPLE AND RUN 14:30 TBGR Run Tubing HOLE ON 260JOINTS 2 3/8" EUE TAG PBTD AT 8177.8ft/KB. PULL BACK AND LAND STRING IN HANGER WITH WLREG AT 8119.19ftKB. TOP OF XN AT 8113.1ftKB. N/D FLOOR AND BOPE. N/U 5000psi WELLHEAD. NO TEST PORT. TURN FLOW TEE WHD Install Wellhead 16:30 AND WING VALVE READ AND RECORD PRESSURE BUILD UP. WTST Well Test 18:00 Daily Operation Reports: 2003-01-26 00:00-2003-01-27 00:00 Tubing Pressure (psi) | Casing Pressure (psi) | 24 Hrs SCVF (bbm) | 24 Hrs SISCVP (psi) | H2S < 1% (ppm) | H2S > 1% (%) Road Condition Lease Condition Weather WET SPOTS 25.0 GOOD 45.0 CLEAR **DUE TO** RUNOFF Time Log Code Activity Start Date READ AND RECORD PRESSURES. SITP=0, SICP=25psi. WTST Well Test 00.00 HOLD OPERATIONAL SAFETY MEETING WITH POOL AND NORTHLAND TESTERS. **SMTG** Safety Meeting 07:30 LEAVE LEAVE DAILY UPDATE ON THE VOICE MAIL OF CATHERINE WOODFIELD (U.S. FORESTRY SERVICE). TO DATE 6 TANDEM GRAVEL TRUCK LOADS OF ROAD BASE (ROUGH GRAVEL) FOR LEASE MAINTENANCE AND 10 LOADS FOR ACCESS ROAD MAINTENANCE DUE TRAFIC AND MELTING SNOW. R/U TO SWAB. UNSPOOL 500' SAND LINE AND VISUALLY INSPECT, CUT OFF 400' 08:00 **SWAB** Swabbing AND POUR NEW ROPE SOCKET. PULL 20 SWABS IN 7 HOURS. RECOVER 120bbls 100% BSW. IFL=2200', FFL=2500', FINAL TP=0, FINAL CP=200psi. SALINITY=18000, pH=7.5. GASSY, NO BURNABLE GAS. SECURE WELL, READ AND RECORD WTST 18:00 Well Test Daily Operation Reports: 2003-01-27 00:00-2003-01-28 00:00 Tubing Pressure (psi) | Casing Pressure (psi) | 24 Hrs SCVF (bbm) | 24 Hrs SISCVP (psi) | H2S < 1% (ppm) | H2S > 1% (%) Road Condition Lease Condition 10 480.0 WET SPOTS GOOD 5.0 PARTLY CLOUDY 49.0 DUE TO RUN OFF Time Log Comment Activity Code READ AND RECORD PRESSURES. TP BUILT TO 5psi, CP BUILT TO 480psi. Well Test 00:00 WTST HOLD OPERATIONAL SAFETY MEETING WITH POOL AND NORTHLAND. CALL AND 07:30 SMTG Safety Meeting LEAVE PROGRESS UPDATE ON VOICE MAIL OF TOM LLOYD, DISTRICT GEOLOGIST USFS, CALL AND LEAVE PROGRESS UPDATE ON VOICE MAIL OF CATHERINE WOODFIELD, SITE INSPECTOR USFS. R/U TO SWAB WELL ON CLEAN UP. ITP=5psi, ICP=480psi. 10ppm H2S ON DRAEGER **SWAB** Swabbing 07:45 5-60 ppm TUBE, GASSY AND FOAMY, SMELLS LIKE OLD DRILLING MUD. PULL 23 SWABS RECOVER 131.8bbi WATER. FINAL TAG 4000', FINAL PULL 8000'. WELL STARTED TO FLOW ON SWAB 22, WELL FLOWED ON SWAB 23, NON BURNABLE GAS. SALINITY=18000ppm, pH=7. TUBIING PRESSURE 30 PSI, CASING PRESSURE 450 AND FALLING.. FETKETE ATTACHED TO PRODUCTION TESTATTACHMENTS. FLOW WELL, READ AND RECORD FLOW Flowback Well on Clean Up 18:00 Daily Operation Reports: 2003-01-28 00:00-2003-01-29 00:00 Casing Pressure (psi) | 24 Hrs SCVF (bbm) | 24 Hrs SISCVP (psi) | H2S < 1% (ppm) | H2S > 1% (%) Tubing Pressure (psi) Road Condition Weathe 0 650.0 LIGHT SNOW TO SNOW 0.0 32.0 WET SPOTS COVERED (1") DUE TO RUN **CLEAR OFF** 

KB Elevation (ft)

#### Talisman Ener Canada - Job Operational Sum: y (Completions) Page 5/7 Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

lug Back Total Depth (ftKB)

KB Flevation (ft) Ground Elevation (ft) Surface Legal Location Field Name Operation Group 8655.00 Middle Mountain Western 8672.00 SE SE Sec. 21, T16S-R6E Time Log Start Date Code Activity Comment Well Test TUBING DIED, CASING PRESSURE BUILT UP TO 650psi 00:00 WTST HOLD OPERATIONAL SAFETY MEETING WITH POOL AND NORTHLAND TESTERS. 07:30 **SMTG** Safety Meeting LEAVE PROGRESS UPDATE ON VOICE MAIL OF USFS SITE INSPECTOR CATHERINE WOODFIELD CHECKED CASING GAS, OFF SCALE (OVER 100% LEL). 0ppm H2S. TEST EMERGENCY KILL, TEST WARNING DEVICE. CATHERINE WOODFIELD SITE INSPECTOR U.S.FORESTRY SERVICE PAID VISIT TO 07:45 **SWAB** Swabbing LOCATION. TOOK SOME PICTURES THEN CAME AND SAID GOODBYE. SHE SAID HER PART OF SITE MONITORING IS OVER. SHE REFERRED ME TO TOM LLOYD FOR SUSPENTION INSPECTION INSTRUCTIONS R/U TO SWAB. PULL 22 SWABS, RECOVER 97.0 bbls WATER, TP=0, CP=190psi, FINAL TAG AT 7500', FINAL PULL FROM 8000'. SALINITY=13000ppm, pH=7.0. CASING GAS WAS 100% OF LEL, BEST TUBING GAS WAS 50% OF LEL. 17:00 WTST Well Test R/U AND SEND CASING GAS TO FLARE. SOME BURNABLE GAS. LEAVE CASING AND TUBING OPEN TO P TANK. OBSERVE WELL WHDI Install Wellhead 18:00 Daily Operation Reports: 2003-01-29 00:00-2003-01-30 00:00 Tubing Pressure (psi) | Casing Pressure (psi) | 24 Hrs SCVF (bbm) | 24 Hrs SISCVP (psi) H2S < 1% (ppm) | H2S > 1% (%) (°F) Road Condition Lease Condition 0 32.0 WET SPOTS GOOD 0.0 0.0 **CLEAR** DUE TO RUN OFF Time Log Code Activity Start Date WELL OPEN TO P TANK, NO RECORDABLE FLOW. 00:00 WTST Well Test HOLD OPERATIONAL SAFETY MEETING WITH POOL AND NORTHLAND. FUNCTION SMTG 07:30 Safety Meeting EMERGENCY MOTOR KILL, FUNCTION WARNING DEVICE. R/U TO SWAB. PULL 24 SWABS RECOVER 79bbls WATER. IFL=5400', FFL=7800'. 07:45 **SWAB** Swabbing SALINITY 12000ppm, pH=7.0. FINAL TP=0. FINAL CP=137psi. CASING PRESSURE BUILT FROM 0 TO 191psi BY SWAB 17 THEN STARTED TO DROP ENDING AT 137psi. TUBING GAS REGISTERED 80% ON LEL METER, SOME WISPING AT THE FLARE STACK. DRAIN LINES, SECURE WELL. 17:15 SIFN Shut in for Night READ AND RECORD PRESSURE. 18:00 WTST Well Test Dally Operation Reports: 2003-01-30 00:00-2003-01-31 00:00 Casing Pressure (psi) 24 Hrs SCVF (bbm) 24 Hrs SISCVP (psi) H2S < 1% (ppm) H2S > 1% (%) ease Condition Tubing Pressure (psi) Road Condition 0 PARTLY CLOUDY WET SPOTS GOOD 91.0 380.0 44 0 DUE TO RUN OFF Time Log Activity Start Date Code READ AND RECORD PRESSURES 00.00 WTST Well Test PERFORM LEASE/RIG WALK AROUND. HOLD OPERATIONAL SAFETY MEETING WITH **SMTG** 07:30 Safety Meeting POOL AND NORTHLAND, TEST EMERGENCY KILL. TEST WARNING DEVICE TP=91psi, CP=380psi, BLEED OFF TUBING PRESSURE TO FLARE, IT BLED OFF IN 2 07:45 **SWAB** Swabbing MINUTES, SMALL BLUE FLAME ABOUT 12" HIGH AT FLARE STACK. R/U TO SWAB. PULL 23 SWABS, RECOVER 62bbls WATER, IFL=5800', FFL=7500', SALINITY=9000, pH=7.0. WENT TO 1/2 hr SWABS AT 1530. SITE VISIT BY TOM LLOYD SENIOR GEOLOGIST, UNITED STATES FORESTRY SERVICE. NO ISSUES DEFINED. PREPARE FOR COLD WEATHER START. SECURE WELL. READ AND RECORD 17:30 WTST Well Test PRESSURES. Daily Operation Reports: 2003-01-31 00:00-2003-02-01 00:00 Casing Pressure (psi) 24 Hrs SCVF (bbm) 24 Hrs SISCVP (psi) H2S < 1% (ppm) H2S > 1% (%) Tubing Pressure (psi) Road Condition Lease Condition 0 326.0 **CLEAR** 41.0 WET SPOTS GOOD 51.0 DUE TO RUN OFF Time Log Comment Code Activity Start Date

READ AND RECORD PRESSURES; TP=51psi, CP=326psi.

WITH POOL, NORTHLAND AND NIELSON CONST.

PERFORM LEASE/R IG WALK AROUND. HOLD OPERATIONAL SAFETY MEETING

00.00

07:30

WTST

SMTG

Well Test

Safety Meeting

## Talisman Ener Canada - Job Operational Sum: y (Completions) Page 6/7 Well Name: FORTUNA MIDDLE MOONTAIN #21-16

CONFIDENTIAL

·	Field Name Middle Mountain	Operation Gro Western	oup	KB Elevation (ft) 8672.00	Ground Elevation (ft) 8655.00	Plug Back Total Degth (ftKB)			
Code SWAB	Swabbing			AD BEEN GRANTEI EE, WELLHEAD CH THE GATE HALF W OULD LOCK IT LAT . PULL 21 SWABS F B PRESSURE IS 132 RESSURE GAS SAN TO SEND FOR AN ARBAGE FROM PRE	MILTON, TALON RESOURD TO FEBRUARY 2, 2003. TAINED AND LOCKED, LEAST AY DOWN THE MOUNTAINER IN THE WEEK.  RECOVER 56bbls WATER.  PLES, 2 FROM CASING AN ALYSIS, WITH INSTRUCTION CABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS), FOR ABLES, ROPES CORDS)	THE LEASE MUST BE LEFT SE GATE CLOSED AND MUST BE CLOSED. THE  IFL=6100', FFL=7500'., 17.0  ID 2 FROM TUBING.TALON ONS ATTENTION STUART  HAD BECOME EXPOSED			
WTST	Well Test		PREPARE FO	R COLD WEATHER	START. READ AND RECO	RD.			
Reports	: 2003-02-01 00:00	0-2003-02-02 00:0	0		DALLIN COVE (htm) 24 Um CICOVID	nei\H2S < 1% (nnm) H2S > 1% (%)			
T (°F)	Road Condition	Lease Condition GOOD	Tubing Pressure (ps 41.0	286.0	24 Hrs SCVF (DDM) 24 Hrs S13CVF (	0			
		at ide.	1		Comment				
		tivity	READ AND RE	CORD BUILD UPS	TP=40psi, CP=287psi.				
0 SMTG Safety Meeting				PERFORM LEASE/RIG WALK AROUND HOLD OPERATIONAL SAFETY MEETING WITH NORTHLAND, POOL AND RNI DRIVER.					
SWAB	Swabbing		PRESSURE G SAMPLES FR WATER SAMI TESTING AT INSTRUCTION INSTRUCTION R/U TO SWAR FFL=7400' PU	AS SAMPLES FROM CASING AFTER PLES AND 2 SLUDG WESTERN ENVIRON TO CALL STUART N.  B. PULL 17 SWABS HILL FROM 8000'. SA	M SWAB NUMBER 12, TALI R AN 10 MINUTES BLOW DO BE SAMPLES ALONG WITH NMENTAL, EVANSTON, W MCCONKEY OR AL LESIN ON 2 3/8" TUBING. RECOV LINITY =11000ppm, pH=7.0	E 2 HIGH PRESSURE GAS DWN. SEND 10 DAILY GAS SAMPLES FOR YOMING, WITH THE ISZKI FOR TEST ER 44.8bbls, IFL=6100',			
RIG	Rig Up/Down	Rig Up/Down		RIG DOWN TEST EQUIP AND SERVICE RIG TO PREPARE FOR EARLY MOVE ON FROST. CHAIN AND LOCK WELLHEAD.					
			00	ci) Casing Pressure (nsi)	24 Hrs SCVF (bbm) 24 Hrs SISCVP	(psi)H2S < 1% (ppm)  H2S > 1% (%)			
		SLIPPERY	Tubing Flessure (p	July 1 1000010 (por)					
<del> </del>		asi, de l			Comment				
RIG	Rig Up/Down		NIGHT. LEAS GRADER. MC TOILET AND OUT TEST E AZTEC PIPE MOVE OUT S WATERS TR DRIFTING CO RETURN TO WELL WATE TICKETS OR COMPLETIO LIGHT SNOW	E SLIPPERY, ACCE DVE OUT SERVICE PROPANE TANK. I QUIPMENT. BACK I YARD. BACKLOAD SURFACE STORAGI UCKS COMING FRO DMING OVER THE I BASE. R RECOVERY AFTI 937.3bbis BY TEST V IN MORNING TUR	ESS ROAD SLIPPERY. PLO RIG, DOG HOUSE, POOL T BRING IN CRANE AND 3 HI- LOAD EXCESS TUBING ANI WEATHERFORD EQUIPME E TANKS. OM ROOSEVELT HAD A FOP PASS. ALL EQUIPMENT HA ER COMPLETION LOAD FLI DISPOSAL, RNI ROOSEVE NED TO HEAVY SNOW BY	UGH ACCESS ROAD WITH RAILER, 2 TON TRUCK, -BOY TRAILERS. MOVE D WELLHEAD PIECES TO ENT. RETURN TRASH BIN. DOT OF SNOW AND HEAVY S TO USE THAT ROAD  UID= 947bbls BY DISPOSAL REMENTS. ALL LT. 1100hrs WHITE OUT			
	Code SWAB  T (°F) 37.0  Code WTST SMTG SWAB  RIG  Code WTST SMTG SWAB	MISS-REE Middle Mountain  Code SWAB Swabbing  WTST Well Test Reports: 2003-02-01 00:00  T (°F) Road Condition WET SPOTS DUE TO RUN OFF  Code Act WTST Well Test SMTG Safety Meeting SWAB Swabbing  RIG Rig Up/Down  Reports: 2003-02-02 00:00  T (°F) Road Condition VERY SLIPPERY	Code SWAB Swabbing  WTST Well Test Reports: 2003-02-01 00:00-2003-02-02 00:0  T (°F) Road Condition SUE TO RUN OFF  Code Activity  WTST Well Test SMTG Safety Meeting  SWAB Swabbing  RIG Rig Up/Down  Reports: 2003-02-02 00:00-2003-02-03 00:  T (°F) Road Condition SuE Activity  WTST Safety Meeting  SWAB Swabbing  RIG Rig Up/Down  Reports: 2003-02-02 00:00-2003-02-03 00:  T (°F) Road Condition SLIPPERY  Code Activity	Code	Middle Mountain   Western   8672.00	Middle Mountain   Western   8672.00   8655.00			

## Talisman Ener Canada - Job Operational Sum. y (Completions) Well Name: FORTUNA MIDDLE MOUNTAIN #21-16

Surface Legal Loca	tion	Field Name	Operation 0	Group K	B Elevation (ft)	Ground Eleva	tion (ft)	Plug Back Total Depth (ftKB)	
SE SE Sec. 21.		Middle Mountain	Western		8672.00	8	655.00		
OL OL 000. L1,	7.00.102								
Time Log									
Start Date	Code		Activity			Comment			
17:00	5040			WELLHEAD BULLPLUGGED, CHAINED AND LOCKED. STEEL GATE TO LEASE CLOSED AND LOCKED. STEEL GATE HALF WAY UP THE COTTONWOOD CANYON ROAD CLOSED BUT NOT LOCKED AS USFS REQUESTED. RIG MOVE COSTS TO FOLLOW. SUSPEND WELL OPERATIONS.					
Daily Operation	on Reports	: 2003-02-03 00:	00-2003-02-04 00	:00		4 18 18 18 18 18 18 18 18 18 18 18 18 18			
Weather	T (°F)	Road Condition	Lease Condition	Tubing Pressure (psi)	Casing Pressure (psi)	24 Hrs SCVF (bbm)	24 Hrs SISCVP	(psi) H2S < 1% (ppm) H2S > 1% (%)	
CLEAR		SNOW COVERED	SNOW COVERED						
Time Log									
Start Date	Code		Activity			Comment	OOED IT W	(AC EDED THE WELL	
08:00	OTHR	Other Operation		CHECKER HAS GO TO EMERY OF THE SUSPI GO TO TALON AND LEASE KE GO TO NIELSC TICKETS ARE GO TO AMERI- GO TO ROCKE GO TO POOL I GO TO RNI IN LICENSES TO PROCEDE TO	S AND DID ACCE COUNTY SHERI ENSION OF OPEI RESOURCES OF EY TO DON HAMI ON CONSTRUCTI OUTSTANDING A KAN IN DUCHES ET TRUCKING IN N ROOSEVELT AN OPERATE DISPO	SS. FF'S OFFICE, IN RATIONS. FFICE IN HUNTIN LTON FOR SAFE ON AND GET MA AS TRUCKS ARE INE AND SETTLE DUCHESNE, ANI IND SETTLE LAS D SETTLE ACCO DSAL PONDS AN IND A ROOM.	ORANGEVING AND EXEEPING. INTENANC STILL ON THE ACCOUNT DISETTLE ACCOUNT THE COUNT. THE COUNT THE COUNT.	E TICKETS, RIG MOVE THE ROAD. ACCOUNT. FOR SERVICE RIG. COMPANY HAS STATE THEM ON THE WALL.	
			:00-2003-02-05 00	Tubing Pressure (psi	Cacina Proceure (nei	) 24 Hrs SCVF (hhm)	24 Hrs SISCVP	(psi) H2S < 1% (ppm) H2S > 1% (%)	
Weather	T (°F)	Road Condition SNOW COVERED	Lease Condition SNOW COVERED	Tubing Pressure (psi	) Casing Flessure (psi	, 24 (113 00 ) (0011)		75-7	
Time Log						Comment			
Start Date	Code		Activity	00 70 145 17	TEDEODD LIATIS	COMMENT	NE SHOD A	ND AZTEC PIPE VARD (MT	
00:00	OTHR Other Operations		GO TO WEATHERFORD, HALIBURTON WIRELINE SHOP AND AZTEC PIPE YARD (MT 35992= 42 JOINTS 2 3/8 J 55 EUE 4.7# 35 GOOD 7DAMAGED, 4 1/16" FRAC HEAD, 7" 3000 X 11" 3000 TUBING SPOOL, 1 USED 3 3/4" BIT, STUDS AND NUTS, THREE RING GASKETS USED.)						

STATE OF UTAH AMENDED REPORT FORM 8 DEPARTMENT OF NATURAL RESOURCES (highlight changes) 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING 035 UTU-77263 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG N/A UNIT or CA AGREEMENT NAME 1a. TYPE OF WELL: WELL WELL NAME and NUMBER: b. TYPE OF WORK: DEEP-DIFF. RESVR. Middle Mountain #21-16 RE-ENTRY OTHER 9. API NUMBER: 2. NAME OF OPERATOR: 4301530426 Fortuna (US), Inc. 10 FIELD AND POOL, OR WILDCAT 3. ADDRESS OF OPERATOR: PHONE NUMBER: STATE AB ZIP T2P 5C5 Wildcat (403) 237-1234 3400, 888 - 3 St. S.W. CITY Calgary 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1309' FSL and 834' FEL SESE 21 16S 6E AT TOP PRODUCING INTERVAL REPORTED BELOW: SE/4 SE/4, Sec. 21, T16S, R6E, SLB & M Essentially Vertical Hole 12. COUNTY AT TOTAL DEPTH: BHL! 1502 FSL 885 FEL UTAH **Emery** 17. ELEVATIONS (DF, RKB, RT, GL): 14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: READY TO PRODUCE ABANDONED 10/28/2002 8627.0 (GL) 12/27/2002 2/4/2003 19. PLUG BACK T.D.: MD 8,178 18. TOTAL DEPTH: MD 20. IF MULTIPLE COMPLETIONS, HOW MANY? 21. DEPTH BRIDGE MD O 8.240 PLUG SET: N/A TVD 8,235 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. NO 🔽 WAS WELL CORED? YES (Submit analysis) Full Wave Sonic, CBL, GR, CCL, see attached (open-hole logs) WAS DST RUN? NO 🗸 YES (Submit report) DIRECTIONAL SURVEY? NO YES 🔽 (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) STAGE CEMENTER CEMENT TYPE & SLURRY AMOUNT PULLED HOLE SIZE SIZE/GRADE WEIGHT (#/ft.) TOP (MD) BOTTOM (MD) CEMENT TOP \*\* DEPTH NO. OF SACKS VOLUME (BBL) 1,080 'G' 1,810 393 0.0 17.50 13.4 H-40 48.00 0 1,080 0 4.417 'G 1,975 1.036 0.0 12.25 9.6 J-55 36.00 4,413 'G' 444 3913.0 7.0 7,690 8.75 J-55 26.00 0 7,690 304 102 3428.0 0 8,240 8,240 'G' 6.125 13.50 211 4.5 P-110 25. TUBING RECORD PACKER SET (MD) DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 2.375 8.119 0 26. PRODUCING INTERVALS 27. PERFORATION RECORD PERFORATION STATUS NO. HOLES INTERVAL (Top/Bot - MD) SIZE FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) 3.38 8.137 6 Open Squeezed 7,734 8,205 8.122 (A) Ferron (B) Open Squeezed Squeezed (C)

AMOUNT AND TYPE OF MATERIAL

DST REPORT

OTHER:

Frac - 412.0 bbl Gelled Salt Water + CO2 + 50,000 lbs of 20/40 Sand

GEOLOGIC REPORT

(CONTINUED ON BACK)

CORE ANALYSIS

(D)

(5/2000)

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

ELECTRICAL/MECHANICAL LOGS

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

DEPTH INTERVAL

8122.0 - 8137.5

29 FNCLOSED ATTACHMENTS:

MAR 0 7 2003

30. WELL STATUS:

✓ DIRECTIONAL SURVEY

31. INITIAL PRO	DUCTION					INTE	RVAL A (As show	wn in item #26)					
DATE FIRST PRODUCED:			TEST DATE:			HOURS TESTED:		TEST PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER – BBL:		PROD. METHOD:
CHOKE SIZE:	TBG. PRES	SS.	CSG. PRE	SS. API	GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	N OIL - BBL:	GAS – MCF:	WATER -	BBL:	INTERVAL STATUS:
***	d					INTE	RVAL B (As sho	wn in item #26)					
DATE FIRST PRODUCED:			TEST DATE:			HOURS TESTED	:	TEST PRODUCTION RATES:	OIL - BBL:	GAS ~ MCF:	WATER - BBL:		PROD. METHOD:
CHOKE SIZE:	TBG. PRES	PRESS. CSG. PRESS. API GRAVIT		GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES:	N OIL – BBL:	GAS - MCF:	WATER - BBL:		INTERVAL STATUS:	
	<u></u>					INTI	ERVAL C (As sho	wn in item #26)					
DATE FIRST PRODUCED:			TEST DATE:			HOURS TESTED	):	TEST PRODUCTION RATES:	OIL - BBL:	GAS MCF:	WATER + BBL:		PROD. METHOD:
CHOKE SIZE:	CHOKE SIZE: TBG. PRESS.		CSG. PRESS. API GRAVITY		BTU - GAS GAS/OIL RATIO		24 HR PRODUCTIO RATES:	N OIL - BBL:	GAS - MCF:	GAS – MCF: WATER – BBL:		INTERVAL STATUS:	
	<u> </u>					JNTI	ERVAL D (As sho	wn in item #26)		· <b>!</b>	<del> </del>		<u> </u>
DATE FIRST PR	ODUCED:		TEST DATE:			HOURS TESTED		TEST PRODUCTION	N OIL - BBL:	GAS - MCF: WATER -		- BBL: PROD. METHOD:	
CHOKE SIZE:	TBG. PRE	SS.	CSG. PRE	SS. API	GRAVITY	BTU - GAS GAS/OIL RATIO		24 HR PRODUCTIO RATES:	N OIL - BBL:	BBL: GAS - MCF:		- BBL:	INTERVAL STATUS:
32. DISPOSITIO	ON OF GAS (	Sold, U	sed for F	uel, Vented,	Etc.)			. <del> </del>					
33. SUMMARY	OF POROUS	ZONE	S (Include	Aquifers):	<del></del>				34. FORMATION	(Log) MARKERS:			
			-		Cored interva	ls and all drill-stem	tests, including de	epth interval					
tested, cushion u	ised, time too	ol open,	flowing a	nd shut-in pr	essures and r	recoveries.							
Formation		Top Bottom (MD) (MD)			Descrip	tions, Contents, etc	c.		(1	Top (Measured Depth)			
35. ADDITIONA	L REMARKS	S (inclu	de pluggi	ng procedu	re)								
NAME (PLEAS	SE PRINT)	Jane	t Kully		ormation is c	omplete and corr	ect as determined	from all available re  TITLE Dril  DATE 2/2	ling/Comple	etions Admir	nistrator		
drillin     recor	nust be subleting or pleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting to make the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting the subleting	bmitte pluggi tal lat o a di	ed withing a ne erals fro fferent p	n 30 days w well om an exis producing	sting well i formation	bore •	significantly of drilling hydro	previously plugg deepening an ex carbon explorato	ed and abando isting well bore ory holes, such	e below the pre	evious bott les and sti	om-ho	ele depth phic tests
										cement bond lo	og (CBL), te	emper	ature survey (TS))

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Box 145801

Salt Lake City, Utah 84114-5801

MUD ENGINEER:

Don Helms with Baroid

WELLSITE GEOLOGIST:

Bill Hedglin

**MUDLOGGING COMPANY:** 

DATALOG - Calgary Alberta, Canada

**MUDLOGGING ENGINEER:** 

Gord Bennett

GAS DETECTION:

Total gas and chromatograph

WATER & ROAD WORK:

Nielson Construction Co.

**HOLE SIZE:** 

17.5" to 1125'

12.25" from 1125' to 4421' 8.75" from 4421' to 7690' 6.25" from 7690' to total depth

CASING:

25 joints of 13 3/8" 48 lb. H40 set at 1063.7' G.L.

9 5/8" J-55 36# set at 4413' K.B. 7" 26# J-55 set at 7689' K.B.

DRILL STEM TEST(S):

None

**CORE PROGRAM:** 

Coring in the Ferron was abandoned due to adverse hole

conditions.

**ELECTRIC LOGGING:** 

Run No. 1 at 2775' by Schlumberger

Hugo Gonzalez - engineer - Rock Springs, Wyoming String 1 – AITH-TLD-PEFZ-CNL-GR-BHC, surface

casing to TD

iogs to be forwarded Shortly).

String 2 - AITH - Misrun

String 3 – FMI – surface. casing to TD

String 4 – AITH – surface casing to TD

Run No. 2 at 4421' by Schlumberger Zenobio Matos - engineer Vernal, Utah

String 1 - AITH-TLD-PEFZ-CNL-GR-BHC, surface

casing to TD

Run No. 3 at 7690' by Schlumberger Marissa Ebert - engineer - Vernal, Utah String 1 - BHC - FMI- GR, casing to 7256'

String 2 - BHC-GR, TD to 7256'

String 3 - AITH-TLD-PEFZ-CNL-GR-BHC, casing to TD

Run No. 3 at 7690' by Schlumberger

Marissa Ebert, Jill Haynie – engineers – Vernal, Utah String 1 – AIT-BHC – GR-Caliper, casing to 7811'

(Bridge)

String 2 – AIT- BHC-GR-Caliper, Casing to 8225' String 3 – TLD-PEFZ-CNL-GR, Casing to 8225'

High resolution over bottom 200'

ROCK SAMPLES: 30' samples from 650' to 1125' in 17.5" hole

1125' to 7073' sporadic samples when possible,

severe lost circulation and erratic returns.

7073' to 7745' 10' samples, except in lost circulation zones, 7745' to 8225' – 5' samples in Ferron pay zone

**SAMPLE DISTRIBUTION:** 

Three sets of dried samples were made and turned over

to the operator.

**CORRRELATION WELLS:** 

Vortt Exploration
No. 3 Indian Creek

SW, SW, SW, Section 2, T 17 S, R 6 E

Emery County, Utah

					ATE OF									NDED			_	FOI	TIVI O	
2.0					OF NAT				<u> </u>				(highlight changes) 5. LEASE DESIGNATION AND SERIAL NUMBER:							
3 6 DIVISION OF OIL, GAS AND MINING										UTU-77263										
WELL	WELL COMPLETION OR RECOMPLETION REPORT AND LOG													6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A						
la. TYPE OF WELL: OIL GAS DRY OTHER												7. UNIT or CA AGREEMENT NAME								
													N/A  8. WELL NAME and NUMBER:							
	IORIZ	DEE EN	P	RE EN	TRY 🔲	[ F	DIFF. RESVR.		OTHER			<u> </u>	Middle Mountain #21-16							
2. NAME OF OPERAT														30153		26				
3. ADDRESS OF OPE										PHONE	NUMBER:	<del>-</del>	10 FIELD AND POOL, OR WILDCAT							
3400, 888 - 3 St. S.W. CITY Calgary STATE AB ZIP T2P 5C5 (403) 237-1234													Wildcat							
4. LOCATION OF WELL (FOOTAGES)												11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:								
AT SURFACE:	1309' F	SL and 8	334' FI	EL									SESE 21 16S 6E							
AT TOP PRODUC	ING INTERV	/AL REPORT	ED BELO	w: SI	E/4 SE	/4, Se	ec. 21,	T16S	, R6E,	SLB &	M									
AT TOTAL DEPTH													12. COUNTY 13. STA'					STATE (	JTAH	
					16. DATE	OOMB!	TED.						17 FLEVATIONS (DF. RKB. RT. GL):							
14. DATE SPUDDED 10/28/2002		5. DATE T.D 12/27/2		ED:	16. DATE 2/4/2		ETEU.	А	BANDONE		READY TO	D PRODUC		86	27.0	(GL	)			
18. TOTAL DEPTH:	MD 8,2	240	19.	. PLUG 8	BACK T.D.:	MD {	3,178				OMPLETIC	NS, HOW N	IANY? *	21. DEP	TH BRI JG SE	DGE T:	MD	0		
	TVD 8,2		1			TVD			N.	/A							TVD			
22. TYPE ELECTRIC	AND OTHE	R MECHANIC	CAL LOGS	RUN (S	ubmit copy	of each)				23.					رده ات	٦ ,,	O. demais	enalusis)		
Full Wave S	onic, CE	BL, GR,	CCL,	see a	ttached	d (ope	en-hole	logs)	)	WAS WEL		?	NO NO		ES ES	_		t analysis) t report)		
										DIRECTIO		/EY?	NO	_	ES 🔽	=	Submi	( copy)		
24. CASING AND LI	NER RECOF	RD (Report al	l strings :	set in we	II)															
<del></del>		1	VEIGHT (		TOP (N	4D/	BOTTON	4 (MD)	STAGE CE			T TYPE &	SLUF		CEM	IENT TO	P **	AMOUNT	PULLED	
HOLE SIZE	SIZE/GR	ADE V	VEIGHT (	#/11.)	TOP (N	10)	00110	(1110)	DEF	PTH	<b> </b>	SACKS	VOLUME (BBL)			·/O.4.1				
17.50	13.4	H-40	48.0	0	0	0 1,0			<u> </u>	080	'G'	1,810	39		0 (CAL				. ·	
12.25	9.6	J-55	36.0	0	0		4,4			17	'G'	1,975	1,0				<u> </u>			
8.75	7.0	J-55	26.0	0	0			7,690		7,690		304	44			13 (C				
6.125	4.5	P-110	13.5	.50 0		) 8,24		40 8,24		240	40 'G' 211		102		3428 (CAL)		<u> </u>	-		
											<del> </del>				-	_		<del> </del>		
									<u> </u>		<u> </u>				L					
25. TUBING RECOF	RD											. 1	0.75		COTU	SET (MI	) T	PACKER:	SET (MD)	
SIZE		SET (MD)	PACKE	R SET (N	MD)	SIZE	-	DEPTH	SET (MD)	PACKE	R SET (M	D)	SIZE		EPIH	SEI (MI	<del>)</del>	FACKER	SET (MD)	
2.375	8.	.119	L	0					—-г		DATION	FCORD								
26. PRODUCING IN					ii aus. I	TOB	(TVD)	POTTO	M (TVD)	27. PERFO	AL (Top/Bo		SIZE	NO. HO	LES	PEI	RFOR	ATION STA	ATUS	
FORMATION	NAME	TOP (			OM (MD)	106	(100)	ВОТТО	IVI (TVD)	8.122		8,137	3.38	6	-+	Open	7	Squeezed		
(A) Ferron		7,7	34	8,4	205					0,122		0,107	0.00	H	十	Open [	╗	Squeezed		
(B)													·	<del>                                     </del>	$\dashv$	Open	┪	Squeezed		
(C)															寸	Open	╤	Squeezed	$\overline{\Box}$	
(D)								L												
28. ACID, FRACTU		MENT, CEME	NT SQUE	EZE, ET	C.				AMO	NINT AND	TYPE OF	MATERIAL			F	(EC	E	VEL	)	
DEPTH INTERVAL																				
8122.0 - 8137.5 Frac - 412.0 bbl Gelled Salt Water + CO2 + 50,000 lbs of 20/40 Sand																				
			<u> </u>									<del></del>		<del> </del>	<u>·</u>					
			L		<del> </del>				<del></del>	<del></del>				E	HV. C	of Palo	WEL	STATUS	HING -	
29. ENCLOSED AT	TACHMENT	15:								_		_	_							
ELECT	TRICAL/MEC	HANICAL LC	GS					GEOLOG	SIC REPOR	т <u></u>	DST REF	PORT 1	DIREC	CTIONAL	SURVI	EY .	Sú	<i>T /}</i> <del>spo</del> n	<del>ded</del> -	
F7		500 DI 1100	INO AND	CEMENT	T VEDIEIC	MOLTA		CORE A	NAI YSIS		OTHER:			_				•		

(CONTINUED ON BACK)

31. INITIAL PRO	DDUCTION			INT	TERVAL A (As sho	wn in item #26)				* *****			
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTE	D:	TEST PRODUCTION RATES:	OIL BBL:	GAS – MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: []	N OIL – BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:			
	•	1		INT	TERVAL B (As sho	wn in item #26)	. <b>.</b>		<del></del>	•			
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTER	D:	TEST PRODUCTION RATES:	OIL – BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: []	ON OIL – BBL: GAS – MCF: W		WATER - BBL:	INTERVAL STATUS:			
	· <b>-</b>	· <u>··············</u>		INT	TERVAL C (As sho	wn in item #26)			•				
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: □	OIL – BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	CSG. PRESS. API GRAVITY		BTU – GAS GAS/OIL RATIO		N OIL – BBL:	GAS MCF:	WATER – BBL:	INTERVAL STATUS:			
				INT	TERVAL D (As sho	wn in item #26)		· ·					
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:	N OIL - BBL:	GAS – MCF:	WATER BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: []	N OIL – BBL:	GAS – MCF:	WATER BBL:	INTERVAL STATUS:			
32. DISPOSITIO	N OF GAS (Sold,	Used for Fuel, V	ented, Etc.)										
33. SUMMARY	OF POROUS ZON	ES (Include Aqu	ifers):	····		34. FORMATION (Log) MARKERS:							
			ereof: Cored interva it-in pressures and		m tests, including de	epth interval							
Formation	on		ottom (MD)	Descriptions, Contents, etc.				Name		Top (Measured Depth)			
					···								
	- 1												
35. ADDITIONA	L REMARKS (Incl	ude plugging pr	ocedure)			<u>.                                    </u>		<del></del>	L				
36. I hereby cer	rtify that the foreg	oing and attach	ed information is o	complete and corr	rect as determined	from all available re	cords.						
NAME (D) E : 0	SE PRINT)_Jano	et Kullv				TITLE Drill	ling/Comple	etions Admin	istrator				
SIGNATURE	Janet	Kulli	<u> </u>			DATE3/4/	/2003 (	Reused	<i></i>				
This report m	nust be submit	ted within 30	days of										

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- \* ITEM 20: Show the number of completions if production is measured separately from two or more formations.
- \*\* ITEM 24: Cement Top Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

RECEIVED
MAR 1 0 2003





Exploration Consultants (Canada) Ltd. Camada - USA - UK - Australia Incorporating Décollement Consulting Ltd.



## FORTUNA (U.S.) INC. FORTUNA MIDDLE MOUNTAIN #21-16

EMERY, UTAH U.S.A.

RECEIVED
APR 1 8 2003

DIV. OF OIL, GAS & MINING

PERMIT TO PRACTICE ECL CANADA
Signature
PERMIT NUMBER: P 04348 The Association of Professional Engineers, Geologists and Geophysicists of Alberta



### **GEOLOGICAL REPORT**

#### **FOR**

### **FORTUNA MIDDLE MOUNTAIN #21-16**

**SE, SE, SECTION 21, T 16 S, R 6 E** 

**EMERY COUNTY, UTAH, U.S.** 

#### Prepared by:

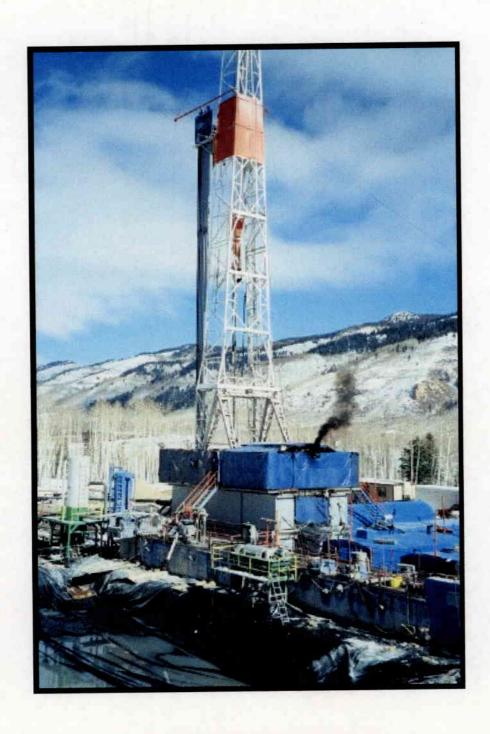
Bill Hedglin ECL Canada #200, 1009-7 Ave. S.W. Calgary, Alberta T2P 1A8 Canada (403) 263-0449

### Prepared for:

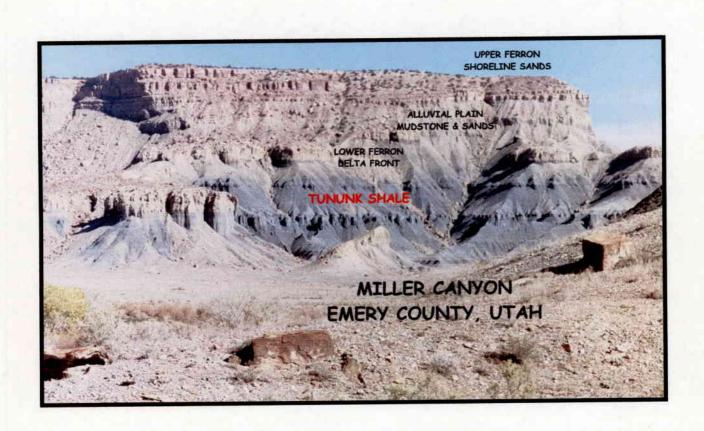
Mike Morrison Fortuna Inc. (U.S.) Suit 3400, 888 3<sup>RD</sup> ST. S.W. Calgary, Alberta, T2P 5C5 (403) 237-1163

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MUD RECORD (table)	page 9A				
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SECTION NO. 3 - LOGGING REPORTS	pages 23 - 25				
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CUTTINGS SAMPLE DESCRIPTIONS	pages 26- 74				
SECTION NO. 5 - COMPOSITE GEOLOGIC LOG	(attachment)				



Drill site with Rig#104 Patterson Drilling Co.



Local outcrop representing depositional facies of Ferron FM similar to those encountered in Middle Mountain #21-16.

### WELL DATA SUMMARY

**OPERATOR:** 

FORTUNA (U.S.) INC.

**ADDRESS:** 

888 3<sup>rd</sup> St. S.W., Suite 3400 Calgary, Alberta, T2P 5C5

**WELL NAME:** 

Fortuna Middle Mountain # 21-16

**AFE NUMBER:** 

37511

**SURFACE LOCATION:** 

SE, SE, SECTION 21, T 16 S, R 6 E

1309' FSL, 834' FEL

**BOTTOM HOLE LOCATION:** 

Last survey was at 7690' - N 105 E at 1 degree

**COUNTY:** 

**Emery** 

**STATE:** 

Utah

**GEOLOGIC REGION:** 

Wasatch Plateau

**WELL TYPE:** 

Vertical wildcat

**BASIS OF PROSPECT:** 

Seismic evaluation, with outcrop geological mapping and

limited well control

**ELEVATION:** 

G.L. – 8655', K.B. – 8672'

**SPUD DATE:** 

October 28, 2002, 1400 hours

TOTAL DEPTH&DATE:

8240'- driller, at 14:25 on December 27, 2002

**STATUS OF WELL:** 

To be completed as a Ferron gas well.

**CONTRACTOR:** 

Surface hole drilled by Bill Martin Jr. Rathole Drilling,

Red Rig # 3

Main hole drilled by Patterson Drilling Co., Rig 104

**TOOLPUSHER:** 

Roger Bromley and Randy Hackford, Patterson 104

**DRILLING FOREMAN:** 

Mel Knezevich, Rod Cuthill (relief), Ernie Natte (relief)

MUD ENGINEER: Don Helms with Baroid

WELLSITE GEOLOGIST: Bill Hedglin

MUDLOGGING COMPANY: DATALOG - Calgary Alberta, Canada

MUDLOGGING ENGINEER: Gord Bennett

GAS DETECTION: Total gas and chromatograph

WATER & ROAD WORK: Nielson Construction Co.

**HOLE SIZE:** 17.5" to 1125'

12.25" from 1125' to 4421' 8.75" from 4421' to 7690' 6.25" from 7690' to total depth

**CASING:** 25 joints of 13 3/8" 48 lb. H40 set at 1063.7' G.L.

9 5/8" J-55 36# set at 4413' K.B. 7" 26# J-55 set at 7689' K.B.

DRILL STEM TEST(S): None

CORE PROGRAM: Coring in the Ferron was abandoned due to adverse hole

conditions.

**ELECTRIC LOGGING:** Run No. 1 at 2775' by Schlumberger

Hugo Gonzalez – engineer – Rock Springs, Wyoming String 1 – AITH-TLD-PEFZ-CNL-GR-BHC, surface

casing to TD

 $String\ 2-AITH-Misrun$ 

String 3 – FMI – surface. casing to TD String 4 – AITH – surface casing to TD

Run No. 2 at 4421' by Schlumberger Zenobio Matos – engineer Vernal, Utah

String 1 - AITH-TLD-PEFZ-CNL-GR-BHC, surface

casing to TD

Run No. 3 at 7690' by Schlumberger Marissa Ebert – engineer – Vernal, Utah String 1 – BHC – FMI- GR, casing to 7256'

String 2 - BHC-GR, TD to 7256'

String 3 - AITH-TLD-PEFZ-CNL-GR-BHC, casing to TD

Run No. 3 at 7690' by Schlumberger

Marissa Ebert, Jill Haynie – engineers – Vernal, Utah String 1 – AIT-BHC – GR-Caliper, casing to 7811'

(Bridge)

String 2 – AIT- BHC-GR-Caliper, Casing to 8225' String 3 – TLD-PEFZ-CNL-GR, Casing to 8225'

High resolution over bottom 200'

ROCK SAMPLES: 30' samples from 650' to 1125' in 17.5" hole

1125' to 7073' sporadic samples when possible,

severe lost circulation and erratic returns.

7073' to 7745' 10' samples, except in lost circulation zones, 7745' to 8225' - 5' samples in Ferron pay zone

**SAMPLE DISTRIBUTION:** 

Three sets of dried samples were made and turned over

to the operator.

**CORRRELATION WELLS:** 

Vortt Exploration

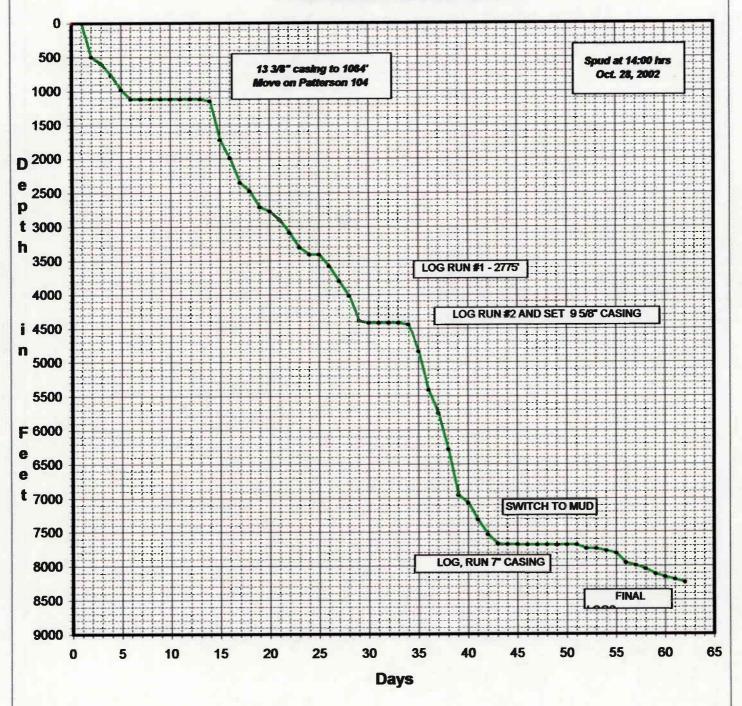
No. 3 Indian Creek

SW, SW, SW, Section 2, T 17 S, R 6 E

Emery County, Utah

TIME VS DEPTH

### Fortuna Middle Mountain #21-16



### FORMATION TOPS

### FORTUNA MIDDLE MOUNTAIN #21-16

Well Name: Location: Elevation:	FORTUNA MID SE,SE, SECTIO G.L. 8655', K.B					
FORMATION /ZONE	PROGNOSIS (ft)	SAMPLE TOP	E-LOG (ft)	SUBSEA (E-Log)	THICKNESS	+/- TO PROGNOSIS
PALEOCENE/U.CRETACEOUS						
North Horn	Surface	Surface			<u> </u>	
UPPER CREATACEOUS						074.0
Price River	450'	450 Est.	831'	7851'	646'	-371.0
Castlegate	940'	955'	1467'	7205'	233'	-527.0
Blackhawk	1105'	1025'	1700'	6972'	1020'	-595.0
Star Point	1925.0	2712'	2712'	5960'	271'	-787.0
Upper Bluegate (Mancos)	2255'	3073'	2983'	5689'	1296'	-728.0
Emery	3075'	4281'	4279'	4393'		-1204.0
Fault within Emery	3500'	Absent				
Lower Bluegate (Mancos)	3895'	5672'	5750'	2908'	1974'	-1860.0
Ferron	5755'	7734'	7738'	934'	466'	-1983.0
Tununk	6205'	8190'	8204'	468'		-1999.0
TOTAL DEPTH	6255'	8240'	8225'	447'		-1985.0
N.P.= Not Present N.R. = Not Reached						

### DAILY DRILLING SUMMARY

# FORTUNA INC, U.S. MIDDLE MOUNTAIN #21-16

			triling Hours	ROP (m/lie)	Mu. Density		nertie w	ç pH	Operations Summary
Date	Depth	Progress		100000			<u> </u>	8.22	Spud well at 1400 hours, drill 17.5" hole with
20.0	0.1	225.00	5.00	47.00					air/mist
28 Oct.	0'	235.00	5.00	47.00				-	Wait on daylight, trip in to 235' and drill ahead with
20.0	5001	265.00	11.00	24.10				Ì	air mist. Shut down for the evening at 500'
29 Oct.	500'	265.00	11.00	24.10					an mist. Shat down for the evening at 500
									Wait on daylight, small amount of water encountered
									at 500', pressure up to 20 psi. Wiper trip out to the
									hammer, lay down hammer for bigger one, start
30 Oct.	600'	100.00	8.50	11.80					Energy Air to location to help lift cuttings.
30 Oct.	000	100.00	8.50	11.00	<del>                                     </del>	-			Drill ahead in surface hole with air hammer, 10 feet
1		•							of fill when arriving at morning. WOB 2000, RPM
31 Oct.	775'	175.00	9.00	19.40					30, Pump Press. 280
31 00.	113	173.00	7.00	17.40	<del>                                     </del>	-	<del> </del>		Drill ahead with water/foam in surface hole, shut
								l	down for evening. WOB 2000, RPM 30, Pump Press.
01 Nov.	985'	210.00	9.25	24.30					300
OT NOV.	703	210.00	7.25	21.50	-				Drill with air mist to 1125', condition hole, lay down
									drill pipe, move in crane and set 25 joints of 13 3/8"
02 Nov	1125'	140.00							casing to 1063.7" ground level.
021101	1123	110.00		*****					
									Move off Bill Martin Jr. Rathole Drilling rig, wait on
03 Nov.	1125'	0.00	0.00	0.00					Paterson rig. Finish cementing casing from surface.
03 1.00.		3,10			1				Paterson Drilling Co. Rig 104 begins arriving on
04 Nov.	1125'	0.00	0.00	0.00				1	location. Crews begin rigging up - daylights only
									Paterson rig continues to arrive and be rigged up,
05 Nov.	1125'	0.00	0.00	0.00	j				daylights only
									Rig loads are on location except for one. Crews rig
06 Nov.	1125'	0.00	0.00	0.00					up. Light plant is operational
07. Nov.	1125'	0.00	0.00	0.00					Continue to rig up
									Pressure test BOP's and blind rams. Construct blooie
08 Nov.	1125'	0.00	0.00	0.00		]			line. Trip in and drill out shoe.
									Trip in with air hammer. No shoe integrity, leaks off
09 Nov.	1125'	0.00	0.00	0.00					slowly at 100 psi
10 Nov.	1152'	27'	0.50	54.00					Drill ahead with air/mist, taking on water.
11 Nov.	1722'	570'	17.50	32.6'					Trip in with bit and drill with water/air
									Drill, trip for shock sub at 1975', pick up six drill
12 Nov.	1996'	274.00	15.00	18.20					collars, drill ahead
13 Nov.	2354'	358'	17.50	20.45					Drill ahead
									Drill to 2391, trip for bit, run directional survey, Drill
14 Nov.	2476'	122'	13.00	9.40					ahead.
15 Nov.	2713'	237.00	20.00	11.85					Drill, run surveys
									Drill to 2775', run wiper trip, wait on loggers, trip
16 Nov.	2775'	62'	6.00	10.33			<u> </u>	<u> </u>	out, run logs with Schlumberger,
17 Nov.	2902'	127'	8.00	15.80				<u> </u>	Run logs with Schlumberger, trip in and drill

	T	T *	T	1	<del></del>		_	- T	
18 Nov.	3093'	191'	20.50	9.31	1				Drill shead in Starpoint and Manage in 12 25% but
				<del>                                     </del>	-	<del></del>	+	+-	Drill ahead in Starpoint and Mancos in 12.25" hole
	1					ł			Drill Mancos, run survey, become stuck for 4 hours at
ł	1				ļ	-	i		3293', drill ahead to 3310', losing circulation, trip out
19 Nov.	3310'	217'	21.50	10.09	ĺ				1000' and attempt to regain returns
							1	+	Drill ahead blind for two joints, regains returns and
I	1					1	1	1	drill ahead. Twist off bit, bit sub, monel collar, and 2
20 Nov.	3413'	103'	6.00	17.16	İ	ļ		ı	D.C. at 3413'. Wait on fishing tools.
						_		+	Retrieve fish on third try, trip in to drill, survey line
21 Nov.	3413'	0'	0'	0'					breaks, trip out for survey line
						<b>—</b>			Finish trip for survey line, drill ahead, lose returns at
22 Nov.	3584'	171'	12.50	13.68		1	İ		3584', attempt to regain returns
						$\top$		+	Attempt to gain returns, drill ahead blind, with hole
23 Nov.	3807'	223'	17.00	13.11	1			1	occassionally unloading cuttings
						1	+	+	Drill ahead, trip at 3918' for loss of pump pressure,
24 Nov.	4023'	216'	17.50	12.34	1				trip in and drill ahead.
25 Nov.	4391'	368'	21.50	17.11		_		+	Drill ahead to 4391', stop for logs.
						1		+	2111 direct to 4331, stop for logs.
						1			Drill ahead to 4421', run wiper trip, trip out, wait on
						1	ł	ļ	loggers, logging truck transmission fails, and cannot
26 Nov.	4421'	30'	0.75	40.00				1	get to site, wait on new truck, start logging.
					<del> </del>	+-	+-	+-	get to site, wait on new truck, start logging.
						1	1		Finish logging, rig down loggers, run 9 5/8" casing,
27 Nov.	4421'	0'	0.00	0.00	1			1	cement truck breaks down, wait on new cement truck
				0.00	<u> </u>	+	+-	╁╌	Cement casing, wait on cement, wait on welder for
28 Nov.	4421'	0'	0.00	0.00	1			ł	BOP's
29 Nov.	4421'	0'	0.00	0.00	<u> </u>	+-	+	+-	Wait on welder - Thanksgiving
				0.00		╁	+	+	Nipple up, test BOP, trip and drill 8.75" hole, lose
30 Nov.	4448'	27.00	2.50	10.80	İ		1	i	returns 5' under shoe, drill ahead with air mist
						+-	<del>                                     </del>	+-	Switch to aerated water, drill, trip at 4631', drill
1 Dec.	4843'	395'	13.00	30.38		1	-	ĺ	ahead, survey
2 Dec.	5410'	567'	21.50	26.37		┼	<del> </del>	<del>                                     </del>	Drill in Emery, run surveys
3 Dec.	5752'	342'	21.50	15.90		+-	_	+	Drill Emery and Lower Bluegate
				10.70		<del>                                     </del>		-	Diffi Emery and Lower Bluegate
4 Dec.	6287'	535'	16.00	33.43	1	1		ļ	Drill I ower Bluegate twin for hit of 57651 July 1
			1 1 1 1	55.15		1-	$\vdash$	<del>  -</del>	Drill Lower Bluegate, trip for bit at 5765', drill ahead
	İ				1	1		l	Drill Lower Bluegate, unload well after large water zone drilled, drill ahead, survey, unload and clean
5 Dec.	6956'	669'	18.25	36.16				l	hole
	0,50	007	10.23	20.10		+		<del> </del>	Drill to 7073', begin tripping out to convert to mud,
							]	1	
1								]	first few joints are tight. Trip in open ended to casing,
6 Dec.	7073'	117'	4.50	26.00		1			pump mud and LCM, gain circulation, Trip out and
0 200.	,013	11/	7.50	20.00			<u> </u>		pick up bit. Trip in hole
İ			ļ				Ì		Finish trip, drill ahead, work on pump, shake out
7 Dec.	7318'	245'	10.00	1200	٥٠		1,,	ر ا	LCM, drill, lose circulation at 7304, build volume,
/ Dec.	1310	243	19.00	12.89	8.5	52	16	8.5	drill on.
ŀ						l			Daill and unique and a GASSI C. 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
8 Dec.	7540'	222'	15.25	1455	0.0		1,22		Drill, run wiper trip at 7455' for tight hole, drill, lose
o Dec.	1340	LLL	15.25	14.55	8.8	44	13.2	8.5	circulation at 7473', mix mud and LCM, drill on

	·	1	T	Т	T			_	
9 Dec.	7709'	169'	12.00	14.08	8.4	63	15		Drill, circulate samples, drill, lose circulation at
<i>y</i>	1,,05	105	12.00	14.08	8.4	1 63	1 13	8.	0 7709', approx. 1000 bbls., work stuck pipe
							1		Continue Court is a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec
		[			1	ł		1	Get pipe free, trip out to check bit, trip in slowly,
10 Dec.	7719'	10'	1.00	6.00	0.5	1,2	ĺ.,		ream to bottom. Drill 10', circulate, trip out for logs,
To Dec.	1 1115	10	1.00	0.00	8.5	43	11	8.	2 hit bridge at 7256' with first log, log up from bridge
11 Dec.	7719'	0'	0'	0.00		1	١,		Trip in to condition hole, plug bit at base of casing,
TT Dec.	1/13	<del>                                     </del>	+ -	0.00	8.5	44	9	8.	trip out for bit, trip in and condition hole.
		İ			İ			1	
12 Dec.	7690'	3'	0'	0.00	1 0.5	1,	١.,		Trip out for plugged bit, trip in drill 3', condition
12 Dec.	7030	1 3	<del>                                     </del>	0.00	8.5	60	10	8.0	hole, run wiper trip, make uphole depth correction.
13 Dec.	7690'	0'	1 000	0.00	0.5			١.	Trip out for logs, run logs TD to casing, begin
13 Dec.	7090	1 0	0.00	0.00	8.5	80	9	8.0	running VSP
14 Dec.	7690'		1		İ				Finish VSP, trip in and circulate, begin laying down
		0'	0.00	0.00		<del>  </del>	<b> </b>	$\bot$	pipe.
15 Dec.	7690'	0'	0.00	0.00	<u> </u>		<u> </u>	↓	Lay down drill pipe, run 7" casing in hole.
			1		l		ļ		Cement casing with Schlumberger, WOC, unload
160	7.001						1		slim hole equipment, pressure test blind rams, trip in
16 Dec.	7690'	0'	0.00	0.00					with 6.25" bit, pick up drill pipe
17 Dec.	7690'	0'	0.00	0.00					Trip in hole, wait on ram blocks, run pressure test
			İ						Drill 6.25" hole to core point at 7745'. Trip out, pick
18 Dec.	7745'	55'	2.00	30.00					up core barrel, trip in with barrel.
									Trip in with core barrel, clean hole, become stuck,
	ļ					1	ļ		mix mud, get loose, trip out core barrel, trip in with
19 Dec.	7745'	0.00	0.00	0.00	8.4	45	12	7.0	bit and condition for coring.
l					1				
20 Dec.	7778'	33'	2.25	14.66'	9.5	48	8.4	9.5	Abandon coring, drill ahead with hole caving badly.
•									Condition hole, raise mud weight to 10.4, and drill
								1	ahead, lose circulation at 7814', mix Bicarb, drill
21 Dec.	7814'	36'	5.50	6.65'	10.4	60	8.4	N/A	ahead.
22 Dec.	7955'	141'	22.00	6.40	10.2	52	8.4	8.5	Drill Ferron
									Drill, trip for bit at 7996', hit bridge at 7763' on trip
23 Dec.	7996'	41'	8.50	4.97	10.2	45	8	N/A	in, ream bridges from 7763'-7814'.
24 Dec.	8045'	49'	11.00	4.45	10.2	54	7.2		Ream to bottom and drill ahead in Ferron
									Drill in Ferron, drill into lower sand at 8106', and lose
									circulation at 8120'. Mix mud and attempt to gain
25 Dec.	8120'	75'	16.75	4.47	10	56	7.2	9.5	returns.
									Build volume, gain returns, drill ahead to 8162,
								1	where circulation is lost, mix and pump mud, gain
26 Dec.	8162'	42'	6.50	6.46	10.2	49	6.4	10.0	returns.
									Drill ahead to 8172', losing fluid, mix and pump mud,
			İ			ĺĺ		1	drill to 8178', trip for bit. Ream 100' to bottom, and
27 Dec.	8200'	38'	5.25	7.24	10	42	9.2	10.0	drill ahead.to 8200', build volume.
									Build volume, drill ahead to TD of 240', condition for
			-	J					logs, run first log string and hit bridge and get stuck
İ									at 7778', get loose after 2 hours, bring out logging
28 Dec.	8240'	40'	5.25	7.60	10.2	50	10.2	102	tool.
								. 0.2	Bring tool to surface, trip in with bit and condition
29 Dec.	8240'	0.00	0.00	0.00	10.2	47			hole, run in with log run 1 and log
30 Dec.	8240'	0.00	0.00	0.00	11	50	10		Finish log run 1, wait on orders, run density-
							·~		neutron porosity, geologist, released.
									porosity, geologist, leleaseu.

### **BIT RECORD**

:OPERATOR: Fortuna, Inc., (U.S.)

CONTRACTOR: Patterson Drilling Co., Rig 104 Ground level - 8655'

WELL NAME: Fortuna Middle Mountain #21-16

LOCATION: SE, SE, Section 21, T 16 S R 6 E, Emery County, Utah U.S.

K.B. - 8672'

		11.0 00/2												
Bit	Run	Size	Make	Туре	Serial #	Jets	Depth	Depth	FTG	Hours	ROP	Accum	Weight	RPM
No.	No.						In (ft)	Out (ft)	(ft)		(ft/hr)	Hours	1000	
1	1	17.5"	Air hammer				0'	1125'	1125'					
2	1	12.25"	Air hammer				1125'	1152'	27'	0.50	54.00	0.50		
3	1	12.25"	STC	GT-S28C	6000317	3X18	1152'	2391'	1234'	63.75	19.30	64.25	10-27	110
4	1	12.25"	STC	FDS	ML4284	3X18	2391'	2775'	384'	39.50	9.72	103.75	10-15	110
5	1	12.25"	HTC	GT18	6000931	3X24	2775'	3413'	638'	56.25	11.30	160.00	25	80-100
6	1	12	HTC	GT28C	W190M	3X28	3413'	4421.0	1008'	70.00	14.40	230.00	30-40	80-100
7	1	8.75*	STC	L136	L57ZY	3X16	3321'	4631'	210'	7.50	28.00	237.50	30-40	60-70
8	1	8.75*	STC	F35	MJ3100	3X16	4631'	5765'	1134'	60.75	18.70	298.30	30-40	60-80
9	1	8.75"	HTC	GTS20		3X16	5768'	7719'	1951'	76.75	25.40	375.10	35-45	60-80
10	1	6.125"	HTC	GT 1		Open	7690'	7745'	55'	4.50	12.20	379.60	30-40	75
11	1	6.125"	HTC	STX 20	T37JT	Open	7745'	7996'	251'	40.00	6.27	419.60	25-32	75
12	1	6.125"	HTC	STX 30	5005063	Open	7996'	8178'	182'	36.25	5.02	455.85	25-30	60-75
13	1	6.125"	HTC	STR 30	T12XM	Open	8178'	8240'	62'	8.75	7.08	464.60	22-25	75

## **DAILY MUD RECORD**

### **MUD UP AT 7073'**

DAY	DATE	DEPTH	WT	VISC	WL	рН	FC	PV	YP	GEL	CI	%SOL.
						L				1		
1	12-06-02	7112	8.5	42	16.2	8.5	2/32	11	11	11/15	400	1.2
2	12-07-02	7320'	8.8	44	13.2	8.5	2/32	12	11	4/10/0	500	3.5
3	12-08-02	7540'	8.4	63	15.0	8.0	2/32	14	15	6/13/0	600	0.7
4	12-09-02	7709'	8.5	43	11.0	8.2	2/32	10	10	4/9/0	600	1.7
5	12-10-02	7719'	8.5	44	9.0	8.0	2/32	11	7	4/11/0	600	1.7
6	12-11-02	7719'	8.5	60	10.0	8.0	2/32	17	18	6/22/0	600	1.7
7	12-12-02	7690'	8.5	60	10.0	8.0	2/32	19	17	5/27/0	600	1.7
8	12-13-02	7690'	8.55	97	10.0	7.80	2/32	38	21	5/29/0	600	1.7
9		RUN 7'	'CASIN	IG, SW	TCH TO	AIR	i					<u> </u>
10	12-18-02	7745'	8.4	45	12.0	7.00	2/32	13	21	1/3/5	400	0.3
11.	12-19-02	7752'	9.5	48	8.4	9.5	1/32	17	18	8/13/19	400	3.0
12.	12-20-02	7778'	9.5	59	8.4	N/A	1/32	22	21	7/13/19	0	5.1
13.	12-21-02	7840'	9.9	51	8.4	8.5	1/32	16	14	6/10/15	400	6.1
14	12-22-02	7974'	10.2	45	8.0	N/A	1/32	12	23	8/13/19	0	7.3
15	12-23-02	7996'	10.2	54	7.2	8.5	1/32	18	26	10/15/19	400	7.4
16	12-24-02	8063'	10.0	56	7.2	9.5	1/32	22	31	12/18/21	400	6.8
17	12-25-02	8120'	10.2	49	6.4	10.0	1/32	18	15	8/11/15	400	7.1
18	12-26-02	8173'	10.0	42	6.4	10.0	1/32	14	11	6/10/13	400	6.4
19	12-27-02	8200'	9.65	50	10.2	10.2	2/32	17	8	5/9/11	400	5.4

# **DEVIATION SURVEYS**FORTUNA MIDDLE MOUNTAIN #21-16

Survey Depth (Feet)	Inclination (degrees)	Azimuth	Horiz. Dist.
1124'	0.5 deg	N/A	
1257'	0.5 deg	N/A	
1406'	0.75	N/A	
1592'	1.25	N/A	
1796'	1.50	N/A	
1924'	1.50	N/A	,
2121'	2	N/A	
2238'	3	N/A	
2332'	3	N/A	
DIRECTIONAL SURV	/EY RUN AT 2391'		
1339'	1	14	0
1806'	1.7	358	22.68
2363'	3	333	41.36
Remaining surveys	run at varying intervals		na
2455'	2	N 19 W	47.33
2550'	2.75	N 35 W	50.65
2580	2.75	N 28 W	51.93
2709'	2.75	N 32 W	58
2803'	2	N 33 W	
2926'	2.00	N 34 W	
3053'	1.75	N 32 W	
3147	1.75	N 36 W	
3302'	2.00	N 26 W	
3380'	1.50	N 25 W	
3512'	1.00	N 5 W	
3633'	1.00	N 6 W	
3789'	1.00	N 20 E	
4006'	1.00	N 20 E	
4381'	1.00	N8E	
4585'	2.75	N 15 W	
	2.75	N 24 W	
5077'	2.50	N 27 W	
	2.75	N 29 W	
	2.50	N 17 W	
6545'	1.75	N 32 W	
	0.75	N 13 E	
7670'	1.00	N 105 E	

### WELL & GEOLOGICAL SUMMARY

### FORTUNA MIDDLE MOUNTAIN #21-16

#### **GENERAL:**

Fortuna, Inc. U.S. drilled the Fortuna Middle Mountain #21-16 based on seismic, and surface geology, along with limited well control. This well is located on the geologic feature known as the Wasatch Plateau, an uplifted region in east central Utah. Tectonic activity related to this prospect occurred during and after the Laramide orogeny, with most faulting being Eocene or later. Faulting in the immediate area was extensional, resulting in normal faults. The location was sited on a down thrown block, with the intent being that a predicted fault would be encountered in the Upper Cretaceous Emery Sandstone. The primary target below, the Upper Cretaceous Ferron Sandstone, would then be drilled on the up thrown block.

The Ferron Sandstone has been studied extensively, and is generally interpreted to have been deposited in a deltaic environment, with both marine upper shoreface and non marine fluvial distributary mouth bar sediments. The Ferron in the prospect area contains natural gas, with limited condensate occurring in some wells. Scattered coal beds are known from the non marine facies. The top portion of the Ferron was to be cored using air drilling. Interpretation of the Ferron from area wells suggests this sandstone is very susceptible to formation damage with water based drilling fluids.

Secondary targets in this well included the Upper Cretaceous Blackhawk, which commonly contains coal beds, particularly in the basal portion. Pressurized canisters were supplied for sampling of these coals. The Upper Cretaceous Emery Sandstone was also considered to have gas productive potential, if encountered in a structurally favorable position on the high side of the predicted fault. The Emery, in the prospect area consists of two quartzitic sands separated by silty shale, with a normal section being 1400-1500 feet thick..

#### **DRILLING SUMMARY:**

The Fortuna Middle Mountain #16-21 was spudded in the Paleocene/Upper Cretaceous North Horn Formation at 1400 hours on October 28, 2002. Surface hole at 17.5" diameter, was drilled with air/mist to a depth of 1125' G.L. using a small water well rig, the Bill Martin Jr. Rathole Drilling, Red Rig #3. This operation was daylights only, with the crews working until dark, then shutting down, and going to town for the evening. There was no depth recording system on this rig, so sample intervals were taken at kelly down, or every 25 feet, starting at 675'. A small volume of water was encountered at 550' in the lower portion of the North Horn Formation. This water did not present a significant problem, and drilling continued through the North Horn into the Price River. Log top of the Price River is placed at 821'. In the top of the Price River considerable water was encountered, and after being shut down for the evening, additional water had accumulated overnight with 250' (approximately 75 bbls.) being blown out the following morning.

The Price River was composed of medium to coarse grained sandstone, conglomeritic in part, interbedded with siltstone and minor shale and limestone. Porosity in the coarse sands could not be directly determined due to air drilling completely disassociating quartz and chert grains from matrix. However, due to heavy water flow occurring while shut down at night, porosity is interpreted to be good, in excess of 15%.

Drilling of 17.5" surface hole was halted in the Price River at 1125' G.L. Ground level and K.B. are the same on this small rig. 25 joints of 13 3/8" 48 lb. H40 casing was then run and set at 1063.7' G.L. Electric logs show casing at 1081' K.B. on the Patterson Drilling Co. rig 104 with a seventeen foot K.B.. The casing was run utilizing a crane. The following day the small rig was moved off location.

Patterson Drilling Co., rig 104 was then moved on location and rigged up over the next several days. Drilling then resumed, with 12.25" hole being drilled through the remainder of the Price River and into the Upper Cretaceous Castlegate. Dusting was attempted with air hammer out from under casing. Water was almost immediately encountered and drilling was halted at 1152'. The air hammer was replaced with a bit, and drilling continued using aerated water in an attempt to stay underbalanced in potential lost circulation zones. The shaker was bypassed, and cuttings were not always carried to the surface on a regular basis. Cuttings would occasionally unload at or beneath the shaker and were collected at random intervals, usually at connections. This made for very poor sample quality. This method of drilling continued until intermediate casing was set at 4421'. The log top of the Castlegate is placed at 1467' (+7205'). Lithology was predominantly medium to lower coarse grained sandstone. The samples were virtually 100% unconsolidated due to aerated water drilling, thus porosity was difficult to assess. Logs show density porosity values in the 15-26% range, however these values may be a bit high due to rugose hole conditions. Neutron-density crossover, or gas effect, occurs in several zones, but the out of gauge hole is interpreted to be responsible for this as the resistivity values suggest these horizons are water wet.

Drilling proceeded through the Castlegate into the top of the Upper Cretaceous Price River, which is placed at 1700' (+6972') on logs. The upper and middle sections of the Price River were composed of interbedded sandstone and siltstone with minor shale. The sandstones are predominantly very fine to fine grained, with occasional medium grained. Porosity is generally poor, with some fair intergranular porosity occasionally observed in samples. Logs show maximum density porosity values of 19-20%, with most sandstone intervals showing less than 15%. Occasional neutron-density crossover is present, but the caliper log shows these areas to be highly washed out, invalidating this apparent gas effect.

Drilling proceeded into the lower Blackhawk, where coals began to be encountered. The coals in the basal Blackhawk are mined at several localities in the area. Thin coals were interpreted from drill rate and limited, poor sample quality due to aerated water drilling, and lack of regular returns. Thin coals were interpreted to be present at 2508'-14, 2532'-34', and 2631'-33'. The hole unloaded samples shortly after the 2508'-14' interval and abundant coal was observed and placed in a pressure sealed canister for analysis for coal bed methane potential. Logs show coals at 2508'-11', 2549'-51', 2559'-61', and 2629'-31'.

Drilling proceeded into the basal Blackhawk, where two significant coal beds were encountered. These drilled at a rate of less than one minute per foot. The hole unloaded later and considerable coal was expelled. This coal was also placed in a sealed canister for analysis. Logs shows these coals at 2689'-95', and 2701'-10'.

Drilling continued approximately 50 feet into the Upper Cretaceous Starpoint to 2775', where the hole was logged prior to running 9 5/8" intermediate casing, as well as ascertaining the structural and stratigraphic setting.

Logging was accomplished with Schlumberger, with a unit being brought over from Rock Springs, Wyoming, as the Vernal, Utah trucks were all on other jobs. The Array Induction Tool (AIT) did not function properly, and another tool had to be brought in from Vernal.

Analysis of the dipmeter data resulted in the interpretation that dips were generally less than 10 degrees to the east, with dip decreasing to 5 degrees or less toward the bottom of the hole. Occasionally higher angle dips occurred in some sandstones and these were thought to represent cross bedding rather than structural dip.

The decision was made to continue drilling 12.25" hole in order to get as deep as possible before running 9 5/8" casing. This would allow for a better chance of reaching the Upper Cretaceous Ferron prior to setting the next casing string (7"). Drilling continued through the Starpoint and into the Mancos, locally known as the Upper Bluegate. The Starpoint is predominantly fine-medium grained quartzose sandstone, which occurred in samples as totally unconsolidated grains, due to the aerated water drilling method.

The Starpoint appears on logs at 2712' (+5960'). Gamma Ray shows 271 feet of clean sandstone, with no appreciable porosity. The basal contact with the Mancos (Upper Bluegate) is abrupt in this well, while normally this contact is transitional. This may suggest a lower fluvial, channel facies is present locally. The Mancos (Upper Bluegate) was drilled to 3293' where returns were lost due to massive lost circulation. Drilling then proceeded to 3310', while losing circulation, likely in the shale near bottom. Drilling was halted and attempts began to regain circulation, with minimal success. Drilling blind continued with sporadic unloading of the hole allowing for some samples of questionable quality.

At 3413', the drill string parted, leaving the bit, bit sub, monel collar, and two drill collars in the hole. The fish was retrieved on the third attempt, and drilling continued blind to 3460', where the hole began to periodically unload. Returns were sporadic throughout the remainder of the Mancos. Lithology interpreted from poor-fair samples was primarily shale with considerable interbedded shaly siltstone, and occasional very fine grained tight shaly sandstone. Scattered carbonaceous inclusions were observed. Interbedded sandstone, siltstone and shale were drilled for the remainder of the Mancos. Log top of the Mancos is placed at 2983' (+5689'), resulting in an anomalously thick section of 1296'. This thickness is interpreted as indicative that fault movement was occurring contemporaneously with Mancos deposition, although movement was apparently at a lesser rate than later during Price River and North Horn time.

The top of the Upper Cretaceous Emery member was encountered at 4279' (+4393') on logs, when drill rate increased to 1.5 minutes per foot from a prior rate of 2.5 to 5 minutes per foot. The top 60 feet of the Emery continued to drill less than 2 minutes/foot, with no returns being recovered. The hole finally unloaded at 4373'. Lithology from very poor samples was a 50/50 mix of very fine grained light brown shaly sandstone with interbedded light brown very soft slightly carbonaceous shale.

Drill rate of less than one minute/foot occurred between 4360'-4370'. Lithology was coal with interbedded very fine grained sandstone. Sample quantity was minimal, not allowing for the coal to be placed in a pressurized canister for analysis.

Drilling continued to 4421' where logs were run and 9 5/8" casing was set. No shows were observed in the Emery to this depth. Sandstone encountered immediately below the coals was mostly unconsolidated and fine-medium grained subangular-subround quartz with scattered brown chert and black organic coating on quartz grains. Logs show the sandstone intervals in the Emery to be tight, with no indications of gas effect, or hydrocarbon productive potential.

Subsequent to running 9 5/8" casing, drilling continued in the Emery. A full section of the Emery was drilled without encountering an anticipated normal fault that was expected to significantly shorten the section. Sample quality was very poor at times, with intervals of 100 feet or more having no returns due to the aerated water sporadically forcing the hole to unload. The shaker was continuously bypassed, thus gas detection efforts were not successful. The reserve pit would reach full status at times, and air would be taken off the hole, resulting in no returns for some length of time. Toward the base of the Emery the mud logging equipment was rigged down, as it had been nearly totally ineffectual to this time.

Lithology in the Emery was predominantly very fine grained quartzitic sandstones, interbedded with siltstone and occasional shale. Several thin coal beds were encountered at the following depths: 4360'-4372' (3 thin seams), 4556'-4560', 4658'-4662', 4678'-4680', 4868'-4872', and several coal seams between 4895'-5004'. Two coal beds were drilled between 5212' and 5232'. The basal Emery coal horizon, visible on several offset logs was encountered between 5452' and 5466'. Due to the paucity of sample, and at times no returns, these coals were not placed in canisters for analysis. Electric logs show thin coals essentially at very similar depths to the intervals listed above.

Electric logs of the remainder of the Emery penetrated after logging run number 2, do not show any productive horizons. Numerous thick sandstone units are present, with density porosity values averaging 12-15 percent. No density-neutron crossover, or gas effect, is present. Resistivity values are very low, with the interpretation being that these intervals are water wet. Porosity decreases in the basal portion of the Emery ands grain size was observed to also decrease in samples.

The basal Emery becomes transitional with the underlying Lower Bluegate (Mancos), turning to shale with interbedded siltstone and thin tight sandstone. At about 6000', massive sloughing of coal was observed at the shaker. This continued for the next hundred feet, with some samples carrying more than 50 percent coal cavings. This top on logs is often difficult to assign due to the transitional nature of the sediments. The top of the Lower Bluegate is placed at 5764' (+2908') on logs. TVD depth would only be about 2 feet shallower.

Drilling proceeded with aerated water, with periods of no returns. When compressors were fully deployed on the hole to clean and lift cuttings, water entry would also occur. This resulted in filling the reserve pit very quickly at times. This necessitated shutting down the compressors in part or entirely. Drilling ahead with just water resulted in essentially no returns to surface.

Drilling with aerated water continued to 7073', where it was determined that in order to obtain reasonably accurate gas detection and sample data, gel chem. mud would have to be employed. In addition, the hole was occasionally becoming tight due to incomplete lifting of cuttings during periods when compressors were not fully utilized.

Drilling with gel chem. mud commenced with viscosity in the 42-63 range, and mud weight kept at the minimum of 8.4 to 8.5 lbs/gallon, in order to limit the degree of lost circulation. Lower Bluegate intervals experiencing lost circulation were at 7304' (300 bbls.), and 7473' (approx. 470 bbls.). Sample quality deteriorated after these episodes, with the addition of massive volumes of LCM. With 99-100% LCM and a trace to 1% of sample being recovered, rig crew sample catchers began to wash five gallon buckets of LCM with a high pressure rig hose. This had the effect of floating off the LCM after several minutes, leaving a handful of cuttings in the bottom of the bucket. Interpretation from this method was determined to be reliable, with subtle changes from sample to sample being observed.

Drilling of 8.75" hole proceeded to 7699', where a slight drill rate increase from 4.5 minutes/foot to 3.0 to 3.5 minutes/foot occurred. At the connection at 7705', slight mud losses began. Samples were going to be circulated 5 feet after the connection as the drill rate suggested that the top of the Ferron had been encountered. The top of the Ferron was to be verified prior to logging, running 7"casing, and coring with air. Before samples could be circulated, total loss of circulation occurred at 7709'.

In the next few hours, several attempts to gain returns were unsuccessful, with approximately 1000 bbls. Being lost. While building volume at one point, hole caving at some unknown depth resulted in mud displacement and unloading at the surface. No gas, or evidence of hydrocarbons were detected during in this event.

The decision was made to trip out, with a tight section being encountered at about 7325'. The pipe was worked for about 3 hours before becoming free. The bit was checked and the trip back into the hole resumed, very slowly. Circulation was started at casing bottom and the remainder of the hole was reamed, with very low pump pressure (250 lbs.). A mix of 40% LCM in the mud had been reached, and no appreciable mud loss occurred tripping in the hole.

Drilling continued for another 10' to 7719'. Sample quality was extremely poor, with abundant mica and granitic LCM material, including quartz and garnet chunks. Lithology present was predominantly Bluegate shale, with minor limestone. A trace of shale with well rounded medium to lower coarse grained quartz imbedded was observed along with a trace of light gray siltstone and very fine grained shaly sandstone. The rotary table jumped considerably at times in this interval, suggesting highly fractured lithology. A gas show accompanied this 10 feet, with a maximum of 0.39 percent total gas being recorded. The chromatograph breakdown showed some C-2 and C-3 percentages, with mostly C-1. This assemblage was interpreted by the Datalog logger, Gord Bennett, to signify the presence of gas and condensate.

This show suggested proximity to the Ferron and a possible core point, thus drilling was halted. The pipe was strapped with a depth of 8687' being recorded. The initial logging run with FMI/Sonic/GR encountered a bridge at 7256' in the Lower Bluegate. The section of the hole above the bridge was logged, prior to tripping back in to clean the hole. The pipe was again strapped going in, with the same result of 8687'. A 32' uphole correction was then made. An additional three feet was drilled to insure that the bit was on bottom. Logs were then run at the corrected depth of 7690' with no problems. Loggers recorded a depth of 7684'. A Gamma Ray tool was run to bottom to get a view as close to the lost circulation and shows zones. This log showed the top of a clean sandstone at the bottom three feet of tool readings, approximately 7-8 feet off bottom. This zone was variably interpreted to lie within 5 to 20 feet of the top of the Ferron Sandstone by this consultant and Fortuna geologists.

The decision was made to run 7" casing and drill out using air with 6.25" bit to core point, rather than risk lost circulation and formation damage by drilling ahead with mud.

Subsequent to running casing, air drilling was employed to reach core point in the top of the Ferron. Slight water entry occurred in the basal Bluegate, and air/foam was employed to lift cuttings. Considerable large shale cavings were observed while drilling ahead. Drilling was halted at 10-12 foot intervals to check samples. Sandstone and light brown, and light gray bentonitic shales and bentonite was observed in the 7730'-7745' samples. Abundant dark gray shale was also present, but the influx of both unconsolidated quartz grains and intact well cemented, very fine to fine grained sandstone was interpreted to be the top of the Ferron. Drilling was halted at 7745' for coring.

Upon reaching bottom with the core barrel, it appeared some fill was present and much shale in large chunks was washed and circulated to surface with air/foam. Shortly thereafter the core barrel became stuck. After attempting to come free for a short period of time, the decision was made to switch to mud. The pipe came free after about four hours, but pump pressure could not be maintained as mud loss was occurring. Additional mud was mixed, pumped and circulated for three hours, with mud loss being minimized. The core barrel was then brought out of the hole, and the bit put on for trip in to clean out the hole, prior to another coring attempt.

While circulating and conditioning the hole, it became evident that substantial caving of dark gray basal Bluegate shale was in progress. It became difficult to get back to bottom and barite was ordered in an attempt to stabilize the incompetent horizon. At this point coring was abandoned due to hole conditions

Drilling proceeded from 7745' to 7763', where the connection was very difficult to make, requiring about 6 hours of reaming and circulating cavings.

A clean Ferron upper shoreface sandstone was encountered at 7755', with drill rate picking up from 6-9 minutes/foot to 3.5 to 4 minutes/foot. A gas increase from 3 units (0.03%) to a peak of 19 units (.19%) accompanied the drill break. The chromatograph showed mostly methane with minor amounts of methane, propane and butane, interpreted by the mudlogger to signify the presence of condensate or light oil associated with gas. Lithology was very fine to medium grained quartzitic sandstone with occasional dark chert, and rare glauconite. Clusters were mostly well cemented with silica, though occasionally slightly calcareous. Clay content was visible in pore spaces, and porosity was rated as generally poor, in the 6-8% range. Scattered black dead oil stain was observed, and the sand exhibited even, dull to moderately bright yellow fluorescence, which gave slow faint yellow-white streaming cuts when immersed in solvent. This lithology was observed from 7755' to 7765'.

Grain size decreased to predominantly very fine grained over the underlying interval of 7765'-7778'. Clay content increased, resulting in porosity estimation in the 3-4% range. Fluorescence and black residual stain also decreased as did total gas values, which dropped to 3-10 units (0.03 to 0.10%).

Drilling was halted at 7778', due to excessive caving of the basal Bluegate shale. Mud weight had been brought up to 9.5 with the addition of barite, in an attempt to hold back the sloughing shale. During repeated tries to get back to bottom at 7778', approximately 60 barrels of mud were lost. The decision was made that this caving interval had to be cemented, and a trip out of the hole was made to check the bit. The decision to cement was reversed and it was deemed prudent to get mud weight up above 10.0. Mud weight was raised to 10.4, with viscosity at 60 and the sloughing interval was gradually healed, and drilling proceeded into the middle alluvial facies of the Ferron.

The alluvial facies was comprised of interbedded channel sandstone, siltstone, and shale, with a thin coal bed encountered at 7803'. The 1 to 1.5 foot thick coal recorded 26 units (0.26%) on the gas detector.

A lost circulation zone was drilled at 7814', with approximately 70 barrels being lost. Returns were regained in a couple hours and drilling continued. The middle portion of the Ferron was drilled to 7996', where a trip for bit was undertaken. On the trip in bridges and tight hole were encountered from 7763' to 7814', which required extensive reaming for 18 hours.

Once on bottom, drilling continued in the middle Ferron alluvial facies comprised of interbedded tight well cemented sandstone, siltstone, and shale. Near the bottom of this horizon, gas shows accompanied by carbonaceous shale and coal in the samples was observed from 8095' to 8106'. Gas peaks at these depths were 0.081% and 0.342% respectively (8 units and 34 units).

Immediately beneath the coal at  $8105^{\circ}-06^{\circ}$ , sandstone of the basal Ferron shoreline facies was encountered. Drill rate picked up from the 12-15 minutes per foot to 5-8 minutes per foot from  $8106^{\circ}-8111^{\circ}$ , with a total gas peak of 0.163% (16 units), from a background of 2-4 units prior to the coal. Lithology was very fine to medium grained, well sorted, non calcareous sandstone, with porosity estimated visually at 5-12%, better than that observed in the upper Ferron sandstone. This sand contained considerable intergranular black dead oil stain or bitumen, which did not give off fluorescence, but yielded weak streaming cuts when immersed in solvent. The gas values recorded in these intervals were under increased mud weights (10.1-10.2 lbs/gal.) and viscosity of 52-56. Under more balanced conditions, higher gas readings would likely have been observed.

Drilling continued, and the next samples (8110', 8115', and 8120') were 100% sandstone, with average grain size decreasing, and clay content in pore spaces increasing in some clusters. These samples also became very calcareous. Black intergranular dead oil stain decreased from above, and only sporadic faint residual cuts were obtained in what appeared at this point to be a fining downward section. Total gas values also decreased in this interval to .06 to .10% (6-10 units). No fluorescence or live oil stain was observed.

Massive lost circulation took place at 8120', with the initial loss of approximately 210 barrels. Ultimate loss in this zone was over 300 barrels. Drilling began again after 20 hours of stabilizing efforts, with abundant bicarb being placed in the hole as LCM. This material was 99% of the samples over the next 40 feet. Circulation was again lost at 8162' in the interbedded transitional zone between the lower Ferron sand and the Tununk shale. Drilling with slow continual mud loss was stopped at 8173' in order to build volume. A bit trip was required at 8178', with the bottom 100' being reamed before drilling resumed, again with continual mud loss. Drilling was stopped for four hours at 8200' in order to build mud volume, with about 150 barrels being lost since the trip.

The well was drilled to total depth of 8240', into the top 50 feet of the Tununk Shale without further significant mud loss.

A wiper trip to casing was run and it became necessary to ream much of the way to bottom. Conditioning continued for several hours prior to tripping out for logs. The initial logging run with AIT-BHC-GR-Caliper ran into bridges just under casing at 7798' and 7811'. When loggers attempted to pull up they became stuck, with the top of the tool at approximately 7725', which is in the basal Bluegate interval that had caved so badly a few days earlier. Loggers could drop the tool down to the bridge at 7811', and could come no higher than 7778' (bottom of tool). Tension of 6500 lbs. was kept on the tool after several attempts to pull up through the tight spot for an hour. After an additional hour of holding tension at 6500 lbs. the tool broke free and was brought to surface.

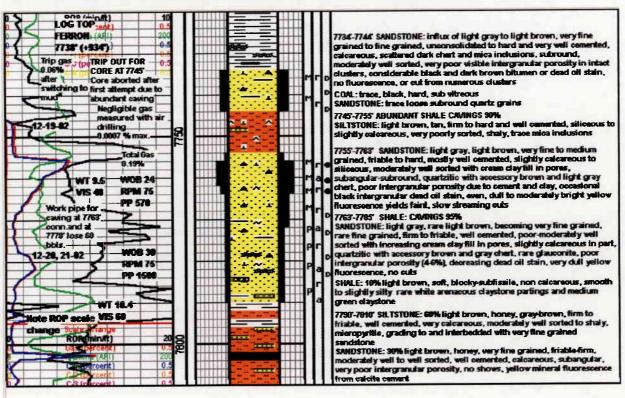
A trip with a bit was then made in to condition and raise mud weight to 10.0 lbs/gal.or slightly higher. Prior to attempting logging again, a pill of 11.0 lb./gal. mud was spotted below casing to total depth.

The AIT-BHC-GR-Caliper string was then run in the hole successfully, with occasional tight spots and minor bridges. A high resolution pass was run over the bottom 200'. Due to adverse hole conditions it was decided not to run high resolution over the entire Ferron. This data was immediately transmitted to the log analyst in Calgary. After careful consideration, it was decided to carefully attempt running the TLD-PEFZ-CNL-GR, with instructions to pull out of the hole if any resistive bridges were encountered. This string went to bottom with little obstruction, and logging up to casing encountered only a couple minor tight sections. A high resolution pass was made over the bottom 200'. No repeat section was undertaken due to the risk of staying in the hole too long.

### ELECTRIC LOG INTERPRETATION OF THE FERRON

The initial logs on location were calculated using sandstone matrix. Due to the considerable amount of calcite cement observed in drill cuttings, Schlumberger was requested to also do a set of logs using limestone matrix, at a later date.

The log top of the Upper Cretaceous Ferron is placed at 7738' (+934'). The initial clean sandstone appears from 7756'-7786', but is rather shaly (35-50 API gamma ray values). Both density-neutron and Sonic porosity values are very low, on sandstone matrix. No gas effect occurs through this interval.



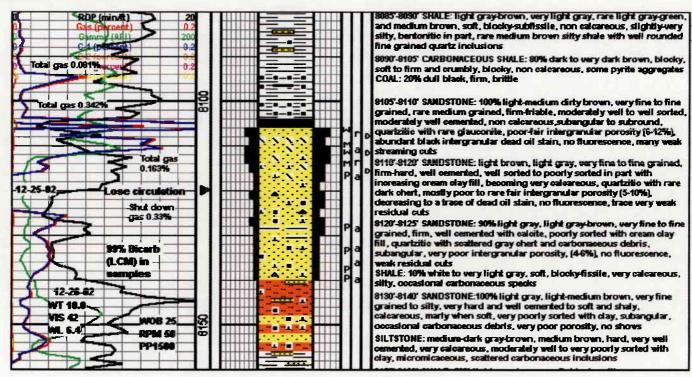
The previously mentioned coal zone shows up from 7797'-7805', and is underlain by a well developed sandstone from 7810'-7836'. This interval shows apparent marginal gas effect, with the neutron and density curves approaching each other. However porosity values are rather low, in the 3-8% range. Approximately 70 barrels of mud were lost at 7814', and low gas readings were recorded through the interval. This interval appears to have some potential for gas, if the overlying coal has charged the fractured reservoir, and the zone can recover from drilling fluid invasion.

The middle Ferron non marine alluvial section begins at 7840' with occasional thin fluvial sandstones interbedded with siltstone and shale. The sandstones rarely exceed 4% density porosity. Much of this portion of the Ferron is out of gauge, impacting density porosity values. The best indicator of potential productive zones may come from the geologist's interpretative log which notes gas shows in sandstones as follows: 7925'-7940', and 8050'-8060'. These sandstones appear tight with neutron porosity values of 3-8%. Neutron porosity values are considered more reliable than density values in areas where hole diameter is very rugose. No gas effect appears on logs in the middle Ferron.

The clean lower Ferron is found at 8111', with gamma ray values consistently below 20 units to 8144'. Porosity values were calculated from sandstone matrix to be no better than 6%, with limestone matrix values computed at 3%. Actual porosity is interpreted by log analysis to be in the 4.75 to 5% range. This intergranular porosity is rather poor, but associated fracture porosity may well prove beneficial for production in this horizon if formation damage from drilling fluid is not too extensive. Circulation was lost at 8120' immediately after a gas show of 0.342% (34 units) in a thin coal at 8104', followed by a 0.163% (16 units) peak in the top of the lower Ferron at 8108'-8110' (driller's depths). Additional lost circulation occurred from 8160'-8162'

Fracture porosity may have productive potential in the Ferron, however in this well probable formation damage occurred from massive lost circulation, as well as the heavy 10 to 11 lb/gal. Mud that was pumped.

Subsequent to running logs, 4.5" production casing was run to bottom for future completion attempts in the Ferron.



### **CONCLUSIONS**

- 1. No appreciable faulting appears to be present in this well, with the entire drilled section lying within the graben.
- 2. The anomalous thickening of the younger formations such as Price River, Castlegate, Blackhawk, and Upper Mancos suggests that early fault activation was contemporaneous with sedimentation of these units, with increased deposition funneling into the down dropping graben regions. The thickness of the above units is 10-30% thicker than in area wells or in exposed outcrop sections.
- 3. Log analysis results indicate that the Upper Ferron is shaly and rather tight. The Lower Ferron is clean, with gamma ray values consistently below 20 API units. However this horizon is very well cemented. The upper 5 to 8 feet were cemented with silica, with the remainder of the lower Ferron becoming well cemented with calcite. Log interpretation yields probable porosity values in the 5% range.
- 4. It is suspected that considerable formation damage is likely in lost circulation zones, and intervals where gas may have been held in fractures.
- 5. The Fortuna Middle Mountain # 21-16 will undergo completion in the Upper Cretaceous Ferron sands for natural gas.

### **FUTURE DRILLING**

- 1. Fewer days would be lost if the triple rig was brought in to drill surface hole, rather than the small water well rig.
- 2. Drilling blind in some uphole zones may become necessary in order to decrease costs. If confidence is high as to the structural setting, then sample and gas detection data could be temporarily sacrificed in order to get the hole down near the pay in a more timely manner.
- 3. Casing should be set just into the top of the Ferron in order to avoid the highly unstable basal Bluegate bentonitic shale horizon immediately on top of the Ferron. This may also allow for air drilling in the Ferron reservoir, which could avoid formation damage incurred by drilling with mud.

### **FORTUNA MIDDLE MOUNTAIN #21-16**

Wasatch Plateau, Utah

Logging Suite #1 (2775' to 1081')

	<u> </u>		
Date:	15-16	Company:	Schlumberger
	Nov.02		
Drillers T.D.	2775'	District:	Rock Springs, Wyoming
Loggers T.D.	2772'	Engineers:	Hugo Gonzalez
G.L.elevation:	8655'	Unit Number:	2187
K.B. elevation:	8672'	Witnesses:	Bill Hedglin, Rod Cuthill

Bit size:	12 1/4"	Mud Density:	
Last casing:	13 3/8" @ 1125'	Mud Viscosity:	
Type fluid in hole:	Fresh water	Mud pH:	
Time Circ' ended:	22:30, Nov. 15	Filtrate loss:	

**Logging Sequence** 

	-	~ <del>~~</del> 6~~					
Run	Tool	Date	Start in	On	Repeat	At	Logging
#			hole	bottom	Section	surface	hours
1	Platform Express	16 Nov.	01:00 hrs	03:50 hrs	04:15 hrs	06:30 hrs	5.5 hrs
	(AITH-TLD-PEFZ-CNL-						
	GRAINED-BHC)		<u> </u>				
2	AIT (rerun)	16 Nov	07:15 hrs	07:45 hrs	08:30 hrs	09:00 hrs	3.0 hrs
3	FMI	16 Nov.	11:15 hrs	11:45 hrs		13:00 hrs	3.55 hrs
4	AIT (New tool)	16 Nov.	14:00 hrs	14:45 hrs		16:00 hrs	3:0 hrs
5							
6							
7		1					

#### **Time Lost**

8.5 hours for improperly functioning AIT

#### Remarks

Glenn Gray with Talisman determined that the AIT was not functioning, and requested a rerun which was equally non satisfactory. A replacement tool was brought in from Vernal, Utah, and this one functioned properly on run # 4.

### **FORTUNA MIDDLE MOUNTAIN #21-16**

Wasatch Plateau, Utah

Logging Suite #2 (4421' to 1081')

	00 0		
Date:	26 Nov.02	Company:	Schlumberger
Drillers T.D.	4421'	District:	Vernal, Utah
Loggers T.D.	4414'	Engineers:	Zenobio Matos
G.L.elevation:	8655'	Unit Number:	3031
K.B. elevation:	8672'	Witnesses:	Bill Hedglin, Rod Cuthill

Bit size:	12 1/4"	Mud Density:
Last casing:	13 3/8" @ 1125'	Mud Viscosity:
Type fluid in hole:	Fresh water	Mud pH:
Time Circ' ended:	18:25, Nov. 25	Filtrate loss:

**Logging Sequence** 

		188 8	7 7 7 7 7 7				
Run #	Tool	Date	Start in hole	On bottom	Repeat Section	At surface	Logging hours
1	Platform Express (AITH-TLD-PEFZ-CNL- GRAINED-BHC)	26 Nov.	05:45hrs	06:50 hrs	07:45 hrs	09:40 hrs	3 hrs.,55 minutes
2							
3							
4							
5							
6							- "
7							

### **Time Lost**

8 hours for waiting on loggers

#### Remarks

First logging truck had transmission problems and could not make it up Cottonwood Canyon. Replacement truck arrived 8 hours later. Loggers could not transmit data from location. Limited log sections were faxed from company man's fax machine. Total logs were transmitted from Schlumberger's Vernal office later.

### **FORTUNA MIDDLE MOUNTAIN #21-16**

Wasatch Plateau, Utah

Logging Suite #3 (4413' to 7684')

	<b>656</b>	1200 110 ( = ==	
Date:	10 Dec.02	Company:	Schlumberger
	& 12 Dec.		
Drillers T.D.	7719'	District:	Vernal, Utah
Loggers T.D.	Bridged and 7684'	Engineers:	Marissa Ebert
G.L.elevation:	8655'	Unit Number:	3188
K.B. elevation:	8672'	Witnesses:	Bill Hedglin, Mel Knezevich

Bit size:	8.75"	Mud Density:	8.5/8.5
Last casing:	9 5/8"" @ 4413'	Mud Viscosity:	43/63
Type fluid in hole:	gel chem.	Mud pH:	8.2/8.2
Time Circ' ended:	17:25, Dec.10 and	Filtrate loss:	11.0/9.0
	09:00 on Dec. 12		

**Logging Sequence** 

	_	- 455	7040200				
Run #	Tool	Date	Start in hole	On bottom	Repeat Section	At surface	Logging hours
1	FMI-BHC-GR	11 Dec.	01:00hrs	Bridge at 7256'	N/A	06:00 hrs	9.5
2	BHC-GR	12 Dec.	13:10	14:30	14:35-45	15:30	3.2
3	AITH-TLD-PEFZ-CNL-GR	12 Dec.	16:30	17:15	17:20-35	18:40	2.15

#### **Time Lost**

Dec. 10	3 hours that loggers waited as drill string was pulled wet – plugged bit
Dec. 12	None

### Remarks

Logger hit bridge at 7256' with FMI tool on Dec. 11. Hit bridge several times at tolerated speed for that tool, with no success. The hole was then logged from the bridge to near casing at approximately 4450.' On the Dec. 12 logging job no hole problems were encountered.

### **FORTUNA MIDDLE MOUNTAIN #21-16**

Wasatch Plateau, Utah

Logging Suite #4 Depth-8240'

Date: Dec. 28- 29, 2002		Company:	Schlumberger
Drillers T.D.	8240'	District:	Vernal, Utah
Loggers T.D.		Engineers:	Jill Haynie
,			Marissa Ebert
G.L.elevation:	8655'	Unit Number:	
K.B. elevation:	8672'	Witnesses:	Bill Hedglin, Ernie Natte

Bit size:	6.125"	Mud Density:	10.2, 11.0 on bottom on Dec. 29
Last casing:	7" @ 7689'	Mud Viscosity:	50
Type fluid in hole:	gel chem.	Mud pH:	10.2
Time Circ' ended:	21:00 Dec. 27, 01:00 on Dec 29	Filtrate loss:	10.2

**Logging Sequence** 

		<u> 888 - </u>					
Run #	Tool	Date	Start in hole	On bottom	Repeat Section	At surface	Logging hours
1	AITH-BHC-GR-CALIPER	Dec. 28	04:00	Bridged and stuck for 2 hrs.	Section	Surface	noms
2	AITH-BHC-GR-CALIPER	Dec. 29	06:00	0:800	08:10-25	0915	3.25
3	TLD-PEFZ-CNL-GR	Dec. 29	14:55	15:44	None- adverse hole condition	16:45	1.8

### **Time Lost**

String 1	Conditioning hole required longer than expected – loggers waiting prior to run			
	No 1. for 5 hours			
String 2	None			
String 3	4 hours – waiting on orders on whether to put radioactive source in the hole.			

### Remarks

Bridges were encountered, and tool was stuck for two hours on run No. 1. Pull out of hole and run in with bit to condition hole and spot pill on bottom.

# LITHOLOGY DESCRIPTIONS FORTUNA MIDDLE MOUNTAIN #21-16

Sample descriptions commence at 675° in the Upper Cretaceous Price River Formation. 25' samples were collected in the 17.5" surface hole by rig crews, with a sample caught at Kelly down of each 25' joint.

- 650'-675'

  CLAYSTONE: 50% lavender, medium yellow-brown, soft, very silty, non calcareous, grading to siltstone

  SILTSTONE: 30% medium gray, soft-firm, very shaly, highly calcareous, arenaceous in part, quartzitic

  SANDSTONE: 20% light gray, cream, very fine to fine grained, firm-friable, moderately well to poorly sected with clay fill, poor-moderately well cemented with calcite, subangular, quartzitic with rare dark chert, predominantly poor to occasional fair intergranular porosity (9-12%)
- 675'-700' SILTSTONE: 50% light gray, soft-firm, poor-moderately well sorted, shaly in part, very calcareous, quartzitic

  SANDSTONE: 50% light-medium yellow-brown, very fine to fine grained, friable to hard and well cemented, poor-moderately well sorted, shaly in part, calcite cement, subangular, quartzitic with scattered white feldspar, poor visible intergranular porosity
- 700'-725' SILTSTONE: light-medium gray, soit-firm, very poorly sorted, shaly, very calcareous, grading to silty shale
- 725'-750' SILTSTONE: 90% light-medium gray, yellow-brown, soft-firm, very shaly, very calcareous, arenaceous in part when yellow-brown

  SANDSTONE: 10% medium yellow-brown, very fine grained, firm-hard, poor-moderately well cemented, very calcareous, very poorly sorted with clay fill, subangular, poor visible porosity

  SHALE: trace, medium-dark gray, soft, blocky, carbonaceous to coaly in part, micromicaceous
- 750'-775'

  SANDSTONE: 100% light gray, light brown medium yellow-brown, very fine to medium grained rare lower coarse grained, unconsolidated in part, friable-firm, moderately well to well cemented, poor-moderately well sorted with much light gray and yellow-brown clay fill in part, very calcareous, quartitic, subangular, predominantly poor to occasional fir intergranular porosity (10-12%), no fluorescence or shows

SHUT DOWN FOR EVENING AT 775,' RIG UP ADDITIONAL AIR COMPRESSORS AND DRILL AHEAD WITHAIR FOAM.
SAMPLE QUALITY DECREASES IN AIR DRILLED HOLE

- 775'-800' SANDSTONE: 80% light gray, light yellow-brown, fine-medium grained, rare lower coarse grained, 90% unconsolidated grains of clear to translucent quartz due to air drilling, subangular-subround, intact clusters are moderately well cemented with calcite, scattered red iron stain and dark chert, possible fair intergranular porosity in part (12%), no shows

  SILTSTONE: 20% medium gray, soft, very poorly sorted, shaly, very calcareous, quartzitic
- 800'-825' SILTSTONE: 100% light-medium gray, light yellow-brown, mottled gray and yellow-brown, rare cream, soft-firm, very poorly sorted, shaly, very calcareous, rare mica, trace brown carbonaceous debris, very well cemented in part grading to trace silty limestone

#### LOG TOP PRICE RIVER 821' (+7851')

- 825'-850' SANDSTONE: 100% light brown, light-medium yellow-brown, rare light gray, very fine to fine grained, firm to hard and well cemented, subangular-subround, quartzitic with scattered brown and gray chert, rare red grains, poorly sorted with clay fill in pores, poor visible porosity, (3-6%), no shows, occasional yellow-orange mineral stain
- 850'-875'

  SANDSTONE: 80% light brown, very fine to medium grained, unconsolidated in part, firm-friable, moderately well cemented with calcite, poor-moderately well sorted with clay, subangular-subround, quartzitic with rare dark chert, intact clusters have poor porosity, no shows

  SILTSTONE: 20% light brown, light-medium gray, firm, very poorly sorted, shaly, very calcareous, grading to very fine grained sandstone
- 875'-900' SILTSTONE: 70% light-medium gray, light brown, yellow-brown, soft, very calcareous, shaly, grading to shale

  SHALE: 30% medium gray, soft, blocky, earthy, very calcareous, slightly-very silty, earthy, occasional black carbonaceous specks
- 900'-925'

  SILTSTONE: 90% light-medium gray, light brown, yellow-brown, soft-firm, very poorly sorted, shaly, very calcareous, scattered carbonaceous specks

  LIMESTONE: 10% light gray-brown, light brown, cryptocrystalline in part, hard, occasional as rounded course grained inclusions likely washing out of siltstone matrix, slightly-very argillaceous, dense
- 925'-950'

  SILTSTONE: 50% light-medium gray, soft-firm, very shaly, very calcareous to marly in part, grading to soft shale

  SANDSTONE: 40% light-medium yellow-brown, very fine grained, hard and well cemented, very poorly sorted, shaly, subangular-subround, very calcareous, poor visible intergranular porosity (3-4%)

<u>SHALE: 10%</u> medium gray, occasional light gray, very soft, blocky, slightly-very silty, calcareous

- 950'-975'

  SANDSTONE: 100%, Limited sample quantity, Sandstone 60% as above, influx (40%) of light gray to light yellow sandstone, composed predominantly of unconsolidated medium to coarse, and rare very course grained quartz and chert, chert is medium yellow and medium to bright red, subround, considerable reddish iron stain on quartz grains, porosity indeterminate, but possibly fair to good, no fluorescence or shows
- 975'-1000' NO SAMPLE CAUGHT, SHUT DOWN FOR EVENING 250' OF WATER IN HOLE AT DAYLIGHT (APPROX. 75 BBLS.)
- 1000'-1025' SANDSTONE: 100% Totally unconsolidated medium-very coarse grained quartz with minor milky white chert, subround, scattered red iron stain on quartz grains, trace pyrite aggregates, probable fair-good intergranular porosity, no shows
- 1025'-1050' SHALE: 80% light-medium gray, soft-firm, blocky, slightly-very silty, earthy, non calcareous, scattered black carbonaceous inclusions, micromicaceous SILTSTONE: 20% medium gray, soft-firm, very poorly sorted, shaly, non calcareous, micromicaceous
- 1050'-1075' SILTSTONE: 50% light gray, light gray-brown, soft-firm, very poorly sorted, very shaly, non calcareous, some carbonaceous matter, micromicaceous, interbedded with soft gray shale

  SHALE: 50% light-medium gray, gray-brown, very soft to soft, blocky, non calcareous, slightly-very silty, scattered carbonaceous inclusions, trace pyrite aggregates
- 1075'-1100' SANDSTONE: 60% light gray, salt and pepper, 90% unconsolidated very fine to rare fine grained quartz, rare intact clusters are moderately well cemented, poorly sorted with cream clay fill, non calcareous, subangular-subround, scattered dark chert, poor visible intergranular porosity, no shows

  CLAYSTONE: 40% light-medium gray-green, soft-firm, smooth and subwaxy to very silty, non calcareous, micromicaceous, grading to trace clayey siltstone
- 1100'-1125' SANDSTONE: 80% light gray, light brown, very fine grained, firm-friable, moderately well cemented, non calcareous to slightly calcareous, very poorly sorted with cream clay fill, subangular-subround, abundant carbonaceous debris and occasional carbonaceous laminae and coaly matter, very poor porosity, no show SHALE: 20% medium gray-brown, firm, sub blocky, silty, slightly calcareous, micromicaceous, carbonaceous, scattered pyrite

TOTAL DEPTH OF 17.5" SURFACE HOLE AT 1125', CONDITION HOLE AND RUN 13 3/8" CASING. MOVE OFF BILL MARTIN JR. RIG AND MOVE ON PATTERSON, RIG 104.

#### COMMENCE DRILLING 12.25" HOLE WITH AIR/MIST

- 1125'-1130' SILTSTONE: 60% medium gray, soft-firm, very poorly sorted, shaly, non calcareous, scattered carbonaceous debris

  SHALE: 40% medium gray, soft-firm, blocky, non calcareous, slightly-very silty, occasional carbonaceous specks
- SHALE: 70% medium gray, soft-firm, blocky, non calcareous, slightly-very silty

  SILTSTONE: 20% medium-dark gray, dark gray-brown, firm-hard, well cemented, non calcareous, very poorly sorted, shaly

  SANDSTONE: 10% light gray, very fine grained, hard, well cemented, moderately well sorted, non calcareous, quartzitic with occasional brown chert, subangular, very poor visible porosity

HOLE IS MAKING CONSIDERABLE WATER, DRILL TO 1152' AND SHUT DOWN

1140'-1150' NO SAMPLE

DRILL AHEAD WITH WATER AND AIR. THIS RESULTS IN SURGING AT THE SHAKER MAKING SAMPLE FLOW SPORADIC, AND GAS DETECTION BECOMES IMPOSSIBLE. SAMPLES ARE COLLECTED BY RIG CREWS AT KELLY DOWN (APPROXIMATELY 30' INTERVALS).

#### POOR SAMPLE QUALITY

- 1150'-1160' SHALE: 70% medium gray, soft-firm, blocky-sub blocky, non calcareous to slightly calcareous, silty in part, scattered carbonaceous laminae and inclusions

  SANDSTONE: 30% light gray, clear, fine-medium grained, firm-friable, moderately well sorted, moderately well cemented, calcareous, quartzitic with occasional reddish stain, subangular-subround, poor-fair visible porosity
- 1160'-1193' SANDSTONE: 90% sample is 95% unconsolidated course to very coarse grained subround quartz with occasional milky chert, rare intact clusters are well cemented, non calcareous, moderately well sorted, occasional red iron stain on quartz grains, quartzitic with scattered red grains and white feldspar, possible good intergranular porosity

  SHALE: 10% dark brown, interbedded with sandstone, subfissile, very silty to

arenaceous, non calcareous, carbonaceous

- 1193'-1225' SANDSTONE: 100% composed of 95% unconsolidated fine-medium grained, rare lower coarse grained quartz, with occasional black grains, and rare green grains, subangular-subround, rare intact clusters are moderately well sorted. non calcareous, well cemented, quartzitic with black grains and gray chert, occasional white feldspar, trace pyrite aggregates, estimated poor-fair intergranular porosity (6-12%)
- 1225'-1257'

  SANDSTONE: 80% light gray, salt and pepper, fine-medium grained, becoming more consolidated, unconsolidated in part, moderately well cemented, firm-friable, non calcareous, poor-moderately well sorted with some white clay fill, quartzitic with scattered dark minerals and chert, mostly poor visible porosity (6-9%)

  SILTSTONE: 20% light gray, light brown, hard, well cemented, non calcareous, occasional carbonaceous inclusions, very poorly sorted, shaly, trace pyrite aggregates
- 1257'-1287'

  SANDSTONE: 90% light gray, salt and pepper, 95% unconsolidated fine-medium grained, rare lower coarse grained quartz with black minerals, black and brown chert, subangular-subround, scattered red-orange stain, rare intact clusters are moderately well cemented, poor-moderately well sorted with some white clay fill, slightly calcareous to very calcareous, poor to possible fair intergranular porosity

  SILTSTONE: 10% light gray-brown, hard, well cemented, very poorly sorted, shaly, calcareous
- 1287'-1318' SANDSTONE: 50% light gray, salt and pepper, very fine to silty, rare fine grained, firm, well cemented, very poorly sorted with white clay fill, slightly to moderately calcareous, very poor intergranular porosity (3-6%)

  SILTSTONE: 30% light gray, gray-brown, firm, well cemented, very poorly sorted, shaly, calcareous, scattered carbonaceous inclusions, dirty

  CLAYSTONE: 20% medium gray-green, medium green, firm, blocky, smooth and subwaxy to silty, non calcareous, occasional carbonaceous specks

  CARBONACEOUS SHALE: trace, very dark brown to black, firm, coaly
- 1318'-1345'

  SANDSTONE: 60% light gray, salt and pepper, very fine to fine grained, firm to hard and well cemented, poorly sorted with white clay fill, non calcareous, quartzitic with scattered black minerals and gray chert, subangular, occasional mica and red grains, poor visible porosity

  SILTSTONE: 40% light-medium gray, gray-brown, firm, very poorly sorted, shaly, considerable carbonaceous debris, calcareous
- 1345'-1381' SANDSTONE: 100% composed of unconsolidated grains of medium to lower coarse grained quartz with scattered dark chert, occasional white feldspar, some red iron stain on quartz, possible fair intergranular porosity, occasional pyrite aggregates
- 1381'-1411' NO SAMPLE COLLECTED

1411'-1441' SANDSTONE: 90% light gray, 90% unconsolidated fine to medium grained quartz with rare accessory black chert, occasional red iron stain on quartz, subangular-subround, rare intact clusters are moderately well cemented, firm to friable, poor-moderately well sorted, calcareous with considerable black coaly inclusions, poor-fair intergranular porosity, (9-12%)

<u>SILTSTONE: 10%</u> light brown, firm, very poorly sorted, shaly, carbonaceous, slightly calcareous

**COAL - trace**, black crumbly, occasionally attached to sandstone clusters

### **LOG TOP CASTLEGATE 1467' (+7205')**

- 1441-1475' SANDSTONE: 40% predominantly unconsolidated, fine-medium grained subangular-subround quartz with rare black chert and white feldspar, rare intact clusters show poor intergranular porosity, scattered coaly inclusions SHALE: 40% medium brown, gray, firm, blocky, very silty, with abundant coaly inclusions and laminae

  SILTSTONE: 19% light brown, very poorly sorted, shaly, carbonaceous, calcareous COAL: 1% black, hard, sub vitreous
- 1475'-1510' SANDSTONE: 100% composed of 100% unconsolidated medium to lower coarse grained subangular-subround quartz with minor white feldspar and rare brown chert, occasional red iron stain on quartz grains, trace black flakes of coaly matter, possible fair-good intergranular porosity, poor sample quality

#### 1510'-1540' NO SAMPLE COLLECTED

- 1540'-1570' SANDSTONE: 90% composed of 95% unconsolidated medium to lower coarse grained subangular-subround quartz with scattered white feldspar and gray chert, occasional red iron stained quartz, rare coaly inclusions in intact clusters, probable fair intergranular porosity

  SILTSTONE: 10% medium-dark gray, hard, very well cemented, calcareous, carbonaceous, very poorly sorted, shaly
- 1570'-1602' SANDSTONE: 70% limited returns, 100% unconsolidated medium to coarse grained predominantly subround quartz with occasional milky chert and white feldspar, rare red iron stain on quartz, possible fair-good intergranular porosity

  SILTSTONE: 20% medium-dark gray, firm-hard, very poorly sorted, shaly, non calcareous, carbonaceous

  CLAYSTONE: 10% medium gray-green, firm, blocky, smooth and subwaxy, non calcareous

- 1602'-1630' SANDSTONE: 90% light gray, very fine to fine grained, firm-friable, consolidated, moderately well sorted, moderately well to well cemented, subangular, calcareous, quartzitic with scattered brown chert and black minerals, considerable black carbonaceous debris and laminae, rare white feldspar, and orange grains, poor visible intergranular porosity (4-8%)

  SHALE: 10% medium gray, light brown, soft, blocky, very carbonaceous, non calcareous, scattered pyrite aggregates
- 1630'-1660' SANDSTONE: 90% composed of 95% unconsolidated fine to coarse grained subangular-subround quartz with accessory white feldspar and light brown chert, scattered pyrite aggregates, rare intact clusters are well cemented with calcite and moderately well to well sorted, occasional red iron stain on quartz, occasional carbonaceous matter, possible fair intergranular porosity

  CARBONACEOUS SHALE: 10% dark brown, medium gray, very carbonaceous to coaly in part, blocky, brittle, slightly calcareous
- 1660'-1692' SANDSTONE: 80% mostly unconsolidated fine-medium grained quartz with minor accessory gray-brown chert, intact clusters are moderately well cemented with calcite, moderately well sorted, poor visible intergranular porosity

  CLAYSTONE: 20% white, soft, platy, scattered carbonaceous streaks, very calcareous, likely occurring as partings in sandstone in part
- 1692'-1727' VERY LIMITED RETURNS

  SANDSTONE: 80% as above

  SHALE: 20% medium gray-brown, firm, blocky, very silty, calcareous, carbonaceous

INCREASE AIR FLOW TO WATER. SAMPLE CUTTINGS RECOVERY IMPROVES SLIGHTLY

#### **LOG TOP BLACKHAWK 1700' (+6972')**

- 1727'-1757' SANDSTONE: 40% light gray, salt and pepper, very fine to fine grained, rare medium grained, moderately well sorted, well cemented, calcareous, subangular-subround, quartzitic with scattered black minerals, and gray chert, rare red-orange grains, poor visible intergranular porosity

  SILTSTONE: 60% medium brown, light gray, firm, well cemented, very poorly sorted, shaly, highly carbonaceous, non calcareous, scattered pyrite inclusions
- 1757'-1780' SILTSTONE: 40% medium gray-brown, brown, firm, very poorly sorted, shaly, slightly calcareous in part considerable carbonaceous inclusions

  SHALE: 20% medium gray-brown, brown, soft-firm, blocky, very silty, non calcareous, carbonaceous

  SANDSTONE: 40% light gray, very fine grained to silty, firm to hard, well cemented, poor-moderately well sorted, calcareous, very poor porosity (3-4%)

- 1780'-1810'

  SHALE: 40% medium-dark gray-brown, firm, blocky-subfissile, silty, calcareous, considerable carbonaceous inclusions and laminae

  SILTSTONE: 60% light-medium gray, gray-brown, rare light brown, soft-firm, very poorly sorted, shaly, non calcareous to very calcareous when light gray, scattered black carbonaceous debris
- 1810'-1839'

  SANDSTONE: 40% light gray, very fine to fine grained, occasional medium grained, firm-hard, well cemented, poor-moderately well sorted, some white clay fill, calcareous, quartzitic with scattered light brown chert, and black minerals, subangular-subround, poor intergranular porosity

  SHALE: 40% medium brown, soft-firm, blocky-subfissile, silty, non calcareous, occasional carbonaceous inclusions and laminae

  SILTSTONE: 20% light gray, medium brown, firm-hard, well cemented, carbonaceous in part, micropyritic in part, calcareous when gray
- 1839'-1871'

  SILTSTONE: 60% medium gray-brown, brown, light brown, firm-hard, well cemented in part, very poorly sorted, shaly, calcareous, scattered carbonaceous inclusions and laminae

  SHALE: 60% medium brown, soft-firm, silty, blocky, non calcareous to calcareous, abundant carbonaceous inclusions and streaks, trace very dark brown carbonaceous shale

  SANDSTONE: 20% light gray, very fine grained hard, well cemented, calcareous in part, quartzitic, occasional carbonaceous debris, tight
- 1871'-1900'

  SANDSTONE: 60% light gray, very fine grained, firm to hard and well cemented, poor-moderately well sorted, shaly, dirty in part, calcareous, subangular, quartzitic with occasional black minerals and carbonaceous inclusions, poor intergranular porosity (4-6%)

  SILTSTONE: 20% light gray-brown to brown, firm-hard, well cemented, shaly, calcareous, carbonaceous

  CARBONACEOUS SHALE: 20% brown to very dark brown, soft-firm, blocky, calcareous, very silty, considerable carbonaceous inclusions and laminae
- 1900'-1930'
  SILTSTONE: 70% light brown, light gray-brown, tan, hard, well cemented, slightly calcareous to very calcareous, shaly, dense, occasional carbonaceous debris
  SHALE: 30% light gray, gray-brown, occasional dark brown, soft-firm, subfissile-blocky, non calcareous to very calcareous, marly in part, slightly-very silty, very carbonaceous when dark brown
- 1930'-1960'

  SILTSTONE: 80% light gray-brown, light gray, tan, hard to very hard, well cemented, calcareous, very poorly sorted, shaly, occasional carbonaceous inclusions and laminae

  SANDSTONE: 20% light gray, light gray-brown, light brown, very fine grained, hard, well cemented, very calcareous, poorly sorted with light gray clay fill, scattered carbonaceous streaks, very poor porosity (3-6%)

TRIP FOR SHOCK SUB AT 1975', PICK UP 6 DRILL COLLARS, TRIP IN WITH SAME BIT, INCREASING WOB AND RPM. THIS RESULTS IN INCREASED ROP TO 1-1.5 MIN/FT.

- 1960'-2000'

  SANDSTONE: 100% totally unconsolidated fine-medium grained subangularsubround quartz, with no intact clusters, Very poor sample, limited returns caught at
  shaker, occasional red iron stain on quartz grains, scattered white altered feldspar and
  white claystone partings, Porosity possible fair in part

  CARBONACEOUS SHALE: trace, very dark brown to black

  COAL: trace, 1 piece black hard, sub vitreous
  Scattered lost circulation material in sample after trip
- 2000'-2028'

  SANDSTONE: 80% light brown, honey, very fine to medium grained, firm to hard, well cemented, moderately well sorted, subangular-subround, calcareous, quartzitic with rare dark brown chert and occasional light brown grains, scattered carbonaceous debris, possible fair porosity in part

  SILTSTONE: 20% light brown, firm, well cemented, poorly sorted, shaly, calcareous
- 2028'-2059'
  SILTSTONE: 60% medium gray-brown, firm-hard, well cemented, very poorly sorted, shaly, moderately calcareous, scattered carbonaceous specks
  SANDSTONE: 30% light brown, becoming very fine grained to silty, well cemented, calcareous, shaly, tight, scattered carbonaceous specks
  CARBONACEOUS SHALE: 10% dark brown, black, blocky-subfissile, silty, micropyritic in part, non calcareous, considerable carbonaceous laminae and coaly inclusions
  COAL: trace, black, hard, sub vitreous
- 2059'-2090'

  SILTSTONE: 80% light brown, dark brown, firm to hard, well cemented, moderately well sorted when light brown to shaly when dark brown, calcareous, scattered carbonaceous specks

  SANDSTONE: 20% light brown, light gray, very fine grained to silty, firm-hard and well cemented, moderately well sorted to shaly, calcareous, occasional carbonaceous specks, tight
- 2090'-2120'
  SANDSTONE: 60% light gray, cream, very fine grained to silty, hard, well cemented moderately well sorted, moderately calcareous, scattered carbonaceous specks, quartzitic with rare dark grains, very poor porosity (4-6%)
  SILTSTONE: 40% light-medium gray, medium gray-brown, very light brown, firm-hard, well cemented, very poorly sorted, shaly, calcareous, scattered carbonaceous specks
- 2120'-2152' SANDSTONE: 60% light gray, cream, very fine grained to silty, hard, well cemented, poor-moderately well sorted, some clay fill, subangular, calcareous, quartzitic with occasional gray grains, occasional carbonaceous matter, poor porosity (4-6%)

<u>SILTSTONE: 20%</u> very light brown, firm, well cemented, shaly, calcareous <u>SHALE: 20%</u> light-medium gray-brown, soft-firm, blocky-sub blocky, slightly-very silty, calcareous, moderately carbonaceous

- 2152'-2184' SANDSTONE: 60% cream to very light brown, very fine grained to silty, rare fine grained, firm-hard, well cemented, poor-moderately well sorted, shaly in part, very calcareous, quartzitic with some light gray and brown chert, some white feldspar, occasional carbonaceous streaks, poor porosity, (4-6%)

  SILTSTONE: 40% light-medium gray-brown, hard, well cemented, very poorly sorted, shaly, calcareous, scattered carbonaceous specks
- 2184'-2215' SANDSTONE: 20% cream to very light brown, becoming silty to very fine grained, hard, well cemented, poorly sorted, clayey, calcareous, very poor porosity (3-4%)

  SILTSTONE: 60% light-medium gray-brown, firm-hard, well cemented, very shaly, calcareous, micromicaceous, occasional carbonaceous specks and laminae

  SHALE: 20% light-medium gray-brown, firm, sub blocky-blocky, calcareous, silty, occasional carbonaceous streaks and laminae
- 2215'-2247' SILTSTONE: 70% cream, medium gray-brown, firm-hard, well cemented, very poorly sorted, shaly, very calcareous, scattered carbonaceous inclusions, micromicaceous

  SHALE: 30% medium gray-brown, firm-hard, blocky-subfissile, moderately calcareous, slightly-very silty, occasional carbonaceous streaks
- 2247'-2278' LOST RETURNS NO SAMPLE
- 2278'-2290' SILTSTONE: 80% cream, medium gray-brown, hard, well cemented, very calcareous, poorly sorted, shaly, occasional carbonaceous debris and specks

  SHALE: 20% medium-dark gray-brown, soft-firm, non calcareous in part, slightly-very silty, some carbonaceous specks
- 2290'-2330' VERY LIMITED RETURNS BEING CAUGHT AT SHAKER, mostly free quartz grains, with some shale

  SHALE: medium gray, very soft, blocky, slightly-moderately silty, non calcareous SILTSTONE: cream, very light brown, soft-firm, friable in part, well cemented in part, poorly sorted, shaly, calcareous
- 2330'-2372' SHALE: 80% light gray, medium gray-brown, very soft to soft, blocky-sub blocky, non calcareous, slightly-very silty, scattered carbonaceous inclusions
  - <u>SILTSTONE: 20%</u> medium brown, medium gray, firm to hard, well cemented in part, non calcareous, very poorly sorted, shaly, occasional carbonaceous specks Abundant free quartz grains Cavings
- 2372'-2445' NO RETURNS

RESERVE PIT IS FULL AFTER TRIP AT 2391'. DRILL AHEAD WITH AIR WITH NO RETURNS. RUNNING AIR THROUGH GAS BUSTERS TO FLOWLINE AT SHAKER, WITH NO RETURNS UNTIL 2445'. CUTTINGS PROBABLY BEING FORCED INTO LOST CIRCULATION ZONES. NO GAS DETECTION POSSIBLE.

- 2445'-2450' SHALE: 90% medium gray, gray-brown, brown, soft-firm, blocky to splintery, non calcareous, slightly-very silty, scattered carbonaceous inclusions

  SILTSTONE: 10% dark gray, firm to hard, well cemented, non calcareous, very poorly sorted, shaly
- 2450'-2470' NO RETURNS Aerated water not getting cuttings to surface or they are being lost in lost circulation zones, and sporadically unloaded at the surface.
- 2470'-2497' SHALE: 50% medium gray, medium brown, soft-firm, blocky to fissile, non calcareous, slightly-very silty, scattered carbonaceous specks and organic remains SANDSTONE: 50% light brown, light gray, cream, very fine grained, poormoderately well sorted, shaly in part, calcareous, tight

# SAMPLES ONLY CAN BE RECOVERED WHEN HOLE UNLOADS, OFTEN AFTER CONNECTIONS. THERE ARE NO RETURNS DURING MOST OF THE TIME

- 2497'-2532' SANDSTONE: 70% light brown, light gray-brown, cream, very fine grained to silty, firm-friable, moderately well sorted, moderately well cemented, very calcareous, quartzitic with black minerals inclusions and carbonaceous specks, poor visible intergranular porosity (4-6%), no fluorescence, stain or cuts

  SHALE: 20% as above, Mancos, probable cavings

  SILTSTONE: 5% light brown, soft-firm, poorly sorted, shaly, calcareous

  COAL: 5% black, hard, sub vitreous, anthracitic
- 2532'-2561' COAL: 50% black, hard, sub vitreous, no fluorescence, strong streaming and diffuse cuts from clusters of coal immersed in solvent

  SANDSTONE: 50% Totally unconsolidated fine-medium grained, rare lower coarse grained quartz, with scattered white clay parting, subround with rare subangular, no fluorescence or stain, possible fair intergranular porosity
- 2561'-2580' SANDSTONE: 95% light gray, very light brown, very fine to fine grained, rare medium grained, becoming mostly consolidated, firm-friable, moderately well sorted, moderately well to well cemented, calcareous, subangular-subround, quartzitic with rare black minerals and occasional carbonaceous inclusions, generally poor visible intergranular porosity (4-8%), no shows

  SHALE: 5% light brown, soft, sub blocky to subfissile, slightly-very silty, calcareous in part

  COAL: trace, black firm-hard, sub vitreous

#### 2580'-2610' **NO RETURNS**

- 2610'-2635'

  SANDSTONE: 50% light brown, light gray, becoming very fine to fine grained, occasional silty, firm, well cemented, poor-moderately well sorted, shaly in part, calcareous, subangular-subround, quartzitic with scattered brown chert, trace red grains, occasional carbonaceous debris, poor visible porosity (4-6%)

  SILTSTONE: 25% light brown, rare medium brown, soft-firm, very poorly sorted, shaly, moderately well cemented, calcareous, scattered carbonaceous specks

  SHALE: 20% light brown, rare tan, soft, slightly-very silty, blocky-subfissile, calcareous

  COAL: 5% black, firm-hard, sub vitreous to dull, trace pyritized organic matter
- 2635'-2675'

  SANDSTONE: 70% light gray, cream, light brown, very fine to fine grained, firm-hard, well cemented, poor-moderately well sorted with cream clay fill, calcareous, quartzitic with rare light brown and gray chert, occasional carbonaceous debris, poor intergranular porosity (6-8%), no shows

  SHALE: 30% medium gray, light-medium gray-brown, soft, blocky-sub blocky, non calcareous to calcareous, slightly to very silty in part, grading to siltstone, scattered carbonaceous inclusions
- 2675'-2700' <u>NO RETURNS</u>: Good drilling break from 2692'-2699', drilled at less than one minute/foot. This interval interpreted as coal, with remainder likely interbedded sandstone and shale as interpreted from ROP
- 2717'-2717' COAL: 100% Hole unloads cuttings, interpreted to have originated from drilling breaks at 2692'-99, and 2705'-14'. Coal is black hard, sub vitreous, brittle, no fluorescence, weak faint diffuse and residual cuts when immersed in solvent.

#### **LOG TOP STARPOINT 2712' (+5960')**

2717'-2748' SANDSTONE: 60% light brown, very fine to fine grained, abundant unconsolidated quartz grains, intact clusters are firm-friable, well cemented, moderately well sorted to occasional poorly sorted with clay plugging pores, some possible fair intergranular porosity (10-12%), no shows

<u>SILTSTONE: 40%</u> light brown, light gray-brown, soft-firm, shaly, non calcareous to moderately calcareous, scattered carbonaceous specks

2748'-2775' Considerable coal in sample – probably cavings

SILTSTONE: 70% light brown, light gray-brown, soft-firm, very poorly sorted, shaly, calcareous, occasional carbonaceous specks,

SANDSTONE: 20% light brown, very fine grained, rare fine grained, firm-friable, poor-moderately well sorted, shaly in part, calcareous, quartzitic with rare carbonaceous inclusions, poor visible porosity (4-6%), no shows

SHALE: 10% light-medium brown, soft, sub blocky-subfissile, calcareous in part, slightly-very silty, occasional carbonaceous specks

TOTAL DEPTH – DRILLER OF 12.25" HOLE IS 2775' AT 11:58, NOV. 15, 2002 RUN LOGS WITH SCHLUMBERGER, AND DRILL AHEAD IN 12.25" HOLE

### 2775'-2800' **NO RETURNS**

2800'-2815' SANDSTONE: 100% light gray, salt and pepper, very fine grained, rare medium grained, friable-firm, moderately well cemented, poorly sorted with black minerals and carbonaceous inclusions, non calcareous, subangular-subround, poor visible intergranular porosity, no shows

### 2815'-2850' **NO RETURNS**

- 2850'-2880'

  SANDSTONE: 70% light gray, salt and pepper, very fine grained, friable-firm, poorly sorted with light gray clay fill, subangular-subround, moderately calcareous, moderately well to well cemented, quartzitic with scattered carbonaceous inclusions, poor porosity (4-6%), no shows

  SHALE: 30% light-medium gray, soft, blocky-subfissile, non calcareous, slightly-very silty, micromicaceous, scattered carbonaceous inclusions
- 2880'-2917' SANDSTONE: 100% Totally unconsolidated fine-medium grained subangular-subround quartz, with scattered accessory black minerals, occasional red iron stain and black carbonaceous matter on quartz grains, porosity is indeterminate, but some possible fair porosity
- 2917'-2932' SANDSTONE: 100 % Totally unconsolidated fine grained subangular-subround quartz with accessory black minerals, and white feldspar, rare red stain on quartz grains, average grains size decreases from sample above, probable poor to rare fair intergranular porosity, no shows
- 2932'-2947' SANDSTONE: 100% Totally unconsolidated very fine to fine grained subround-subangular quartz with scattered accessory black minerals and white feldspar, occasional red iron stain on quartz grains, probable poor intergranular porosity, no shows
- 2947'-2962' SANDSTONE: 90% Totally unconsolidated very fine to fine grained subround-subangular quartz grains, with occasional white feldspar, probable poor intergranular porosity, no shows

  SHALE: 10% light gray, medium gray-brown, soft white light gray to firm, blocky-subfissile, slightly silty, micromicaceous when gray-brown, non calcareous, scattered carbonaceous inclusions
- 2962'-2977' SANDSTONE: 90% Totally unconsolidated very fine to fine grained subround-subangular quartz grains, with occasional white feldspar, probable poor intergranular porosity, no shows

SHALE: 10% light gray, medium gray-brown, soft white light gray to firm, blocky-subfissile, slightly silty, micromicaceous when gray-brown, non calcareous, scattered carbonaceous inclusions

#### LOG TOP MANCOS (UPPER BLUEGATE) 2983' (+5689')

- 2977'-2990' <u>SANDSTONE: 100%</u> Totally unconsolidated very fine grained subangular-subround quartz with rare black mineral accessories, rare red iron stain on quartz, scattered white feldspar, probable poor porosity
- 2990'-3018' SHALE: 50% light gray-brown, medium gray, soft, subfissile-sub blocky, non calcareous, slightly-very silty

  SILTSTONE: 50% light gray-brown, soft to rare hard and well cemented, slightly calcareous in part, very poorly sorted, shaly
- 3018'-3026' SHALE: 70% light gray-brown, light gray, light gray-green, soft, blocky-subfissile, non calcareous, slightly-very silty, rare black carbonaceous specks

  SILTSTONE: 30% light gray-brown, soft, very poorly sorted, shaly, non calcareous, grading to silty shale
- 3026'-3032' SANDSTONE: 90% predominantly unconsolidated very fine grained to silty subangular quartz, scattered white feldspar, rare intact clusters are well cemented, poor-moderately well sorted with clay fill, calcareous, very poor intergranular porosity (3-4%)

  SHALE: 10% light gray-brown, firm, subfissile, non calcareous, very silty
- 3032'-3040' SHALE: 70% light gray-brown, light gray, rare light gray-green, soft, blocky-subfissile, non calcareous, slightly-very silty, rare carbonaceous specks

  SANDSTONE: 30% unconsolidated very fine grained subangular-subround quartz, probable poor intergranular porosity
- 3040'-3050' SHALE: 90% light gray-brown, light gray, rare light gray-green, soft, blocky-subfissile, non calcareous, smooth to silty, occasional imbedded very fine grained quartz

  SANDSTONE: 10% light brown, very fine grained soft-firm, poor-moderately well cemented, very poorly sorted with light gray clay fill, very calcareous, quartzitic with scattered black minerals very poor porosity
- 3050'-3060' SANDSTONE: 60% light gray, light gray-brown, very fine grained to silty, unconsolidated in part, intact clusters are friable, poorly cemented, poorly sorted with clay fill, very calcareous, quartzitic with occasional carbonaceous debris, poor porosity

  SHALE: 40% light gray, soft, blocky-subfissile, silty in part, some floating quartz grains, non calcareous

SILTSTONE: 60% light gray, soft to friable, very poorly sorted, very shaly, non 3060'-3080' calcareous to slightly calcareous, scattered carbonaceous inclusions SHALE: 40% light gray, light gray-brown, soft, subfissile-sub blocky, slightly calcareous in part, silty to very silty, rare smooth and subwaxy, micromicaceous SHALE: 60% light-medium gray, light gray-brown, soft to very soft, sub blocky-3080'-3090' subfissile, non calcareous, slightly-very silty, micromicaceous, rare black carbonaceous specks SILTSTONE: 40% light gray, soft to friable, very poorly sorted, very shaly, non calcareous to slightly calcareous, scattered carbonaceous inclusions, trace arenaceous SILTSTONE: 50% light gray, firm-friable, very poorly sorted, very shaly, poorly 3090'-3100' cemented, quartzitic, calcareous in part, dirty, scattered carbonaceous debris SHALE: 50% light gray, medium gray-brown, soft, sub blocky-subfissile, non calcareous, slightly-very silty, micromicaceous, occasional carbonaceous inclusions SHALE: 100% light gray, gray-brown, rare light gray-green, soft, blocky-subfissile, 3100'-3120' non calcareous, slightly-very silty, arenaceous in part, rare smooth and subwaxy, scattered black carbonaceous inclusions SHALE: 100% light-medium gray-brown, light gray, rare light gray-green, soft, 3120'-3130' blocky-subfissile, non calcareous, slightly-very silty, occasional floating very fine grained quartz, some carbonaceous matter SILTSTONE: 60% light gray, firm-friable, very poorly sorted, clayey, calcareous, 3130'-3140' quartzitic, occasional carbonaceous inclusions SHALE: 40% light gray, gray-brown, soft, blocky-subfissile, silty, non calcareous, micromicaceous, occasional carbonaceous specks SHALE: 100% light gray-brown, gray, soft, blocky-subfissile, slightly-very silty, non 3140'3150' calcareous, micromicaceous, occasional carbonaceous debris SHALE: 80% light gray-brown, light gray, soft, blocky-subfissile, non calcareous, 3150'-3170' slightly-very silty, micromicaceous, rare carbonaceous specks SILTSTONE: 20% light gray, gray-brown, firm to friable, very poorly sorted, shaly, micromicaceous, non calcareous SHALE: 100% light-medium gray-brown, dull gray-green, blocky-subfissile, 3170'-3200' moderately-very silty, micromicaceous, non calcareous, occasional black carbonaceous specks **VERY POOR RETURNS**: 3200'-3225' SHALE: light gray, gray-brown, soft to very soft, non calcareous, blocky-subfissile, very silty, micromicaceous, rare carbonaceous inclusions

3225'-3240' SHALE: dull gray-brown, dull gray-green, soft to very soft, blocky-subfissile, non calcareous, very silty, occasional floating very fine grained quartz grains, rare carbonaceous inclusions, trace pyrite aggregates, continued poor returns

#### 3240'-3293' **NO RETURNS**

LOST CIRCULATION AT 3293'

- 3293'-3370' NO RETURNS Drill ahead blind
- 3340'-3370' HOLE UNLOADS very poor sample quality

  SHALE: 60% light gray, gray-brown, soft-firm, blocky-sub blocky, occasional carbonaceous inclusions, micromicaceous, non calcareous, very silty grading to siltstone

  SILTSTONE: 40% gray-brown, light gray, friable to soft, very poorly sorted, shaly, calcareous in part, possible cavings
- 3370'-3413' **LIMITED RETURNS:** Very poor sample quality, logged as shale

TWIST OFF, LEAVING BIT, BIT SUB, MONEL COLLAR AND TWO DRILL COLLARS IN THE HOLE. FISH IS RETRIEVED ON THE THIRD ATTEMPT

3413'-3413'

LITHOLOGY ON BIT WHEN FISH IS RETRIEVED

SHALE: light gray, light gray-green, light brown, very soft to soft, blocky, slightlyvery silty, trace arenaceous, non calcareous, micromicaceous, rare black carbonaceous
specks

- 3413'-3430' **NO RETURNS**
- 3430'-3460' **NO RETURNS**
- 3460'-3470' SILTSTONE: 70% light-medium gray, gray-brown, soft-very soft, dirty, very poorly sorted, shaly, non calcareous to slightly calcareous, scattered carbonaceous specks

  SHALE: 30% light gray, light gray-brown, soft-very soft, very silty, micromicaceous, non calcareous, rare carbonaceous specks
- 3470'-3490' SHALE: 70% medium gray-brown, medium gray, soft-very soft, very silty, micromicaceous, non calcareous, occasional carbonaceous inclusions, grading to and interbedded with shaly siltstone

  SILTSTONE: 30% light-medium gray-brown, friable to soft, very shaly, very calcareous in part, quartzitic, scattered carbonaceous debris
- 3490'-3500' SHALE: 50% medium gray, gray-brown, soft, blocky-subfissile, slightly calcareous in part, micromicaceous, slightly-very silty, some carbonaceous inclusions and laminae

<u>SILTSTONE</u>: 50% medium gray-brown, medium gray, friable to hard and well cemented, very poorly sorted, shaly, slightly calcareous to very calcareous, quartzitic, scattered carbonaceous matter

3500'-3515' SHALE: 80% medium gray-brown, light gray, soft-very soft, blocky-subfissile, micromicaceous, predominantly very silty, calcareous in part, occasional carbonaceous specks

SILTSTONE: 20% medium gray-brown, friable-firm, calcareous, very poorly sorted, shaly, rare carbonaceous specks

### 3515'-3584' **NO RETURNS**

PULL UP 500' TO 800' AND TRY TO GAIN RETURNS

3584'-3615' NO RETURNS, drill ahead blind

#### 3615'-3615' **HOLE UNLOADS**

<u>SANDSTONE: 70%</u> light gray, light gray-brown, very fine grained to silty, friable to firm, moderately well cemented, poor-moderately well sorted, shaly in part, slightly calcareous to moderately calcareous, subangular-subround quartzitic with scattered black carbonaceous specks, **poor visible intergranular porosity**, (6-8%), no visible stain, fluorescence, or cuts

<u>SILTSTONE: 30%</u> light-medium gray-brown, friable to hard and well cemented, calcareous, very poorly sorted, shaly, occasional carbonaceous specks

3615'-3630' SHALE: 70% light gray-brown, light gray, soft, blocky-sub blocky, calcareous in part, very silty, grading to and interbedded with dirty siltstone, scattered carbonaceous inclusions

<u>SILTSTONE: 30%</u> light-medium gray-brown, friable to soft, very poorly sorted, shaly, calcareous, occasional carbonaceous specks

- 3630'-3640' SHALE: 70% light gray-brown, light gray, soft, blocky-subfissile, calcareous in part, micromicaceous, mostly very silty

  SILTSTONE: 30% light gray-brown, rare medium gray-brown, friable to soft, very poorly sorted, calcareous, shaly, rare black carbonaceous inclusions
- 3640'-3660' HOLE UNLOADS AT 3675' Lagged at 3660', questionable sample quality SILTSTONE: 100% light gray, light gray-brown, firm-friable, very poorly sorted, shaly to clayey, calcareous, rare pyritic, micromicaceous, occasional carbonaceous debris with pyrite
- 3660'-3670' SHALE: 80% medium gray-brown, soft-firm, blocky, silty, slightly-moderately calcareous, micromicaceous, scattered carbonaceous specks

  SILTSTONE: 20% medium gray-brown, light gray, firm to friable, very poorly sorted, shaly, calcareous, rare carbonaceous inclusions

- 3670'-3690' SHALE: 100% medium-dark gray-brown, dark gray, soft-firm, silty, blocky-subfissile, micromicaceous, slightly calcareous, scattered brown and black carbonaceous inclusions
- 3690'-3700' SHALE: 80% medium gray-brown, medium gray, soft-firm, blocky-subfissile, very silty, slightly calcareous, micromicaceous, rare calcite fossil fragments, scattered carbonaceous specks

  SILTSTONE: 20% medium gray-brown, light gray, firm, very poorly sorted, shaly, slightly calcareous, quartzitic with occasional black carbonaceous inclusions

#### 3700'-3750' **NO RETURNS**

- 3750'-3790' **NO RETURNS:** Rig crew members are standing by the shaker at all times, waiting for hole to unload.
- HOLE UNLOADS: At connection, lagged back to 3775'-3795'

  SILTSTONE: 60% light-medium gray, medium gray-brown, firm to friable, moderately well cemented, poor-moderately well sorted, shaly in part, slightly calcareous, occasional carbonaceous inclusions when gray-brown

  SHALE: 30% medium-dark gray-brown, light gray, soft-firm, blocky to fissile, micromicaceous, very silty, scattered carbonaceous matter

  SANDSTONE: 10% light gray, salt and pepper, very fine grained to silty, friable-firm, poor-moderately well sorted, considerable light gray clay fill, subangular, slightly calcareous, quartzitic with occasional black minerals and glauconite, some carbonaceous inclusions, poor porosity (4-6%), no shows
- 3799'-3830' SILTSTONE- 40% light gray, light gray-brown, salt and pepper, firm-hard, well cemented, calcareous, poor-moderately well sorted, shaly in part, some carbonaceous debris

  SANDSTONE: 30% light gray, salt and pepper, very fine grained to silty, firm-hard, well cemented moderately well sorted, to shaly, micaceous, slightly-moderately calcareous, quartzitic with scattered carbonaceous inclusions, poor porosity (4-6%)

  SHALE: 30% gray-brown, soft, fissile, very silty, carbonaceous, micromicaceous Hole unloads cuttings at 3830' connection

#### 3830'-3860' **NO RETURNS**

3860'-3870' HOLE UNLOADS, lagged back to 3870', very limited returns

SILTSTONE: 60% light gray, light gray-brown, friable to hard and well cemented, mostly poorly sorted, shaly, calcareous in part, scattered carbonaceous inclusions micromicaceous

SHALE: 20% light gray, light gray-brown, soft to very soft, blocky-subfissile, non calcareous, very silty in part

<u>SANDSTONE: 20%</u> light gray, salt and pepper, very fine grained to silty, firm to hard and well cemented, poorly sorted with abundant light gray clay fill, subangular, calcareous, scattered carbonaceous debris, poor intergranular porosity (4-6%)

3870'-3890' SILTSTONE:50% light gray, salt and pepper, friable to hard and well cemented, slightly-very calcareous, poorly sorted with clay, occasional carbonaceous inclusions SANDSTONE: 30% light gray, salt and pepper, very fine grained to silty, friable to hard, well cemented in part, poor-moderately well sorted with much light gray clay fill, calcareous, quartzitic with scattered carbonaceous inclusions, poor porosity (4-6%), no shows

SHALE: 20% very light gray, gray-brown, soft to very soft, blocky-fissile, slightly-very silty, calcareous in part, rare carbonaceous specks

### 3890'-3950' **NO RETURNS**

3950'-3960' HOLE UNLOADS AT 3964' Minimal returns are caught – poor sample quality SILTSTONE: 80% medium-dark gray, gray-brown, friable to hard and well cemented, very poorly sorted, shaly, micromicaceous, slightly-moderately calcareous, increasing carbonaceous debris

SHALE: 20% medium-dark gray, gray-brown, soft, blocky-sub blocky, non calcareous, micromicaceous, very silty, considerable carbonaceous inclusions

3960'-3990' SILTSTONE: 70% medium-dark gray-brown, firm to soft, very poorly sorted, very shaly, decreasing grains size from above, slightly calcareous, scattered carbonaceous matter, micromicaceous

SHALE: 30% medium-dark gray-brown, soft-very soft, blocky, very silty, micromicaceous, non calcareous, occasional carbonaceous inclusions Very limited sample – questionable quality

#### 3990'-4020' **NO RETURNS**

4020'-4030' SILTSTONE: 90% medium gray-brown, light gray, friable-firm, moderately well cemented, calcareous, very poorly sorted, shaly, pyritic in part, scattered carbonaceous inclusions micromicaceous

SHALE: 10% medium-dark gray-brown, soft-very soft, blocky, very silty, micromicaceous, non calcareous, occasional carbonaceous inclusions

4030'-4040' SILTSTONE: 80% medium-dark gray, gray-brown, soft and friable to firm, moderately well cemented, very poorly sorted, shaly, slightly calcareous, quartzitic with rare glauconite, micromicaceous, scattered carbonaceous inclusions SANDSTONE: 10% light gray, very fine grained to silty, friable, moderately well sorted, moderately well cemented, calcareous, quartzitic, poor porosity (4-6%), no shows

SHALE: 10% Occurs as soft fissile, medium-dark gray-brown and light gray partings

- 4040'-4060' SANDSTONE: 50% light gray, salt and pepper, very fine grained to silty, firm to friable, moderately well sorted, some clay fill, moderately well cemented, calcareous, quartzitic with considerable black carbonaceous debris, poor intergranular porosity (4-8%), no shows

  SILTSTONE: 50% light gray-brown, light gray, firm to friable, moderately well cemented, poor-moderately well sorted, shaly in part, trace glauconite

  CARBONACEOUS SHALE: trace very dark brown, blocky, brittle
- 4060'-4080'

  SILTSTONE: 80% light gray, light-medium gray-brown, firm to friable, mostly poorly sorted, shaly, calcareous, carbonaceous, micromicaceous, pyritic in part, SANDSTONE: 10% as above SHALE: 10% light gray-brown, very light gray, very soft, fissile, silty, calcareous in part, carbonaceous

COAL: trace, black hard, brittle, sub vitreous

- 4080'-4090'

  SILTSTONE: 70% light-medium gray-brown, light gray, soft, friable to firm, very poorly sorted, shaly, mostly non calcareous, occasional carbonaceous inclusions, trace glauconite, trace pyrite

  SHALE: 30% light gray, light gray-brown, very soft, sub blocky-fissile, slightly-very silty, non calcareous, rare carbonaceous inclusions
- 4090'-4100' SILTSTONE: 50% light-medium gray-brown, light gray, soft, friable to firm, very poorly sorted, shaly, mostly non calcareous, occasional carbonaceous inclusions, trace glauconite, trace pyrite

  SANDSTONE: 50% light gray, light gray-brown, very fine grained to silty, friable, poor-moderately well cemented, poorly sorted, shaly, slightly calcareous, carbonaceous, poor porosity (4-6%, no shows)
- 4100'-4110' SHALE: 100% light gray, light gray-brown, very soft, blocky-subfissile, non calcareous, slightly-very silty, rare carbonaceous inclusions
- 4110'-4120' SHALE: 50% light gray, light gray-brown, very soft, blocky-subfissile, very silty, non calcareous to moderately calcareous, micromicaceous, occasional carbonaceous inclusions

  SILTSTONE: 50% light gray, light-medium gray-brown, soft to friable, very poorly sorted, shaly, micromicaceous, calcareous, scattered carbonaceous specks
- 4120'-4150' SILTSTONE: 80% light gray-brown, light gray, soft to friable, very poorly sorted, shaly, slightly calcareous in part, rare carbonaceous inclusions

  SHALE: 20% light gray-brown, light gray, very soft, subfissile to fissile, slightly-very silty, smooth and subwaxy in part, non calcareous, micromicaceous
- 4150'-4160' SHALE: 80% light gray-brown, light gray, very soft, blocky-subfissile, slightly-very silty, non calcareous, micromicaceous, rare carbonaceous specks

SILTSTONE: 20% light gray-brown, friable to firm, moderately well cemented, very poorly sorted, shaly, slightly calcareous, micromicaceous, rare carbonaceous inclusions

# 4160'-4210' **NO RETURNS**

- 4180'-4220'

  HOLE UNLOADS AT 4230' lagged back to 4180'-4220'

  SHALE: 100% light gray-brown, very soft, blocky-subfissile, non calcareous, slightly-very silty, scattered floating very fine grained quartz grains, rare black carbonaceous inclusions
- 4220'-4230'
  SHALE: 70% light gray-brown, very soft, blocky-subfissile, non calcareous, slightly silty, rare carbonaceous inclusions
  SANDSTONE: 30% light gray, salt and pepper, very fine grained to silty, friable, moderately well sorted, shaly in part, calcareous, quartzitic with occasional carbonaceous inclusions, poor visible intergranular porosity (4-6%), no shows

## 4230'-4250' **NO RETURNS**

4250'-4260' HOLE UNLOADS AT 4270', Very poor sample, few returns
SILTSTONE: 90% light gray-brown, friable to soft, poorly cemented, very poorly sorted, very shaly, calcareous, occasional carbonaceous inclusions

SHALE: 10% very light gray, light gray-brown, very soft, occurs as fissile partings

# LOG TOP EMERY 4279' (+4393')

4260'-4280' HOLE UNLOADS CUTTINGS AT 4297'

SANDSTONE: 80% light gray, medium gray-brown, very fine grained, friable to firm, moderately well cemented, poor-moderately well sorted with light gray clay fill, moderately calcareous, subangular, quartzitic with rare black and brown chert, poor visible intergranular porosity (4-8%), no fluorescence, stain, or cuts SHALE: 20% medium-dark gray-brown, soft-firm, blocky-subfissile, slightly-very silty, non calcareous, occasional carbonaceous inclusions

# 4280'-4320' **NO RETURNS**

# 4320'-4340' **NO RETURNS**

4340'-4350'
TRY TO UNLOAD HOLE AT CONNECTION-4360', Very poor sample, lagged back to 4340'-4350'
SANDSTONE: 60% light gray, very light gray-brown, very light brown, very fine

grained, unconsolidated in part, to soft and friable, poorly cemented, poor-moderately well sorted, shaly in part, non calcareous to calcareous, subangular, quartzitic with rare black grains, probable poor intergranular porosity, No stain, fluorescence, or cuts

SHALE: 40% light gray-brown, soft, blocky-subfissile, non calcareous, very silty, rare carbonaceous specks

4350'-4360' UNLOAD HOLE AT 4373', Very poor sample quantity and quality

SANDSTONE: 50% light gray, very light brown, very fine grained to silty, very soft and friable, poor-moderately well sorted, shaly when brown, calcareous, poorly cemented, quartzitic with rare black grains and carbonaceous inclusions, poor visible porosity, no shows

SHALE: 50% light brown, gray-brown, very soft, blocky-subfissile, slightly-very silty, non calcareous, occasional brown and black carbonaceous remains

4360-4370' COAL: 80%, black, firm, brittle, sub vitreous, no fluorescence or cuts when immersed in solvent

SANDSTONE: 10% light brown, buff, very fine grained to silty, soft and friable, poorly sorted with clay fill, poor-moderately well cemented, very calcareous, quartzitic with scattered carbonaceous inclusions and laminae, poor intergranular porosity, no petroliferous odor, fluorescence, stain, or cuts

SHALE: 10% light brown, very soft, blocky-subfissile, silty, non calcareous, rare carbonaceous inclusions

- 4370'-4391' SANDSTONE: 100% Totally unconsolidated fine-medium grained subangular-subround quartz with rare white altered feldspar, probable well sorted, scattered black carbonaceous debris and coal, possible fair intergranular porosity, no petroliferous odor, stain, fluorescence, or cuts
- 4391'-4421' SANDSTONE: 50% Sample composed of 90% unconsolidated fine-medium grained subangular-subround quartz, rare intact clusters are mostly well sorted with some cream clay fill in pores, friable, poorly cemented, slightly calcareous, quartzitic with scattered brown chert, poor to fair intergranular porosity (12-18%), no petroliferous odor, fluorescence, stain, or cuts, rare black carbonaceous matter on quartz grains SHALE: 50% light brown to buff, very soft to firm, blocky-subfissile, non calcareous, slightly-very silty, micromicaceous, rare pyrite aggregates

SAMPLE ABOVE COLLECTED AFTER TOTAL DEPTH WHEN HOLE UNLOADED CUTTINGS.

RUN LOGS WITH SCLUMBERGER AT 4421', AND RUN 9 5/8" CASING

DRILL OUT OF SHOE AND ENCOUNTER CONSIDERABLE WATER IN 5 FEET. ATTEMPT TO DRILL AHEAD WITH AIR/MIST.

4421'-4430' **NO RETURNS** 

4430'-4438' HOLE UNLOADS VERY SCANT, POOR RETURNS
SHALE: 100% light gray, medium-dark gray-brown, soft-firm, blocky-subfissile, smooth to very silty, non calcareous, micromicaceous, trace calcite fracture fill

- 4438'-4461' SANDSTONE: 90% medium-dark gray-brown, light gray, very fine to rare fine grained, friable-firm, moderately well sorted, well cemented in part, calcareous, quartzitic with occasional brown and black chert, some carbonaceous debris when dark, poor intergranular porosity, no shows

  SHALE: 10% very dark brown, firm, subfissile, very carbonaceous, silty, non calcareous, micromicaceous
- 4461'-4475' SANDSTONE: 100% light gray, very fine to rare fine grained, firm-friable, moderately well to well sorted, moderately well cemented, slightly calcareous, quartzitic with scattered brown and black chert, subangular-subround, poor to rare fair intergranular porosity, no shows, very limited returns
- 4475'-4490' SANDSTONE: 100% light gray, very fine to rare fine grained, becoming unconsolidated in part, firm-friable, moderately well to well sorted, moderately well cemented, slightly calcareous, quartzitic with scattered brown and black chert, subangular-subround, poor to rare fair intergranular porosity, no shows, very limited returns
- 4490'-4530' SANDSTONE 90% very fine grained, becoming more consolidated, poor-moderately well sorted with white clay fill in pores, calcareous, moderately well cemented, subangular-subround, quartzitic with black and brown chert, poor visible intergranular porosity, no shows

  SHALE: 10% light gray, light gray-green, soft, blocky-subfissile, non calcareous, smooth
- 4530'-4560' <u>VERY POOR SAMPLE</u> <u>SANDSTONE:</u> as above
- 4560'-4590' COAL: 10% black, firm, brittle, sub vitreous, not enough sample to canister SANDSTONE: 90% totally unconsolidated, very fine grained subangular-subround quartz with scattered accessory dark chert, rare red iron stain on quartz grains, probable poor intergranular porosity, no shows
- 4590'-4620'

  SANDSTONE: 70% unconsolidated in part, intact clusters are light gray, very fine grained to silty, firm-friable, poor-moderately well sorted with light gray clay fill in pores, calcareous, moderately well cemented, subangular-subround, quartzitic with black carbonaceous inclusions, poor intergranular porosity, no shows

  COAL: 10% black, firm, brittle, sub vitreous

  SHALE: 20% white, light gray-green, soft, blocky to platy, probably occurs as partings in sandstone, calcareous when white

#### TRIP FOR BIT AT 4631'

- 4620'-4640' SANDSTONE: 100% totally unconsolidated, very fine to fine grained subangular-subround quartz with scattered black and dark brown minerals, probable poor-occasional fair intergranular porosity, no shows, scattered white soft, platy clay partings
- 4640'-4660' SANDSTONE: 60% totally unconsolidated, becoming very fine grained, subangular-subround quartz with scattered black and dark brown minerals, probable poor intergranular porosity, no shows, scattered white soft, platy clay partings

  COAL: 40% black, firm, brittle, sub vitreous, micropyritic
- 4660'-4700' SANDSTONE: 85% totally unconsolidated very fine to fine grained subangular-subround quartz with scattered brown and black chert, rare red iron stain on quartz grains, possibly some fair intergranular porosity, no shows

  COAL: 10% black, firm, brittle, sub vitreous

  CARBONACEOUS SHALE: 5% dark brown, firm, blocky, very silty, calcareous in part, highly carbonaceous
- 4700'-4730' SANDSTONE: 90% Predominantly unconsolidated (99%), very fine to fine grained subangular-subround quartz with scattered brown and black chert, rare red iron stain on quartz grains, rare intact clusters are moderately well sorted, calcareous, and friable, possibly some fair intergranular porosity, no shows

  SHALE: 10% dark brown, blocky, firm, very silty, non calcareous, abundant carbonaceous inclusions and laminae, micropyritic
- 4730'-4760' SHALE: 60% dark gray-brown, dark brown, firm, blocky-subfissile, very silty, non calcareous, carbonaceous, micropyritic

  SANDSTONE: 40% light gray, very fine grained to silty, firm, mostly consolidated, poorly sorted with light gray clay fill in pores, moderately well cemented, calcareous, quartzitic with some brown chert, very poor intergranular porosity, (4-6%), no shows SILTSTONE: trace, light gray, soft to firm, very shaly, calcareous, scattered carbonaceous specks
- 4760'-4790' SANDSTONE: 70% light gray, very fine grained mostly unconsolidated, rare intact clusters are friable, very poorly sorted with light gray clay fill in pores, poormoderately well cemented, calcareous, quartzitic with rare black and brown grains, very poor intergranular porosity, no shows

  SHALE: 30% dark gray-brown, dark brown, firm, blocky-subfissile, very silty, slightly calcareous, decreasing carbonaceous matter, trace pyrite, micromicaceous
- 4790'-4820' SANDSTONE: 80% light gray, very fine to fine grained predominantly unconsolidated, rare intact clusters are friable, very poorly sorted with light gray clay fill in pores, poor-moderately well cemented, calcareous, quartzitic with rare black and brown grains, very poor intergranular porosity, no shows

SHALE: 20% dark gray-brown, dark brown, firm, blocky-subfissile, very silty, slightly calcareous, scattered carbonaceous matter, trace pyrite, micromicaceous

- 4820'-4850' SANDSTONE: 100% Totally unconsolidated very fine to fine grained, rare medium grained subangular-subround quartz with accessory brown medium gray-brown chert, rare coaly and carbonaceous matter on quartz grains, possibly some fair intergranular porosity (12-15%), no shows
- 4850'-4870'

  SANDSTONE: 100% totally unconsolidated becoming predominantly very fine grained, subangular-subround quartz with rare accessory brown and black chert, considerable clay washes out of sample, suggesting very poorly sorted clayey sandstone with poor porosity (3-4%), no shows, scattered white soft clay partings
- 4870'-4900' SHALE: 60% dark gray-brown, dark brown, blocky-subfissile, firm, very silty, non calcareous to slightly calcareous, micromicaceous, abundant carbonaceous debris, trace calcite fossil fragments

SILTSTONE: 40% brown, light-medium gray-brown, firm to hard and well cemented, shaly, dirty, numerous carbonaceous specks

COAL: trace, black hard, sub vitreous

4900'-4930' SHALE: 40% dark gray-brown, dark brown, blocky-subfissile, firm, very silty, non calcareous to slightly calcareous, micromicaceous, abundant carbonaceous debris,, trace calcite fossil fragments

<u>SILTSTONE: 30</u>% brown, light-medium gray-brown, firm to hard and well cemented, shaly, dirty, becoming very calcareous grading to silty limestone, numerous carbonaceous specks

SANDSTONE: 20% light gray, light brown, mostly unconsolidated very fine grained quartz, intact clusters are friable, moderately well cemented, poor-moderately well sorted, shaly, very calcareous, poor intergranular porosity, no shows

COAL: 10% black, firm to hard, brittle, sub vitreous

- 4930'-4950'

  COAL: 80% black firm-hard, brittle, sub vitreous, not interpreted as representative of entire interval. Coal does not exhibit fluorescence or give cuts in solvent

  SANDSTONE: 20% Totally unconsolidated very fine grained subangular-subround quartz, probable poor intergranular porosity, no shows
- 4950'-5120' NO RETURNS: Only one compressor is placed on the hole, as the reserve pit is full, and is being pumped down. Lithology interpreted from drill rate as interbedded sandstone, siltstone, and shale, with occasional thin coal beds
- 5120'-5140' SANDSTONE: 100% Totally unconsolidated very fine to fine grained subangular-subround quartz with scattered carbonaceous inclusions, probable poor intergranular porosity, no shows, occasional white very soft clay partings

- 5140'-5190' SANDSTONE: 80% light gray very fine grained, becoming consolidated, friable, very poorly sorted with white to light gray clay fill, poorly cemented, slightly calcareous, quartzitic with rare glauconite and occasional carbonaceous debris, very poorly intergranular porosity (3-4%), scattered white clay partings SILTSTONE: 20% light brown, soft, very shaly, dirty, calcareous
- 5190'-5230' CARBONACEOUS SHALE: 70% brown to very dark brown, black and coaly, soft-firm, blocky-fissile, non calcareous, very silty, pyritic in part, abundant carbonaceous matter

<u>SANDSTONE: 20%</u> mostly unconsolidated very fine grained, subangular-subround quartz, intact clusters are very poorly sorted with clay, very calcareous, very poor intergranular porosity (3-4%), **no shows**, scattered white to brown very soft calcareous clay partings

COAL: 10% black, firm to hard, friable in part

- 5230'-5260' SANDSTONE: 100% Totally unconsolidated very fine grained to silty, subangular-subround quartz, calcareous in part, considerable cream clay fill washing out of sample, probable very poor intergranular porosity (3-4%), no shows
- 5260'-5290' SANDSTONE: 80% Totally unconsolidated very fine grained to silty, subangular-subround quartz, calcareous in part, considerable cream clay fill washing out of sample, quartzitic with scattered glauconite, probable very poor intergranular porosity (3-4%), no shows

  CARBONACEOUS SHALE: 20% dark brown to black, soft to firm, blocky-fissile, very silty, non calcareous, occasional pyritic, coaly in part
- 5290'-5366' **NO RETURNS**: Limited air to no air is on the hole, as reserve pit is full, gain returns after connection at 5366'. Sample is limited in quantity and poor in quality.
- 5366'-5397' POOR SAMPLES: Lags uphole an unknown distance

  SANDSTONE: 80% light gray, very fine grained, mostly unconsolidated, intact clusters are friable to firm, poor-moderately well sorted with some light gray clay fill in pores, slightly calcareous, moderately well cemented, quartzitic with rare gray-brown and brown chert, scattered carbonaceous debris, subangular-subround, poor intergranular porosity, no shows

  SILTSTONE: 20% dark brown, light brown, firm-friable, very poorly sorted, shaly, slightly calcareous, very silty, considerable carbonaceous inclusions
- 5397'-5520' **NO RETURNS:** Only one compressor on hole, cuttings not being lifted.

5520'-5540' VERY POOR QUALITY, MEAGER SAMPLE CAUGHT AT 5550'., Lagged back to 5520'-5540'

SANDSTONE: 90% light gray, very fine grained, mostly unconsolidated, intact clusters are moderately well cemented, friable, moderately well sorted, scattered clay in pores, calcareous, quartzitic with rare glauconite, occasional brown chert and organic coating on quartz grains, poor visible porosity, (4-6%), no shows, scattered soft white clay partings

**COAL: 10%** Probable cavings

- SANDSTONE: 60% light gray, very fine good, soft-firm, friable, poor-moderately well cemented, very poorly sorted with clay fill, slightly calcareous, quartzitic with scattered black minerals and carbonaceous inclusions, poor intergranular porosity (3-4%), no shows

  SILTSTONE: 20% light gray, soft, very poorly sorted, shaly, calcareous SHALE: 20% white, light-medium gray, very soft, mushy in part, platy to blocky,
  - SHALE: 20% white, light-medium gray, very soft, mushy in part, platy to blocky, clayey and calcareous when white, silty
- SILTSTONE: 70% light gray, very soft, very poorly sorted, shaly, calcareous, scattered carbonaceous specks

  SANDSTONE: 30% light gray, very fine grained to silty, soft, very poorly sorted, shaly, calcareous, grading to and interbedded with siltstone, poor intergranular porosity (3-4%)
- 5615'-5640' SANDSTONE: 60% light gray, very fine grained to silty, soft and shaly to friable, very poorly sorted, slightly calcareous in part, poorly cemented, occasional carbonaceous inclusions, poor porosity, no shows

  SILTSTONE: 40% light gray, very soft, very poorly sorted, shaly, calcareous, scattered carbonaceous specks
- 5640'-5665'

  SILTSTONE: 60% light gray, light gray-brown, very soft to unconsolidated, very poorly sorted, shaly, slightly calcareous

  SANDSTONE: 20% light gray, salt and pepper, very fine grained, soft and friable to firm, poor-well cemented, shaly, slightly calcareous, quartzitic with black and brown accessory chert, subangular, very poor intergranular porosity, no shows

  SHALE: 20% medium-dark brown, firm, fissile-subfissile, very silty, non calcareous, micromicaceous, considerable carbonaceous inclusions and laminae
- 5665'-5685'

  SHALE: 60% medium-dark brown, black, medium gray, firm, to soft when gray, blocky-subfissile, very silty, non calcareous, highly carbonaceous, coaly in part, pyritic occasionally

  SILTSTONE: 20% light brown, tan, friable to hard and well cemented, shaly, very calcareous, scattered carbonaceous specks

<u>SANDSTONE: 20%</u> light gray, salt and pepper, very fine grained, rare fine grained, firm-friable, moderately well cemented, poor-moderately well sorted, some gray clay fill, subangular, quartzitic with scattered dark chert and carbonaceous inclusions, poor porosity, **no shows** 

5685'-5700' SHALE: 70% light gray, light gray-brown, very soft, mushy, silty, calcareous, scattered carbonaceous specks
SILTSTONE: 30% light gray, very soft, very poorly sorted, shaly, calcareous, scattered carbonaceous specks

#### 5700'-5730' HOLE UNLOADS, VERY POOR SAMPLE

SHALE: 40% dark brown, firm, blocky-subfissile, very silty, micromicaceous, slightly calcareous in part, abundant carbonaceous inclusions and laminae SILTSTONE: 60% light gray, light gray-brown, very soft, very poorly sorted, shaly, non calcareous, Abundant coal and very fine grained sandstone – probable cavings from ROP

#### LOG TOP LOWER BLUEGATE (MANCOS) 5764', 5762 TVD (+2910')

#### 5730'-5990' **NO RETURNS**

5970'5996' HOLE UNLOADS AT 5790'-5996', LAGGED BACK TO 5970'
SILTSTONE: 70% light-medium gray, firm-hard, well cemented, shaly to moderately well sorted, very calcareous, some black carbonaceous specks
SHALE: 30% medium gray, firm, blocky-subfissile, silty, calcareous, micromicaceous, occasional carbonaceous streaks

5996'-6018'

SILTSTONE 50% light brownish-gray, light gray, firm to hard, very shaly to moderately well sorted, calcareous, micromicaceous in part, scattered carbonaceous inclusions

SHALE: 50% medium gray, firm, blocky-subfissile, silty, calcareous, micromicaceous, occasional carbonaceous streaks

COAL: Abundant black, hard vitreous, interpreted after logs to be cavings

- 6018'-6040' SILTSTONE: 50% light-medium gray-brown, medium gray, firm, moderately well to well cemented, poorly sorted, shaly, calcareous, scattered carbonaceous debris SHALE: 50% light-medium gray-brown, medium gray, firm, blocky-subfissile, very silty to moderately silty, micromicaceous, calcareous, occasional carbonaceous inclusions
- 6040'-6075' SHALE: 80% medium-dark gray, gray-brown, firm, blocky-subfissile, moderately-very silty, calcareous, scattered carbonaceous matter, micromicaceous SILTSTONE: 20% light-medium gray, firm to hard and well cemented, very poorly sorted and shaly to moderately well sorted, very calcareous

<u>SANDSTONE: trace</u> light gray, very fine grained, hard, well cemented, very calcareous, moderately well sorted, quartzitic with rare red grains, scattered black grains, no visible intergranular porosity, **no shows** 

- 6075'-6115' Considerable coal still in sample, probable cavings,

  SHALE: 70% medium-dark gray-brown, firm, blocky-fissile, very silty,

  micromicaceous, calcareous, rare carbonaceous specks

  SILTSTONE: 30% light-medium gray-brown, light gray, light brown, firm to hard and well cemented, slightly calcareous to very calcareous, very poorly sorted, shaly, scattered carbonaceous specks

  SANDSTONE: trace, light gray, very fine grained, very hard, well cemented, calcareous, moderately well sorted, quartzitic, no visible intergranular porosity, no shows
- 6115'-6150' SAMPLE IS 80% COAL CAVINGS
  SILTSTONE: 20% light gray, light gray-brown, firm, very poorly sorted, shaly, well cemented, micromicaceous, calcareous, rare carbonaceous inclusions, grading to silty shale
- ABUNDANT COARSE COAL CAVINGS, LESS IN FINE SCREENED

  SAMPLE
  SHALE: 60% medium gray, medium gray-brown, firm, blocky-fissile, calcareous, very silty, micromicaceous, rare carbonaceous inclusions

  SILTSTONE: 40% medium gray, medium gray-brown, firm-hard, well cemented, very shaly, calcareous, micromicaceous, rare buff inclusions, scattered carbonaceous inclusions
- 6190'-6220' SILTSTONE: 80% medium gray, medium gray-brown, firm-hard, well cemented, very shaly, calcareous, micromicaceous, rare buff inclusions, scattered carbonaceous inclusions

  SHALE: 20% medium gray, medium gray-brown, firm, blocky-fissile, calcareous, very silty, micromicaceous, rare carbonaceous inclusions
- 6220'-6252' SHALE: 80% Medium gray-brown, soft-firm, blocky-fissile, very silty, calcareous, occasional carbonaceous specks, micromicaceous SILTSTONE: 20% light gray, light brown, firm, well cemented, shaly, very calcareous
- 6252'-6300' COAL 50% CAVINGS
  SHALE 100%: medium gray-brown, when wet to dark gray when black, soft and brittle to firm, fissile-subfissile, calcareous, micromicaceous, very silty, rare carbonaceous specks
- 6300'-6330'
  SHALE: 100% medium brown when wet to dark gray to black when dry, soft-firm, fissile-subfissile, micromicaceous, silty, slightly calcareous, rare carbonaceous specks, trace calcite fossil fragments

- 6330'-6350' SHALE: 100% medium brown when wet to very dark gray to black when dry, soft-firm, fissile-subfissile, slightly-moderately silty, slightly calcareous to rare very calcareous, micromicaceous, rare carbonaceous inclusions

  COAL: 10% cavings
- 6350'-6390' SHALE: 90% medium brown when wet to very dark gray to black when dry, soft-firm, fissile-subfissile, very silty, slightly calcareous to rare very calcareous, micromicaceous, rare carbonaceous inclusions

  SILTSTONE: 10% light brown, soft in part to firm, very poorly sorted, shaly, very calcareous

  CLAYSTONE: trace, light brown, very soft, calcareous, mushy in part, blocky, bentonitic
- 6390'-6420' SHALE: 100% light-medium brown when wet to very dark gray to black when dried, firm to very soft, fissile-sub blocky, silty, micromicaceous, slightly to very calcareous, occasional light brown very soft and bentonitic, scattered carbonaceous inclusions
- 6420'-6480'

  COAL: 50% CAVINGS

  SHALE: 50% light-medium brown when wet to dark gray to black when dry, softfirm, blocky-subfissile, becoming very silty in part, calcareous, micromicaceous, trace
  calcite fossil fragments, scattered carbonaceous specks

  SILTSTONE: 50% light-medium gray-brown, medium brown, firm to hard and well
  cemented, very shaly, very calcareous, occasional carbonaceous inclusions
- 6480'-6510' HOLE BEGINS MAKING CONSIDERABLE WATER AT 6510', UNLOAD HOLE WITH 4 COMPRESSORS AT CONNECTION AT 6521'. WATER UNLOADS 30-40 FEET ABOVE SHAKER, NO GAS OR HYDROCARBONS OBSERVED.

SHALE: 50% light-medium brown when wet, dark gray when dried, soft-firm, blocky-fissile, very silty, calcareous, micromicaceous, occasional black carbonaceous specks

SILTSTONE: 50% light-medium brown, light gray, firm to very hard and well cemented, dense, very shalp and dirty, to moderately well sorted when light gray, very calcareous, micromicaceous in part, occasional carbonaceous inclusions, no shows.

- 6510'-6520' SHALE: 80% medium brown, gray-brown when wet, very dark gray when dried, soft-firm, subfissile-fissile, calcareous, very silty, micromicaceous, scattered carbonaceous specks

  SILTSTONE: 20% medium gray-brown, firm to hard, well cemented, very calcareous, very poorly sorted, shaly, dirty, rare carbonaceous specks
- 6520'-6550' SHALE: 80% medium brown, gray-brown when wet, very dark gray when dried, soft-firm, subfissile-fissile, calcareous, very silty, micromicaceous, scattered carbonaceous specks, trace calcite fossil fragments

<u>SILTSTONE: 20%</u> medium gray-brown, firm to hard, well cemented, very calcareous, very poorly sorted, shaly, dirty, rare carbonaceous specks

6550'-6590'

SILTSTONE: 60% light-medium gray-brown, medium brown, firm-hard, well cemented, very calcareous, very shaly, rare carbonaceous specks

SHALE: 40% light-medium brown, gray-brown, dark gray when dry, subfissile-fissile, becoming very silty, calcareous, micromicaceous

## 6590'-6650' **COAL: 60% CAVINGS**

SHALE: 80% medium brown when wet, dark gray when dried, soft-firm, subfissile-fissile, slightly calcareous, slightly-very silty, micromicaceous, rare carbonaceous specks

SILTSTONE: 20% light-medium gray-brown, medium brown, firm-hard, well cemented, very calcareous, very shaly, rare carbonaceous specks

6650'-6680' COAL: 60% CAVINGS, Poor sample quality

SHALE: 60% medium brown when wet, dark gray when dried, soft-firm, subfissile-fissile, slightly calcareous, slightly-very silty, micromicaceous, rare carbonaceous specks

SILTSTONE: 40% light-medium gray-brown, medium brown, firm-hard, well cemented, very calcareous, very shaly, rare carbonaceous specks

6680'-6710' COAL: 70% CAVINGS, Very poor sample quality

SHALE: 90% light-medium brown, gray-brown, when wet, dark gray when dried, soft-firm, fissile-subfissile, slightly-very silty, calcareous, micromicaceous, rare carbonaceous inclusions

SILTSTONE: 10% medium brown, firm, blocky, very shaly, very calcareous

# 6710'-6750' **NO RETURNS**

6750'-6790' SHALE: 50% medium brown, gray-brown, when wet, dark gray when dry, soft-firm, blocky-subfissile, very silty, slightly calcareous, micromicaceous, occasional carbonaceous debris, trace calcite fossil fragments

SILTSTONE: 50% medium brown, light gray-brown, firm to hard, well cemented, non calcareous to very calcareous, very poorly sorted, shaly

6790'-6820' **COAL: 70% CAVINGS** 

SHALE: light-medium gray-brown when wet, dark gray when dry, firm, subfissile-fissile, very silty, micromicaceous, slightly-moderately calcareous, occasional carbonaceous inclusions

6820'-6850'

COAL: 40% CAVINGS

SHALE: light-medium gray-brown when wet, dark gray when dry, firm, subfissilefissile, very silty, micromicaceous, slightly-moderately calcareous, occasional
carbonaceous inclusions

- 6850'-6890' SHALE: 100% medium brown, light-medium gray-brown, dark gray when dry, soft-firm, fissile, slightly-very silty, calcareous, micromicaceous, occasional carbonaceous inclusions, decreasing coal cavings
- 6890'-6920' SHALE: 100% medium brown, light-medium gray-brown, dark gray when dry, soft-firm, fissile, slightly-very silty, calcareous, micromicaceous, occasional carbonaceous inclusions, few coal cavings
- 6920'-6940' SHALE: 90% medium brown when wet, dark gray dried, firm, subfissile-fissile, silty, slightly calcareous. micromicaceous, rare carbonaceous specks

<u>SILTSTONE: 10%</u> medium brown, firm to moderately hard, well cemented, platy, very shaly, very calcareous, rare carbonaceous inclusions

- 6940'-6970' SHALE: 90% medium brown when wet, dark gray dried, firm, subfissile-fissile, silty, slightly calcareous. micromicaceous, rare carbonaceous specks

  SILTSTONE: 10% medium brown, firm to moderately hard, well cemented, platy, very shaly, very calcareous, rare carbonaceous inclusions, occasional pyritic
- 6970'-7000' SHALE: 100% medium brown, occasional light brown, when wet, soft when light brown, to firm, subfissile-fissile, silty, micromicaceous, calcareous, occasional light brown blocky, very soft very calcareous, and marly
- 7000'-7073' SAMPLES LEFT IN HOLE, trip out to change to mud. First few stands very tight

MIX MUD AND CONSIDERABLE LCM

DEPTH CORRECTED TO 7083'

7083'-7110' 99% LCM – orange wood fiber

SHALE: 80% medium-dark gray, soft-firm, subfissile-fissile, very silty,
micromicaceous, calcareous, rare carbonaceous specks

SILTSTONE: 20% medium gray, hard, well cemented, non calcareous to calcareous,
micromicaceous, rare carbonaceous inclusions

#### BEGIN 10' LAGGED SAMPLES

- 7110'-7120' 99% LCM, primarily orange wood fiber

  SHALE: 100% medium-dark gray, soft-firm, subfissile-fissile, very silty, micromicaceous, calcareous, rare carbonaceous specks
- 7120'-7130' 99% LCM as above

  SHALE: 100% medium-dark gray, soft-firm, subfissile-fissile, very silty, micromicaceous, calcareous, rare carbonaceous specks

- 7130'-7140' LCM 95% composed of considerable biotite, clear crystalline quartz and green minerals Igneous origin

  SHALE: 100% medium gray-brown, very soft to soft, blocky-subfissile, moderately-very silty, earthy, rare glauconite inclusions and carbonaceous matter

  SILTSTONE: trace, medium gray-brown, hard, well cemented, calcareous, very poorly sorted, shaly
- 7140'-7150' LCM 99% orange wood fiber and cellophane

  SHALE: medium gray-brown, firm, blocky-subfissile, silty, micromicaceous, calcareous, rare carbonaceous inclusions
- 7150'-7170' LCM-95%

  SHALE: 100% medium brown, light brown, very soft and blocky when light brown, to firm and subfissile-fissile, silty, slightly-very calcareous, micromicaceous, rare pyrite inclusions
- 7170'-7180' 90% LCM

  SHALE: 90% medium brown, light brown, very soft and blocky when light brown, to firm and subfissile-fissile, silty, slightly-very calcareous, micromicaceous, rare pyrite inclusions

  SILTSTONE: 10% medium gray-brown, firm, blocky, very shaly, calcareous, scattered carbonaceous debris
- 7180'-7190' LCM 80%

  SHALE: 90% light gray and very soft to medium gray, gray-brown, firm very silty, micromicaceous, slightly calcareous, scattered carbonaceous specks

  SILTSTONE: 10% medium gray-brown, firm, blocky, very shaly, calcareous, scattered carbonaceous debris
- 7190'-7200' LCM 50%

  SHALE: 80% light gray, medium-dark gray-brown, very soft when light gray to firm, blocky-subfissile, micromicaceous, calcareous, earthy in part, occasional carbonaceous debris

  SILTSTONE: 20% medium gray-brown, firm-hard, very shaly, well cemented, calcareous, occasional carbonaceous inclusions
- 7200'-7210' LCM 50%

  SHALE: 100% light gray, medium-dark gray-brown, very soft when light gray to firm, blocky-subfissile, micromicaceous, calcareous, earthy in part, occasional carbonaceous debris
- 7210'-7220' LCM drops to 10% or less from here, sample quality improves to good
  SHALE: 100% light-dark gray, very soft to firm, blocky-subfissile, slightly-very calcareous, micromicaceous, occasional carbonaceous inclusions, trace pyrite
- 7220'-7230' SHALE: 100% light-dark gray, very soft to firm, blocky-subfissile, slightly-very calcareous, micromicaceous, occasional carbonaceous inclusions, trace pyrite

- 7230'-7240' SHALE: 70% light-dark gray, very soft to firm, blocky-subfissile, slightly-very calcareous, micromicaceous, occasional carbonaceous inclusions, trace pyrite SILTSTONE: 30% medium gray-brown, firm to hard, well cemented, very poorly sorted, shaly, micromicaceous, calcareous, occasional buff inclusions, and carbonaceous specks
- 7240'-7250' SHALE: 90% medium-dark gray-brown, medium gray, soft-firm, slightly-very silty, micromicaceous, calcareous, rare glauconite, occasional carbonaceous inclusions

<u>SILTSTONE: 10%</u> medium gray-brown, firm to hard, well cemented, very poorly sorted, shaly, micromicaceous, calcareous, occasional buff inclusions, and carbonaceous specks, rare glauconite

- 7250'-7260' SHALE: 90% medium-dark gray-brown, medium gray, soft-firm, slightly-very silty, micromicaceous, calcareous, rare glauconite, occasional carbonaceous inclusions SILTSTONE: 10% medium gray-brown, firm to hard, well cemented, very poorly sorted, shaly, micromicaceous, calcareous, occasional buff inclusions, and carbonaceous specks, rare glauconite
- 7260'-7270' SHALE: 100% medium gray-brown, soft-firm, blocky-subfissile, very silty, calcareous, micromicaceous, rare pyrite inclusions and carbonaceous specks
- 7270'-7280' SHALE: 90% medium-dark gray-brown, medium-dark gray, soft-firm, blocky-subfissile, silty, slightly-moderately calcareous, micromicaceous, trace pyritic, scattered carbonaceous inclusions

  SILTSTONE: 10% medium gray-brown, hard, well cemented, shaly, very calcareous
- 7280'-7300' **NO RETURNS**: lost circulation at 7304', approximately 300 bbls.
- 7300'-7320' LCM 50%

  SHALE: 90% medium gray-brown, medium gray, soft-firm, blocky-subfissile, micromicaceous, very silty in part, calcareous, rare carbonaceous specks

  SILTSTONE: 10% medium gray, soft and friable, very shaly, calcareous
- 7320'-7330' LCM 50%

  SHALE: 100% medium-dark gray-brown, light-medium gray, soft-firm, blocky-subfissile, micromicaceous, very silty in part, calcareous, rare carbonaceous specks
- 7330'-7340' LCM 60%

  SHALE: 100% medium gray, medium gray-brown, light gray-brown, very soft when light, to firm, blocky-subfissile, moderately-very silty, calcareous, micromicaceous, occasional carbonaceous debris
- 7340'-7350' LCM 70%

<u>SHALE: 100%</u> dark gray-brown, dark gray, soft-firm, subfissile-fissile, micromicaceous, silty, becoming slightly calcareous, rare pyrite inclusions, rare carbonaceous specks

- 7350'-7360' LCM 50%

  SHALE: 100% dark gray-brown, dark gray, soft-firm, blocky-subfissile, micromicaceous, silty, becoming moderately to very calcareous, increasing pyrite inclusions, rare carbonaceous specks
- 7360'-7380' LCM 95%, poor sample

  SHALE: 100% dark gray-brown, dark gray, soft-firm, blocky-subfissile,
  micromicaceous, silty, calcareous, some pyrite inclusions, rare carbonaceous specks
- 7380'-7390' SHALE:100% dark gray-brown, dark gray, soft-firm, blocky-subfissile, micromicaceous, silty, calcareous, some pyrite inclusions, rare carbonaceous specks
- 7390'-7410' SHALE: 100% light gray, medium-dark gray-brown, soft-firm, micromicaceous, blocky-subfissile, very silty, calcareous, scattered carbonaceous debris
- 7410'-7440' SHALE: 100% light gray, medium-dark gray-brown, soft-firm, micromicaceous, blocky-subfissile, very silty, calcareous, scattered carbonaceous debris, occasional pyrite inclusions
- 7440'-7450' SHALE: 100% light-medium gray, medium gray-brown, soft-firm, blocky-fissile, slightly-moderately silty, calcareous, micromicaceous, occasional carbonaceous inclusions
- 7450'-7480' NO RETURNS: Lost circulation at 7473'
- 7480'-7490' Very poor sample quality, abundant LCM

  SHALE: 80% medium-dark gray, firm, blocky-subfissile, silty, calcareous, micromicaceous, scattered carbonaceous specks

  SILTSTONE: 20% dark gray, hard, well cemented, blocky, very calcareous, very poorly sorted, shaly
- 7490'-7500' LCM 99%

  <u>SHALE:</u> medium-dark gray, soft-firm, blocky-subfissile, micromicaceous, calcareous, very silty, occasional carbonaceous inclusions
- 7500'-7510' LCM 99%

  SHALE: medium-dark gray, soft-firm, blocky-subfissile, micromicaceous, calcareous, very silty, occasional carbonaceous inclusions, no visible sandstone
- 7510'-7520' LCM 100%, trace cuttings

  SHALE: medium-dark gray, soft-firm, blocky-subfissile, micromicaceous, calcareous, very silty, occasional carbonaceous inclusions, no visible sandstone

- 7520'-7530' LCM 100%, trace cuttings

  SHALE: medium-dark gray, soft-firm, blocky-subfissile, micromicaceous, calcareous, very silty, occasional carbonaceous inclusions, no visible sandstone
- 7530'-7540' LCM-99%

  <u>SHALE:</u> medium gray, medium gray-brown, soft-firm, blocky-subfissile, moderately-very silty, micromicaceous, very calcareous, rare carbonaceous inclusions

<u>SILTSTONE: trace</u>, medium gray, firm-hard, well cemented, very poorly sorted, shaly, slightly calcareous, micromicaceous, occasional pyrite inclusions

CREWS BEGIN WASHING LARGE AMOUNT OF LCM AT SHAKER, FLOATING OFF LCM, LEAVING RESIDUE OF LCM/CUTTINGS, SAMPLE QUALITY AND OUANTITY IMPROVES

- 7540'-7550' SHALE: 100% medium-dark gray, rare light gray-brown, soft-firm, blocky-fissile, moderately calcareous, very silty, micromicaceous, scattered carbonaceous remains
- 7550'-7560' SHALE: 95% medium-dark gray, rare light gray-brown, soft-firm, blocky-fissile, moderately calcareous, very silty, micromicaceous, scattered carbonaceous remains SILTSTONE:5% medium gray, firm, friable, platy, slightly calcareous, micromicaceous, very shaly
- 7560'-7570' SHALE: 100% medium-dark gray, rare light gray-brown, soft-firm, blocky-fissile, moderately calcareous, very silty, micromicaceous, scattered carbonaceous debris
- 7570'-7580' SHALE: 100% medium-dark gray, gray-brown, soft-firm, blocky-subfissile, very silty, calcareous, micromicaceous, occasional carbonaceous matter SILTSTONE: trace, light gray, very soft, shaly, carbonaceous
- 7580'-7600' SHALE: 100% dark gray, soft-firm, blocky-fissile, very calcareous, micromicaceous, very silty, occasional carbonaceous matter
- 7600'-7620'

  SHALE: 90% dark gray, dark gray-brown, soft-firm, blocky-fissile, very calcareous, micromicaceous, very silty, occasional carbonaceous matter

  LIMESTONE: 5% very light brown, light gray-brown, firm-hard, sublithographic, dense, moderately-very argillaceous, rare carbonaceous inclusions

  SILTSTONE: 5% white, dark gray, very soft and clayey to hard and well cemented when white, considerable mica flakes, non calcareous, very poorly sorted and clayey when white, to shaly when dark gray
- 7620'-7630' SHALE: 70% dark gray, dark gray-brown, soft-firm, blocky-fissile, very calcareous, micromicaceous, very silty, occasional carbonaceous matter

  LIMESTONE: 30% light brown, light gray-brown, dull medium gray-brown, rare white, sublithographic to microcrystalline, firm-hard, fragmental in part, micro pyritic, slightly-very argillaceous, very poorly intercrystalline porosity, no shows

<u>SILTSTONE: trace</u>, white, soft, fissile, very micaceous, bentonitic, dull mineral fluorescence

# CIRCULATE SAMPLES AT 7660' - 80 MINUTES, 3 SAMPLES IN HOLE

- 7630'-7640' SHALE: 60% as above SILTSTONE: 30% dark gray-brown, mottled light gray and dark gray, very soft and shaly to hard and well cemented, non calcareous, very poorly sorted, grading to shale LIMESTONE: 10% as above, sublithographic to microcrystalline
- 7640'-7660' SHALE: 50% dark gray, firm, blocky-subfissile, very silty, slightly calcareous, very silty

  SILTSTONE: 40% dark gray, firm-hard, well cemented, siliceous, non calcareous, very shaly

  LIMESTONE: 10% light brown, microcrystalline, fragmental in part, slightly-moderately argillaceous, tight
- 7660'-7670' SHALE: 100% medium-dark gray, soft-firm, blocky-subfissile, very silty to gritty, slightly calcareous, rare carbonaceous specks
- 7670'-7680' SHALE: 100% dark gray, firm-moderately hard, blocky-subfissile, non calcareous, very silty, micromicaceous, rare carbonaceous specks
- 7680'-7690' SHALE: 100% medium-dark gray, gray-brown, firm-moderately hard, blocky-subfissile, non calcareous, very silty, micromicaceous, rare carbonaceous specks
- 7690'-7709' NO RETURNS: Lost circulation, approximately 1000 bbls. over next few hours

GAIN RETURNS AND DRILL 10' TO 7719' AND CIRCULATE SAMPLES. PUMP PRESSURE WAS KEPT VERY LOW TO AVOID LOSING RETURNS.
THE 10' CIRCULATION SAMPLE WAS DESCRIBED FROM APPROXIMATELY 20
SAMPLES TAKEN CONTINUOUSLY BY CREWS. NEARLY 100% OF SAMPLE IS LCM WITH MICA, QUARTZ, GARNET, AND OTHER MINERALS. DARK SHALE IS PRESENT. DESCRIPTION IS BASED ON VERY FEW GRAINS OF SAND — VERY POOR SAMPLE QUALITY.

7709'-7719' SANDSTONE 80%: light gray, cream, very light brown, very fine to fine grained, soft to friable, moderately well sorted to clay plugged and poorly sorted, poormoderately well cemented, subangular-subround, non calcareous, quartzitic with rare accessory dark grains, poor to possible some fair intergranular porosity (6-10%), No visible fluorescence, stain, or cuts, tight interbedded with dark gray silty shale SHALE 20%: very light brown, cream, soft-firm, blocky, very calcareous, bentonitic

TRIP OUT FOR LOGS WITH TWO PIPE STRAPS INDICATING UPHOLE DEPTH CORRECTION TO 7687' FIRST LOGGING RUN HITS BRIDGE AT 7256' TRIP IN TO CONDITION HOLE AND DRILL THREE FEET TO VERIFY BIT ON BOTTOM

7687'-7690' Abundant mica and granitic LCM present

SHALE: 95% dark gray, dark gray-brown, firm, blocky-subfissile, slightly-moderately calcareous, very silty, micromicaceous, trace fossil shell fragments, trace pyrite aggregates

<u>LIMESTONE: 5%</u> tan, light brown, light gray, soft and marly to hard, sublithographic to microcrystalline, slightly-very argillaceous, dense, tight <u>SHALE: trace</u>, dark gray with imbedded well rounded medium-lower coarse grained quartz, glauconite, and pyrite, possible contact zone with Ferron <u>SILTSTONE: trace</u>, light brown, very soft, very poorly sorted, shaly, calcareous, micaceous

<u>SANDSTONE: trace</u>, light gray, very fine grained soft and friable, very poorly sorted, shaly, calcareous, poor porosity, **no shows** 

#### RUN LOGS AND SET 7" CASING TO 7689', DRILL OUT WITH 6.25" BIT

- 7690'-7702' SHALE: dark gray, firm, blocky-subfissile, very silty, slightly calcareous, micromicaceous, occasional pyrite inclusions, rare blocky gray-brown clayey shale, trace calcite fossil fragments
- 7702'-7713' SHALE: dark gray, firm, blocky-subfissile, very silty, slightly calcareous, micromicaceous, occasional pyrite inclusions, rare blocky gray-brown clayey shale, trace calcite fossil fragments

  SILTSTONE: trace, medium gray, firm to friable, very poorly sorted, shaly, calcareous

  LIMESTONE: trace, light brown, buff, possibly occurs as nodules, hard, clean
- 7713'-7725' SHALE: 100% dark gray, firm, blocky-subfissile, very silty, slightly calcareous, micromicaceous, scattered pyrite inclusions and aggregates, trace dark brown calcite fossil fragments

  BENTONITE: trace, white, cream, soft and mushy, blocky, non calcareous, occasional floating mica flakes, silty in part
- 7725'-7734' SHALE: 95% dark gray, firm, blocky-subfissile, very silty, slightly calcareous, micromicaceous, scattered pyrite aggregates and inclusions, trace dark brown calcite fossil fragments

**BENTONITE: 5%** white, cream, soft and mushy, blocky, non calcareous, numerous floating mica flakes

**COAL:** trace, black, hard, sub vitreous

**SANDSTONE: trace** loose subround quartz grains

### **LOG TOP FERRON - 7738' (+934')**

7734'-7745'
SANDSTONE: influx of light gray to light brown, very fine grained to fine grained, unconsolidated to hard and very well cemented, calcareous, scattered dark chert and mica inclusions, subround, moderately well sorted, very poor visible intergranular porosity in intact clusters, considerable black and dark brown bitumen or dead oil stain, no fluorescence, or cut from numerous clusters

SHALE: light brown, cream, soft-firm, blocky-subfissile, slightly silty, bentonitic in part, non calcareous, scattered floating mica, Abundant dark gray shale cavings

TRIP OUT, PICK UP CORE BARREL AT 7745', TRIP IN AND GET STUCK. MIX MUD, TRIP OUT CORE BARREL, CIRCULATE AND CONDITION HOLE. ABANDON CORING AND DRILL AHEAD WITH BIT. HOLE IS CAVING CONSIDERABLY.

7745'-7755' ABUNDANT SHALE CAVINGS 90%

SILTSTONE: light brown, tan, firm to hard and well cemented, siliceous to slightly calcareous, very poorly sorted, shaly, trace mica inclusions

SANDSTONE: trace, light brown very fine grained, friable, moderately well cemented, moderately well sorted, calcareous, occasional carbonaceous specks, poor intergranular porosity, no shows

7755'-7763' SANDSTONE: light gray, light brown, very fine to medium grained, friable to hard, mostly well cemented, slightly calcareous to siliceous, moderately well sorted with cream clay fill in pores, subangular-subround, quartzitic with accessory brown and light gray chert, poor intergranular porosity due to cement and clay, occasional black intergranular dead oil stain, even, dull to moderately bright yellow fluorescence yields faint, slow streaming cuts

CONNECTION AT 7763', WORK PIPE WITH HOLE CAVING FOR 6 HOURS

# 7763'-7770' **SHALE: CAVINGS 95%**

SANDSTONE: light gray, rare light brown, becoming very fine grained, rare fine grained, firm to friable, well cemented, poor-moderately well sorted with increasing cream clay fill in pores, slightly calcareous in part, quartzitic with accessory brown and gray chert, rare glauconite, poor intergranular porosity (4-6%), decreasing dead oil stain, very dull yellow fluorescence, no cuts

# 7770'-7778' SHALE: CAVINGS 90%

SANDSTONE: 90% light gray, light brown, rare medium brown, very fine to fine grained, friable to hard and well cemented, poor-moderately well sorted, becoming very shaly in part, subangular-subround, quartzitic with accessory dark chert, poor intergranular porosity, dull to rare moderately bright yellow fluorescence, no stain or cuts

SHALE: 10% light brown, soft, blocky-subfissile, non calcareous, smooth to slightly silty

#### WORK CAVINGS AND RAISE MUD WEIGHT TO 10.4

- 7778'-7785' SANDSTONE: light gray, very fine grained, rare fine grained, friable-firm, well cemented, very poorly sorted with cream clay fill in pores, slightly calcareous in part, subangular-subround, quartzitic with occasional dark gray and brown chert, rare glauconite, very poorly intergranular porosity, dull to moderately bright yellow fluorescence, no visible stain or cuts, occasional white arenaceous claystone partings and medium green silty claystone
- 7785'-7790' SANDSTONE: 60% light gray, very fine grained, rare fine grained, friable-firm, well cemented, very poorly sorted with cream clay fill in pores, slightly calcareous in part, subangular-subround, quartzitic with occasional dark gray and brown chert, rare glauconite, very poorly intergranular porosity, dull to moderately bright yellow fluorescence, no visible stain or cuts

  SILTSTONE: 30% very light brown to medium gray-brown, friable to firm, well cemented, very poorly sorted, shaly, calcareous in part, micropyritic, rare carbonaceous debris

  SHALE: 10% light gray, light brown, soft, blocky to fissile, silty to arenaceous,
- 7790'-7795' SHALE: 60% light brown, soft, blocky-subfissile, silty to very silty, calcareous, micropyritic

  SILTSTONE: 40% light brown, firm to hard and well cemented, very poorly sorted, shaly, quartzitic, very calcareous in part, micropyritic
- 7795'-7800' SILTSTONE: 60% light brown, honey, gray-brown, firm to friable, well cemented, very calcareous, moderately well sorted to shaly, micropyritic, grading to and interbedded with very fine grained sandstone

  SANDSTONE: 30% light brown, honey, very fine grained, friable-firm, moderately well to well sorted, well cemented, calcareous, subangular, very poor intergranular porosity, no shows, yellow mineral fluorescence from calcite cement

  SHALE: 10% light brown, soft, blocky-subfissile, silty to very silty, calcareous, micropyritic
- 7800'-7810' SILTSTONE: 60% light brown, honey, gray-brown, firm to friable, well cemented, very calcareous, moderately well sorted to shaly, micropyritic, grading to and interbedded with very fine grained sandstone

  SANDSTONE: 20% light brown, honey, very fine grained, friable-firm, moderately well to well sorted, well cemented, calcareous, subangular, very poor intergranular porosity, no shows, yellow mineral fluorescence from calcite cement

  COAL: 20% black, firm to hard, brittle dull to sub vitreous

LOSE CIRCULATION AT 7814' - 70 BARRELS

calcareous in part

7810-7825' ABUNDANT BICARB NODULES 90% IN NEXT SEVERAL SAMPLES

SANDSTONE: 100% light gray, light brown, very fine grained, friable to firm and well cemented, poor-moderately well sorted with considerable cream clay fill, quartzitic with scattered dark grains, calcareous, in part, very poor intergranular porosity, no fluorescence, stain, or cuts

- 7825'-7835'

  SANDSTONE: 50% light gray, light brown, very fine grained, friable to firm and becoming very well cemented with calcite, poorly sorted with considerable cream clay fill, quartzitic with scattered dark grains, calcareous, very poor intergranular porosity, no fluorescence, stain, or cuts, grading to 20% siltstone

  SHALE: 30% light gray-brown, soft-firm, blocky, arenaceous to silty with floating quartz grains, calcareous in part
- 7835'-7840' SANDSTONE: 70% light gray, light brown, very fine grained, trace fine grained well sorted, friable to firm and becoming very well cemented with calcite, poorly sorted with considerable cream clay fill, quartzitic with scattered dark grains, calcareous, very poor intergranular porosity, no fluorescence, stain, or cuts, SILTSTONE: 30% light brown, firm, well cemented, calcareous, shaly in part Considerable coal cavings

### LOG TOP MIDDLE FERRON 7836' (+836')

- 7840'-7845'
  SHALE: 70% light brown, light-medium gray-brown, soft, blocky-fissile, calcareous, silty in part, occasional carbonaceous inclusions
  SANDSTONE: 30% light gray, light brown, very fine to fine grained, firm, well cemented, moderately well sorted with some clay fill, quartzitic with brown chert, subangular, tight, no shows
- 7845'-7855'

  SANDSTONE: 70% light gray, light brown, very fine to fine grained, firm, well cemented, moderately well sorted with some clay fill, quartzitic with brown chert, subangular, occasional micropyritic, tight, no shows

  SILTSTONE: 30% light gray, light brown, firm, well cemented, very poorly sorted, clayey, calcareous, occasional carbonaceous matter
- 7855'-7860' SHALE: 70% dark gray, dark gray-brown, firm, blocky-fissile, splintery in part, non calcareous, silty, micromicaceous, very carbonaceous in part

  SILTSTONE: 30% light gray, light brown, firm, well cemented, very poorly sorted, clayey, calcareous, occasional carbonaceous matter
- 7860'-7865' CARBONACEOUS SHALE: very dark gray to black, firm to moderately hard, blocky, non calcareous, silty, abundant carbonaceous matter
- 7865'-7875'
  SILTSTONE: 60% light brown, light gray-brown, firm, very poorly sorted, shaly, calcareous, rare very carbonaceous
  SANDSTONE: 20% light gray to light brown, very fine grained, firm-hard, well cemented, moderately well to poorly sorted, shaly in part, calcareous, quartzitic with scattered carbonaceous inclusions, subangular, very poor porosity, (4-6%), no shows

SHALE: 20% light brown, gray, soft, subfissile-fissile, calcareous

SANDSTONE: 40% light gray, light brown, very fine grained to silty, firm-hard, well cemented, poor-moderately well sorted with cream clay fill, calcareous, subangular, quartzitic with scattered carbonaceous debris, grading to and interbedded with 40% siltstone as above, very poor porosity, (4-6%), no shows

SHALE: 20% light brown, rare gray, soft, subfissile-fissile, silty to arenaceous, calcareous, scattered carbonaceous specks

#### 7885'-7895' ABUNDANT LCM

SHALE: 50% light-medium gray, white, rare light gray-green, light brown, soft, blocky-fissile, slightly-very silty, calcareous in part, bentonitic when gray SILTSTONE: 40% light brown, light gray-brown, firm, very poorly sorted, shaly, calcareous, rare very carbonaceous SANDSTONE: 10% light gray, light brown, very fine to fine grained, firm-friable, moderately well sorted, well cemented, subangular, calcareous, very poor porosity (4-6%), no shows

- 7895'-7905'

  SHALE: 70% light-medium gray, white, rare light gray-green, light brown, soft, blocky-fissile, slightly-very silty, calcareous in part, bentonitic when gray

  SILTSTONE: 30% light brown, light gray-brown, firm, very poorly sorted, shaly, calcareous, rare very carbonaceous
- 7905'-7910' SANDSTONE: 30% light gray, very fine to fine grained, firm-friable, moderately well sorted, well cemented with calcite, subangular-subround, quartzitic with scattered gray and brown chert, rare red iron stain, poor intergranular porosity, (4-6%), no shows

  SILTSTONE: 50% light brown, soft-firm, very poorly sorted, shaly, calcareous in part, rare carbonaceous matter

SHALE: 20% light-medium gray, white, rare light gray-green, light brown, soft, blocky-fissile, slightly-very silty, calcareous in part, bentonitic when gray

7910'-7920' SANDSTONE: 70% light gray, very fine to fine grained, firm-friable, moderately well sorted, well cemented with calcite, subangular-subround, quartzitic with scattered gray and brown chert, rare red iron stain, poor intergranular porosity, (4-6%), no shows

<u>SHALE: 30%</u> medium brown, light brown, light gray, rare very dark brown, soft-firm, blocky-fissile, silty when brown, non calcareous, scattered carbonaceous specks, occasional very carbonaceous when dark brown, with pyrite

7920'-7925' SANDSTONE: 30% light gray, very fine to fine grained, firm-friable, moderately well sorted, well cemented with calcite, subangular-subround, quartzitic with scattered gray and brown chert, rare red iron stain, poor intergranular porosity, (4-6%), no shows

SHALE: 70% medium brown, light brown, light gray, decreasing brown to dark brown carbonaceous shale, soft-firm, blocky-fissile, silty when brown, non calcareous, scattered carbonaceous specks

- 7925'-7930' 99% BICARB IN SAMPLE

  SHALE: light gray, light brown, rare light gray-green, soft, fissile, non calcareous, micromicaceous, bentonitic
- 7930'-7935'

  SANDSTONE: 100% light brown, light gray, rare medium brown, very fine to fine grained, rare medium grained, firm, well cemented with calcite, poor-moderately well sorted with cream clay fill, subangular-subround, quartzitic with scattered brown and gray chert, poor intergranular porosity (4-8%), no stain, fluorescence, or cuts, occasional carbonaceous debris
- 7935'-7940' SANDSTONE: 60% light brown, light gray, rare medium brown, very fine to fine grained, rare medium grained, firm, well cemented with calcite, poor-moderately well sorted with cream clay fill, subangular-subround, quartzitic with scattered brown and gray chert, poor intergranular porosity (4-8%), no stain, fluorescence, or cuts, occasional carbonaceous debris

  SILTSTONE: 40% light-medium brown, honey, firm to very hard and well cemented, very calcareous in part, very poorly sorted, shaly, occasional carbonaceous inclusions and laminae with drusy pyrite
- 7940'-7945'

  SANDSTONE: 30% light brown, light gray, rare medium brown, very fine to fine grained, rare medium grained, firm, well cemented with calcite, poor-moderately well sorted with cream clay fill, subangular-subround, quartzitic with scattered brown and gray chert, poor intergranular porosity (4-8%), no stain, fluorescence, or cuts, occasional carbonaceous debris

  SILTSTONE: 70% light-medium brown, honey, firm to very hard and well cemented, very calcareous in part, very poorly sorted, shaly, occasional carbonaceous inclusions and laminae with drusy pyrite
- 7945'-7955'
  SANDSTONE: 60% light gray, light brown, very fine grained to silty, hard, well cemented, poor-moderately well sorted with some clay fill, subangular, becoming non calcareous to siliceous, quartzitic with rare dark grains, poor porosity, (3-4%), no shows

  SHALE: 40% light gray, medium brown, soft-firm, blocky to fissile, slightly silty, very carbonaceous and pyritic when brown, non calcareous
- 7955'-7965' SANDSTONE: 90%, light gray, light brown, very fine to fine grained, hard very well cemented with calcite, moderately well sorted, decreasing clay content, quartzitic with scattered carbonaceous debris, poor porosity, no shows

  SILTSTONE: 10% medium brown, hard, very well cemented, calcareous, micromicaceous, occasional carbonaceous specks
- 7965'-7970' SANDSTONE: 70% light gray, light brown, very fine to fine grained, hard very well cemented with calcite, moderately well sorted, becoming very poorly sorted with cream clay fill, quartzitic with scattered carbonaceous laminae and inclusions, poor porosity, no shows

- SHALE: 10% medium gray, dull gray-green, off white, medium brown, soft, subfissile-fissile, non calcareous to very calcareous when white, slightly silty, bentonitic when gray, occasional carbonaceous specks
- 7970'-7975' SHALE: gray-brown, light-medium brown, soft-firm, smooth to slightly silty, blocky-fissile, micromicaceous, occasional carbonaceous debris
- 7975'-7985' SHALE: dark gray, dark gray-brown, firm to hard, blocky-subfissile, moderately-very silty, non calcareous, scattered carbonaceous inclusions and laminae, rare pyrite aggregates, grades to hard shaly siltstone in part
- 7985'-7990' SHALE: dark gray, dark gray-brown, medium brown, firm to hard, very silty in part, non calcareous, blocky-subfissile, carbonaceous, with some drusy pyrite SHALE: trace, light gray-brown, fissile, soft, with well rounded brown pellets?, non calcareous, smooth
- 7990'-7995' SANDSTONE: 80% light gray to light brown, very fine to fine grained, firm to hard and well cemented, siliceous, moderately well to poorly sorted with some clay fill, quartzitic with rare brown chert, very poor porosity (3-4%), no shows

  SILTSTONE: 20% light gray, light gray-brown, hard, well cemented, siliceous, shaly

#### TRIP FOR BIT AT 7796' REAM TO BOTTOM FOR 18 HOURS

- 7995'-8010' SANDSTONE: 70% light gray, very fine to fine grained, firm to hard, well cemented, poor-moderately well sorted with cream clay fill, slightly calcareous, quartzitic with scattered brown and gray chert, rare red iron stain, subangular-subround, very poor intergranular porosity due to cement, no shows

  SHALE: 30% light gray, light gray-brown, soft, blocky, non calcareous, slightly-very silty
- 8010'-8015' SANDSTONE: 60% light gray, very fine to fine grained, firm to hard, well cemented, poor-moderately well sorted with cream clay fill, slightly calcareous, quartzitic with scattered brown and gray chert, rare red iron stain, subangular-subround, very poor intergranular porosity due to cement, no shows

  SHALE: 40% light gray, light gray-brown, soft, blocky, non calcareous, slightly-very silty, non calcareous
- 8015'-8020' SILTSTONE: 40% light brown, firm-hard, well cemented, very poorly sorted, shaly, calcareous in part, quartzitic

  SHALE: 30% light gray, very light brown, soft, blocky-subfissile, very silty in part, non calcareous, rare micropyritic, occasional brown carbonaceous remains, occasional imbedded quartz and chert grains

<u>SANDSTONE: 30%</u> light gray, very fine to fine grained, firm to hard, well cemented, poor-moderately well sorted with cream clay fill, slightly calcareous, quartzitic with scattered brown and gray chert, rare red iron stain, subangular-subround, very poor intergranular porosity due to cement, **no shows** 

- 8020'-8025' SILTSTONE: 70% light brown, light gray, cream, firm-hard, very poorly sorted, very shaly, mostly non calcareous, quartzitic

  SHALE: 30% light gray, light brown, soft, blocky, micropyritic, non calcareous, slightly-very silty, occasional imbedded quartz
- 8025'-8030' SANDSTONE: light brown, very fine grained, firm-hard, well cemented with calcite, poor-moderately well sorted with clay fill, subangular-subround, quartzitic with rare dark grains and pyrite inclusions, trace carbonaceous debris, very poor intgrran porosity (3-5%), no shows
- 8030'-8035'
  SHALE: 80% light gray, light gray-brown, medium brown, soft, blocky-subfissile, non calcareous, scattered carbonaceous specks, bentonitic in part, micropyritic SANDSTONE: 20% light brown, very fine grained, firm-hard, well cemented with calcite, poor-moderately well sorted with clay fill, subangular-subround, quartzitic with rare dark grains and pyrite inclusions, trace carbonaceous debris, very poor intergranular porosity (3-5%), no shows
- 8035'-8050' SHALE: 70% light gray, light gray-brown, soft-firm, blocky-sub blocky, slightly-very silty, non calcareous, occasional carbonaceous specks, micropyritic SILTSTONE: 30% light gray, light brown, firm to hard, well cemented, non calcareous, very shaly grading to shale
- 8050'-8060' SANDSTONE: light gray, light brown, very fine to fine grained, friable to hard, moderately well to poorly sorted with clay, well cemented, mostly non calcareous, siliceous, subangular-subround, with some brown chert, abundant black bitumen, mostly on planar surfaces, rare intergranular bitumen, poor porosity (4-6%), no fluorescence, weak residual cuts, trace pyrite, occasional carbonaceous remains
- 8060'-8065' SHALE: 60% light gray, light brown, cream, soft-firm, blocky-sub blocky, non calcareous, slightly-very silty
  SANDSTONE: 40% as above with decreasing bitumen, occasional fine to medium grained and calcareous, poor porosity due to cement, no shows
- 8065'-8070' SILTSTONE: 50% light gray, firm-hard, well cemented, siliceous, slightly calcareous in part, moderately well sorted to shaly, grading to 10% silty shale SANDSTONE: 40% light brown, light gray, very fine grained, firm-hard, well cemented, moderately well sorted, slightly calcareous to siliceous, quartzitic, very poor porosity (3-4%), no shows

- 8070'-8075' SHALE: 80% very light gray, light gray-brown, light brown, soft, blocky, slightly-very silty, non calcareous, rare carbonaceous inclusions

  SILTSTONE: 20% light gray, firm-hard, well cemented, moderately well sorted to shaly, calcareous in part, to siliceous
- 8075'-8080' <u>SILTSTONE</u>: light brown, gray-brown, light gray, firm-hard, well cemented, moderately well sorted to shaly, mostly calcareous, scattered carbonaceous specks
- 8080'-8085' SILTSTONE: 50% light brown, gray-brown, light gray, firm-hard, well cemented, moderately well sorted to shaly, mostly calcareous, scattered carbonaceous specks

  SHALE: 50% very light gray, light gray-brown, light brown, soft, blocky, slightly-very silty, non calcareous, rare carbonaceous inclusions
- 8085'-8090' SHALE: light gray-brown, very light gray, rare light gray-green, and medium brown, soft, blocky-subfissile, non calcareous, slightly-very silty, bentonitic in part, rare medium brown silty shale with well rounded fine grained quartz inclusions
- 8090'-8100'

  SHALE: light gray-brown, very light gray, medium brown, soft, blocky-subfissile, non calcareous, slightly-very silty, bentonitic in part

  CARBONACEOUS SHALE: dark to very dark brown, black, firm to hard, brittle, blocky to fissile, splintery in part, pyritic, non calcareous, coaly in part
- 8100'-8105' CARBONACEOUS SHALE: 80% dark to very dark brown, blocky, soft to firm and crumbly, blocky, non calcareous, some pyrite aggregates

  COAL: 20% dull black, firm, brittle

#### LOG TOP LOWER FERRON SAND 8112' (+560')

- 8105'-8110' SANDSTONE: 100% light-medium dirty brown, very fine to fine grained, rare medium grained, firm-friable, moderately well to well sorted, moderately well cemented, non calcareous, subangular-subround, quartzitic with rare glauconite, poorfair intergranular porosity (6-12%), abundant black intergranular dead oil stain, no fluorescence, many weak streaming cuts
- 8110'-8120' SANDSTONE:100% light brown, light gray, very fine to fine grained, firm-hard, well cemented, well sorted to poorly sorted in part with increasing cream clay fill, becoming very calcareous, quartzitic with rare dark chert, mostly poor to rare fair intergranular porosity (5-10%), decreasing to a trace of dead oil stain, no fluorescence, trace very weak residual cuts

LOSS CIRCULATION AT 8120'; TOTAL LOSS WAS 300 BBLS OVER 20 HOURS.

99% BICARB IN SAMPLE FOR LOST CIRCULATION (AS WHITE ROUNDED PELLETS) VERY POOR SAMPLE QUALITY FOR REMAINDER OF THE HOLE.

- 8120'-8125'

  SANDSTONE: 90% light gray, light gray-brown, very fine to fine grained, firm, well cemented with calcite, poorly sorted with cream clay fill, quartzitic with scattered gray chert and carbonaceous debris, subangular, very poor intergranular porosity, (4-6%), no fluorescence, very weak residual cuts

  SHALE: 10% white to very light gray, soft, blocky-fissile, very calcareous, silty, occasional carbonaceous specks
- 8125'-8135' SANDSTONE: 100% becoming light-medium gray-brown, very fine grained, hard, well cemented, poor to very poorly sorted with clay, very calcareous, subangular, quartzitic with occasional dark chert and carbonaceous matter, very poor porosity (3-5%), no shows
- 8135'-8140' SANDSTONE:100% light-medium brown, very fine grained to silty, very hard and well cemented to soft and shaly, calcareous, marly when soft, very poorly sorted with clay, subangular, occasional carbonaceous debris, very poor porosity, no shows
- 8140'-8145' SILTSTONE: medium-dark gray-brown, hard, very well cemented, very calcareous, poor-moderately well sorted with clay, micromicaceous, interbedded and grading to very fine grained tight, dense sandstone
- 8145'-8150' SILTSTONE: 60% medium gray-brown, soft and shaly to firm and well cemented, very poorly sorted with clay, shaly, very calcareous, scattered carbonaceous inclusions, micromicaceous

  SANDSTONE: 40% light-medium brown, light gray-brown, very fine grained, hard, well cemented with calcite, poorly sorted, shaly, quartzitic with occasional dark chert and carbonaceous debris, very poor porosity (3-4%), no shows
- 8150'-8155' SILTSTONE: 100% medium-dark gray-brown, medium brown, hard, very well cemented, very calcareous, moderately well to very poorly sorted with clay, micromicaceous, scattered carbonaceous inclusions
- 8155'-8160' SHALE: 50% light gray-brown, soft, blocky, silty, non calcareous, occasional carbonaceous streaks and specks

  SANDSTONE: 50% light gray, very fine grained, hard, very well cemented with calcite, well sorted, quartzitic with accessory gray and brown chert, rare glauconite, subangular, very poor porosity due to cement, bright yellow mineral fluorescence, no stain, weak residual cuts after solvent dries

LOSE CIRCULATION AT 8162' - 150 BARRELS

8160'-8165' NO RETURNS

- 8165'-8170' SANDSTONE: 60% light gray, very fine grained, hard, very well cemented with calcite, becoming poorly sorted in part with white clay fill in pores, quartzitic with accessory gray and brown chert, rare glauconite, subangular, very poor porosity due to cement, bright yellow mineral fluorescence, no stain, weak residual cuts after solvent dries (ring cuts)
  - <u>SILTSTONE: 40%</u> light-medium gray-brown, hard, well cemented, dense, poorly sorted, shaly, calcareous, micromicaceous, some carbonaceous specks
- 8170'-8180' SILTSTONE: 80% medium-dark gray-brown, firm-hard, well cemented, calcareous in part, very shaly, occasional pyritic

  SHALE: 20% medium gray, soft, blocky-subfissile, non calcareous, slightly silty
- 8180'-8185' SILTSTONE: 100% dark gray, hard, well cemented, very poorly sorted, shaly, non calcareous, micromicaceous, some pyritic
- 8185'-8190' SILTSTONE: 50% dark gray, hard, well cemented, very poorly sorted, shaly, non calcareous, micromicaceous

  SHALE: 50% very dark gray, firm, brittle, silty, non calcareous, micromicaceous, some carbonaceous matter, occasional crystalline pyrite aggregates
- 8190'-8195' SILTSTONE: 100% light gray, dark gray, hard, well cemented, calcareous and moderately well sorted when light gray, to shaly when dark, quartzitic with scattered dark grains when light gray
- 8195'-8200' SILTSTONE: 60% medium gray, medium-dark gray-brown, hard, well cemented, non calcareous, poorly sorted, shaly

  SHALE: 40% very dark gray, firm, fissile-subfissile, non calcareous, slightly-very silty
- 8200'-8205' SILTSTONE: 60% medium-dark gray, firm to hard, very well cemented, very poorly sorted, shaly, slightly calcareous in part, dirty

  SHALE: 40% medium-dark gray, firm, blocky-subfissile, non calcareous, silty to very silty, occasional carbonaceous inclusions and pyrite

#### **LOG TOP TUNUNK 8204' (+468')**

- 8205'-8210' SILTSTONE: 50% medium-dark gray, firm to hard, very well cemented, very poorly sorted, shaly, slightly calcareous in part, dirty

  SHALE: 50% medium-dark gray, firm, blocky-subfissile, non calcareous, silty to very silty, occasional carbonaceous inclusions and pyrite
- 8210'-8215' SHALE: 80% very dark gray, firm-moderately hard, brittle, non calcareous, silty, micromicaceous, blocky
  SILTSTONE: 20% dark gray, hard, very well cemented, slightly calcareous, very shaly

- 8215'-8220' SHALE: 80% dark gray, dark gray-brown, firm to moderately hard, non calcareous, moderately-very silty, micromicaceous, scattered carbonaceous debris SILTSTONE: 20% dark gray, hard well cemented, very shaly, slightly calcareous in part
- 8220'-8225' SHALE: 80% medium-dark gray, firm to hard, siliceous in part, non calcareous, moderately to very silty, micromicaceous, occasional carbonaceous inclusions grading to and interbedded with 20% well cemented shaly siltstone
- 8225'-8230' SHALE: 90% medium-dark gray, soft to moderately hard, blocky-sub blocky, non calcareous, very silty, micromicaceous, scattered carbonaceous streaks and specks, grading to 10% shaly siltstone
- 8230'-8240' SHALE: 90% medium-dark gray, soft to moderately hard, blocky-sub blocky, non calcareous, very silty, micromicaceous, scattered carbonaceous streaks and specks, occasional pyritic, grading to 10% hard shaly siltstone

TOTAL DEPTH - DRILLER 8240' AT 14:25, DEC. 27, 2002

STATE OF UTAH FORM 8 AMENDED REPORT DEPARTMENT OF NATURAL RESOURCES (highlight changes) DIVISION OF OIL, GAS AND MINING 5. I FASE DESIGNATION AND SERIAL NUMBER: 037 UTU-77263 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG N/A UNIT or CA AGREEMENT NAME 1a TYPE OF WELL: GAS WELL OTHER N/A WELL NAME and NUMBER: b. TYPE OF WORK: HORIZ. WELL 🗹 RE-ENTRY DIFF. RESVR. Middle Mountain #21-16 OTHER API NUMBER: 2. NAME OF OPERATOR Fortuna (US), Inc. 4301530426 3. ADDRESS OF OPERATOR PHONE NUMBER 10 FIELD AND POOL, OR WILDCAT STATE AB ZIP T2P 5C5 3400, 888 - 3 St. S.W. (403) 237-1234 Wildcat CITY Calgary 4. LOCATION OF WELL (FOOTAGES) 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: AT SURFACE: 1309' FSL and 834' FEL SESE 21 16S 6E AT TOP PRODUCING INTERVAL REPORTED BELOW: SE/4 SE/4, Sec. 21, T16S, R6E, SLB & M 12. COUNTY 13. STATE AT TOTAL DEPTH: UTAH Emery 14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: 17. ELEVATIONS (DF, RKB, RT, GL): ABANDONED | READY TO PRODUCE 10/28/2002 12/27/2002 8627.0 (GL) 2/4/2003 18. TOTAL DEPTH: MD 19. PLUG BACK T.D.: MD 8,178 21. DEPTH BRIDGE MD 0 8.240 20. IF MULTIPLE COMPLETIONS, HOW MANY? PLUG SET: N/A TVD 8,235 TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) WAS WELL CORED? NO 🔽 YES (Submit analysis) Full Wave Sonic, CBL, GR, CCL, see attached (open-hole logs) WAS DST RUN? NO 🔽 YES (Submit report) DIRECTIONAL SURVEY? YES 🔽 ио Г (Submit copy) 24, CASING AND LINER RECORD (Report all strings set in well) CEMENT TYPE & NO. OF SACKS STAGE CEMENTER SLURRY SIZE/GRADE WEIGHT (#/ft.) TOP (MD) BOTTOM (MD) CEMENT TOP \*\* AMOUNT PULLED HOLE SIZE VOLUME (BBL) DEPTH 17.50 H-40 1.080 'G' 393 0 (CAL) 13.4 48.00 0 1.080 1,810 36.00 0 0 (CAL) 12.25 9.6 J-55 4.413 4.417 'G' 1,975 1.036 8.75 7.0 J-55 26.00 0 7.690 7.690 'G' 304 444 3913 (CAL) 6.125 4.5 2-110 13.50 0 8,240 8.240 'G' 211 102 3428 (CAL) 25. TUBING RECORD SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 2.375 8.119 0 26. PRODUCING INTERVALS 27. PERFORATION RECORD NO. HOLES PERFORATION STATUS FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) INTERVAL (Top/Bot - MD) SIZE 3.38 (A) Ferron 7,734 8,205 8,122 8,137 6 Open Squeezed Open Squeezed (B) (C) Open Squeezed Open Squeezed (D) 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. PUENTIAL DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL PERICD Frac - 412.0 bbl Gelled Salt Water + CO2 + 50,000 lbs of 20/40 Sand 8122.0 - 8137.5 29. ENCLOSED ATTACHMENTS: 30. WELL STATUS:

(CONTINUED ON BACK)

GEOLOGIC REPORT

CORE ANALYSIS

DST REPORT

OTHER:

APR 1 8 2003

Suspended

DIRECTIONAL SURVEY

ELECTRICAL/MECHANICAL LOGS

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION



31. INITIAL PRO	DUCTION				INII	EKANT W (WR BUOA	wn in item #20)				
DATE FIRST PR	ODUCED:	TEST DA	ATE:		HOURS TESTED	<b>)</b> :	TEST PRODUCTION RATES:	OIL - BBL:	GAS – MCF:	WATER BBL	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS	CSG. PF	RESS. AP	I GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: []	OIL - BBL:	GAS - MCF:	WATER - BBL	: INTERVAL STATUS:
					INT	ERVAL B (As show	wn in item #26)				
DATE FIRST PR	ODUCED:	TEST DA	ATE:		HOURS TESTED	):	TEST PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL	: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS	S. CSG. PF	RESS. AP	PI GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: []	OIL – BBL:	GAS - MCF:	WATER - BBL	: INTERVAL STATUS:
			-		INT	ERVAL C (As shor	wn in item #26)				
DATE FIRST PR	RODUCED:	TEST D	ATE:		HOURS TESTED	):	TEST PRODUCTION RATES:	OIL – BBL:	GAS - MCF:	WATER - BBL	: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS	S. CSG. PF	RESS. AP	PI GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	OIL BBL:	GAS – MCF:	WATER - BBL	: INTERVAL STATUS:
******	<del></del> -				INT	ERVAL D (As sho	wn in item #26)				
DATE FIRST PR	RODUCED:	TEST D	ATE:		HOURS TESTED	D:	TEST PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL	: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS	S. CSG. PI	RESS. AF	PI GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: []	OIL - BBL:	GAS - MCF:	WATER - BBL	: INTERVAL STATUS:
32. DISPOSITIO	ON OF GAS (S	old, Used for	Fuel, Vented	d, Etc.)	<u> </u>	<u>.,</u>			1. ·		
33. SUMMARY	OF POROUS	ZONES (Inclu	de Aquifers)	):			[3	4. FORMATION	(Log) MARKERS:		
	ant zones of po	rosity and con	tents thereof	: Cored interva	als and all drill-sten recoveries.	n tests, including de	epth interval				
Formati	ion	Top (MD)	Bottom (MD)		Descrip	otions, Contents, et	c.		Name		Top (Measured Depth)
35. ADDITIONA	AL REMARKS	(include plug	ging proced	lure)							
36. I hereby ce	ertify that the i	oregoing and	l attached in	formation is o	complete and con	rect as determined	d from all available rec	cords.			
NAME (PLEA	SE PRINT)	anet Kul	ly				TITLE Drill	ing/Compl	etions Admir	nistrator	
SIGNATURE	<u>Jan</u>	ret	Kull	<u> </u>			DATE 3/4/	2003			
<ul><li>drilli</li><li>reco</li></ul>	pleting or p ng horizont mpleting to	lugging a r al laterals f a different	new well from an ex producin	xisting well g formation	bore •	significantly drilling hydro	previously plugge deepening an exist ocarbon explorato from two or more	sting well bor ry holes, suc	re below the pre	∍vious bottom oles and stratiç	-hole depth graphic tests
									, cement bond le	og (CBL), temr	perature survey (TS)
***   1 EM 24: (	⊃ement i o¢	- Stiow no	w reborce	iu top(s) of c	Pettierir Maig (	erenninga (chi	Juliated (Oliv), calc	alaton (OML)	,	- 5 ( /)//-	

Phone: 801-538-5340

Fax: 801-359-3940

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Salt Lake City, Utah 84114-5801

Box 145801



TALISMAN ENERGY INC. SUITE 2400, 855 2ND STREET S.W. CALGARY, ALBERTA FAX (403) 237-1078 TEL (403) 237-1234

TO: UTAH DIVISION OF OIL, GAS AND MINING

**ATTENTION:** 

DATE: 4/16/2003

TRANSMITTED BY: Mike Schmidt

WELL NAME: FORTUNA MIDDLE MOUNTAIN

**UWI: 21-16** 

PLAY GEOLOGIST: MIKE MORRISON

#### **MATERIAL AS FOLLOWS:**

OTY		TYPE : 1	RUN	COMPANY
1 v	,	PE COMP NEUT TRIPLE DETECTOR DENS	1	SCHLUMBERGER
1 ,	7	PE ARRAY INDUCTION W/LINEAR CORRELATION	1	66
1 4	. /	PE MICROLOG	1	66
1 3/	/	PE BOREHOLE COMP SONIC	1	66
1 ~	/	PE ARRAY INDUCTION	2	"
1 .		BOREHOLE COMP SONIC	2	"
1 4		PE COMPOSITE PRINT	2	66
1 :	7	PE MICROLOG	2	66
1 ~	$\overline{A}$	PE TRIPLE LITHO DENS COMP NEUT	2	66
1 ~	7	ARRAY INDUCTION W/LINEAR CORRELATION GR	3	66
1 0	7	COMP NEUT TRIPLE LITHO DENS GR	3	66
1 1	7	BOREHOLE COMP SONIC GR	3	66
1 .		CEMENT VOLUME LOG GR	3	66
1	7	PE COMPOSITE PRINT	3	66
1 4		COMP NEUT TRIPLE LITHO DENS GR	4	66
1 %	/	COMP NEUT TRIPLE LITHO DENS/GR HIGH RES	4	66
1 v	$\overline{}$	CEMENT VOLUME CALIPER LOG GR	4	66
1 /	7	PE/BHC COMPOSITE PRINT	4	66
1 .		ARRAY INDUCTION HIGH RESOLUTION	4	66
1 /		BOREHOLE COMP SONIC GR	4	66
1 /	7	ARRAY INDUCTION W/LINEAR CORRELATION GR	4	66
1 ·/	/	FINAL GEOLOGICAL REPORT		ECL CONSULTANTS
1 V	$\mathbb{Z}$	WELL COMPLETION/RECOMPLETION REPORT		

A copy of the above transmittal win be retained in our files.

\*\* Please sign, date and fax a copy, attention to Mike Schmidt (403) 237-4694

x Carol H. Daniels - 4-17-03

TALISMAN ENERGY CANADA Suite 3400, 888 - 3<sup>et</sup> Street SW Ceigary, AB T2P 5C5 FAX: 237-1620

### TALIS MAN

# **Fax**

DATE:	26. SEPT. 2003	Number of Pagesi	:	,
TO:	GAS AND MINING	FROM:	A. HASSEM	e16k
COMPANY:	ATTN: DUSTIN DOUCET	E-MAIL:		
PHONE:		PHONE:	1-403-23	7-1258.
FAX:	1-801-359-3940	FAX:	1-403 - 237	- 1086

REMAR	KS:		•.		
□ Urgent	g For	Your Review	□ Reply ASAP	E P	lease Comment
Su	way No	TITE TO	puis ano	ASANDON	· /
·	FORTUNA	WIDDLE.	MOUNTAIN	# 21-16	• ;
• 				,	
			-BLM -1		
C.	. Don	Homiten	- 1-435-	- 687 - 531	
				•	

SEP 2 6 2003

DIV. OF OIL, GAS & IMINITED

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

FORM 9

38	DIVISION OF OIL, GAS AND MI	NING	5. LEASE DESIGNATION AND SE UTY - 7	4
	Y NOTICES AND REPORTS	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRI	IE NAMÉ:
SUNDI	() NOTICES AND REPORT	ON MEPEO	7. UNIT OF CALAGREEMENT NAM	È
Do not use this form for proposals to di	in new wells, algorificantly deepen existing wells below our a laterate. Use APPLICATION FOR PERMIT TO DRILL!	rent bottom-hole depth, reenter plugged wells, of to	NIA	_
			8. WELL NAME and NUMBER:	- H H-
1. TYPE OF WELL OIL WEL	GAS WELL & OTHER		P. API NUMBER:	, yu 721-16
2. NAME OF OPERATOR:	NA (US) NC.	COMMENTAL	43-015-30	426
	A TAR SHARET CIR	PHONE NUMBER:	10. FIELD AND POOL OR WILDS	AT:
5417E 3400	CITY CALGARY STATE AS ZIP	721605 423-227-1163	WILDCAT	
A LOCATION OF WELL			COUNTY: EMER	4 Create
FOOTAGES AY SURFACE:	309' FSL, 834' FAL	Service Services (Services Services)	Court is a company of the	J. , Landy
OTRIOTR SECTION TOWNSHIP.	LANGE MERIDIAN: SE/A \$21 TIES	ece Sca em	STATE: UTAH	
I I	16 / Li			
11. CHECK AP	PROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPO	ORT, OR OTHER DATA	<u> </u>
TYPE OF SUBMISSION		TYPE OF ACTION		
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRE	
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR	
Approximate data work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDO	IN
	CHANGE TO PREMOUS PLANS	OPERATOR CHANGE	TURING REPAIR	
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE	
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL	
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF	
Date of work completions	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE		
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION		
12. DESCRIBE PROPOSED OF	COMPLETED OPERATIONS. Clearly show all	pentinent details including dates, depths, volun	nes, etc.	
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DIV. OF OIL, GAS & MINING

#### **FORTUNA MIDDLE MTN #21-16** ABANDONMENT PROGRAM (Utah)



The Talisman representative on the location shall ensure that appropriate State requirements and Talisman safety guidelines are met at all times. All personnel on site should read and sign the Talisman booklet "Safety Guidelines for Contractors". Conduct daily safety meetings with the crews and service personnel. Precede all operations with a procedure and safety meeting to cover the scope of the operation. Record any personnel injuries, material losses, equipment damage and lost time on the Wellview Incident Report. Take all other necessary safety precautions to protect human health, safety and welfare.

- 1. Where applicable, notify the relevant Government offices, and/or Forestry, etc. as well as the Talisman office in Calgary prior to commencing operations. BLM contact is Don Stevens, Forestry contact is Tom Lloyd. Maintain regular contact throughout the operations as directed.
- 2. Talisman Energy Inc. Safety Guidelines are given in the "Employee Safety Handbook" and These guidelines will be followed during the "Safety Instruction for Contractors". abandonment along with conducting a daily safety and procedures meeting.
- 3. Prior to abandonment operation, establish and record the SCVF flow rate and pressure build up. Test to confirm lack of surface casing vent flow. Provided there is no flow, proceed with the program; otherwise consult with Calgary office to determine remedial program necessary.
- 4. Install and pull test service rig anchors.
- 5. Move on a service rig complete with a pump and tank. Rig up ensuring that the equipment spacing conforms to all regulatory body regulations (including but not limited to the local state, PSAC, OH&S, WCB) and Talisman standards and that the crew has the necessary certifications. Precede all operations with a procedure and safety meeting to obver the scope of the operation.
- 6. Vent any gas off the tubing and fill the tubing with fresh water to kill the well. Pemove the wellhead, install and function test a Class II BOP.
- 7. The cement top on the 4-1/2" 15.5 lb/ft production casing was logged at 7,742 ft KB, which is 52 ft below the intermediate casing shoe at 7,690ft KB. The reason for the lbw cement top is due to lost circulation during the cementing operations. An attempt should be made to repement this interval since it is the only portion of the annulus not cemented.
- 8. Wellbore currently consists of 2-3/8" tubing set at 8,119 ft KB. RIH with tubing to PBTD approx. 8193 ft. KB. Circulate well over to mud weighted with a density of 9.0 ppg. POOH with tubing.
- 9. RIH with permanent bridge plug on wireline, set BP approx 8,110 ft. KB, pressure test BP to 1,000 psi, dump bail 35 ft of cement on top of BP.
- 10. RIH with perforating gun, perforate 3 ft interval at approx 7700 ft depth, POOH with guns. Attempt to establish circulation to surface. If circulation is not established, but the interval

takes mud, RIH with tubing to 7750 ft KB, mix and pump 2 bbls of thixotropic dement (100 ft in length). PU to 7600 ft, circulate tubing clean.

- 11. If circulation was established to surface, RIH with cement retainer, set retainer above perforations, test retainer to 1000 psi. Sting into retainer, mix and pump sufficient cement until returns are indicated at surface. Pull out of retainer, dump excess cement on top of retainer. Cement on top of retainer to be minimum of 50 ft. in length, or 35 ft. if using a baller.
- 12. Top up the casing to surface with mud.
- 13. Regulations require a 10 sxs cement plug at surface, as well as 10 sxs cement inside each additional casing string.
- 14. Cut off casing strings a minimum of 3ft below the final restored ground level. Cap the casings by welding a steel plate on each. Plate to be at least 1/2" in thickness.
- 15. A permanent monument showing the well number, location and name of the lease shall be erected. The monument shall consist of pipe not less than 4" in diameter and not less than 10ft in length, of which 4 ft shall be above the ground level and the remainder shall be embedded in cement. The top of the pipe must be permanently sealed.
- 16. Contact Don Hamilton regarding site restoration. Restore location.

Notes:	AFE # AF	912	0,300		i
The sealth of	bowl	recovered casing	and other	associated	equipmen

The wellhead, casing bowl, recovered casings and other associated equipment may be returned to Talisman's warehouse or other designated location.

**6400 000** 

September 26, 2003 Alfred Habermeyer phone (403) 237-1258 fax (403) 237-1086

#### Habermeyer, Alfred

From:

Stairs, Mike

Sent:

September 26, 2003 8:43 AM

To:

McConkey, Stuart; Habermeyer, Alfred Kostandi, Ramsey

Çc: Subject:

FW: Middle Mountain Well



Middle Mountain Letter.doc

plc02976.glf

fyi,

----Original Message----

From: Jackie Contreras [mailto:jcontreras@fs.fed.us]

Sent: Friday, September 26, 2003 7:49 AM

To: matairs@talisman-energy.com

Cc: Thomas W Lloyd

(435) 384-2505

Subject: Middle Mountain Well

Please find attached the letter regarding Middle Mountain Well. A hard copy will be mailed to you office in Canada today. If you have any questions, please let us know. Thank you.

(See attached file: Middle Mountain Letter.doc)

(Embedded image moved to file: pic02976.gif) Jackie Contreras U.S. Forest Service Manti-La Sal National Forest Email - jcontrerasefs.fed.us



United States
Department of
Agriculture

Forest Service Manti-La Sal National Forest Ferron/Prica Ranger District Ferron Work Center 115 West Canyon Road P.O. Box 310 Ferron, UT 84523 Phone # (435) 384-2372 Fax # (435) 384-3296

File Code: 2820-2

Date: September 26, 2003

Mike Stairs
Project Manager
Fortuna US-Talisman Energy
888 3rd Street SW, Suite 3400
Calgary, Alberta, Canda, UT 84523T2P5C5

#### Dear Mr. Stairs:

Thank you for your call on September 17, 2003, stating that Fortuna-USA has made a decision to reclaim the Federal #21-16, UTU-77263 (Middle Mountain well) drilled during late Fall 2002. It is understood you will proceed with a sundry notice to the BLM for hole plugging and site reclamation. It is also understood you would like to proceed with this plan starting October 6, 2003.

During the summer the Forest Service conducted site inspections and found several items needing attention prior to winter closure per the Surface Plan of Operations. 1.) All topsoil piles need to be seeded, 2.) Silt fence along east side of the pad needs repaired, 3.) There is a sinkhole starting on the east side of the pad and a tension crack needing repair, and 4.) Some slash is smashing the silt fence on the southeast corner of the pad. If you are successful in completing site reclamation this fall these concerns are mute, however if reclamation is not complete, work must be done this fall prior to the onset of winter conditions.

Inspections were also conducted on the Cottonwood Canyon Road. Clean up operations associated with the road improvements made to NFSR 50040 were not completed last year due to the onset of inclement weather. In addition, snow removal operations that were necessary to maintain access to the well site resulted in displacement of aggregate surfacing from the roadway. A road log has been generated with work items that will need to be completed prior to this winter. Items include pulling aggregate from the roadsides back in to the travel way or replacement of such displaced aggregate on the Cottonwood Canyon road from the end of the pavement to the Millers Flat Road. Items of work that need to be completed within the limits of the reconstruction include: removal of aggregate from the cut and fill slopes, removal of the large rocks and roadside debris located between the roadway and the adjacent stream channel, reestablishment and installation of silt fence along the embankments adjacent to the stream channel, installation of silt fence at drain dip outlets and leadout ditches, restoration of the stream channel, including removal of aggregate and dressing up and seeding of all disturbed areas.

Please contact Tom Lloyd, District Geologist at 435-636-3596 with a proposed work schedule. A pre-work meeting is also necessary to further define the scope of work needing to be done prior to startup and to review the road log so that all work can be satisfactorily completed.

Sincerely,

/s/ Mesia Nyman MESIA NYMAN District Ranger **API Well No:** 43-015-30426-00-00

Permit No:

Company Name: FORTUNA (U. S.) INC Location: Sec: 21 T: 16S R: 6E Spot: SESE

Coordinates: X: 478564 Y: 4362337

Field Name: WILDCAT County Name: EMERY

Cement from 1080 ft. to surface

Surface: 13.375 in. @ 1080 ft. Hole: 17.5 in. @ 1080 ft.

**String Information** 

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	1080	17.5		
SURF	1080	13.375	48	1080
HOL2	4417	12.25		
11	4417	9.625	36	4417
HOL3	7690	8.75		
12	7690	7	26	7690
HOL4	8240	6.125		
PROD	8240	4.5	13.5	8240

Well Name/No: MIDDLE MOUNTAIN 21-16

#### **Cement Information**

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
11	4417	0	G	1975
12	7690	3913	G	304
PROD	8240	<del>3428-</del> 77	42G	211
SURF	1080	0	G	1810

Cement from 4417 ft. to surface Intermediate: 9.625 in. @ 4417 ft.

Hole: 12.25 in. @ 4417 ft.

**Perforation Information** 

Top **Bottom** (ft sub) (ft sub) 8122 8137

Shts/Ft No Shts Dt Squeeze

Cement from 7690 ft. to 3913 ft. Intermediate: 7 in. @ 7690 ft. Hole: 8.75 in. @ 7690 ft. Cement from 8240 ft. to 3428 ft. roduction: 4.5 in. @ 8240 ft.

Hole: 6.125 in. @ 8240 ft.

TVD:

PBTD:

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ormation	Depth	Formation	Depth
PRRV	831		
CSLGT	1467		
BLKHK	1700		
STRPT	2712		
BLUGT	2983		
EMEY	4279		
FRSD	7734		
TNUNK	8204		

<sup>™</sup>NO. 5116<sup>——</sup>P. 1

TALISMAN ENERGY CANADA Sulle 3400, 585 - 3" Street SW Calgary, AB 72P 5C5 FAX: 237-1620

FORTUNA (US) INC.



DATE 31 OCT S	Number of Pages	M &	7
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COMPANY: BLM	E-MAIL		
PHONE: 1,11	PHONE:	1-403-237	-1258
FAX: 435-259 -	2106 FAX:	1-403-237	······································

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CALL WEATHERFORD AND ORDER BOPE SYSTEM.

Report Printed: 2003-10-31

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Date Code Activity  Cut and Cap Casing CONSTRUCTION CUT AND CAPPED WELL. WELLHEAD WAS SENT TO AZTEC YARD, VER UTAH, LISTED ON MT 35998 (TALISMAN MT SCRATCHED OUT W/ FORTUNA US HAND WRITTEN  10	Cut and Cap Casing  Cut and Cap Casing  CONSTRUCTION CUT AND CAPPED WELL WELHEAD WAS SENT TO AZTEC YARD, VERNAL LISTED ON MT 35998 (TALISMAN MT SCRATCHED OUT W. FORTUNA US HAND WRITTEN ON 1 255 JTS domin EUE TUBING - 1 WELLHEAD 36MPA; BONNET-FLOW TEE+ GATE VALVE A GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL CW SURFACE VENT.				SOFT SPOTS/	) tabing in	<b>телине</b> (НРв)	Cooling Pressure	(Ma) 24 His:	SIECVIF (KPa)		EC ()	H28 < 1% (ppm)	H25 > 1% (%)
Dele Code:  CUTC Cut and Cap Casing CONSTRUCTION CUT AND CAPPED WELL WELLHEAD WAS SENT TO AZTEC YARD, VER LISTED ON MT 35998 (TALISMAN MT SCRATCHED OUT W/ FORTUNA US HAND WRITTEN - 259 JTS 60mm EUE TUBING - 1 WELLHEAD 35MPa; BONNET+FLOW TEE+ GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL cw SURFACE VENT.	CONSTRUCTION CUT AND CAPPED WELL WELLHEAD WAS SENT TO AZTEC YARD, VERNA LISTED ON MT 35998 (TALISMAN MT SCRATCHED OUT W/ FORTUNA US HAND WRITTEN ON 10 17 17 19 259 JTS 60mm EUE TUBING 1 WELLHEAD 36MPa; BONNET+FLOW TEE+ GATE VALVE+ GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL OW SURFACE VENT.	Log			DRY	<u> </u>					10 MINU	TES		
CONSTRUCTION CUT AND CAPPED WELL. WELLHEAD WAS SENT TO AZTEC YARD, VER UTAH, LISTED ON MT 35998 (TALISMAN MT SCRATCHED OUT W/ FORTUNA US HAND WRITTEN IT) - 258 JTS 80mm EUE TUBING - 1 WELLHEAD 36MPa; BONNET+FLOW TEE+ GATE VALVE + GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL CW SURFACE VENT.	UCONS INCCTION CUT AND CAPPED WELL. WELLHEAD WAS SENT TO AZTEC YARD, VERNULTAN, LISTED ON MT 35998 (TALISMAN MT SCRATCHED OUT W/ FORTUNA US HAND WRITTEN OF 1) - 259 JTS 60mm EUE TUBING - 1 WELLHEAD 36MP2, BONNET-FLOW TEE+ GATE VALVE + GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL & SURFACE VENT.	Date	Code		Activity			,						
LISTED ON MT 35998 (TALISMAN MT SCRATCHED OUT W/ FORTUNA US HAND WRITTEN TO 17)  - 258 JTS 60mm EUE TUBING - 1 WELLHEAD 36MPa; BONNET+FLOW TEE+ GATE VALVE + GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL c/w SURFACE VENT.	LISTED ON MT 35998 (TALISMAN MT SCRATCHED OUT W/ FORTUNA US HAND WRITTEN OI 1)  - 259 JTS 400mB EUR TUBING  - 1 WELLHEAD 36MP2; BONNET-FLOW TEE+ GATE VALVE + GATE VALVE+ TUBING  SPOOL+INTERMEDIATE SPOOL+ CASING BOWL OW SURFACE VENT.		COIC	Cut a	nd Cap Casing		CONSTRUC	TION CUT	AND CAPPED	WELL. WE	LLHEAD WA	SSENTT	O AZTEC Y	ARD VERN
- 258 JTS 60mm EUE TUBING - 1 WELLHEAD 35MPa; BONNET+FLOW TEE+ GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL CW SURFACE VENT.	- 259 JTS 60mm EUE TUBING - 1 WELLHEAD 36MP-2 BONNET-FLOW TEE+ GATE VALVE + GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL OW SURFACE VENT.					ļ.	JSTED ON I	MT 35998 (	TALISMAN M	SCRATCH	IED OUT W/ I	ORTINA	TIC HAND	MOITTEN OF
-1 WELLHEAD 36MPa; BONNET+FLOW TEE+ GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL CW SURFACE VENT.	- TWELLHEAD 35MPa; BONNETI-FLOW TEE+ GATE VALVE + GATE VALVE+ TUBING SPOOL+INTERMEDIATE SPOOL+ CASING BOWL OW SURFACE VENT.						T) - 258 JTS <b>6</b> 0:	mm EUS TI	IRING				OB BAND	MHII JEN OI
2 di GOLT CASING BOWL OW SUMFACE VENT.	SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOL					\-	1 WELLHEA	AD 35MPa	<b>BONNET-ELL</b>	OW TEE+ G	ATE VALVE	GATE V	AI VE ATIB	ING
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### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU- 77263
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT of CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL GAS WELL OTHER ABANDONED (G/U)	8. WELL NAME and NUMBER: #21-1
2. NAME OF OPERATOR: FORTUNA (U.S.) INC (N2160)	9. API NUMBER: 43-015-30426
3. ADDRESS OF OPERATOR: 3 ST SW CALGARY, ALBERTA PHONE NUMBER: STE 3400 - 888 CITY CANADA STATE ZIP T2 P.5 C.5 403-237-1234	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1309 FSL, 834 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: S/E/A-SE/A-SE/A-SECZI, T165, RGE SUB\$N	COUNTY: EMERY
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION  ACIDIZE DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)  ALTER CASING  FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only)	WATER DISPOSAL
Date of work completion:  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE  CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	OTHER:
	es etc
Operator Change - See attacked Certificate and Articles	ot Merger
The operator name change is as	follows:
From: Fortuna (U.S.) Inc. (Na160)	)
- FILCT ILC (NA605)	
To: FUSI LLC (NA605)	RECEIVED
	TOTIVED
	NOV 2 9 2004
	DIV. OF CIL. CAR
	DIV. OF CIL, GAS & MINING
NAME (PLEASE PRINT) BLAINE MACINUES TITLE DRILLING	ENGINEER
SIGNATURE DATE NOV 24	
SIGNATURE DATE DATE DATE	)
(This space for State use only)  APPROVED 12/2/104	

Division of Oil, Cas and Mining
(See Instructions on Reverse Side)
Earlene Russell, Engineering Technician

Division of Oil, Gas and Mining

#### **OPERATOR CHANGE WORKSHEET**

0 4 3 Change of Operator (Well Sold)

ROUTING 1. GLH

2. CDW 3. FILE

Designation of Agent/Operator

#### X Operator Name Change

Merger

The operator of the well(s) listed below	has changed	, effect	ive:	Weight (N. 198	10	0/1/2003			7
FROM: (Old Operator):	TO: ( New Operator):								
N2160-Fortuna (U.S.) Inc.	N2605-FUSI, LLC								
Ste 3400 888 3 St SW	Ste 3400 888 3 St SW Calgary, Alberta, Canada T2P 5C5								
Calgary, Alberta, Canada T2P 5C5									
Phone: 1-(403) 237-1234	Phone: 1-(403	) 237-1234				_			
CA	A No.			Unit:	<u></u>				_
WELL(S)									
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL	WELL STATUS	ŀ
JOES VALLEY 20-1	21	150S	060E	4303930025		Federal	GW	NEW	С
MIDDLE MOUNTAIN 21-16	21			4301530426	13659	Federal	D	PA	
LOWRY WATER 32-12	32			4301530522		Federal	GW	NEW	C
FLAT CYN ST 36-3	36	160S	060E	4301530524	ļ	State	GW	APD	С
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OPERATOR CHANGES DOCULE there date after each listed item is comp 1. (R649-8-10) Sundry or legal documen 2. (R649-8-10) Sundry or legal documen	oleted tation was re	eceived			-	12/20/200 12/20/200	_		
	<b>-</b>			<b>D.</b>		<b>D</b> . 1		11/4/0004	
3. The new company was checked on the	-			-	-			11/4/2004	_
4. Is the new operator registered in the St			YES	Business Num	iber:	409020-01	01		
5. If NO, the operator was contacted con	tacted on:								
6a. (R649-9-2)Waste Management Plan ha	s been recei	ved on	:	Requested					
6b. Inspections of LA PA state/fee well sit				n/a	<b>-</b>				
•	-								

<ol> <li>Federal and Indian Lease Wells: The BLM and or or operator change for all wells listed on Federal or Indian least</li> </ol>		ed the merger, name change,  BLM not yet BIA n/a	-
8. Federal and Indian Units: The BLM or BIA has approved the successor of unit operations.	ator for wells listed on:	n/a	
<ol> <li>Federal and Indian Communization Agreement The BLM or BIA has approved the operator for all wells live</li> </ol>	• •	n/a	
10. Underground Injection Control ("UIC") The Inject, for the enhanced/secondary recovery unit/project for		UIC Form 5, Transfer of Authority s) listed on:	to
DATA ENTRY:			
1. Changes entered in the Oil and Gas Database on:	12/22/2004		
2. Changes have been entered on the Monthly Operator Chan	nge Spread Sheet on:	12/22/2004	
3. Bond information entered in RBDMS on:	12/22/2004		
4. Fee/State wells attached to bond in RBDMS on:	12/22/2004		
5. Injection Projects to new operator in RBDMS on:	n/a		
6. Receipt of Acceptance of Drilling Procedures for APD/New	on: 12/	/22/2004	
FEDERAL WELL(S) BOND VERIFICATION:  1. Federal well(s) covered by Bond Number:	UT 1263		
INDIAN WELL(S) BOND VERIFICATION:			
1. Indian well(s) covered by Bond Number:	n/a		
FEE & STATE WELL(S) BOND VERIFICATION  1. (R649-3-1) The NEW operator of any fee well(s) listed covered to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th		33632617	
2. The <b>FORMER</b> operator has requested a release of liability for The Division sent response by letter on:	rom their bond on: n/a	n/a	
LEASE INTEREST OWNER NOTIFICATION: 3. (R649-2-10) The FORMER operator of the fee wells has been of their responsibility to notify all interest owners of this characteristics.		d by a letter from the Division	
COMMENTS:			

STATE OF UTAH

. 1	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU - 77263
SUNDRY	NOTICES AND REPORTS ON WE	LLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
Do not use this form for proposals to drill n	ow wells, significantly deepen existing wells below current bottom-hole of terals. Use APPLICATION FOR PERMIT TO DRILL form for such prop	epth, reenter plugged wells, or to	7. UNIT of CA AGREEMENT NAME: N/A
1. TYPE OF WELL OIL WELL	GAS WELL OTHER ABANDON	ED	8. WELL NAME and NUMBER: MIDDLE MOUNTAIN #21-16
2. NAME OF OPERATOR: FUSI LLC			9. API NUMBER: 4301530426
3. ADDRESS OF OPERATOR:	, CALGARY STATE AB ZIP T2P5C5	PHONE NUMBER: (403) 237-1234	10. FIELD AND POOL, OR WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1309'	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	erori ATON . Plum in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of	COUNTY: EMERY
QTR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN: SESE 21 16S 6E		STATE: UTAH
11. CHECK APP	ROPRIATE BOXES TO INDICATE NATUR		RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	REPERFORATE CURRENT FORMATION
☐ NOTICE OF INTENT	ACIDIZE DEEPEN	RE TREAT	SIDETRACK TO REPAIR WELL
(Submit in Duplicate)  Approximate date work will start:		INSTRUCTION	TEMPORARILY ABANDON
Approximate date work will start.		OR CHANGE	TUBING REPAIR
		ND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME PLUG B.		WATER DISPOSAL
(Submit Original Form Only)		CTION (START/RESUME)	WATER SHUT-OFF
Date of work completion:		MATION OF WELL SITE	
		PLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR C	DMPLETED OPERATIONS. Clearly show all pertinent details	including dates, depths, volun	nes, etc.
The operator name chang	e is as follows:		
From: FUSI LLC			
To: Fortuna (US) L.P.			
			RECEIVED
			JAN 1 8 2005
		Dl	V. OF OIL, GAS & MINING
NAME (PLEASE PRINT) BLAINE	MACINNES	TITLE DRILLING ENG	INEER
SIGNATURE	. D	DATE 1/5/2005	
(This space for State use only)			

APPROVED <u>a 1241 05</u> ER Division of Oil, Gas and Mining Earlene Russell, Engineering Technician Division of Oil, Gas and Mining

#### **OPERATOR CHANGE WORKSHEET**

R	ROUTING								
1.	GLH								
2.	CDW								

Change of Operator (Well Sold)

Designation of Agent/Operator

### X Operator Name Change

Merger

				TOMA	4			
FROM: (Old Operator):		TO: ( New Operator):						
N2605-FUSI LLC	N2710-Fortuna	, ,						
3400-888 3rd St SW			88 3rd St SW	TOD	5C5			
Calgary, Alberta, Canada T2P 5C5					y, Alberta, Ca	nada 12P	303	
Phone: 1-(403) 237-1234				Phone: 1-(403)	237-1234			
CA	No.			Unit:				
WELL(S)								
NAME	SEC	TWN		API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
JOES VALLEY 20-1	21	150S		4303930025		Federal	GW	NEW
MIDDLE MOUNTAIN 21-16	21	160S	1	4301530426	13659	Federal	D	PA
LOWRY WATER 32-12	32	160S		4301530522		Federal	GW	NEW
FLAT CYN ST 36-3	36	160S	060E	4301530524		State	GW	APD
OPERATOR CHANGES DOCUME Enter date after each listed item is complete 1. (R649-8-10) Sundry or legal documentation 2. (R649-8-10) Sundry or legal documentation	ed on was reco	eived fr				1/18/200		
3. The new company was checked on the De		of Com		Division of Co Business Num		atabase on 5409020-0		1/19/2005
<ul><li>4. Is the new operator registered in the State</li><li>5. If NO, the operator was contacted contact</li></ul>			11:5	— Dusiness Ivuii		10,020-0	*	
6a. (R649-9-2)Waste Management Plan has be				IN PLACE				

Endangland Indian Logge Wells, The DIM and or the	RIA has approve	d the mero	er name change
Federal and Indian Lease Wells: The BLM and or the or operator change for all wells listed on Federal or Indian leases		BLM	not yet <u>BIA</u> n/a
Federal and Indian Units:  The BLM or BIA has approved the successor of unit operator for	or wells listed on:		n/a
Federal and Indian Communization Agreements (	"CA"):	<u></u>	
The BLM or BIA has approved the operator for all wells listed			n/a
O. Underground Injection Control ("UIC")  The Inject, for the enhanced/secondary recovery unit/project for the v			m 5, Transfer of Authority to
ATA ENTRY:	0/04/0005		
Changes entered in the Oil and Gas Database on:	2/24/2005		
Changes have been entered on the Monthly Operator Change S	Spread Sheet on:		2/24/2005
Bond information entered in RBDMS on:	2/24/2005		
Fee/State wells attached to bond in RBDMS on:	2/24/2005		
Injection Projects to new operator in RBDMS on:	n/a		
. Receipt of Acceptance of Drilling Procedures for APD/New on:		1/20/2005	
FEDERAL WELL(S) BOND VERIFICATION:			
Federal well(s) covered by Bond Number:	UT 1263		
NDIAN WELL(S) BOND VERIFICATION:			
. Indian well(s) covered by Bond Number:	n/a		
FEE & STATE WELL(S) BOND VERIFICATION: . (R649-3-1) The NEW operator of any fee well(s) listed covered	by Bond Number		33632617
The FORMER operator has requested a release of liability from to The Division sent response by letter on:	their bond on:  n/a	n/a	<del>.</del>
LEASE INTEREST OWNER NOTIFICATION:			
. (R649-2-10) The FORMER operator of the fee wells has been co			
of their responsibility to notify all interest owners of this change of	UII.	n/a	<u> </u>
COMMENTS:			