DEVELOPMENT OF AN UNDERGROUND INJECTION WELL GEOGRAPHIC INFORMATION SYSTEM FOR WYOMING

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INTRODUCTION

PURPOSE

In 1988, the Underground Injection Control (UIC) Branch of the U.S. Environmental Protection Agency's (USEPA) Office of Drinking Water initiated a five-year effort to develop a, " ...national, decentralized UIC information system," (USEPA 1990; USEPA 1991a). Recent "minimum data set" guidance documents associated with the now established UIC Data Management System stipulated that all UIC regulatory agencies work toward establishing and maintaining a spatially-referenced digital database containing geographic coordinate location information for all UIC facilities. Prior to establishment of this mandate, location information for UIC facilities in Wyoming was only available in hardcopy format, and, to a limited extent, digital tabular files. In July 1992, the Wyoming Department of Environmental Quality (DEQ) contracted with the Wyoming Water Resources Center (WWRC) at the University of Wyoming to create an underground injection well geographic information system (GIS) database for the Wyoming DEQ's Underground Injection Control (UIC) Program. Dates of the contract were August 1, 1992 to June 30, 1993, with project work carried out by the WWRC GIS Lab over a 12-month period, September 1992 through August 1993. This document is the project's final report, detailing the methods employed and results obtained from the development of the GIS.

UNDERGROUND INJECTION REGULATION

The practice of underground injection has increasingly become essential to many of today's industries, including the petroleum and chemical industries, food and product manufacturing companies, geothermal energy development and a wide variety

of local small specialty plants and retail establishments (Osborne 1991). Responding to the realization that subsurface injection could contaminate groundwater, the Safe Drinking Water Act (SDWA) of 1974 established a federal Underground Injection Control (UIC) program for regulating the subsurface emplacement of fluids through injection wells. The goal of the federal regulations is to prevent contamination of Underground Sources of Drinking Water (USDW). A USDW is defined as an aquifer or portion of an aquifer which:

A) supplies any Public Water System; or

B) contains a sufficient quantity of ground water to supply a Public Water System; and

1) currently supplies drinking water for human consumption; or

2) contains fewer than 10,000 mg/l total dissolved solids, unless exempted by special provisions of the SDWA (Osborne 1991).

The United States Environmental Protection Agency (USEPA) has delegated primary regulatory authority to those states that have demonstrated an ability to implement UIC programs that meet USEPA requirements defined under Section 1422 or 1425 of the SDWA. In many states, primary UIC regulatory authority is shared between two or more agencies. In states that have not received primacy, the responsible regulatory agency is the USEPA (UIPC 1990a).

All primacy requirements for UIC program regulation have been met in Wyoming. The state UIC program for Class II wells has been administered by the Oil and Gas Conservation Commission in Casper since 1982; the state UIC program for Class I, III, IV and V wells has been administered by the Water Quality Division of the Department of Environmental Quality in Cheyenne since 1983 (Western Water Consultants 1986).

As noted above and defined by USEPA UIC Program regulations, injection facilities are divided into five distinct categories, based on common design and operating technique. The principal factor originally used to define the classes is the type of activity and the nature of associated injection fluids. A secondary factor used

in the classification was the location of injection facilities relative to USDWs (Table 1).

Table 1
Injection Well Classes

CLASS I	Wells used to inject liquid hazardous wastes or dispose of non-hazardous industrial and treated municipal wastewaters below the lowermost USDW.
CLASS II	Wells used to inject fluids associated with the production of oil and natural gas or fluids/compounds used for enhanced hydrocarbon recovery. These wells normally inject below the deepest USDW except in cases where a USDW also produces oil or gas.
CLASS III	Wells that inject fluids used for the extraction of minerals (e.g. uranium, sulfur and salt).
CLASS IV	Wells which dispose of hazardous or radioactive wastes into or above a USDW. These wells have been banned by the USEPA.
CLASS V	Wells not included in Classes I-IV, which generally inject nonhazardous fluid into or above a USDW.

Source: UIPC, 1990a

The Class I injection well category includes over 450 active wells across the country, a third of which inject large volumes of hazardous fluids. Class II oil and gas production wells number approximately 175,000 in 31 states, most being involved in enhanced oil recovery activities. The Class III category includes approximately 30,000 wells at 200 facilities, most of which are associated with solution mining of uranium (Osborne 1991). Twenty Class IV hazardous and radioactive waste wells existed in the United States as of 1989. The use of these injection wells has been banned by the USEPA (UIPC 1990b).

The largest class of injection wells includes the Class V "shallow injection" wells, with more than 300,000 facilities presently identified nationwide. This category includes all injection wells which do not fall under Classes I - IV. Class V injection practices recognized by the USEPA include 30 individual types of wells in seven major categories, which range in complexity from simple cesspools that are barely deeper than they are wide, to sophisticated geothermal reinjection wells that may be thousands of feet deep. Not all Class V wells are used for disposal. "Examples of Class V practices which are not disposal related include Aquifer Recharge, Fossil Fuel Recovery and Mineral Recovery wells," (UIPC 1990b, 10). Appendix A contains a table describing each of the 30 subclasses of Class V wells, associated potential contaminants and groundwater contamination potential.

SCOPE

The primary objective of this project was the development of a GIS-based underground injection well database containing location information (including latitude/longitude coordinates to the nearest whole second) for all permitted injection wells regulated by the Wyoming DEQ's Water Quality Division. Three major tasks were involved with the creation of the GIS:

1) Facility Background Data Collection and Location Identification;
2) Facility Location Investigation;
3) Digitization and Mapping of Injection Facilities.

Chapters Two through Four outline the methodology and/or products associated with each of these tasks. A summary of the project and database development is detailed in Chapter Five.

CHAPTER II

FACILITY BACKGROUND DATA COLLECTION AND LOCATION DETERMINATION

FEDERAL UIC REPORTING SYSTEM

The first major task in the development of the GIS database was the collection of background location data associated with each of the injection facilities permitted by DEQ. Background data was collected for all injection wells identified in the existing DEQ injection facility inventory. This inventory had been maintained in a dBase III+ database file called FURS (Federal UIC Reporting System). Established in the early 1980s and designed to correspond to the USEPA's injection well inventory data sheet, the FURS database includes individual records for each of the injection facilities located in the state. Forty-one tabular fields contain data associated with the injection facilities, including information on:

- facility permit numbers, names and locations;
- owner and operator contacts;
- well class, type and status;
- township/range legal description;
- associated monitor wells (Appendix B).

As of September 1, 1992, DEQ's FURS database contained records on 826 permitted facilities, representing over 6,700 individual Class I, III and V injection wells (Table 2). To eliminate the possibility of overlooking permitted facilities which may have been added to the FURS database during the development of the GIS, a decision was made that the project would only be responsible for locating wells associated with the 826 facilities contained in the FURS database on September 1, 1992. Following completion of the initial GIS database, DEQ personnel could update the established

GIS by inputting any remaining facilities which had been permitted during the database development period.

Table 2
Wyoming UIC Facilities
September 1, 1992

INJECTION WELL TYPE	PERMITTED FACILITIES	INJECTION WELLS
CLASS I	16	24
CLASS III	9	5,281
CLASS IV	801	1,394
Total:	826	6,699

PERMIT FILE DATA

Background data for injection facility locations was primarily collected by accessing available UIC permit files at DEQ offices in Cheyenne. Corresponding to the FURS database, these records were filed alphabetically by county and color-coded according to well type class (5X28, 5W32, etc). Some permit applications and related documents, primarily associated with Class I and Class III facilities, were shelved onsite at DEQ as bound volumes. When required, these documents were also accessed to determine well locations.

Each of the onsite permit records contained a document control card identifying the documents on file for each permit. This card also noted whether or not any materials associated with the permit files had been archived. Overall, an estimated 15% of the total number of permit files had been sent to State Archives. During the course of the project, three archive retrieval requests were made to access documents associated with 132 assorted UIC permits. These archive requests were made in January, May and June of 1993.

A major obstacle encountered in the course of collecting facility location background data was the lack of permit files for approximately 30% of the permit

records contained in the FURS database. It was determined that the majority of these facilities were Class 5X28 or Class 5W32 "shallow" injection wells (shop repair bay floor drains and drainfield septic systems), with "WYS" permits. In discussing this matter with DEQ staff, it was determined that these facilities had been inventoried and added to the FURS database prior to 1986. At that time, Class V wells were authorized by rule, with no permitting requirements or restrictions (Council and Fryberger 1988). Consequently, the manner in which they were originally identified was not known, and in most cases, no follow-up work had been undertaken. As a result, the location information available for these facilities was limited to what could be determined from records in the FURS database.

DATA ACCURACY

The location data provided in the UIC permit files was generally found to be in one or more of the following formats: permit application maps, township/range legal descriptions, subdivision block/lot locations or street address. Precision of available well location information varied considerably. When available, many permit maps provided highly precise and accurate locations of injection facilities. Other maps however, lacked geographic registration and/or an identifiable scale. Several township/range legal descriptions were encountered which failed to locate wells to the nearest quarter-quarter section. Similarly, a large number of subdivision descriptions were encountered which did not specify lot locations within a block. Given the recommended locational accuracy goal of 25 meters established by the USEPA Locational Accuracy Task Force (USEPA 1992b), these cases (which included many of the "WYS" permits mentioned above), required a more extensive background data search involving additional resources to locate the facilities in question (Chapter 3).

Collection of background data began in October 1993 on a county-by-county basis and continued throughout the duration of the contract. Much of this work coincided with the facility location investigation (Chapter 3). This investigation had to be expanded as a result of the relatively limited amount of location data available for the "WYS" permits described above.

LOCATION MAPPING

As collection of background data was completed, injection well locations within each county were plotted on one of two types of standard paper basemaps. With the exception of Campbell, Natrona and Teton Counties, all injection wells located within a county were plotted on Bureau of Land Management (BLM) Editions of U.S. Geological Survey (USGS) 1:100,000-scale topographic maps (30x60 Minute Quadrangle Series). Fifty-Six 30x60 minute quadrangle maps provide coverage at this scale for the entire state. Mapped features used as locational references included Public Land Survey System linework, roads, surficial hydrography features and land ownership delineations.

Provisions of the contract called for a more detailed mapping of wells in 20 square miles of specified areas with dense concentrations of UIC facilities. These areas were chosen by DEQ's UIC Program Supervisor and included five township/range sections in the vicinity of Gillette, in Campbell County, and 14 sections surrounding Casper, in Natrona County, as well as one section in Teton County. The basemaps used for plotting (and digitizing) well locations in these areas included a collection of 1:6000-scale subdivision plat maps acquired from county address books for Campbell and Natrona Counties. The majority of the injection wells in these areas were repair shop floor drains (5X28s) or septic system drainfields (5W32s) located in subdivisions adjacent to the cities' corporate limits and sanitary sewer networks. Monitor wells associated with the facilities in these areas were also located and plotted on the plat maps. The section in Teton County for which more detailed mapping was done contained a UIC facility with five 5W12 wastewater treatment plant effluent disposal wells. This section was located northeast of the town of Jackson. (Note: For each of the three counties -Campbell, Natrona and Teton, injection wells located outside of the detailed mapping area were mapped using the county-wide 1:100,000-scale method described above.)

For most permits, individual injection well locations were delineated and mapped as distinct points on the basemaps for digitization as point features. Permits for a number of facilities, however, contained a very large number of wells which

could not be accurately located within the permitted area due to insufficient data in these permit applications and files. For these cases, which primarily involved Class III-U mineral extraction, Class 5X13 and 5X15 fossil fuel recovery and Class 5X26 aquifer remediation activities, permit area boundaries were transferred to the basemaps and digitized as polygon features.

CHAPTER III
FACILITY LOCATION INVESTIGATION

Prior to the start of the project, DEQ staff determined that the location information needed for geo-referencing wells in the GIS was available for approximately 95% of the 6,700 injection sites in the state. Consequently, the second major task for the project was to acquire accurate location information for a minimum of 50 of the estimated 300 remaining wells for which adequate location information was not available.

A DEQ-approved list of 127 permit facilities was generated from the FURS database. These permits were reselected based on the absence of data in the LOCATION field in FURS. Within this list, priority was first given to locating 5X28 wells in Natrona County, followed by 5X28 wells in other parts of the state and finally, wells in all counties classified as 5W31s and 5W32s.

Overall, well locations were obtained for 67 of the 127 permit facilities targeted with insufficient information (Appendix C). The primary means of obtaining this information was through requests made to city and county planners and engineers across the state. Such requests were made in seven counties: Campbell, Park, Sheridan, Sweetwater, Teton, Uinta and Washakie. Along with a list of the 127 "priority" permits, officials in these seven counties were also given a list of the additional permits from their counties for which sufficient location information was lacking. Provided with a list of facility names and street addresses and/or subdivision block/lot descriptions, these county officials were able to locate and plot on county plat maps, 90% of the remaining wells with missing or inadequate permit documentation.

CHAPTER IV

INJECTION FACILITY DIGITIZATION AND MAPPING

The third major task involved in the development of the GIS was the digital geo-referencing of the injection well point locations and permit area boundaries. A combination of screen and tablet digitizing methods were utilized for transferring injection well locations (plotted on the USGS and subdivision plat basemaps) to a digital GIS format. Screen digitizing of well location point features was carried out using a series of digital reference basemaps created in ARC/INFO GIS[1,2] from 1990 U.S. Bureau of the Census TIGER/Line files (Bureau of the Census 1991). Tablet digitizing was used to create line and polygon coverages from the 20 subdivision plat maps described in Chapter Two. Injection facilities and monitor wells which had been plotted on these maps were then digitized as point features in the GIS.

COUNTYWIDE DIGITIZATION

TIGER-based Digital Basemaps. Both TIGER[3] files and 1:100,000-scale USGS Digital Line Graphs (DLG) were originally considered as sources for the digital reference basemaps. In the end, however, the TIGER files were chosen over the DLGs for a number of important reasons. While both data sets contain elements which correspond closely to the transportation and surficial hydrography features found on the USGS 1:100,000-scale maps, the TIGER files contain additional data

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[1]ARC/INFO is a registered trademark of Environmental Systems Research Institute, Inc., Redlands, CA USA.

[2]The use of brand names in this report is for identification purposes only and does not constitute endorsement by the Wyoming Water Resources Center or the University of Wyoming.

[3]Topologically Integrated Geographic Encoding and Referencing System

which can be used in address matching procedures within the GIS. Furthermore, while the formats of both data types allow for relatively easy software-specific conversion (ESRI, Inc 1991b), the resulting TIGER-generated coverages are tiled by county, a method favored for the purposes of this project over the 30'x30' latitude/longitude extent of converted DLG coverages.

Some concern was raised regarding the consistency of the TIGER files' spatial accuracy, since these files were developed from a combination of Census Bureau GBF/DIME files and original USGS 1:100,000-scale data sets. To compare the accuracy of TIGER and DLG linework in Wyoming, ARC/INFO line coverages were created from both datasets for three counties reflecting varying levels of transportation network development (Albany, Laramie, Natrona). Visual comparisons indicated, that in each county, the extent of linework was nearly identical for both coverages; the TIGER-generated coverages maintained comparable spatial accuracy to the coverages generated from the DLGs, confirming conclusions made by others that TIGER/Line files are suitable for county-based regional scale projects (Ferber 1991). Finally, many of the DLGs for the state contain linework which has not been updated in 20 years, while the TIGER files have been enhanced to reflect recent expansion of urban or built-up areas.

Address Geocoding. The 1990 Wyoming TIGER/Line files contain address range information for only two of the state's 23 counties, Natrona and Laramie. Because of the large number of injection wells located around the city of Casper in Natrona County, a decision was made to explore the viability of using address geocoding techniques to locate these facilities. Address geocoding routines in ARC/INFO provide a means of building a database relationship between addresses and coverage features. Addresses in an attribute data file are compared with coverages which have address attributes for each feature. When a match is found, geographic coordinates from the matched coverage feature are assigned to the attribute data file address. Matches are determined by a scoring process based on user-defined matching criteria. Address comparisons must meet the minimum specified score in order for a

match to be made. Provisions are also provided for evaluating and altering rejected addresses to achieve a match (ESRI 1991a).

After converting the dBase III+ FURS database to an INFO data file, reselected addresses for facilities in Natrona County were compared with address ranges for arcs in the TIGER-generated Natrona County basemap line coverage. Overall, 168 of the 313 injection site addresses found in Natrona County were georeferenced. However, based on comparisons with available permit file maps and prior knowledge of UIC Program staff at DEQ, it was determined that the interpolated locations generated by the address matching routines would not meet the accuracy requirements for the project. As a result, this geo-referencing technique was abandoned in Natrona County.

Ten out of 38 injection facilities in Laramie County were also matched with the address geocoding routines. Positional accuracy similar to that achieved in Natrona County was observed during an individual field check of the address-matched well locations. Based on this field verification, it was possible to accurately adjust the positions of these ten wells on a basemap for digitization.

Digitization Techniques. As noted above, screen digitization techniques were used for digitizing well locations plotted on the USGS 1:100,000-scale basemaps. For each county, TIGER file road features in ARC/INFO line coverages were used as references for screen digitizing well locations into point feature coverages in ARC/INFO's Arcedit[4] module. Tablet digitization was used in Arcedit to create polygon feature coverages representing permit boundaries of those injection facilities for which individual well locations could not be determined.

LARGE-SCALE PLAT MAP DIGITIZATION

Subdivision plat maps representing the 20 square miles of specified areas with dense concentrations of injection facilities township/range sections were tablet digitized in Arcedit at an input scale of 1:6000. Individual line and polygon coverages created for each section included coverages for section lines, roads, lot lines and

[4]Arcedit is a trademark of Environmental Systems Research Institute, Inc., Redlands, CA USA.

subdivision boundaries. Individual injection well and monitor locations were also digitized off the same basemaps as separate point feature coverages in the GIS.

DATABASE DESIGN

The structure of the GIS database is based on ARC/INFO's georelational vector data structure; spatial data, representing the point and line geometry of well locations and facility permit boundaries, is stored in an arc-node data structure, while attributes describing the spatial features are stored in a relational structure. Related well point feature attribute tables for each coverage include a unique well identification number with associated latitude/longitude coordinate values. The related attributes for polygon features representing facility boundaries include a unique well identification number field (WELLNUM) and Permit identification field (PERMIT), which serve to describe all wells associated with the site.

Redundancy of attribute data in the GIS was minimized by establishing a series of "one-to-one" and "many-to-one" relates between the point and polygon coverage feature attribute tables and three related attribute database files. In a "one-to-one" relate environment, each record in the feature attribute table has a unique relate item value with one corresponding relate item value in the related table. In a "many-to-one" relate, some records in the feature attribute table have the same values for the relate item, however, in the related file there is only one unique occurrence for each related item or column value (ESRI 1991c).

NEW_FURS Database. No unique identifiers exist in the original FURS database for individual wells represented by each of the permit records. Once imported into the GIS database, FURS was used to create a new database file, NEW_FURS, containing individual records and an additional well identification number field, WELLNUM, for all 6,700 injection wells in the state. The 11-digit well identification numbers were the same numbers used as feature identifiers in the point and polygon coverage feature attribute tables. The well identifiers combine state and county FIPS code numbers with a six-digit consecutive number for up to 999,999

wells in each county. In Wyoming all well identifiers begin with "56-" (the state FIPS code for Wyoming), followed by a three-digit odd number representing the county FIPS code and a six-digit sequential number for the individual wells in that county. For example, the number "56001000037" represents an injection well in Wyoming's Albany County. Wells in Wyoming's Bighorn County would begin with the number "56003000001" and so on. Using the unique well identifier as the relate item, "one-to-one" relates were established between the coverage feature attribute tables and the NEW_FURS data file.

MSDE Database. In addition to NEW_FURS, a second related data file was created called MSDE, containing well-by-well information on the USEPA's Minimum Set of Data Elements for Groundwater Quality. The USEPA has defined these elements as the basic data entities necessary to effectively use data from wells, springs and other ground water locations across groundwater related programs. The Minimum Set of Data Elements are considered one measure in developing comprehensive state ground water protection programs (USEPA 1992a).

The MSDE data file created for the injection well GIS consists of 51 fields, representing the 21 data elements defined by the USEPA (Appendix D). Each record contains information for an individual injection well relative to its geographic location. A WELLNUM field for unique well identification provides for the establishment of "one-to-one" relates between coverage feature attribute tables and the MSDE data file. Data in the original FURS database and NEW_FURS database can also be accessed from the MSDE data file using a "many-to-one" relate, keyed on the PERMIT field in each file. Structure of the MSDE database is also consistent with specifications outlined by the USEPA's Facility Identification Data Standard and Locational Data Policy (USEPA 1992b).

CLASS1 Database. The third related attribute file created for the project was the CLASS1 database file. The CLASS1 file contains records for each of the 24 permitted Class I wells in the state. The 228 fields in this database were designed to represent the State Minimum Data Set for Class II wells, as defined by the UIC Data Management System (Appendix E). Therefore, the data structure of the CLASS1 file

was designed to match that of the Class II data set, as well as the USEPA UIC Branch's WATERS software.

WATERS is a PC-based database system designed for tracking Class II injection wells. It contains well-specific data similar in nature to that contained in the FURS database for facility permitting, along with additional data associated with the Class II minimum data set regarding operational characteristics, inspections, mechanical integrity tests, enforcement actions and compliance status (USEPA 1991b). Recent enhancements to the system include well schematic display capabilities and a GIS interface for querying and map display. While the current version of WATERS is designed only for Class II wells, consideration is being given to expanding the system to accommodate other well classes. In part, for this reason, Wyoming UIC program staff elected to begin compiling information on Class I wells in the same format as outlined by the Class II Minimum Set of Data Elements, necessitating the creation of the CLASS1 attribute file.

As with the NEW_FURS and MSDE relate files, the CLASS1 file also contains fields for both PERMIT and WELLNUM fields to allow for the establishment of relates between the CLASS1, MSDE, NEW_FURS and coverage PAT files. At this time, only selected fields related to well location contain data. However, the structure has been established for input of data into all of the remaining fields. Should WATERS be adopted at some point by the DEQ, the data structure of the CLASS1 file will allow for easy exporting and/or importing of data with WATERS.

CHAPTER V

DATABASE SUMMARY

The completed GIS database contains over 300 coverages created to represent the locations of 6700+ injection wells across the state. Overall, 468 individual injection wells were located in 1:100,000-scale coverages in 21 of Wyoming's 23 counties. Several thousand wells were located as part of 43 permit boundary polygons at the same 1:100,000-scale for eight counties. An additional 268 injection wells and an associated 155 groundwater quality monitoring wells were individually located for twenty "priority" square-mile sections at a scale of 1:6000.

Appendix F contains information on each of the injection and monitor well coverages created, including the naming convention standards employed, feature attribute table file structures, and a description of each coverage's size and content, editing tolerances, coordinate system and map projection. Geographic (latitude/longitude) coordinates for the injection facility records contained in each of the coverages is listed in Appendix G.

The development of an underground injection well GIS will greatly enhance data management and analysis within Wyoming's UIC Program. In terms of data management, the GIS has the ability to provide comprehensive well-by-well tracking at the program implementation level. In addition to extensive map and report generating capabilities, the GIS will be able to maintain a wide range of well-specific data, including permitting history, well location, inspections and operational characteristics. Potential analysis capabilities of the GIS include "Area of Review" and "Zone of Endangered Influence" calculations (UICP 1990a; Engineering Enterprises, Inc 1985), as well as the integration of the injection well GIS database with ongoing statewide ground-water sensitivity mapping efforts (Hamerlinck, Wrazien

and Needham 1993). Other future potential developments associated with the injection well GIS include increased use of address matching routines to locate well locations (made possible with the greatly enhanced address range attribute data in the most recent version of the Bureau of the Census' TIGER/Line files), and the utilization of global positioning systems (GPS) technology to more accurately locate existing and new injection facilities. This technology will also be instrumental if the injection well database is expanded or integrated with other databases which include other point sources of groundwater contamination such as underground storage tanks. Finally, it is recommended that future enhancements to the GIS also address the need for a user-friendly, system interface, to ensure that the database is utilized to its fullest potential.

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APPENDIX A
CLASS V INJECTION WELL SUBCLASSES

Class V Injection Well Subclasses

Name of Well Type and Description	Ground Water Contamination Potential	Potential Contaminants	EPA Well Code
DRAINAGE WELLS (a.k.a. DRY WELLS) Agricultural Drainage Wells — receive irrigation tailwaters, other field drainage, animal yard, feedlot, or dairy runoff, etc.	High	Pesticides, nutrients, pathogens, metals transported by sediments, salts.	5F1
Storm Water Drainage Wells — receive storm water runoff from paved areas, including parking lots, streets, residential subdivisions, building roofs, highways, etc.	Moderate	Heavy metals (Cu, Pb, Zn) organics, high levels of coliform bacteria. Contaminants from streets, roofs, landscaped areas, Herbicides, Pesticides.	5D2
Improved Sinkholes — receive storm water runoff from developments located in karst topographic areas.	High-Moderate	Variable: pesticides, nutrients, coliform bacteria.	5D3
Industrial Drainage Wells — wells located in industrial areas which primarily receive storm water runoff but are susceptible to spills, leaks, or other chemical discharge.	High-Moderate	Usually organic solvents, acids, pesticides, and various other industrial waste constituents. Similar to storm drainage wells but usually higher concentrations.	5D4
Special Drainage Wells — used for disposing water from sources other than direct precipitation. Four types were reported: landslide control drainage wells (Montana), potable water tank overflow drainage wells (Idaho), swimming pool drainage wells (Florida), and lake level control drainage wells (Florida)	Moderate-Low	Chlorinated and treated water, pH imbalance, algaecides, fungicides, muriatic acid.	5G30
GEOTHERMAL REINJECTION WELLS Electric Power Reinjection Wells — reinject geothermal fluids used to generate electric power — deep wells.	Moderate	pH imbalance, minerals and metals in solution. (As, Bo, Se), sulfates.	5A5
Direct Heat Reinjection Wells — reinject geothermal fluids used to provide heat for large buildings or developments — deep wells.	Moderate	Hot geothermal brines with TDS between 2,000 to 325,000 mg/l. Co_3, $CaSO_4$, Sr and Ba, As.	5A6
Heat Pump/Air Conditioning Return Flow Wells — reinject groundwater used to heat or cool a building in a heat pump system — shallow wells.	Low	Potable water with temperatures ranging from 90° to 110° F., may have scale or corrosion inhibitors.	5A7
Groundwater Aquaculture Return Flow Wells — reinject groundwater or geothermal fluids used to support aquaculture. Non-geothermal aquaculture disposal wells are also included in this category (e.g. Marine aquariums in Hawaii use relatively cool sea water).	Moderate	Used geothermal waters which may be highly mineralized & include traces of arsenic, boron, fluoride, dissolved & suspended solids, animal detritus, perished animals and bacteria.	5A8
DOMESTIC WASTEWATER DISPOSAL WELLS Untreated Sewage Waste Disposal Wells — receive raw sewage wastes from pumping trucks or other vehicles which collect such wastes from single or multiple sources. (No treatment)	High	Soluble organic & inorganic compounds including household chemicals. Raw sewage with 99.9% water and .03% suspended solid. May contain pathogenic bacteria & viruses, nitrates, ammonia.	5W9
Cesspools — including multiple dwelling, community, or regional cesspools, or other devices that receive wastes and which must have an open bottom and sometimes have perforated sides. Must serve greater than 20 persons per day if receiving solely sanitary wastes. (Settling of solids)	High	Soluble organic & inorganic compounds including household chemicals. Raw sewage with 99.9% water and .03% suspended solid. May contain pathogenic bacteria & viruses, nitrates, ammonia.	5W10
Septic Systems (Undifferentiated Disposal Method) — used to inject the waste or effluent from a multiple dwelling, business establishment, community, or regional business establishment septic tank. Must serve greater than 20 persons per day if receiving solely sanitary wastes. (Primary Treatment)	High-Low	Varies with type of system: fluids typically 99.9% water (by weight) and .03% suspended solids: major constituents include nitrates, chlorides, sulfates, sodium, calcium, and fecal coliform.	5W11
Septic Systems (Well Disposal Method) — examples of wells include actual wells, seepage pits, cavitettes, etc. The largest surface dimension is less than or equal to the depth dimension. Must serve greater than 20 pesons per day if receiving solely sanitary wastes. (Less treatment per square area than 5W32)	High-Low	Varies with type of system: fluids typically 99.9% water (by weight) and .03% suspended solids: major constituents include nitrates, chlorides, sulfates, sodium, calcium, and fecal coliform.	5W31
Septic System (Drainfield Disposal Method) — examples of drainfields include drain or tile lines, and trenches. Must serve more than 20 persons per day if receiving solely sanitary wastes. (More treatment per square area than 5W31)	High-Low	Varies with type of system: fluids typically 99.9% water (by weight) and .03% suspended solids: major constituents include nitrates, chlorides, sulfates, sodium, calcium, and fecal coliform.	5W32
Domestic Wastewater Treatment Plant Effluent Disposal Wells — dispose of treated sewage or domestic effluent from small package plants up to large municipal treatment plants. (Secondary or further treatment)	High-Low	Lower levels of organics and bacteria than other septic systems and cesspools.	5W12
MINERAL AND FOSSIL FUEL RECOVERY RELATED WELLS Mining, Sand, or Other Backfill Wells — used to inject a mixture of water and sand, mill tailings, and other solids into mined out portions of subsurface mines whether what is injected is a radioactive waste or not. Also includes special wells used to control mine fires and acid mine drainage wells.	Moderate	Acidic waters	5X13
Solution Mining Wells — used for in-situ solution mining in conventional mines, such as stopes leaching.	Moderate-Low	2.4% sulfuric acid, pH less than 2 for copper & ferric cyanide solution for gold or silver.	5X14
In-situ Fossil Fuel Recovery Wells — used for in-situ recovery of coal, lignite, oil shale, and tar sands.	Moderate	Steam, air, solvents, igniting agents.	5X15
Spent-Brine Return Flow Wells — used to reinject spent brine into the same formation from which it was withdrawn after extraction of halogens or their salts.	Low	Variable	5X16

Name of Well Type and Description	Ground Water Contamination Potential	Potential Contaminants	EPA Well Code
INDUSTRIAL/COMMERCIAL/UTILITY DISPOSAL WELLS Cooling Water Return Flow Wells — used to inject water which was used in a cooling process, both open and closed loop processes.	Low-Moderate	Anti-sealing additives, thermal pollution, potential for industrial spills reaching ground water.	5A19
Industrial Process Water and Water Disposal Wells — used to dispose of a wide variety of wastes and wastewaters from industrial, commercial, or utility processes. Industries include refineries, chemical plants, smelters, pharmaceutical plants, laundromats and dry cleaners, tanneries, carwashes, laboratories, etc. *Industry and waste stream must be specified* (e.g. Petroleum Storage Facility—storage tank condensation water; Electric Power Generation Plant—mixed waste stream of laboratory drainage, fireside water, and boiler blowdown; Car Wash—Mixed waste stream of detergent, oil and grease, and paved area washdown; Electroplating Industry—spent solvent wastes; etc.).	High	Potentially any fluid disposed by various industries, suspended solids, alkalinity, sulfate volatile organic compounds.	5W20
Automobile Service Station Disposal Well — repair bay drains connected to a disposal well. Suspected of disposal of dangerous or toxic wastes.	High	Heavy metals, solvents, cleaners, used oil and fluids, detergents, organic compounds.	5X28
RECHARGE WELLS Aquifer Recharge Wells — used to recharge depleted aquifers and may inject fluids from a variety of sources such as lakes, streams, domestic wastewater treatment plants, other aquifers, etc.	High-Low	Variable: water is generally of good quality	5R21
Saline Water Intrusion Barrier Wells — used to inject water into fresh water aquifers to prevent intrusion of salt water into fresh water aquifers.	Low	Varies: advanced treated sewage, surface urban and agricultural runoff, and imported surface waters.	5B22
Subsidence Control Wells — used to inject fluids into a non-oil or gas producing zone to reduce or eliminate subsidence associated with overdraft of fresh water and not used for the purpose of oil or natural gas production.	Low	No specific type of injected fluid noted, similar to aquifer recharge wells.	5S23
MISCELLANEOUS WELLS Radioactive Waste Disposal Wells — all radioactive waste disposal wells other than Class IV wells.	Unknown	Low-level radioactive wastes.	5N24
Experimental Technology Wells — wells used in experimental or unproven technologies such as pilot scale in-situ solution mining wells in previously unmined areas.	Low-Moderate	Varies depending on project.	5X25
Aquifer Remediation Related Wells — wells used to prevent, control, or remediate aquifer pollution, including but not limited to Sueprfund sites.	Unknown	Nutrients used in Biodegradation of organics, oil/grease, phenols, toluene.	5X26
Abandoned Drinking Water Wells — used for disposal of waste.	Moderate	Potentially any kind of fluid, particularly brackish or saline water, hazardous chemcials and sewage.	5X29
Other Wells — any other unspecified Class V wells: *Well type/purpose and injected fluids must be specified.*	Unknown	Variable	5X27

Source: Injection Wells: An Introduction to Their Use, Operation and Regulation. Oklahoma City, OK: Underground Injection Practices Council, 1990.

APPENDIX B
FURS DATABASE FILE STRUCTURE

FURS DATABASE FILE STRUCTURE

DATAFILE NAME: FURS

42 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP	N.DEC	ALTERNATE NAME
1	DATE_PREP	8	10	D	-	
9	PERMIT	15	15	C	-	
24	A_NAME	55	55	C	-	
79	B_STREET	30	30	C	-	
109	C_CITY	25	25	C	-	
134	D_STATE	2	2	C	-	
136	E_ZIP	5	5	C	-	
141	SITE_PHONE	15	15	C	-	
156	COUNTY	12	12	C	-	
168	F_COUNTY	3	3	I	-	
171	NEW	1	1	C	-	
172	OWNER	1	1	C	-	
173	OPERATOR	1	1	C	-	
174	B_NAME	40	40	C	-	
214	C_PHONE	15	15	C	-	
229	ORGANIZ	40	40	C	-	
269	E_STREET	30	30	C	-	
299	F_CITY	25	25	C	-	
324	G_STATE	2	2	C	-	
326	H_ZIP	5	5	C	-	
331	PRIVATE	1	1	C	-	
332	PUBLIC	1	1	C	-	
333	STATE	1	1	C	-	
334	FEDERAL	1	1	C	-	
335	OTHER	1	1	C	-	
336	CLASS	1	1	I	-	
337	CLASS_TYPE	4	4	C	-	
341	B_NUMBER	4	4	I	-	
345	STATUS_UC	4	4	I	-	
349	STATUS_AC	4	4	I	-	
353	STATUS_TA	4	4	I	-	
357	STATUS_PA	4	4	I	-	
361	STATUS_AN	4	4	I	-	
365	COMMENT	100	100	C	-	
465	TOWNSHIP	4	4	I	-	
469	RANGE	5	5	I	-	
474	SECTION	4	4	I	-	
478	LOCATION	40	40	C	-	
518	STATUS1	250	250	C	-	
768	ANALYSES	1	1	C	-	

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769  WELLS                1    1  C    -
770  PARSE_ADD           38   38  C    -
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APPENDIX C

INJECTION FACILITY LOCATION INVESTIGATION PRIORITY LIST

INJECTION FACILITY LOCATION INVESTIGATION
PRIORITY LIST

ALBANY				
WYS 001-003	5W32	CIGC LARAMIE COMPRESSOR STATION	COLORADO SPRINGS	1
*WYS 001-004	5W32	FRIENDLY STORE, MOTEL AND BAR	CENTENNIAL	1
*WQD 81-266	5X28	LARAMIE CHROME PLATING	LARAMIE	1
*WYS 001-008	5X28	M AND X INC.	LARAMIE	1
BIGHORN				
WYS 003-003	5W32	LOVEL VETERINARY SERVICE	LOVELL	1
CAMPBELL				
*WYS 005-009	5W32	MORGAN TRAILER COURT	GILLETTE	1
*WQD 80-271	5W32	NEPSTAD 6-PLEX APARTMENTS	GILLETTE	1
*WYS 005-062	5X28	CUMMINS POWER, INC.	GILLETTE	1
*WYS 005-061	5X28	NATIONAL OILWELL	GILLETTE	1
*WQD 81-338R	5X28	RENO JUNCTION MAINTENANCE CAMP	CHEYENNE	1
CARBON				
WYS 007-001	5W32	CIGC RAWLINS COMPRESSOR STATION	COLORADO SPRINGS	1
WYS 007-002	5W32	CIGC RAWLINS HEADQUARTERS	COLORADO SPRINGS	1
WYS 007-005	5W32	ELK MOUNTAIN CONOCO AND TOWING SERVICE	ELK MOUNTAIN	1
WQD 83-476	5W32	HANNA DOG POUND	HANNA	1
WYS 007-007	5W32	MUDDY GAP HOUSING, WYOMING HIGHWAY DEPT.	CHEYENNE	1
*WQD 79-659RR	5W32	WAGONHOUND REST AREA, WYOMING HIGHWAY DEPT.	CHEYENNE	2
CONVERSE				
*WQD 81-585	5W32	TENNESSEE ERNIE'S TRAILER ACRES	DOUGLAS	1
WYS 009-004	5X28	LOUISIANA LAND AND EXPLORATION	DOUGLAS	1
CROOK				
*WYS 039-012	5W32	DEVIL'S TOWER NATIONAL MONUMENT	DEVIL'S TOWER	4
*WQD 82-758	5W32	SUNDANCE MOUNTAIN SKI AREA	SUNDANCE	1
FREMONT				
WQD 81-874	5W32	ARAPAHOE POST AND EXCHANGE	ARAPAHOE	1
WYS 013-002	5W32	BOYSEN LAKE MARINA	SHOSHONI	1
WQD 80-448	5W32	FREMONT COUNTY YOUTH CAMP	LANDER	1
WYS 013-003	5W32	FREMONT VETERINARY HOSPITAL	SHOSHONI	1

*WQD 83-480	5W32	SOUTH PASS REST AREA, WYOMING HIGHWAY DEPT.	CHEYENNE	1
*WQD 80-32	5W32	UNIVERSITY OF MISSOURI FIELD CAMP	LANDER	1
WYS 013-005	5W32	WIND RIVER ANIMAL CLINIC	LANDER	1
WYS 013-006	5W32	WIND RIVER MOBILE HOME PARK	LANDER	1
WYS 013-008	5X28	H AND H BICO	RIVERTON	1
*WQD 82-403R	5X28	SOUTH PASS MAINTENANCE CAMP	CHEYENNE	1
GOSHEN				
*WQD 81-578RR	5W32	HUNTLEY SCHOOL	HUNTLEY	1
WYS 015-002	5W32	JAY EM CAMPGROUND	JAY EM	1
*WYS 015-003	5W32	LINGLE REST AREA	CHEYENNE	1
HOT SPRINGS				
*WQD 75-005	5W32	BLUE MESA TRAILER COURT	KIRBY	4
WQD 82-152R	5W32	LUCERNE ELEMENTARY SCHOOL	THERMOPOLIS	1
WQD 83-259	5X28	COPPER MOUNTAIN SALES	THERMOPOLIS	2
LARAMIE				
*WQD 77-389	5W32	BINGO TRUCK STOP	CHEYENNE	1
*WQD 81-328R	5W32	I-80 PORT OF ENTRY (Cheyenne south)	CHEYENNE	1
*WQD 82-563	5W32	US 85 PORT OF ENTRY (TERRY ROAD)	CHEYENNE	1
LINCOLN				
WQD 81-672RR	5W32	ALPINE JUNCTION PORT OF ENTRY	CHEYENNE	1
WYS 023-001	5W32	ASPEN CAMPGROUND	ALPINE	1
*WYS 023-005	5W32	UTAH POWER AND LIGHT	KEMMERER	1
WYS 023-006	5X28	CBS TRANSPORTATION	AFTON	1
WYS 023-008	5X28	LINCOLN COUNTY ROAD AND BRIDGE SHOP (AFTON)	AFTON	1
NATRONA				
WQD 79-156	5W32	ALBERT URBIGKIT SUBSURFACE DISPOSAL	CASPER	1
WQD 79-161	5W32	AMOCO PIPELINE COMPANY	CHICAGO	1
WQD 79-137	5W32	ANDERSON CONSTRUCTION	CASPER	1
*WQD 79-681	5W32	B. MOORE MOBILE HOME SPACES	CASPER	1
*WQD 79-310	5W32	BUSS PLUMBING	CASPER	1
WQD 79-695	5W32	CASPER BUILDING SYSTEMS INC.	CASPER	1
WYS 025-011	5W32	COUNTRY KITCHEN	CASPER	1
WYS 025-061	5W32	DEROWITSEH TRAILER COURT	CASPER	1
*WQD 79-016	5W32	FINN MCCARTHY SUBSURFACE DISPOSAL	CASPER	1
*WQD 79-183	5W32	GETTMAN TRAILER SYSTEM	CASPER	1

*WQD 79-014	5W32	GRAYSON BUILDING	CASPER	1
*WQD 79-008	5W32	HANSEN BUILDING SPECIALTIES	CASPER	1
*WQD 79-162	5W32	HICKS EQUIPMENT COMPANY BUILDING	CASPER	1
*WYS 025-025	5W32	HOOVER LUIZ LAND	CASPER	1
WQD 79-057	5W32	JIM HOWARD SUBSURFACE DISPOSAL	CASPER	1
WQD 79-043	5W32	MARTIN CLARK SUBSURFACE DISPOSAL	CASPER	1
WQD 80-043	5W32	MILLCHEM OFFICE AND WAREHOUSE		1
*WQD 80-635	5W32	NANIA DEVELOPMENT		1
WQD 80-002	5W32	NEWMILLER SUBDIVISION	CASPER	1
WQD 79-009	5W32	PACIFIC STEEL	CASPER	1
*WQD 79-465	5W32	PERCY MANNINGS RESTAURANT	CASPER	1
*WQD 79-309	5W32	PRIDE OIL FIELD SERVICE	CASPER	1
*WQD 79-660	5W32	SOUTHWEST POWER TOOL	CASPER	1
*WQD 79-247	5W32	TANNER-FREIBERG	CASPER	1
WYS 025-065	5W32	TRAILER COURT	CASPER	1
*WQD 79-184	5W32	TRUE DRILLING COMPANY - TRUCK SHOP	MILLS	1
WYS 025-106	5X28	AMOCO OIL COMPANY - SECOND AND MCKINLEY	CASPER	1
*WYS 025-069	5X28	CITY OF CASPER HOGADON DRAINFIELD	CASPER	1
*WYS 025-067	5X28	COMPRESSION LEASING SERVICES	CASPER	1
*WQD 80-240	5X28	DRILLCO BUILDING, ZERO ROAD	CASPER	1
*WQD 82-072	5X28	GREAT LAND DIRECTIONAL DRILLING	CASPER	1
*WQD 79-248	5X28	NATRONA COUNTY WEED AND PEST CONTROL DISTRICT	CASPER	1
WQD 79-009	5X28	PACIFIC STEEL	CASPER	1
WYS 025-077	5X28	SCHLUMBERGER WELL SERVICE	CASPER	1
WYS 025-022	5X28	VACANT FORMERLY HARPEL DRILLING SHOP	CASPER	1
*WQD 79-716	5X28	WEST YELLOWSTONE BUSINESS PARK	MILLS	0
NIOBRARA				
WYS 027-002	5W32	MULE CREEK JUNCTION TRUCK STOP	LUSK	1
PARK				
*WQD 81-942	5W32	CODY MEAT PACKING CO	CODY	1
WQD 80-344RR	5W32	CROSSED SABRES RANCH, INC.	WAPITI	1
*WYS 029-012	5W32	PET SET AND BLESSING VETERINARY CLINIC	CODY	1
WYS 029-016	5W32	WAPATI VALLEY INN CAMP	WAPITI	5
WYS 029-017	5X28	BJ SERVICES - POWELL	POWELL	1
*WQD 77-442	5X28	CODY LUMBER, INC.	CODY	1
*WYS 029-026	5X28	K AND K TREATER	CODY	1
*WYS 029-028	5X28	MINER OIL FIELD SERVICE	CODY	1
*WYS 029-031	5X28	PACIFIC POWER AND LIGHT, CODY DISTRICT OFFICE	CODY	1

*WQD 87-005	5X28	PAT O'HARA COMPANY	CODY	1
SHERIDAN				
*WQD 81-872	5W32	BIG GOOSE ANIMAL CLINIC	SHERIDAN	1
SUBLETTE				
WYS 035-002	5W31	OX YOKE ACRES MOBILE HOME PARK	BOULDER	20
WYS 035-001	5W32	HOBACK VILLAGE RESORT	BONDERONT	1
WYS 035-003	5W32	OX YOKE ACRES MOBILE HOME PARK	BOULDER	1
WYS 035-004	5W32	TRIANGLE F LODGE	BONDERANT	1
SWEETWATER				
*WQD 82-669	5W32	CHURCH AND DWIGHT	GREEN RIVER	1
WYS 037-002	5W32	CIGC DESERT SPRINGS COMPRESSOR STATION	COLORADO SPRINGS	1
WYS 037-003	5W32	CIGC TABLE ROCK PROCESSING PLANT	COLORADO SPRINGS	1
WYS 037-004	5W32	CIGC WAMSUTTER COMPRESSOR STATION	COLORADO SPRINGS	1
WYS 037-005	5W32	CIGC WAMSUTTER TRAILER PARK	COLORADO SPRINGS	1
*WYS 037-010	5X28	DELTA ELECTRIC INC.	ROCK SPRINGS	2
*WYS 037-031	5X28	GEORGE SEARLE	ROCK SPRINGS	1
*WYS 037-006	5X28	GRANGER MAINTENANCE CAMP	CHEYENNE	1
*WYS 037-015	5X28	K-MOTIVE	GREEN RIVER	1
*WYS 037-008	5X28	NOWCAM SERVICES POBOX 1086	ROCK SPRINGS	1
*WYS 037-029	5X28	WYOMING BEARING AND FABRICATION INC.	ROCK SPRINGS	1
TETON				
*WQD 88-331	5W32	GROS VENTRE RIVER RANCH LODGE	JACKSON	1
*WQD 89-499	5W32	JACKSON HOLE AIRPORT FIREFIGHTING BUILDING	JACKSON HOLE	1
*WQD 89-257R	5W32	JENNY LAKE LODGE	JACKSON	1
*WQD 87-304	5W32	MORAN JUNCTION SEEPAGE BED	MORAN	1
*WQD 87-304	5W32	MORAN JUNCTION SEPTIC TANK	MORAN JUNCTION	1
*WYS 039-006	5W32	RED TOP MEADOWS RESIDENTIAL TREATMENT CENTER	WILSON	1
*WQD 88-218	5W32	STEAK PUB RESTAURANT	JACKSON	1
*WQD 88-218	5W32	STEAK PUB RESTAURANT SEPTIC TANK	JACKSON	1
WQD 87-318	5W32	TETON PINES INTERIM WWTF EXPANSION	JACKSON	1
WYS 039-010	5W32	TETON VALLEY RANCH CAMP	KELLY	1
WQD 89-522	5W32	TRAILS END RANCH WWTP	JACKSON	1
*WQD 90-421	5W32	VISTA GRANDE WASTEWATER SYSTEM	JACKSON	1
WYS 039-023	5W32	YELLOWSTONE NATIONAL PARK	YELLOWSTONE	11
*WQD 90-340	5X28	JACKSON HOLE AIRPORT RENTAL CARWASH	JACKSON	1

UINTA				
WQD 79-489	5W32	NORTHERN NATURAL GAS CO.	OMAHA	1
WQD 77-047RR	5W32	UINTA COUNTY YOUTH CAMP	EVANSTON	1
WASHAKIE				
WYS 043-004	5X28	GENE REICHERT TRUCKING	WORLAND	1
WYS 043-012	5X28	WASHAKIE GARAGE	WORLAND	1
WYS 043-014	5X28	WORLAND MUNICIPAL AIRPORT	WORLAND	2
WESTON				
WYS 045-002	5X28	DIXON BROTHERS	NEWCASTLE	0

*** - Denotes injection facilities which were located as part of the location investigation activities (N=67).**

APPENDIX D

MSDE DATABASE FILE STRUCTURE AND FIELD DEFINITIONS

MSDE DATABASE FILE STRUCTURE

DATAFILE NAME: MSDE
51 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP	N.DEC	ALTERNATE NAME
1	WELLNUM	11	11	I	-	
12	SOURCE	30	30	C	-	
42	S_ADD	30	30	C	-	
72	S_CITY	15	15	C	-	
87	S_STATE	2	2	C	-	
89	S_ZIP	10	10	C	-	
99	S_PHONE	12	12	C	-	
111	S_CONTACT	30	30	C	-	
141	LAT	13	13	N	5	
154	LONG	14	14	N	5	
168	LL_METHOD	8	8	C	-	
176	LL_DATUM	2	2	I	-	
178	LL_SCALE	7	7	I	-	
185	LLDATE	8	10	D	-	
193	ENTITY	15	15	C	-	
208	ACCURACY	14	14	N	5	
222	ERROR	8	8	N	5	
230	ALTITUDE	8	8	N	1	
238	ALT_PT	1	1	C	-	
239	ALT_UNITS	2	2	C	-	
241	A_METHOD	1	1	C	-	
242	A_DATUM	1	1	C	-	
243	A_DATE	8	10	D	-	
251	ST_FIPS	2	2	I	-	
253	CT_FIPS	3	3	I	-	
256	PERMIT	15	15	C	-	
271	WELLUSE	2	2	I	-	
273	WELL_TYPE	6	6	C	-	
279	LOG_TYPE	1	1	C	-	
280	DEPTH	5	5	I	-	
285	D_UNITS	2	2	C	-	
287	D_TOP	7	7	N	1	
294	D_BOT	7	7	N	1	
301	DI_UNITS	2	2	C	-	
303	SCN	8	8	I	-	
311	S_DATE	8	10	D	-	
319	S_DEPTH	7	7	N	1	
326	S_UNITS	1	1	C	-	

327	S_TIME	7	7	C	-
334	W_DEPTH	7	7	N	1
341	W_UNITS	1	1	C	-
342	W_DATE	8	10	D	-
350	W_TIME	7	7	C	-
357	PARAMETER	5	5	I	-
362	P_CODE	1	1	C	-
363	ACV	7	7	C	-
370	ACV_UNITS	6	6	C	-
376	ACV_METHD	5	5	I	-
381	AR_QUAL	3	3	C	-
384	QAI_FLD	1	1	C	-
385	QAI_LAB	1	1	I	-

MSDE DATABASE FILE FIELD DESCRIPTORS

GENERAL DESCRIPTORS

WELLNUM	Well Identification Number (SSCCC######) where "S" is the state FIPS code; "C" is the county FIPS code; and "######" is a six digit assigned number.
SOURCE	Source Agency
S_ADD	Source Address
S_CITY	Source City
S_STATE	Source State
S_ZIP	Source 9-digit Zip Code
S_PHONE	Source Phone Number
S_CONTACT	Source Contact

GEOGRAPHIC DESCRIPTORS

LAT	Latitude
LONG	Longitude
LL_METHOD	Method used to Determine LAT & LONG. Input one of the Following:

SUR-GPS	surveyed using differential-mode GPS.
NAV-GPS	navigational-quality GPS.
SUR-C	cadastral survey
MAP	digital or manual interpolation from a map or photo.
LORAN-C	Loran-C navigation device.
ADDMAT	Address matching.
PHOTO-GM	Aerial photography.
SPCSCONV	State Plane conversion.
TSRCONV	Township/Range conversion
UTMCONV	UTM conversion.
PHOTORAW	Digital or manual raw photo extraction.
RMTSEN	Remote sensing.
ZIP	Zip code centroid.
UNKNOWN	Method unknown.

LL_DATUM Reference Datum. Input one of the Following:

83	North American Datum of 1983 (NAD 83)
27	North American Datum of 1927 (NAD 27)
05	World Geodetic System of 1984 (WGS 84)
10	World Geodetic System of 1972 (WGS 72)
15	Old Hawaiian Datum
20	Puerto Rico Datum
25	St. Paul Island Datum
30	St. George Island Datum
35	St. Lawrence Island Datum
40	Guam 1963

45 Wake-Eniwetok 1960
50 Midway Astro 1961
55 American Samoa Datum
60 Johnson Island 1961
00 Reference Datum not Specified

LL_SCALE Scale of Map ("X" value in the ratio 1:X)
LLDATE Date Long/Lat was determined (MM/DD/YY)
ENTITY Textual description of the entity to which the Long/Lat coordinates refer.
ACCURACY Accuracy of Long/Lat Coordinates expressed as +/-. Units remain consistent with LONG & LAT.
ERROR Error of the Accuracy (+/-).
ALTITUDE Altitude above or below the National Reference Datum
ALT_PT Measuring Point of Altitude. Enter one of the Following:

A Airline
C Top of well casing
K Kelly Bushing
L Land or ground surface
U Underground surface (e.g.,caves)

ALT_UNITS Units of Altitude Measure (F=feet or M=meters)
A_METHOD Method used to Determine Altitude. Enter one of the Following:

A Differential-mode GPS
B Absolute-mode GPS
C Surveyed from a benchmark
D Digitally interpolated from a map or photo.
E Manually interpolated from a map or photo.

A_DATUM National Reference Datum for Altitude Codes.
A_DATE Date Altitude Determined (MM/DD/YY)
ST_FIPS State FIPS Code
CT_FIPS County FIPS Code

WELL DESCRIPTORS

PERMIT Permit Number

WELLUSE Principal Use of Well. Enter one of the Following:

1	Public Water Supply Well
2	Community Supply Well
3	Non-community Supply Well
4	Industrial Supply Well
5	Recharge Well
6	Irrigation Well
7	RCRA Monitoring Well
8	Superfund Monitoring Well
9	Recovery Well
10	Remediation Well
11	Piezometer Well
12	Class I Injection Well
13	Class II Injection Well
14	Class III Injection Well
15	Class IV Injection Well
16	Class V Injection Well
17	Geophysical Well
18	Geothermal Well
19	Oil and Gas Well
20	Unknown

WELL_TYPE Type of Well (e.g., 5X28, 5W32).

LOG_TYPE Type of record-keeping log(s). Enter one of the Following:

A	Acoustic
C	Caliper
D	Driller's
E	Electrical
G	Geologist/Engineer
M	Multiple Types of Logs
R	Radioactive
T	Temperature
U	Unknown
V	Video

DEPTH Depth of Well at Completion.

D_UNITS Units of Depth Measure (F=feet or M=meters).

D_TOP Depth below the measuring point to the top of the open section.

D_BOT Depth below the measuring point to the bottom of the open section.

DI_UNITS Units D_TOP and D_BOT are measured (F=feet or M=meters).

SAMPLE DESCRIPTORS

SCN Sample Control Number
S_DATE Sample Date (MM/DD/YY)
S_DEPTH Sample Depth
S_UNITS Sample Depth Units
S_TIME Sample Time (####ZZZ) where "####" is the time based upon a 24-hour clock and ZZZ is the time zone. (e.g., 1635EST means 16:35 Eastern Standard Time).
W_DEPTH Depth to Water
W_UNITS Units used to measure W_DEPTH
W_DATE Date W_DEPTH was taken (MM/DD/YY)
W_TIME Time W_DEPTH was taken. Same format as S_TIME.
PARAMETER Constituent or Parameter Measured.
P_CODE Parameter code Source. Enter one of the Following:

S STORET parameter codes
C CAS number
O Other

ACV Analytical Concentration/Value
ACV_UNITS Analytical Concentration/Value Units
ACV_METHD Analytical Concentration/Value Method (US EPA code)
AR_QUAL Analytical Results Qualifier. Enter one of the Following:

ADL Above Detection Limits
BDL Below Detection Limits
BQK Below Quantitation Limits
FPS Failed Preliminary Screening
NSA Sample Not Suitable for Analysis
PNQ Present But Not Quantified

QAI_FLD Quality Assurance Indicator (Field Protocol Plan Code). Enter one of the Following:

A Resource Conservation and Recovery Act Field Program
B A detailed field sampling and preservation protocol plan that was developed by a certified laboratory or organization and approved by the responsible regulatory authority. Standard procedures and internal checks also exist.
C A detailed field sampling and preservation protocol plan that contains standard procedures and internal checks but has not

been approved by the responsible organization.

D No detailed field sampling protocol exists.

U Unknown

QAI_LAB Quality Assurance Indicator (Laboratory). Enter one of the Following:

1 The laboratory is certified by a state for all parameters reported or has had a state or EPA approved QA/QC evaluation within the last two year with a satisfactory rating.

2 Work conducted by an EPA Contract Laboratory Program lab.

3 Laboratory has a detailed QA/QC plan with standard procedures and internal checks. Neither the state nor EPA has verified or evaluated the procedures, but the objectives of the plan have been reported as being met.

4 Laboratory has a detailed QA/QC plan with standard procedures and internal checks, however, neither the state nor EPA has evaluated or verified the procedures.

5 No detailed laboratory QA/QC plan exists.

6 Unknown

APPENDIX E

CLASS1 DATABASE FILE STRUCTURE AND FIELD DEFINITIONS

CLASS1 DATABASE FILE STRUCTURE

DATAFILE NAME: CLASS1
228 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP	N.DEC	ALTERNATE NAME
1	WELLNUM	11	11	I	-	
12	INUPDATE	8	10	D	-	
20	REGION	2	2	I	-	
22	STATE	2	2	C	-	
24	COUNTY	3	3	I	-	
27	DISTRICT	20	20	C	-	
47	WELLID	30	30	C	-	
77	CLASS	1	1	I	-	
78	TYPECODE	1	1	C	-	
79	FIELDX	25	25	C	-	
104	PERMIT	15	15	C	-	
119	RULE	1	1	C	-	
120	API	10	10	I	-	
130	INDIAN	1	1	C	-	
131	FINDS	12	12	C	-	
143	FACID	30	30	C	-	
173	FEDERAL	1	1	C	-	
174	OWNERSHIP	2	2	C	-	
176	CFACILITY	1	1	C	-	
177	SOURCE	30	30	C	-	
207	METHOD	2	2	C	-	
209	ERROR	8	8	N	5	
217	LAT	13	13	N	5	
230	LONG	14	14	N	5	
244	Q4	2	2	C	-	
246	Q3	2	2	C	-	
248	Q2	2	2	C	-	
250	Q1	2	2	C	-	
252	SECTION	2	2	I	-	
254	TOWNSHIP	4	4	C	-	
258	RANGE	4	4	C	-	
262	WPA	1	1	C	-	
263	PWS	3	3	I	-	
266	LEGAL	2	2	C	-	
268	ONAME	30	30	C	-	
298	OORG	30	30	C	-	
328	OADDR	30	30	C	-	
358	OCITY	15	15	C	-	

373	OSTATE	2	2	C	-
375	OZIP	10	10	C	-
385	OPHONE	12	12	C	-
397	OCONTACT	30	30	C	-
427	DATEWELL	8	10	D	-
435	DATEIB	8	10	D	-
443	SURFACE	4	4	I	-
447	TDEPTH	5	5	I	-
452	PLUGBACK	5	5	I	-
457	TYPECON	2	2	C	-
459	PACKER	1	1	C	-
460	PACKERD	5	5	I	-
465	ANNULUS	2	2	C	-
467	SDIAMETER	7	7	N	3
474	SDEPTH	4	4	I	-
478	SGRADE	4	4	C	-
482	SCEMENTED	1	1	C	-
483	IDIAMETER	7	7	N	3
490	IDEPTH	4	4	I	-
494	IGRADE	4	4	C	-
498	ICEMENTED	1	1	C	-
499	LSDIAMETER	7	7	N	3
506	LSDEPTH	5	5	I	-
511	LSGRADE	4	4	C	-
515	LSCEMENTED	1	1	C	-
516	TDIAMETER	7	7	N	3
523	TUDEPTH	5	5	I	-
528	TGRADE	4	4	C	-
532	COMPLETET	2	2	C	-
534	AZONFROM	5	5	I	-
539	AZONETO	5	5	I	-
544	ACZONFRM	5	5	I	-
549	ACZONETO	5	5	I	-
554	BZONFROM	5	5	I	-
559	BZONETO	5	5	I	-
564	BCZONFRM	5	5	I	-
569	BCZONETO	5	5	I	-
574	IZLA	20	20	C	-
594	GNA	20	20	C	-
614	PA	4	4	I	-
618	EPA	3	3	I	-
621	FPA	4	4	I	-
625	IZLB	20	20	C	-
645	GNB	20	20	C	-
665	PB	4	4	I	-
669	EPB	3	3	I	-
672	FPB	4	4	I	-
676	CZLA	20	20	C	-
696	CZGNA	20	20	C	-
716	CZPA	4	4	I	-
720	CZEPA	3	3	I	-

723	CZFPA	4	4	I	-
727	CZLB	20	20	C	-
747	CZGNB	20	20	C	-
767	CZPB	4	4	I	-
771	CZEPB	3	3	I	-
774	CZFPB	4	4	I	-
778	OCZONEA	20	20	C	-
798	GNZONEA	20	20	C	-
818	TTZONEA	4	4	I	-
822	OCZONEB	20	20	C	-
842	CNZONEB	20	20	C	-
862	TTZONEB	4	4	I	-
866	AZONETOP	5	5	I	-
871	AZONEBOT	5	5	I	-
876	ANETFT	5	5	I	-
881	BZONETOP	5	5	I	-
886	BZONEBOT	5	5	I	-
891	BNETFT	5	5	I	-
896	INAME	20	20	C	-
916	ITOPDPTH	4	4	I	-
920	IBASDPTH	4	4	I	-
924	ITHICK	4	4	I	-
928	TDS	4	4	I	-
932	ITDS	4	4	I	-
936	DTDS	4	4	I	-
940	ACFR	1	1	C	-
941	BCFR	1	1	C	-
942	USDWNAME	20	20	C	-
962	USDWDPTH	4	4	I	-
966	USDWTHCK	4	4	I	-
970	USDWTDS	4	4	I	-
974	TDSMETHOD	2	2	C	-
976	USDWNAME2	20	20	C	-
996	USDWDTH2	4	4	I	-
1000	USDWTHK2	4	4	I	-
1004	USDWTDS2	4	4	I	-
1008	TDSMETHD2	2	2	C	-
1010	PTUPDATE	8	10	D	-
1018	APPNUM	12	12	I	-
1030	TYPEWELL	1	1	C	-
1031	WELLTYPE	1	1	C	-
1032	APWN	3	3	I	-
1035	APPDATE	8	10	D	-
1043	ISSUED	8	10	D	-
1051	EFFECTIVE	8	10	D	-
1059	TRDATE	8	10	D	-
1067	PNDATE	8	10	D	-
1075	PHDATE	8	10	D	-
1083	TERM	2	2	I	-
1085	EXPIRE	8	10	D	-
1093	DENIED	8	10	D	-

1101	WITHDRWN	8	10	D	-
1109	MODIFIED	8	10	D	-
1117	MODCODE	2	2	C	-
1119	IPRESS	4	4	I	-
1123	IRATE	4	4	I	-
1127	IPCODE	2	2	C	-
1129	FRCODE	2	2	C	-
1131	IVCODE	2	2	C	-
1133	AWAOR	4	4	I	-
1137	OWAOR	4	4	I	-
1141	DAWAOR	4	4	I	-
1145	DOWAOR	4	4	I	-
1149	CAWAOR	4	4	I	-
1153	COWAOR	4	4	I	-
1157	PAWAOR	4	4	I	-
1161	POWAOR	4	4	I	-
1165	RADIUS	7	7	N	1
1172	DATECA	8	10	D	-
1180	TYPECA	2	2	C	-
1182	DATECAC	8	10	D	-
1190	MITCODE	2	2	C	-
1192	TDCODE	3	3	C	-
1195	AMTCOV	6	6	I	-
1201	BCOVER	1	1	C	-
1202	NWBC	4	4	I	-
1206	DEMEXP	8	10	D	-
1214	DEMREV	8	10	D	-
1222	PLUGCOST	6	6	I	-
1228	GNAME	30	30	C	-
1258	GADDR	30	30	C	-
1288	GCITY	15	15	C	-
1303	GSTATE	2	2	C	-
1305	GZIP	10	10	C	-
1315	GPHONE	12	12	C	-
1327	IODATE	8	10	D	-
1335	DATEINSP	8	10	D	-
1343	TYPEINSP	2	2	C	-
1345	CRTIME	2	2	I	-
1347	COMPLAINT	20	20	C	-
1367	ERTIME	2	2	I	-
1369	EMERGENCY	20	20	C	-
1389	VIOLATION	1	1	C	-
1390	ACTION	2	2	C	-
1392	BPTCOMP	1	1	C	-
1393	BPRETEST	1	1	C	-
1394	DATEMIT	8	10	D	-
1402	RESULTMIT	1	1	C	-
1403	LASTCACT	8	10	D	-
1411	DATELTF	8	10	D	-
1419	DATELPT	8	10	D	-
1427	TYPELT	2	2	C	-

1429	DATEFMTF	8	10	D	-
1437	DATEFMTP	8	10	D	-
1445	TYPEFMT	2	2	C	-
1447	DATERA	8	10	D	-
1455	TYPERA	2	2	C	-
1457	OPSTATUS	2	2	I	-
1459	STATDATE	8	10	D	-
1467	ABANDATE	8	10	D	-
1475	IRMIN	3	3	I	-
1478	IRAVG	3	3	I	-
1481	IRMAX	3	3	I	-
1484	IPMIN	4	4	I	-
1488	IPAVG	4	4	I	-
1492	IPMAX	4	4	I	-
1496	APMIN	4	4	I	-
1500	APAVG	4	4	I	-
1504	APMAX	4	4	I	-
1508	VOLUME	6	6	I	-
1514	VOLUNIT	4	4	C	-
1518	FLTYPE	2	2	C	-
1520	ENUPDATE	8	10	D	-
1528	SNC	1	1	C	-
1529	LASTCR	8	10	D	-
1537	LCRESULT	1	1	C	-
1538	DATOCRD	8	10	D	-
1546	TYPEVRFD	2	2	C	-
1548	DATENOTE	8	10	D	-
1556	TYPENOTE	2	2	C	-
1558	DATEEAT	8	10	D	-
1566	TYPEEAT	8	8	C	-
1574	CSWRITE	1	1	C	-
1575	DATECR	8	10	D	-
1583	DATERET	8	10	D	-
1591	DATEASSED	8	10	D	-
1599	ASSESSED	6	6	I	-
1605	DATECOLL	8	10	D	-
1613	COLLECTED	6	6	I	-

CLASS1 DATABASE FILE FIELD DESCRIPTORS

INVENTORY: Part 1: Identification Information

WELLNUM	Well Identification Number
INUPDATE	Date Form Updated (Inventory)
REGION	Region *(1-10)*
STATE	State
COUNTY	County
DISTRICT	District
WELLID	Well Identifier
CLASS	Well Class
TYPECODE	Well Type
FIELDX	Field Name
PERMIT	Permit Number
RULE	Rule Authorized? *(Y/N)*
API	API Number
INDIAN	Indian Tribe? *(Y/N)*
FINDS	FINDS Number
FACID	Facility Identifier
FEDERAL	Federal Land? *(Y/N)*
OWNERSHIP	Ownership (code): *Private* *Federal* *Other*
CFACILITY	Commercial Facility? *(Y/N)*

INVENTORY: Part 2: Locational Information

SOURCE	Source/Agency
METHOD	Method of Collection (code): *Cadastral Survey* *Automated Address Matching* *Map Interpolation* *Remote Sensing Techniques* *Other*
ERROR	Error
LAT	Latitude
LONG	Longitude
Q4	Quarter, Quarter, Quarter, Quarter
Q3	Quarter, Quarter, Quarter
Q2	Quarter, Quarter
Q1	Quarter
SECTION	Section
TOWNSHIP	Township
RANGE	Range
WPA	Well Located in Wellhead Protection Area? *(Y/N)*

PWS	Number of Public Water Supply Wells Within AOR
LEGAL	Legal Contact (code): *Owner* *Operator*
ONAME	Name
OORG	Organization
OADDR	Address
OCITY	City
OSTATE	State
OZIP	Zip
OPHONE	Phone
OCONTACT	Contact Name

INVENTORY: Part 3: Construction Information

DATEWELL	Date Well Drilled
DATEIB	Date First Injection Began
SURFACE	Surface Elevation (feet)
TDEPTH	Total Depth (feet)
PLUGBACK	Plug Back Total Depth (feet)
TYPECON	Type of Construction (code): *Conventional Completion* *Unconventional Completion*
PACKER	Packer? *(Y/N)*
PACKERD	Packer Depth (feet)
ANNULUS	Annulus Fluid (code): *Brine* *Water* *Diesel Fuel* *Kerosene* *Oil* *Other*
SDIAMETER	Surface Casing Diameter (inches)
SDEPTH	Surface Depth (feet)
SGRADE	Surface Grade (code): *H40* *J55* *K55* *N80* *C75* *Other*
SCEMENTED	Surface Casing Cemented to Surface *(Y/N)*
IDIAMETER	Intermediate Casing Diameter (inches)
IDEPTH	Intermediate Casing Depth (feet)
IGRADE	Intermediate Casing Grade (code): *H40* *J55*

K55
N80
C75
Other

ICEMENTED	Intermediate Casing Cemented *(Y/N)*
LSDIAMETER	Long String Casing Diameter (inches)
LSDEPTH	Long String Casing Depth (feet)
LSGRADE	Long String Casing Grade (code):

H40
J55
K55
N80
C75
Other

LSCEMENTED	Long String Casing Cemented *(Y/N)*
TDIAMETER	Tubing Diameter (inches)
TDEPTH	Tubing Depth (feet)
TGRADE	Tubing Grade (code):

H40
J55
K55
N80
C75
Other

COMPLETET Completion Type (code):

Open Hole
Screened
Perforated
Combination

INVENTORY: Part 4: Geological Information

AZONFROM	Injection Zone From Zone A (feet)
AZONETO	Injection Zone To Zone A (feet)
ACZONFRM	Confining Zone From Zone A (feet)
ACZONETO	Confining Zone To Zone A (feet)
BZONFROM	Injection Zone From Zone B (feet)
BZONETO	Injection Zone To Zone B (feet)
BCZONFRM	Confining Zone From Zone B (feet)
BCZONETO	Confining Zone To Zone B (feet)
IZLA	Injection Zone A Lithology
GNA	Injection Zone A Geologic Name
PA	Injection Zone A Permeability (millidarcy units)
EPA	Injection Zone A Effective Porosity (%)
FPA	Injection Zone A Fracture Pressure (psig)
IZLB	Injection Zone B Lithology

GNB	Injection Zone B Geologic Name
PB	Injection Zone B Permeability (millidarcy units)
EPB	Injection Zone B Effective Porosity (%)
FPB	Injection Zone B Fracture Pressure (psig)
CZLA	Confining Zone A Lithology
CZGNA	Confining Zone A Geologic Name
CZPA	Confining Zone A Permeability (millidarcy units)
CZEPA	Confining Zone A Effective Porosity (%)
CZFPA	Confining Zone A Fracture Pressure (psig)
CZLB	Confining Zone B Lithology
CZGNB	Confining Zone B Geologic Name
CZPB	Confining Zone B Permeability (millidarcy units)
CZEPB	Confining Zone B Effective Porosity (%)
CZFPB	Confining Zone B Fracture Pressure (psig)
OCZONEA	Other Confining Zone A Lithology
GNZONEA	Other Confining Zone A Geologic Name
TTZONEA	Other Confining Zone A Total Thickness (feet)
OCZONEB	Other Confining Zone B Lithology
GNZONEB	Other Confining Zone B Geologic Name
TTZONEB	Other Confining Zone B Total Thickness (feet)
AZONETOP	Injection Interval Top Zone A (feet)
AZONEBOT	Injection Interval Bottom Zone A (feet)
ANETFT	Injection Interval Net Feet Zone A (feet)
BZONETOP	Injection Interval Top Zone B (feet)
BZONEBOT	Injection Interval Bottom Zone B (feet)
BNETFT	Injection Interval Net Feet Zone B (feet)

INVENTORY: Part 5: Hydrogeological Information

INAME	Lower Most USDW Name
ITOPDPTH	Lower Most USDW Top Depth (feet)
IBASDPTH	Lower Most USDW Base Depth (feet)
ITHICK	Lower Most USDW Thickness (feet)
TDS	Lower Most USDW TDS (mg/l)
ITDS	Intervening Thickness (feet)
DTDS	Depth of 3000 ppm TDS (feet)
ACFR	Injection Zone A an Exempted Aquifer (<40 CFR parts 144.7 & 146.4) *(Y/N)*
BCFR	Injection Zone B an Exempted Aquifer (<40 CFR parts 144.7 & 146.4) *(Y/N)*
USDWNAME	Other USDW Name Above Injection Zone
USDWDPTH	Other USDW Depth Above Injection Zone (feet)
USDWTHCK	Other USDW Thickness Above Injection Zone (feet)
USDWTDS	Other USDW TDS Above Injection Zone (mg/l)

TDSMETHOD	Method of Determining TDS Above Injection Zone (code): *Maps* *From R_w* *Log Calculation* *Analysis* *Estimated* *Other*
USDWNAME2	Other USDW Name Below Injection Zone
USDWDTH2	Other USDW Depth Below Injection Zone (feet)
USDWTHK2	Other USDW Thickness Below Injection Zone (feet)
USDWTDS2	Other USDW TDS Below Injection Zone (feet)
TDSMETHD2	Method of Determining TDS Below Injection Zone (code): *Maps* *From R_w* *Log Calculation* *Analysis* *Estimated* *Other*

PERMIT TRACKING

PTUPDATE	Date Form Updated (Permit Tracking)
APPNUM	Application Number
TYPEWELL	Type of Well Permit *(I/A)* *I (Individual)* *A (Area)*
WELLTYPE	Type of Well Permitted *(C/D)* *C (Converted)* *D (Newly-Drilled)*
APWN	Number of Wells Under an Area Permit
APPDATE	Application Date
ISSUED	Date Permit Issued
EFFECTIVE	Date Permit Effective
TRDATE	Technical Review Date
PNDATE	Public Notice Date
PHDATE	Public Hearing Date
TERM	Permit Term (years)
EXPIRE	Expiration Date
DENIED	Date Permit Denied
WITHDRWN	Date Withdrawn
MODIFIED	Date Permit Modified
MODCODE	Type of Permit Modification
IPRESS	Recorded Frequency Injection Pressure (code): *Hourly*

Daily
Weekly
Monthly
Other

IRATE	Injection Rate (gpm or bbls/day)
IPCODE	Injection Pressure (psig)
FRCODE	Recorded Frequency Flow Rate (code):
	Hourly
	Daily
	Weekly
	Monthly
	Other
IVCODE	Recorded Frequency Injection Volume
	Hourly
	Daily
	Weekly
	Monthly
	Other
AWAOR	Number of Abandoned Wells in AOR
OWAOR	Number of Other Wells in AOR
DAWAOR	Number of Abandoned Defective Wells in AOR
DOWAOR	Number of Other Defective Wells in Aor
CAWAOR	Number of Abandoned Wells in AOR Needing Corrective Action
COWAOR	Number of Other Wells in AOR Needing Corrective Action
PAWAOR	Number of Abandoned Wells Penetrating the Injection Zone in AOR
POWAOR	Number of Other Wells Penetrating the Injection Zone in AOR
RADIUS	Radius of AOR (miles)
DATECA	Date of Corrective Action
TYPECA	Type of Corrective Action (code):
	Casing/Cement
	Replugging
	Plugging/Abandonment
	Other
DATECAC	Date of Corrective Action Complete
MITCODE	Frequency of MIT Tests (code):
	Annually
	Semi-Annually
	Every 5 Years
	Other
TDCODE	Type of Demonstration (code):
	Trust Fund
	Surety Bond -guarantee payment

Surety Bond -guarantee plugging and abandonment
Letter of Credit
Financial Test & Corporate Guarantee
Collateral
Other

AMTCOV	Amount of Coverage ($)
BCOVER	Blanket Coverage *(Y/N)*
NWBC	Number of Blanket Wells Under Blanket Coverage
DEMEXP	Demonstration Expiration Date
DEMREV	Date Demonstration Last Reviewed
PLUGCOST	Estimated Plugging Cost ($)
GNAME	Guarantor Name
GADDR	Guarantor Address
GCITY	Guarantor City
GSTATE	Guarantor State
GZIP	Guarantor Zip Code
GPHONE	Guarantor Phone

INSPECTION AND OPERATION: Part 1: Inspections

IODATE	Date Form Updated (Inspection and Operation)
DATEINSP	Date of Inspection
TYPEINSP	Type of Inspection (code):

Routine/Periodic
Plugging Witnessed
Construction
MIT Witnessed
Pre-Operation
Compliance Verification
Complaint Response
Emergency Response
Other

CRTIME	Time Required for Complaint Response (days)
COMPLAINT	Complaint Resolution
ERTIME	Time Required for Emergency Response (days)
EMERGENCY	Emergency Resolution
VIOLATION	Violation Discovered/Present *(Y/N)*
ACTION	Action Taken (code):

Corrected on Site
Operator to Correct (non-violation)
Follow-up Inspection Scheduled
Referred to Enforcement
Other

INSPECTION AND OPERATION: Part 2: Mechanical Integrity Testing

BTPCOMP	Both Parts Test Complete? *(Y/N)*
BPRETEST	MIT Retest? *(Y/N)*
DATEMIT	Date of Last MIT
RESULTMIT	Last MIT Passed? *(Y/N)*
LASTCACT	Date of Last Corrective Action
DATELTF	Date of Failed Leak Test
DATELPT	Date of Passed Leak Test
TYPELT	Type of Leak Test (code): *Annulus Monitoring* *Casing/Tubing Pressure* *Monitoring Record Review* *Ada Test* *Other*
DATEFMTF	Date of Failed Fluid Migration Test
DATEFMTP	Date of Passed Fluid Migration Test
TYPEFMT	Type of Fluid Migration Test (code): *Cement Record Review* *Temperature/Noise Log* *Radioactive Tracer* *Other*
DATERA	Date of Remedial Action
TYPERA	Type of Remedial Action (code): *Casing/Tubing* *Tubing/Packer* *Plugging/Abandonment* *Shut-in* *Other*

INSPECTION AND OPERATION: Part 3: Operating Data

OPSTATUS	Operating Status (code): *Under Construction* *Active* *Temporarily Abandoned* *Permanently Abandoned (approved)* *Perminantly Abandoned (unapproved)* *Unknown* *Other*
STATDATE	Date Status Effective
ABANDATE	Date Plugged and Abandoned
IRMIN	Injection Rate Minimum (gpm or bbls/day)
IRAVG	Injection Rate Average (gpm or bbls/day)
IRMAX	Injection Rate Maximum (gpm or bbls/day)
IPMIN	Injection Pressure Minimum (psig)

IPAVG	Injection Pressure Average (psig)
IPMAX	Injection Pressure Maximum (psig)
APMIN	Annulus Pressure Minimum (psig)
APAVG	Annulus Pressure Average (psig)
APMAX	Annulus pressure Maximum (psig)
VOLUME	Annual Volume of Injected Fluid
VOLUNIT	Volume Measured in: (*gall* (gallons) or *bbls* (barrels)
FLTYPE	Fluid Type (code): *Salt Water* *Fresh Water* *Gas* *Other*

ENFORCEMENT/COMPLIANCE TRACKING

ENUPDATE	Date Form Updated (Enforcement/Compliance Tracking)
SNC	Yes/No?
LASTCR	Date of Last Compliance Review
LCRESULT	Compliance Review Results *(P/F)*
DATOCRD	Date Violation Occured or Verified
TYPEVRFD	Type of Violation (code): *Unauthorized Injection* *Mechanical Integrity* *Pressure and/or Rate* *Plugging and Abandonment* *Violation of Formal Order* *Falsification* *Operation and Maintance* *Other Permit Violation* *Casing and Cementing* *Monitoring and Reporting* *USDW Contaminated* *Financial Responsibility* *Other*
DATENOTE	Date Owner/Operator Notified
TYPENOTE	Type of Notification (code): *Letter/Notice of Violation* *Phone Call* *Field Visit* *Other*
DATEEAT	Date of Enforcement Action Taken
TYPEEAT	Type of Enforcement Action Taken (code): *Adminstrative Order (Agency Action):* *-Unilateral Order* *-Consent Order*

-Pipeline Severance
-Shut-in
-Other

Judicial Order (Court Order):
-Consent Decree
-Criminal Referral
-Civil Referral
-Other

Informal Enforcement Action:
-Notice of Violation
-Field Inspection
-Show Cause Meeting
-Consent Agreement
-Commense Bond Forfeiture
-Other

CSWRITE	Complaince Schedule Written? *(Y/N)*
DATECR	Date Complaince Required
DATERET	Date Returned to COmplaince
DATEASSED	Date Penalty Assessed
ASSESSED	Penalty Assessed ($)
DATECOLL	Date Penalty Collected
COLLECTED	Penalty Collected ($)

APPENDIX F

INJECTION FACILITY COVERAGE
NAMING CONVENTIONS AND FILE STRUCTURE

NAMING CONVENTIONS

Standard naming conventions were established for labeling coverages created within the GIS. Countywide point and polygon injection facility coverages were named using the full or abbreviated name of the county followed by an "underscore" (_) character and either a "pt01" or "py01" suffix, depending on whether the coverage contained point or polygon features. Names established for the section coverages were based on abbreviated representations of the sections' township/range legal descriptions, along with a one to three character suffix describing the type of features represented and the projection of the coverage. Finally, map composition files created within the GIS were named using the standard county or section representation, followed by a ".map" suffix (eg albany.map, t50r71s19.map). Listings follow of the countywide and section coverages created.

COUNTYWIDE COVERAGE NAMING CONVENTIONS

COUNTY NAME	POINT COVERAGE	POLYGON COVERAGE
Albany	albany_pt01	albany_py01
Big Horn	bighorn_pt01	
Campbell	campbell_pt01	campbell_py01
Carbon	carbon_pt01	carbon_py01
Converse	converse_pt01	converse_py01
Crook	crook_pt01	
Fremont	fremont_pt01	fremont_py01
Goshen	goshen_pt01	
Hot Springs	hsprings_pt01	
Johnson	johnson_pt01	johnson_py01
Laramie	laramie_pt01	
Lincoln	lincoln_pt01	
Natrona	natrona_pt01	natrona_py01
Niobrara	niobrara_pt01	
Park	park_pt01	
Platte	platte_pt01	
Sheridan	sheridan_pt01	
Sublette	sublette_pt01	
Sweetwater	swater_pt01	swater_py01
Teton	teton_pt01	
Uinta		
Washakie		
Weston	weston_pt01	

SECTION COVERAGE NAMING CONVENTIONS

CAMPBELL COUNTY

Section 19, T50 North, R71 West	t50r71s19...
Section 29, T50 North, R71 West	t50r71s29...
Section 30, T50 North, R71 West	t50r71s30...
Section 09, T50 North, R72 West	t50r72s9...
Section 24, T50 North, R72 West	t50r72s24...

NATRONA COUNTY

Section 04, T33 North, R78 West	t33r78s4...
Section 05, T33 North, R78 West	t33r78s5...
Section 06, T33 North, R78 West	t33r78s6...
Section 06, T33 North, R79 West	t33r79s6...
Section 02, T33 North, R80 West	t33r80s2...
Section 03, T33 North, R80 West	t33r80s3...
Section 20, T34 North, R79 West	t34r79s20...
Section 29, T34 North, R79 West	t34r79s29...
Section 32, T34 North, R79 West	t34r79s32...
Section 27, T34 North, R80 West	t34r80s27...
Section 28, T34 North, R80 West	t34r80s28...
Section 33, T34 North, R80 West	t34r80s33...
Section 34, T34 North, R80 West	t34r80s34...
Section 35, T34 North, R80 West	t34r80s35...

TETON COUNTY

Section 14, T41 North, R117 West	t41r117s14...

A one to three character suffix follows the township/range/section abbreviations (a = section lines; c = roads; d = lot lines; m = monitor wells; s = subdivision lines; w = injection wells). If one of the above letters is followed by a "pg", then the coverage has been projected with a geographic (lat/long) coordinate system (eg t34r80s35wpg). A "pu" at the end of a coverage name signifies a Universal Transverse Mercator (UTM) projection. The absence of any addition letters indicates that the coverage has not been projected and remains in digitizer units, in this case, inches.

COVERAGE FEATURE ATTRIBUTE FILE STRUCTURES

Listed below are examples of the INFO database file structure for the four different types of coverage feature attribute tables (FATs). Three of the FAT types are point coverages (ALBANY_PT01, T34R80S35WPG.PAT and T34R80S35MPG.PAT), while the fourth represents a polygon coverage. In addition to the default fields established by ARC/INFO, ALBANY_PT01.PAT and T34R80S35WPG.PAT contain a WELLNUM field, as well as fields representing the latitude and longitude of each point in the coverage: X-COORD, Y-COORD, DLONG, MLONG, SLONG, DLAT, MLAT, SLAT. T34R80S35MPG.PAT includes a PERMIT field and a monitor well identification field (MW_ID), in addition to fields representing latitude and longitude of monitor well locations. Polygon coverage FATs include fields for both WELLNUM and PERMIT.

SAMPLE FEATURE ATTRIBUTE TABLE STRUCTURE
FOR A COUNTY INJECTION FACILITY
POINT COVERAGE

DATAFILE NAME: ALBANY_PT01.PAT
13 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP	N.DEC	ALTERNATE NAME
1	AREA	8	18	F	5	
9	PERIMETER	8	18	F	5	
17	ALBANY_PT01#	4	5	B	-	
21	ALBANY_PT01-ID	4	5	B	-	
25	WELLNUM	11	11	I	-	
36	X-COORD	8	18	F	5	
44	Y-COORD	8	18	F	5	
52	DLONG	4	4	I	-	
56	MLONG	3	3	I	-	
59	SLONG	6	6	N	2	
65	DLAT	3	3	I	-	
68	MLAT	3	3	I	-	
71	SLAT	6	6	N	2	

SAMPLE FEATURE ATTRIBUTE TABLE STRUCTURE
FOR A COUNTY INJECTION FACILITY
POLYGON COVERAGE

DATAFILE NAME: ALBANY_PY01.PAT
6 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP	N.DEC	ALTERNATE NAME
1	AREA	8	18	F	5	
9	PERIMETER	8	18	F	5	
17	ALBANY_PY01#	4	5	B	-	
21	ALBANY_PY01-ID	4	5	B	-	
25	WELLNUM	11	11	I	-	
36	PERMIT	15	15	C	-	

SAMPLE FEATURE ATTRIBUTE TABLE STRUCTURE
FOR A SECTION-SPECIFIC INJECTION FACILITY
POINT COVERAGE

DATAFILE NAME: T34R80S35WPG.PAT
13 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP	N.DEC	ALTERNATE NAME
1	AREA	4	12	F	3	
5	PERIMETER	4	12	F	3	
9	T33R80S3WPG#	4	5	B	-	
13	T33R80S3WPG-ID	4	5	B	-	
17	WELLNUM	11	11	I	-	
28	X-COORD	4	12	F	3	
32	Y-COORD	4	12	F	3	
36	DLONG	4	4	I	-	
40	MLONG	3	3	I	-	
43	SLONG	6	6	N	2	
49	DLAT	3	3	I	-	
52	MLAT	3	3	I	-	
55	SLAT	6	6	N	2	

SAMPLE FEATURE ATTRIBUTE TABLE STRUCTURE
FOR A SECTION-SPECIFIC MONITOR WELL
POINT COVERAGE

DATAFILE NAME: T34R80S35MPG.PAT
14 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP	N.DEC	ALTERNATE NAME
1	AREA	4	12	F	3	
5	PERIMETER	4	12	F	3	
9	T34R80S35MPG#	4	5	B	-	
13	T34R80S35MPG-ID	4	5	B	-	
17	PERMIT	15	15	C	-	
32	MW_ID	8	8	C	-	
40	X-COORD	4	12	F	3	
44	Y-COORD	4	12	F	3	
48	DLONG	4	4	I	-	
52	MLONG	3	3	I	-	
55	SLONG	6	6	N	2	
61	DLAT	3	3	I	-	
64	MLAT	3	3	I	-	
67	SLAT	6	6	N	2	

COVERAGE DESCRIPTIONS

This section contains the output of an ARC/INFO "DESCRIBE" command run for each of the point and polygon coverages created for the injection well gis database. The information reported provides a detailed description of the feature contents of the geographic data set, including the number of features, coverage boundaries, coverage tolerances, coordinate system projection, and topology status.

COUNTY INJECTION FACILITY POINT COVERAGES

Description of DOUBLE precision coverage ALBANY PT01

ARCS
Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS
Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES
Nodes = 0
0 bytes of Node Attribute Data

POINTS
Label Points = 31
76 bytes of Point Attribute Data

TOLERANCES
Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES
Tics = 4
Links = 0

COVERAGE BOUNDARY
Xmin = -106.140
Xmax = -105.362
Ymin = 41.286
Ymax = 41.768

STATUS
The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION
Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage BIGHORN PT01

ARCS
Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS
Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES
Nodes = 0
0 bytes of Node Attribute Data

POINTS
Label Points = 2
76 bytes of Point Attribute Data

TOLERANCES
Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES
Tics = 4
Links = 0

COVERAGE BOUNDARY
Xmin = -108.617
Xmax = -108.434
Ymin = 44.451
Ymax = 44.969

STATUS
The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION
Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage CAMPBELL PT01

ARCS
Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS
Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES
Nodes = 0
0 bytes of Node Attribute Data

POINTS
Label Points = 86
76 bytes of Point Attribute Data

TOLERANCES
Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES
Tics = 4
Links = 0

COVERAGE BOUNDARY
Xmin = -105.932
Xmax = -105.176
Ymin = 43.717
Ymax = 44.842

STATUS
The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION
Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage CARBON_PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 9
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -106.558
Xmax = -106.286
Ymin = 41.346
Ymax = 41.847

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage CROOK_PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 10
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -104.946
Xmax = -104.150
Ymin = 44.256
Ymax = 44.869

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage FREMONT_PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 18
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -108.903
Xmax = -107.726
Ymin = 42.369
Ymax = 43.185

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage GOSHEN PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 5
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -104.555
Xmax = -104.147
Ymin = 41.928
Ymax = 42.201

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage HSPRINGS PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 6
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -108.316
Xmax = -108.173
Ymin = 43.638
Ymax = 43.808

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage JOHNSON PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 7
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -106.957
Xmax = -106.040
Ymin = 43.592
Ymax = 44.343

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage LARAMIE PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 48
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -104.926
Xmax = -104.068
Ymin = 41.059
Ymax = 41.219

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage LINCOLN PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 12
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -111.009
Xmax = -110.563
Ymin = 41.586
Ymax = 43.031

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage NATRONA PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 62
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -107.501
Xmax = -106.164
Ymin = 42.557
Ymax = 43.374

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage NIOBRARA PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 1
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -104.487
Xmax = -104.487
Ymin = 42.748
Ymax = 42.748

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage PARK PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 50
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -110.692
Xmax = -108.752
Ymin = 44.457
Ymax = 44.887

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage PLATTE PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 1
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -104.728
Xmax = -104.728
Ymin = 42.267
Ymax = 42.267

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage SHERIDAN PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 13
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -107.234
Xmax = -106.928
Ymin = 44.771
Ymax = 44.815

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage SUBLETTE PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 5
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -109.859
Xmax = -109.859
Ymin = 42.871
Ymax = 42.871

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage SWATER PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 35
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -109.981
Xmax = -107.900
Ymin = 41.545
Ymax = 42.127

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD
Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage TETON PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 52
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -110.847
Xmax = -110.397
Ymin = 43.314
Ymax = 44.280

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage WESTON PT01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 5
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -105.048
Xmax = -104.397
Ymin = 43.967
Ymax = 44.092

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

COUNTY INJECTION FACILITY POLYGON COVERAGES

Description of DOUBLE precision coverage ALBANY PY01

ARCS

Arcs = 1
Segments = 13
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 2
Polygon Topology is present.
50 bytes of Polygon Attribute Data

NODES

Nodes = 1
0 bytes of Node Attribute Data

POINTS

Label Points = 1

TOLERANCES

Fuzzy = 0.002 V
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 493
Links = 0

COVERAGE BOUNDARY

Xmin = -105.606
Xmax = -105.601
Ymin = 41.293
Ymax = 41.300

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage CAMPBELL PY01

ARCS

Arcs = 13
Segments = 91
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 9
Polygon Topology is present.
50 bytes of Polygon Attribute Data

NODES

Nodes = 13
0 bytes of Node Attribute Data

POINTS

Label Points = 8

TOLERANCES

Fuzzy = 0.000 V
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 493
Links = 0

COVERAGE BOUNDARY

Xmin = -106.109
Xmax = -105.331
Ymin = 43.653
Ymax = 44.156

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage CARBON PY01

ARCS

Arcs = 6
Segments = 24
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 7
Polygon Topology is present.
50 bytes of Polygon Attribute Data

NODES

Nodes = 6
0 bytes of Node Attribute Data

POINTS

Label Points = 6

TOLERANCES

Fuzzy = 0.002 V
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 493
Links = 0

COVERAGE BOUNDARY

Xmin = -106.577
Xmax = -106.171
Ymin = 41.861
Ymax = 42.376

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage CONVERSE PY01

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 10
76 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -106.063
Xmax = -105.190
Ymin = 42.657
Ymax = 43.137

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage FREMONT PY01

ARCS

Arcs = 2
Segments = 39
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 3
Polygon Topology is present.
50 bytes of Polygon Attribute Data

NODES

Nodes = 2
0 bytes of Node Attribute Data

POINTS

Label Points = 2

TOLERANCES

Fuzzy = 0.002 V
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 493
Links = 0

COVERAGE BOUNDARY

Xmin = -108.362
Xmax = -107.603
Ymin = 42.277
Ymax = 42.843

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage JOHNSON PY01

ARCS

Arcs = 3
Segments = 56
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 4
Polygon Topology is present.
50 bytes of Polygon Attribute Data

NODES

Nodes = 3
0 bytes of Node Attribute Data

POINTS

Label Points = 4

TOLERANCES

Fuzzy = 0.002 V
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 493
Links = 0

COVERAGE BOUNDARY

Xmin = -106.145
Xmax = -105.980
Ymin = 43.581
Ymax = 43.908

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage NATRONA PY01

ARCS

Arcs = 1
Segments = 4
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 2
Polygon Topology is present.
50 bytes of Polygon Attribute Data

NODES

Nodes = 1
0 bytes of Node Attribute Data

POINTS

Label Points = 1

TOLERANCES

Fuzzy = 0.002 V
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 493
Links = 0

COVERAGE BOUNDARY

Xmin = -106.214
Xmax = -106.194
Ymin = 43.414
Ymax = 43.443

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

Description of DOUBLE precision coverage SWATER PY01

ARCS

Arcs = 22
Segments = 140
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 17
Polygon Topology is present.
50 bytes of Polygon Attribute Data

NODES

Nodes = 18
0 bytes of Node Attribute Data

POINTS

Label Points = 16

TOLERANCES

Fuzzy = 0.002 V
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 493
Links = 0

COVERAGE BOUNDARY

Xmin = -109.943
Xmax = -109.192
Ymin = 41.360
Ymax = 41.735

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866
Parameters:

SECTION-SPECIFIC INJECTION FACILITY POINT COVERAGES

Description of SINGLE precision coverage T50R71S19WPG

ARCS
Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS
Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES
Nodes = 0
0 bytes of Node Attribute Data

POINTS
Label Points = 0
36 bytes of Point Attribute Data

TOLERANCES
Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES
Tics = 15
Links = 0

COVERAGE BOUNDARY
Xmin = 0.9998999757492E+36
Xmax = -0.9998999757492E+36
Ymin = 0.9998999757492E+36
Ymax = -0.9998999757492E+36

STATUS
The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION
Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T50R71S29WPG

ARCS
Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS
Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES
Nodes = 0
0 bytes of Node Attribute Data

POINTS
Label Points = 1
60 bytes of Point Attribute Data

TOLERANCES
Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES
Tics = 15
Links = 0

COVERAGE BOUNDARY
Xmin = -105.425
Xmax = -105.425
Ymin = 44.286
Ymax = 44.286

STATUS
The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION
Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T50R71S30WPG

ARCS
Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS
Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES
Nodes = 0
0 bytes of Node Attribute Data

POINTS
Label Points = 5
60 bytes of Point Attribute Data

TOLERANCES
Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES
Tics = 15
Links = 0

COVERAGE BOUNDARY
Xmin = -105.446
Xmax = -105.442
Ymin = 44.288
Ymax = 44.291

STATUS
The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION
Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T50R72S9WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 7
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 15
Links = 0

COVERAGE BOUNDARY

Xmin = -105.528
Xmax = -105.522
Ymin = 44.321
Ymax = 44.328

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T50R72S24WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 17
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 15
Links = 0

COVERAGE BOUNDARY

Xmin = -105.468
Xmax = -105.449
Ymin = 44.290
Ymax = 44.298

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T33R78S4WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 0
36 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = 0.9998999757492E+36
Xmax = -0.9998999757492E+36
Ymin = 0.9998999757492E+36
Ymax = -0.9998999757492E+36

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T33R78S5WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 3
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.235
Xmax = -106.225
Ymin = 42.853
Ymax = 42.861

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T33R78S6WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 31
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.262
Xmax = -106.245
Ymin = 42.855
Ymax = 42.864

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T33R79S6WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 14
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.369
Xmax = -106.363
Ymin = 42.854
Ymax = 42.857

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T33R80S2WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 3
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.414
Xmax = -106.395
Ymin = 42.857
Ymax = 42.862

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T33R80S3WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 9
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.432
Xmax = -106.416
Ymin = 42.858
Ymax = 42.862

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R79S20WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 20
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.354
Xmax = -106.334
Ymin = 42.893
Ymax = 42.899

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R79S29WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 8
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.354
Xmax = -106.346
Ymin = 42.880
Ymax = 42.892

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R79S32WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 54
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.355
Xmax = -106.345
Ymin = 42.867
Ymax = 42.877

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R80S27WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 19
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.434
Xmax = -106.420
Ymin = 42.878
Ymax = 42.881

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R80S28WPG

ARCS | **POLYGONS**

Arcs = 0 | Polygons = 0
Segments = 0 | There is NO Polygon Topology.
0 bytes of Arc Attribute Data | 0 bytes of Polygon Attribute Data

NODES | **POINTS**

Nodes = 0 | Label Points = 19
0 bytes of Node Attribute Data | 60 bytes of Point Attribute Data

TOLERANCES | **SECONDARY FEATURES**

Fuzzy = 0.000 N | Tics = 33
Dangle = 0.000 N | Links = 0

COVERAGE BOUNDARY

Xmin = -106.445 | Ymin = 42.878
Xmax = -106.435 | Ymax = 42.891

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD | Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R80S33WPG

ARCS | **POLYGONS**

Arcs = 0 | Polygons = 0
Segments = 0 | There is NO Polygon Topology.
0 bytes of Arc Attribute Data | 0 bytes of Polygon Attribute Data

NODES | **POINTS**

Nodes = 0 | Label Points = 3
0 bytes of Node Attribute Data | 60 bytes of Point Attribute Data

TOLERANCES | **SECONDARY FEATURES**

Fuzzy = 0.000 N | Tics = 33
Dangle = 0.000 N | Links = 0

COVERAGE BOUNDARY

Xmin = -106.448 | Ymin = 42.872
Xmax = -106.434 | Ymax = 42.878

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD | Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R80S34WPG

ARCS | **POLYGONS**

Arcs = 0 | Polygons = 0
Segments = 0 | There is NO Polygon Topology.
0 bytes of Arc Attribute Data | 0 bytes of Polygon Attribute Data

NODES | **POINTS**

Nodes = 0 | Label Points = 68
0 bytes of Node Attribute Data | 60 bytes of Point Attribute Data

TOLERANCES | **SECONDARY FEATURES**

Fuzzy = 0.000 N | Tics = 33
Dangle = 0.000 N | Links = 0

COVERAGE BOUNDARY

Xmin = -106.434 | Ymin = 42.864
Xmax = -106.416 | Ymax = 42.878

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD | Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R80S35WPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 5
60 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.411
Xmax = -106.403
Ymin = 42.864
Ymax = 42.868

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

SECTION-SPECIFIC MONITOR WELL POINT COVERAGES

Description of SINGLE precision coverage T33R78S5MPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 25
72 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.234
Xmax = -106.220
Ymin = 42.855
Ymax = 42.864

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T33R78S6MPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 79
72 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.264
Xmax = -106.246
Ymin = 42.854
Ymax = 42.865

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T33R80S3MPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 8
72 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.419
Xmax = -106.417
Ymin = 42.857
Ymax = 42.861

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R79S20MPG

ARCS | **POLYGONS**

Arcs = 0 | Polygons = 0
Segments = 0 | There is NO Polygon Topology.
0 bytes of Arc Attribute Data | 0 bytes of Polygon Attribute Data

NODES | **POINTS**

Nodes = 0 | Label Points = 8
0 bytes of Node Attribute Data | 72 bytes of Point Attribute Data

TOLERANCES | **SECONDARY FEATURES**

Fuzzy = 0.000 N | Tics = 33
Dangle = 0.000 N | Links = 0

COVERAGE BOUNDARY

Xmin = -106.335 | Ymin = 42.895
Xmax = -106.332 | Ymax = 42.895

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD | Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R79S32MPG

ARCS | **POLYGONS**

Arcs = 0 | Polygons = 0
Segments = 0 | There is NO Polygon Topology.
0 bytes of Arc Attribute Data | 0 bytes of Polygon Attribute Data

NODES | **POINTS**

Nodes = 0 | Label Points = 3
0 bytes of Node Attribute Data | 72 bytes of Point Attribute Data

TOLERANCES | **SECONDARY FEATURES**

Fuzzy = 0.000 N | Tics = 33
Dangle = 0.000 N | Links = 0

COVERAGE BOUNDARY

Xmin = -106.350 | Ymin = 42.869
Xmax = -106.350 | Ymax = 42.870

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD | Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R80S28MPG

ARCS | **POLYGONS**

Arcs = 0 | Polygons = 0
Segments = 0 | There is NO Polygon Topology.
0 bytes of Arc Attribute Data | 0 bytes of Polygon Attribute Data

NODES | **POINTS**

Nodes = 0 | Label Points = 3
0 bytes of Node Attribute Data | 72 bytes of Point Attribute Data

TOLERANCES | **SECONDARY FEATURES**

Fuzzy = 0.000 N | Tics = 33
Dangle = 0.000 N | Links = 0

COVERAGE BOUNDARY

Xmin = -106.437 | Ymin = 42.879
Xmax = -106.436 | Ymax = 42.880

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD | Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R80S34MPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 25
72 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.432
Xmax = -106.420
Ymin = 42.863
Ymax = 42.878

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

Description of SINGLE precision coverage T34R80S35MPG

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 4
72 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 33
Links = 0

COVERAGE BOUNDARY

Xmin = -106.406
Xmax = -106.405
Ymin = 42.864
Ymax = 42.864

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD
Spheroid CLARKE1866
Parameters:

APPENDIX G

INJECTION FACILITY COVERAGE RECORDS

COUNTY INJECTION FACILITY POINT COVERAGES

ALBANY PT01.PAT

31 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56001000001	WQD 91-197	AMERICAN HERITAGE ART MUSEUM, U.W.	-105	33	59.36	41	18	50.27
56001000002	WQD 91-197	AMERICAN HERITAGE ART MUSEUM, U.W.	-105	33	59.36	41	18	50.23
56001000003	WQD 91-197	AMERICAN HERITAGE ART MUSEUM, U.W.	-105	33	59.36	41	18	50.23
56001000004	UIC 90-263	AMOCO OIL COMPANY - LARAMIE REFINERY SITE	-105	36	14.50	41	19	23.39
56001000005	UIC 90-263	AMOCO OIL COMPANY - LARAMIE REFINERY SITE	-105	36	14.50	41	19	23.39
56001000006	UIC 90-263	AMOCO OIL COMPANY - LARAMIE REFINERY SITE	-105	36	13.99	41	19	23.39
56001000007	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000008	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000009	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000010	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000011	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000012	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000013	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000014	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000015	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000016	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.85	41	18	18.33
56001000017	WYS 001-001	BAR B TRAILER RANCH	-105	37	42.79	41	18	18.33
56001000018	WQD 86-261	BLACK FOOTED FERRET CAPTIVE BREEDING FACILITY	-105	21	44.91	41	46	5.77
56001000019	WYS 001-002	BREES FIELD	-105	40	11.60	41	19	3.90
56001000021	UIC 83-638	EBERHART STREET DRAINAGE SYSTEM	-105	37	57.91	41	18	27.05
56001000022	UIC 83-638	EBERHART STREET DRAINAGE SYSTEM	-105	37	57.02	41	18	27.45
56001000023	UIC 83-638	EBERHART STREET DRAINAGE SYSTEM	-105	37	56.13	41	18	27.94
56001000024	WYS 001-004	FRIENDLY STORE, MOTEL AND BAR	-106	8	22.40	41	17	50.41
56001000026	UIC 89-111	KIWANIS PARK DRAINAGE WELL	-105	37	38.49	41	18	57.82
56001000027	WQD 81-266	LARAMIE CHROME PLATING	-105	35	24.21	41	17	28.77
56001000028	WQD 86-137	LARAMIE COUNTRY CLUB SEWERAGE IMPROVEMENTS	-105	40	2.95	41	17	8.81
56001000029	UIC 85-616	LINFORD SCHOOL DRAINAGE WELL	-105	37	34.66	41	18	46.71
56001000030	WYS 001-008	M AND X INC.	-105	37	1.35	41	19	41.20
56001000031	WYS 001-006	MOUNTAIN VIEW MOBILE HOME PARK	-105	37	23.72	41	19	4.56
56001000032	WYS 001-006	MOUNTAIN VIEW MOBILE HOME PARK	-105	37	23.72	41	19	4.56
56001000041	UIC 88-465	WYOMING TERRITORIAL PRISON HEAT PUMP	-105	36	30.67	41	18	44.99

BIGHORN PT01.PAT

2 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56003000003	WQD 87-013	BURLINGTON SCHOOLS CORE FACILITY	-108	26	2.06	44	27	3.39
56003000006	UIC 90-427	TOWN OF FRANNIE	-108	37	0.99	44	58	10.06

CAMPBELL PT01.PAT
86 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56005000002	WYS 005-016	BELL AND MOONEY INC.	-105	31	45.64	44	19	29.19
56005000003	WQD 83-535	BELL AYR MINE SEWAGE SYSTEM	-105	21	42.43	44	5	55.85
56005000004	UIC 91-226	BELLE AYR COAL MINE DIESEL REMEDIATION	-105	21	41.21	44	5	57.07
56005000005	WYS 005-002	BIG W TRAILER COURT	-105	31	42.25	44	18	34.35
56005000006	WYS 005-002	BIG W TRAILER COURT	-105	31	42.25	44	18	34.35
56005000007	WYS 005-017	BJ SERVICES - GILLETTE	-105	28	50.50	44	17	27.30
56005000008	WYS 005-019	BRUCE'S AUTO	-105	26	31.83	44	17	27.92
56005000009	WYS 005-063	BUNDY ELECTRIC INC.	-105	27	32.99	44	17	38.50
56005000010	WQD 83-482	BUTLER TRAILER COURT	-105	31	47.44	44	18	38.90
56005000011	WYS 005-020	C AND H WELL SERVICING	-105	28	59.37	44	14	11.50
56005000012	UIC 89-198	C-H MINNELUSA UNIT WI #6	-105	13	55.48	44	30	58.95
56005000018	WYS 005-021	CARL'S WATER	-105	30	9.80	44	18	17.56
56005000019	WYS 005-015	CENTRAL HYDRAULIC, INC.	-105	27	32.55	44	17	39.39
56005000021	WQD 79-558	CHRYSLER BUILDING, NEWTON INDUSTRIAL PARK	-105	31	30.66	44	17	18.68
56005000053	WYS 005-003	COTTONTAIL TRAILER COURT	-105	26	55.20	44	18	20.29
56005000054	WYS 005-022	CRAIG'S ENGINE SERVICE	-105	32	6.11	44	23	8.93
56005000055	WYS 005-023	CREATIVE CONSTRUCTION	-105	28	16.15	44	14	13.75
56005000056	WYS 005-064	CROWN AUTO PARTS STORE	-105	31	47.05	44	18	34.35
56005000057	WYS 005-062	CUMMINS POWER, INC.	-105	31	46.53	44	18	32.15
56005000058	WYS 005-024	D AND S CASING	-105	27	12.51	44	17	24.25
56005000059	WYS 005-004	DIAMOND MOBILE HOME PARK	-105	27	5.66	44	17	26.86
56005000060	WYS 005-004	DIAMOND MOBILE HOME PARK	-105	27	5.78	44	17	26.99
56005000061	WYS 005-004	DIAMOND MOBILE HOME PARK	-105	27	5.66	44	17	26.99
56005000062	WYS 005-004	DIAMOND MOBILE HOME PARK	-105	27	5.66	44	17	27.11
56005000063	WYS 005-025	DIVIS OIL	-105	26	24.10	44	17	28.13
56005000064	WYS 005-026	EXETER	-105	26	59.15	44	17	32.92
56005000065	WYS 005-027	FAIRMONT EQUIPMENT SERVICE DIVISION	-105	31	30.65	44	17	18.80
56005000066	WYS 005-028	FLINT ENGINEERING AND CONSTRUCTION	-105	33	2.92	44	17	49.09
56005000067	WYS 005-030	FRANKS REFIGERATION	-105	32	43.32	44	15	17.44
56005000068	WQD 83-687	FRONTIER BOWL	-105	28	4.33	44	14	29.44
56005000069	WYS 005-031	GILLETTE RADIATOR	-105	28	12.87	44	14	17.85
56005000070	WYS 005-032	HAHN WELDING	-105	27	29.10	44	17	29.13
56005000071	WYS 005-005	HITCHING POST TRAILER COURT	-105	28	48.62	44	14	56.54
56005000072	WYS 005-033	HLADKY CONSTRUCTION IND.	-105	29	11.26	44	18	26.66
56005000081	WQD 89-153	HOMCO INTERNATIONAL, INC. - GILLETTE	-105	29	32.92	44	16	20.52
56005000082	WYS 005-006	HOY MOBILE HOME PARK	-105	31	15.38	44	20	24.48
56005000083	WYS 005-006	HOY MOBILE HOME PARK	-105	31	15.20	44	20	24.48
56005000084	WYS 005-029	INTERSTATE AUTO AUCTION	-105	31	27.61	44	16	50.25
56005000085	WYS 005-034	J AND M ENTERPRISES	-105	27	32.95	44	17	37.57
56005000086	WYS 005-007	JOHN HENRY'S COUNTRY KENNEL	-105	21	50.21	44	17	4.10
56005000087	WYS 005-008	JONES MOBILE HOME PARK	-105	31	35.00	44	20	45.77
56005000088	WYS 005-008	JONES MOBILE HOME PARK	-105	31	35.00	44	20	45.77
56005000089	WYS 005-035	KAMAN BEARING (FORMERLY JR CONSTRUCTION)	-105	27	15.91	44	17	37.33
56005000090	UIC 91-264	KISSACK - WDW 31-25	-105	12	55.02	44	22	53.29
56005000092	UIC 91-046	KISSACK WATER DISPOSAL WELL 1	-105	11	7.31	44	18	41.45

56005000093	WYS 005-037	LEROYS AUTO REPAIR/HARRIS AUTO SALVAGE	-105	31	29.58	44	19	34.42
56005000094	WYS 005-038	LIPPERT WELDING SERVICE	-105	25	25.34	44	17	8.68
56005000095	WQD 75-183R	LITTLE POWDER ELEMENTARY SCHOOL	-105	22	11.16	44	50	32.37
56005000096	WYS 005-039	MCKILLOP CONSTRUCTION	-105	28	42.76	44	14	27.77
56005000097	WYS 005-009	MORGAN TRAILER COURT	-105	27	15.07	44	6	37.02
56005000098	UIC 87-457	MORSE RANCH UNIT #4 INJECTION WELL	-105	35	36.18	44	46	41.81
56005000099	WYS 005-061	NATIONAL OILWELL	-105	29	39.67	44	15	54.17
56005000100	WYS 005-040	NEALS' RADIATOR REPAIR	-105	20	29.92	44	17	9.02
56005000101	WQD 80-271	NEPSTAD 6-PLEX APARTMENTS	-105	29	50.34	44	15	27.04
56005000103	WYS 005-041	NORTHEAST WYOMING VO-TECH	-105	31	44.34	44	19	37.03
56005000104	WYS 005-042	NORTHERN PRODUCTION COMPANY	-105	29	43.86	44	15	44.72
56005000105	UIC 87-339	OLSEN NUMBER 1-A	-105	22	13.43	44	14	7.35
56005000106	WYS 005-043	PERFORATING SERVICES INC.	-105	27	12.12	44	17	34.57
56005000107	WYS 005-044	POOL COMPANY	-105	31	52.55	44	19	30.87
56005000108	WYS 005-045	PRECISION WELL SERVICE	-105	27	26.29	44	17	28.56
56005000109	WYS 005-046	PSI REPAIR SERVICE	-105	31	29.02	44	19	25.82
56005000110	WYS 005-047	RE NEW CO	-105	20	29.92	44	17	2.85
56005000112	WYS 005-048	RELIANCE ELECTRIC COMPANY	-105	29	29.01	44	16	5.45
56005000113	WQD 81-338R	RENO JUNCTION MAINTENANCE CAMP, WYOMING HIGHWAY DEPT.	-105	28	37.64	43	42	59.93
56005000119	WQD 81-794RR	RUGER MOBILE HOME PARK	-105	12	17.17	44	16	35.88
56005000120	WYS 005-050	S AND M CONSTRUCTION	-105	31	19.68	44	19	40.77
56005000121	WYS 005-051	SCHLUMBERGER	-105	28	19.03	44	17	40.65
56005000122	WYS 005-052	SCHWANS SALES ENTERPRISES	-105	31	28.83	44	19	23.58
56005000123	WYS 005-053	SHEESLEY WYOMING INC.	-105	31	30.75	44	17	0.23
56005000124	UIC 87-380	SHELL FOX #1	-105	10	35.01	44	19	14.16
56005000125	WYS 005-054	SIMONS ENTERPRISES	-105	26	31.46	44	18	35.07
56005000126	WYS 005-013	STROUPS TRAILER COURT	-105	28	31.73	44	14	55.07
56005000127	WYS 005-013	STROUPS TRAILER COURT	-105	28	31.71	44	14	55.06
56005000128	WYS 005-055	SUN CEMENTING OF WYOMING INC.	-105	32	32.28	44	17	50.86
56005000154	WYS 005-057	TIORCO / POLEDUC ;two separate corporations;	-105	27	28.14	44	17	39.74
56005000155	WQD 83-633	TRI-STATE INSULATING INC.	-105	28	19.03	44	17	52.45
56005000156	WYS 005-057	TRICOUNTY ELECTRIC ASSOCIATION INC.	-105	26	59.16	44	17	34.57
56005000157	WYS 005-056	VACANT, IN REPOSESSION BY SBA	-105	29	18.41	44	15	4.69
56005000158	WYS OO5-010	VACANT, OWNED BY WIDC	-105	26	53.25	44	17	28.35
56005000159	WYS 005-058	WESTERN SLING AND SUPPLY COMPANY	-105	31	37.99	44	19	15.36
56005000160	WQD 83-420R	WILDWOOD CHRISTIAN SCHOOL	-105	26	37.75	44	17	22.71
56005000172	WYS 005-059	WOOD TRUCKING	-105	29	20.64	44	19	14.51
56005000173	WYS 005-018	WYOMING MATERIALS AND IMPROVEMENT	-105	27	28.20	44	17	41.17
56005000174	WYS 005-060	WYOMING WELDING	-105	28	42.76	44	14	15.87
56005000175	UIC 89-275	NORTH BUTTE INJECTION SYSTEM	-105	55	52.04	43	47	14.96
56005000176	UIC 89-275	NORTH BUTTE INJECTION SYSTEM	-105	55	54.03	43	47	17.62

CARBON PT01.PAT

9 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56007000023	WQD 82-392R	MEDICINE BOW LODGE AND GUEST RANCH	-106	31	53.99	41	20	44.16
56007000024	WQD 82-392R	MEDICINE BOW LODGE AND GUEST RANCH	-106	31	53.99	41	20	44.70

56007000030 TFN 2 1/38	RM1 UCG PROJECT, HANNA, WY	-106	33	20.64	41	50	48.97
56007000031 TFN 2 1/38	RM1 UCG PROJECT, HANNA, WY	-106	33	6.64	41	50	49.07
56007000032 TFN 2 1/38	RM1 UCG PROJECT, HANNA, WY	-106	33	25.48	41	50	32.55
56007000033 TFN 2 1/38	RM1 UCG PROJECT, HANNA, WY	-106	33	22.45	41	50	29.94
56007000034 TFN 2 1/38	RM1 UCG PROJECT, HANNA, WY	-106	33	30.41	41	50	28.93
56007000036 WQD 79-659RR	WAGONHOUND REST AREA, WYOMING HIGHWAY DEPT.	-106	17	10.36	41	37	57.64
56007000037 WQD 79-659RR	WAGONHOUND REST AREA, WYOMING HIGHWAY DEPT.	-106	17	10.36	41	37	57.64

CONVERSE PT01.PAT

10 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56009000001 LQD-RD #13	"O" SAND PROJECT	-105	42	15.54	43	3	47.58
56009000009 LQD RD #5	"Q" SAND PROJECT	-105	41	14.42	43	2	57.63
56009000021 UIC 88-352	E SAND INJECTION- 50 WYO PROJECT	-105	41	12.05	43	8	9.22
56009000022 UIC 89-379	G.G. NICOLAYSEN COLE CR. F41-27G	-106	3	48.39	42	58	43.64
56009000025 UIC 88-353	H SAND INJECTION- 50 WYO PROJECT	-105	41	43.20	43	8	12.63
56009000026 UIC 89-324	HARVEY HEINBACH	-105	11	25.59	42	39	32.24
56009000028 LQD-218CA1	HIGHLAND MINE	-105	32	38.29	43	4	28.80
56009000044 UIC 89-030	MORTON 1-20	-105	31	56.11	43	5	0.63
56009000045 WQD 79-340RR	NORTON'S TRAILER COURT	-105	11	24.98	42	39	25.51
56009000049 WQD 81-585	TENNESSEE ERNIE'S TRAILER ACRES	-105	21	48.33	42	47	36.02

CROOK PT01.PAT

10 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56011000001 WYS 011-001	COLONY WYOMING PLANT	-104	9	0.93	44	52	6.78
56011000003 WYS 039-012	DEVIL'S TOWER NATIONAL MONUMENT	-104	42	21.87	44	34	52.99
56011000004 WYS 039-012	DEVIL'S TOWER NATIONAL MONUMENT	-104	42	21.87	44	34	52.99
56011000005 WYS 039-012	DEVIL'S TOWER NATIONAL MONUMENT	-104	42	21.83	44	34	52.99
56011000006 WYS 039-012	DEVIL'S TOWER NATIONAL MONUMENT	-104	42	21.83	44	34	52.99
56011000007 WYS 011-003	J AND J TRAILER PARK	-104	56	45.42	44	15	20.54
56011000008 WQD 82-758	SUNDANCE MOUNTAIN SKI AREA	-104	22	2.02	44	23	25.69
56011000009 WYS 011-004	SUNDANCE TEXACO STATION	-104	23	54.17	44	23	30.39
56011000010 WYS 011-004	SUNDANCE TEXACO STATION	-104	23	54.17	44	23	30.39
56011000011 UIC 91-049	TOWN OF HULETT ACID INJECTION	-104	36	6.13	44	41	4.27

FREMONT PT01.PAT

18 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56013000003 WQD 79-055R	B.J. SERVICES COMPANY	-108	26	57.69	43	3	4.27
56013000004 UIC 89-285	BEAVER CREEK DISPOSAL WELLS	-108	18	55.73	42	50	33.78
56013000005 UIC 89-285	BEAVER CREEK DISPOSAL WELLS	-108	19	7.08	42	50	22.16

56013000006 WDQ 89-190	BILL CLARK RENTAL TOOL COMPANY	-108	23	58.57	43	0	57.49
56013000008 WYS 013-007	BJ SERVICES - RIVERTON	-108	26	57.59	43	3	3.96
56013000010 WQD 81-341R	BUD PRESGROVES CAMPER PARK	-108	43	47.25	42	29	49.36
56013000011 WQD 83-337R	CLARK'S MONETA SERVICE	-107	43	32.07	43	9	44.25
56013000014 WQD 82-753R	G.R. MATHEWS CONSTRUCTION (AUXILLIARY METAL BLDGS)	-108	27	0.33	43	3	7.67
56013000020 UIC 92-237	SCOFIELD RESIDENCE INJECTION WELL	-108	47	54.89	42	48	44.80
56013000021 UIC 91-023	SMP INJECTION PROGRAM	-107	48	57.78	42	23	1.24
56013000022 UIC 91-075	SMP INJECTION PROGRAM #2	-107	49	11.02	42	22	9.61
56013000023 WQD 82-403R	SOUTH PASS MAINTENANCE CAMP, WYOMING HIGHWAY DEPT.	-108	43	43.46	42	31	45.58
56013000024 WQD 83-480	SOUTH PASS REST AREA, WYOMING HIGHWAY DEPT.	-108	54	11.43	42	23	2.92
56013000025 WQD 83-058R	THE JUNCTION MOTEL	-108	43	5.16	42	48	39.15
56013000026 WQD 83-058R	THE JUNCTION MOTEL	-108	43	5.16	42	48	39.15
56013000027 WQD 80-32	UNIVERSITY OF MISSOURI FIELD CAMP	-108	50	47.43	42	44	0.78
56013000028 WQD 80-622RR	WEMPEN MOBILE HOME PARK	-108	20	54.14	43	1	1.52
56013000030 WQD 80-604R	WIND RIVER HIGH SCHOOL AND STAFF HOUSING	-108	44	15.06	43	11	4.77

GOSHEN PT01.PAT

5 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56015000001 WYS 015-004	FORT LARAMIE NATIONAL MONUMENT	-104	33	17.35	42	12	3.05
56015000002 WYS 015-001	HOLLY SUGAR CORPORATION	-104	11	47.32	42	2	53.47
56015000003 WQD 81-578RR	HUNTLEY SCHOOL	-104	8	49.82	41	55	42.12
56015000005 WQD 79-105	K & K KAMPGROUND	-104	26	8.84	42	10	39.56
56015000006 WYS 015-003	LINGLE REST AREA; WYOMING HIGHWAY DEPT.	-104	19	53.07	42	7	42.02

HSPRINGS PT01.PAT

6 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56017000001 WQD 75-005	BLUE MESA TRAILER COURT	-108	11	6.76	43	48	30.39
56017000002 WQD 75-005	BLUE MESA TRAILER COURT	-108	11	6.76	43	48	30.39
56017000003 WQD 75-005	BLUE MESA TRAILER COURT	-108	11	6.76	43	48	30.39
56017000004 WQD 75-005	BLUE MESA TRAILER COURT	-108	11	6.76	43	48	30.39
56017000009 WYS 017-002	SMITH OIL FIELD SERVICE	-108	18	58.88	43	38	16.34
56017000010 WQD 80-213RR	WYO-BEN TRUCK SHOP	-108	10	23.37	43	44	7.03

JOHNSON PT01.PAT

7 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56017000008 WYS 017-001	R AND S WELL SERVICE	-106	47	59.95	43	55	46.59
56019000001 UIC 88-545	CHRISTENSEN RANCH DISPOSAL WELLFIELD	-106	2	24.14	43	47	35.16

56019000002	UIC 88-545	CHRISTENSEN RANCH DISPOSAL WELLFIELD	-106	2	32.50	43	48	23.22
56019000019	WQD 83-333R	PARADISE RANCH (GUEST RANCH)	-106	57	24.42	44	20	33.48
56019000021	WQD 82-017	POWDER RIVER REST AREA, WYOMING HIGHWAY DEPARTMENT	-106	9	18.46	44	12	50.40
56019000023	LQD-RD #9	RUTH ISL PROJECT	-106	4	12.75	43	35	30.24
56019000024	WQD 80-221	SLAYBAUGH TRAILER COURT	-106	40	55.27	44	18	33.70

LARAMIE PT01.PAT

48 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56021000001	WYS 021-002	AC Transformers	-104	39	43.33	41	9	30.82
56021000002	WQD 77-389	BINGO TRUCK STOP	-104	21	17.11	41	9	34.46
56021000003	WYS 021-001	BROADMOOR EAST BOARDING KENNEL	-104	45	28.15	41	8	43.80
56021000004	WYS 021-012	CHEYENNE CONSTRUCTOR	-104	40	21.79	41	9	4.52
56021000005	UIC 90-375	COASTAL CHEM, DISPOSAL WELLS	-104	55	34.85	41	6	23.02
56021000006	UIC 90-375	COASTAL CHEM, DISPOSAL WELLS	-104	55	33.93	41	6	23.02
56021000009	WQD 81-382R	COASTAL CHEM, INC. SEPTIC SYSTEM	-104	55	33.93	41	6	23.02
56021000010	WQD 78-530	COMMERCIAL OFFICE BUILDING	-104	46	0.90	41	9	45.86
56021000011	WYS 021-020	DAFC CENTRAL SERVICES DRYWELL	-104	49	9.83	41	8	14.65
56021000012	UIC 88-257	FIRST UNITED METHODIST CHURCH CLOSED LOOP HEAT PUMP	-104	4	3.90	41	10	42.88
56021000013	WYS 021-021	FRANCIS E WARREN AFB SPILL SITE 7 AQUIFER REMEDIATION	-104	52	11.31	41	8	52.28
56021000014	WYS 021-021	FRANCIS E WARREN AFB SPILL SITE 7 AQUIFER REMEDIATION	-104	52	11.31	41	8	52.28
56021000016	WYS 021-003	HILLTOP TRAILER PARK	-104	45	48.53	41	9	37.27
56021000017	WQD 81-328R	I-80 PORT OF ENTRY (Cheyenne East)	-104	38	11.11	41	9	36.24
56021000018	WQD 81-328R	I-80 PORT OF ENTRY (Cheyenne south)	-104	51	12.51	41	4	55.31
56021000019	WYS 021-004	INTERSTATE TEXACO	-104	50	55.22	41	5	59.08
56021000020	WYS 021-013	JAMES E. SIMON INC.	-104	45	37.46	41	10	38.03
56021000022	WYS 021-014	JOLLY ROGERS, INC.	-104	44	3.08	41	9	17.59
56021000023	WYS 021-006	LIGHTHOUSE BAPTIST CHURCH	-104	46	15.68	41	6	22.41
56021000025	WYS 021-009	MAGILL TRAILER RANCH	-104	52	36.55	41	13	8.62
56021000026	WYS 021-020	MERRITT MOBILE HOME PARK	-104	45	56.00	41	9	46.27
56021000027	WYS 021-020	MERRITT MOBILE HOME PARK	-104	45	56.15	41	9	46.41
56021000028	WYS 021-020	MERRITT MOBILE HOME PARK	-104	45	56.15	41	9	46.55
56021000029	WYS 021-020	MERRITT MOBILE HOME PARK	-104	45	56.15	41	9	46.41
56021000030	WYS 021-020	MERRITT MOBILE HOME PARK	-104	45	56.15	41	9	46.55
56021000031	WQD 80-337R	MILLER UPPER AND LOWER TRAILER COURTS	-104	46	3.36	41	9	26.35
56021000032	WQD 80-337R	MILLER UPPER AND LOWER TRAILER COURTS	-104	46	3.36	41	9	26.35
56021000033	WQD 79-022RR	MOUNTAIN VIEW ESTATES	-104	45	15.07	41	10	47.65
56021000034	WQD 79-022RR	MOUNTAIN VIEW ESTATES	-104	45	15.07	41	10	47.65
56021000035	WQD 79-022RR	MOUNTAIN VIEW ESTATES	-104	45	15.07	41	10	47.67
56021000036	WQD 79-022RR	MOUNTAIN VIEW ESTATES	-104	45	15.07	41	10	47.67
56021000037	WQD 79-022RR	MOUNTAIN VIEW ESTATES	-104	45	15.07	41	10	47.67
56021000038	WQD 79-022RR	MOUNTAIN VIEW ESTATES	-104	45	15.07	41	10	47.69
56021000039	WQD 85-567	PALMER'S AUTO SERVICE	-104	45	37.46	41	10	38.03
56021000040	WYS 021-016	PDQ TRANSPORT	-104	49	59.06	41	7	52.07
56021000041	WYS 021-017	SAPP BROTHERS	-104	39	31.64	41	9	30.69
56021000042	WQD 80-608	SMALL TIMES CONSTRUCTION	-104	49	9.83	41	8	14.65
56021000045	WQD 82-563	US 85 PORT OF ENTRY (TERRY ROAD)	-104	47	39.16	41	3	30.67

56021000047 WYS 021-008	WOODY'S EXXON OIL COMPANY	-104	31	12.43	41	9	37.62
56021000050 UIC 83-381	WY HWAY PROJECT I-180-1 (11)	-104	48	39.44	41	7	47.21
56021000051 UIC 83-381	WY HWAY PROJECT I-180-1 (11)	-104	48	39.44	41	7	47.21
56021000052 UIC 83-381	WY HWAY PROJECT I-180-1 (11)	-104	48	39.44	41	7	47.21
56021000053 UIC 83-381	WY HWAY PROJECT I-180-1 (11)	-104	48	39.44	41	7	47.21
56021000054 WYS 021-007	WYO CAMPGROUNDS	-104	30	48.85	41	9	32.91
56021000055 WYS 021-007	WYO CAMPGROUNDS	-104	30	48.85	41	9	32.91
56021000056 WYS 021-007	WYO CAMPGROUNDS	-104	30	48.85	41	9	32.91
56021000057 WQD 82-547RR	WYOMING HEREFORD	-104	41	55.33	41	7	23.80
56021000058 WQD 82-547RR	WYOMING HEREFORD	-104	41	55.33	41	7	23.80

LINCOLN PT01.PAT

12 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56023000003 WQD 81-831	BON RICO	-110	34	19.80	41	37	59.73
56023000005 UIC 89-449	CARTER CREEK DISPOSAL WELLS	-110	55	47.18	41	35	9.89
56023000007 WYS 023-002	COTTONWOOD CREEK CAMPGROUND	-110	49	0.80	42	38	22.23
56023000008 WYS 023-002	COTTONWOOD CREEK CAMPGROUND	-110	49	0.78	42	38	22.00
56023000009 WYS 023-007	J & W CONSTRUCTION	-110	55	45.71	42	45	43.23
56023000010 WQD 82-285R	KEMMERER PORT OF ENTRY	-110	33	47.34	41	46	15.22
56023000012 WYS 023-003	METCALF SCHOOL	-111	0	33.37	43	1	50.59
56023000013 WYS 023-004	MIKE'S AUTO SERVICE	-110	57	14.86	42	42	26.73
56023000014 WQD 81-198	ROCKY MOUNTAIN VAULT COMPANY (FORMERLY MAGEES AUTO)	-110	55	39.70	42	45	13.85
56023000015 WQD 80-157RR	STAR VALLEY REST AREA, WYOMING HIGHWAY DEPT.	-110	58	56.75	42	52	26.72
56023000016 WYS 023-005	UTAH POWER AND LIGHT	-110	33	52.17	41	47	46.11
56023000017 WYS 023-009	UTAH POWER AND LIGHT FRONTIER SERVICE CENTER	-110	33	52.17	41	47	46.11

NATRONA PT01.PAT

62 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000004 WQD 79-394	ALCOVA ACRES	-106	24	49.24	42	48	5.81
56025000005 WQD 79-345	ALCOVA ACRES	-106	24	26.46	42	48	4.39
56025000022 WQD 79-681	B. MOORE MOBILE HOME SPACES	-106	24	58.03	42	36	19.00
56025000027 WYS 025-003	BEL AIR TRAILER COURT	-106	23	43.01	42	51	34.92
56025000028 WYS 025-003	BEL AIR TRAILER COURT	-106	23	43.01	42	51	34.92
56025000029 WYS 025-003	BEL AIR TRAILER COURT	-106	23	43.01	42	51	34.92
56025000030 WQD 89-091	BELL PETROLEUM INC.	-106	22	18.28	42	50	52.04
56025000037 WQD 77-503	BREWER WASTEWATER SYSTEMS	-106	22	59.07	42	49	2.30
56025000038 WQD 77-503	BREWER WASTEWATER SYSTEMS	-106	22	59.07	42	49	2.30
56025000047 WQD 79-310	BUSS PLUMBING	-106	12	45.22	42	50	46.61
56025000053 WQD 83-458R	CASPER ANIMAL CONTROL FACILITY	-106	17	46.49	42	52	17.74
56025000075 WQD 78-678	COUNTRY SIDE COURT	-106	22	46.22	42	49	28.45
56025000076 WQD 78-678	COUNTRY SIDE COURT	-106	22	45.78	42	49	28.90
56025000080 WQD 77-583	DIMENSION SYSTEMS	-106	22	59.96	42	49	9.39

56025000097	WQD 79-217	ERC INDUSTRIES, INC.	-106	30	50.44	42	54	41.01
56025000098	WQD 79-217	ERC INDUSTRIES, INC.	-106	30	50.44	42	54	41.01
56025000099	WYS 025-016	ERC WELLHEADS	-106	30	50.44	42	54	41.01
56025000105	WQD 80-470R	GARLICK SALES & SERVICE	-106	27	17.41	42	52	35.59
56025000109	WQD 79-183	GETTMAN TRAILER SYSTEM	-106	11	48.02	42	54	41.57
56025000112	WYS 025-018	GOOSE EGG INN	-106	29	33.67	42	45	39.02
56025000114	WQD 79-014	GRAYSON BUILDING	-106	19	53.42	42	53	38.77
56025000116	WQD 82-072	GREAT LAND DIRECTIONAL DRILLING	-106	31	7.51	42	54	38.00
56025000121	WYS 025-023	HELLS HALF ACRE TRAILER COURT	-107	15	36.62	43	10	33.03
56025000122	WYS 025-023	HELLS HALF ACRE TRAILER COURT	-107	15	35.53	43	10	33.03
56025000123	WYS 025-071	HERMAN KARST	-106	23	43.01	42	51	34.92
56025000126	WYS 025-063	HOFELDT TRAILER COURT	-106	22	44.98	42	49	19.63
56025000127	WYS 025-024	HOGADON SKI AREA	-106	20	12.02	42	44	40.99
56025000149	WQD 81-849	JACK R. WHITLOCK TRUCKING	-106	22	54.20	42	48	52.55
56025000154	WQD 79-561	JIM MAJOR SMALL WASTEWATER	-106	26	33.11	42	47	6.24
56025000160	WYS 025-030	KLH TRAILER PARK	-106	43	29.69	42	33	25.98
56025000161	WYS 025-030	KLH TRAILER PARK	-106	43	28.87	42	33	26.39
56025000162	WYS 025-030	KLH TRAILER PARK	-106	43	29.28	42	33	25.98
56025000163	WYS 025-030	KLH TRAILER PARK	-106	43	29.28	42	33	25.98
56025000164	WYS 025-030	KLH TRAILER PARK	-106	43	28.55	42	33	26.28
56025000169	WQD 81-662	LINEWEBER-STALKUP	-106	12	42.91	42	50	42.00
56025000191	UIC 89-063	NICOLAYSEN ART MUSEUM	-106	19	8.44	42	50	51.65
56025000192	WYS 025-038	NINE MILE BAR AND LOUNGE	-106	20	6.96	42	59	4.86
56025000212	WQD 79-532	PATTON PLASTIC COATING WAREHOUSE	-106	27	32.48	42	53	14.28
56025000215	WQD 79-465	PERCY MANNINGS RESTAURANT	-106	48	26.19	43	1	42.50
56025000226	WQD 79-086	R. M. COATES ELECTRO OSMOSIS SYSTEM	-106	24	30.02	42	48	2.97
56025000239	WQD 79-560	RIMROCK BAR	-106	15	52.04	43	22	27.02
56025000241	WQD 81-116RR	ROCKY MOUNTAIN GUN CLUB	-106	9	50.85	42	56	9.77
56025000253	WYS 025-048	SHOCKLEY TRAILER COURT	-106	22	45.33	42	49	35.55
56025000300	WYS 025-050	TIMM'S TRAILER COURT	-106	22	47.90	42	49	18.96
56025000306	WQD 79-184	TRUE DRILLING COMPANY - TRUCK SHOP	-106	20	7.24	42	51	14.39
56025000307	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	30	3.40	42	50	47.52
56025000308	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	30	3.16	42	50	29.52
56025000309	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	30	3.99	42	50	22.51
56025000355	WQD 81-920R	WELL SERVICING EQUIPMENT SUPPLY	-106	27	17.41	42	52	47.58
56025000356	WQD 79-716	WEST YELLOWSTONE BUSINESS PARK	-106	24	23.81	42	51	57.46
56025000357	WQD 89-363	WESTERN AREA POWER ADMINISTRATION, CASPER FIELD BRANCH	-106	24	17.75	42	50	38.04
56025000358	WQD 89-363	WESTERN AREA POWER ADMINISTRATION, CASPER FIELD BRANCH	-106	24	17.75	42	50	38.93
56025000379	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	45.63	42	50	33.60
56025000380	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	45.15	42	50	18.96
56025000381	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	22.11	42	50	19.20
56025000382	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	18.51	42	50	13.92
56025000383	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	7.95	42	50	17.04
56025000384	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	9.39	42	50	12.72
56025000385	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	15.63	42	50	3.60
56025000386	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	11.07	42	49	44.16
56025000387	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	6.75	42	49	42.96
56025000388	UIC 89-376	UMETCO MINERALS A-9 DRIP SYSTEM	-107	29	2.67	42	49	40.32

NIOBRARA PT01.PAT
1 RECORD

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56027000001	WYS 027-001	L AND N CAMPGROUND	-104	29	13.99	42	44	54.24

PARK PT01.PAT
50 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56029000001	WYS 029-001	BIG BEAR MOBILE HOME PARK	-109	5	54.30	44	30	54.53
56029000003	WYS 029-002	BOY SCOUT CAMP IN CODY	-109	50	33.42	44	27	24.11
56029000005	WYS 029-003	CAMP CODY CAMPGROUND	-109	5	2.39	44	31	4.55
56029000006	WYS 029-004	CHINOOK BOARDING KENNELS	-108	59	39.25	44	32	29.77
56029000007	WYS 029-005	CODY ATHLETIC CLUB AND MOTEL	-109	6	42.95	44	30	47.02
56029000008	WYS 029-019	CODY CONCRETE	-109	3	44.09	44	32	0.95
56029000009	WQD 77-442	CODY LUMBER, INC.	-109	3	48.07	44	32	30.76
56029000010	WQD 81-942	CODY MEAT PACKING CO	-109	3	25.01	44	32	34.34
56029000011	WYS 029-020	CODY PAINT	-109	2	32.15	44	30	52.19
56029000012	WQD 81-142R	CODY STAMPEDE AND BUZZARD'S ROOST	-109	6	35.80	44	30	47.82
56029000016	WYS 029-022	DICK JONES TRUCKING, CODY TERMINAL	-109	4	0.78	44	32	24.80
56029000017	WYS 029-022	DICK JONES TRUCKING, CODY TERMINAL	-109	4	0.78	44	32	24.80
56029000018	WYS 029-007	GATEWAY MOTEL AND CAMPGROUNDS	-109	5	28.63	44	31	0.14
56029000019	WQD 79-605	GOFF CREEK LODGE	-109	50	11.17	44	27	28.88
56029000020	WQD 81-156	GRACE BAPTIST CHURCH AND SCHOOL	-108	45	7.99	44	45	55.44
56029000021	WYS 029-008	GRAHAM MOTOR CO	-109	2	40.89	44	31	58.57
56029000022	WQD 82-353	GREEN ACRES VILLAGE MOBILE HOME PARK	-109	1	9.08	44	32	54.41
56029000023	WQD 81-770	GREEN ACRES VILLAGE MOBILE HOME PARK	-109	1	8.28	44	32	53.62
56029000025	WYS 029-023	HAYS BROTHERS WELDING INC.	-109	2	54.41	44	32	4.53
56029000026	WYS 029-024	HIGH COUNTRY EXHAUST	-109	2	44.47	44	31	58.57
56029000027	WYS 029-025	JERRY'S MOVING	-109	2	32.15	44	30	56.16
56029000028	WQD 80-417R	JUBY'S MOBILE HOME COURT	-109	2	59.57	44	31	35.12
56029000029	WQD 80-417R	JUBY'S MOBILE HOME COURT	-109	2	59.57	44	31	35.51
56029000030	WQD 80-417R	JUBY'S MOBILE HOME COURT	-109	2	59.57	44	31	35.51
56029000031	WYS 029-026	K AND K TREATER	-109	1	54.39	44	31	31.14
56029000033	WQD 84-017	LOCKHARD HOUSE (A YOUTH HOSTEL AKA SAGE MOTEL)	-109	5	43.33	44	30	57.87
56029000035	WQD 80-066	MARATHON HANGER, CODY AIRPORT	-109	1	42.07	44	30	49.01
56029000036	WYS 029-028	MINER OIL FIELD SERVICE	-109	3	55.22	44	32	31.16
56029000037	WYS 029-010	MOUNTAIN VALLEY ENGINE SERVICE	-109	6	38.58	44	30	39.87
56029000038	WYS 029-029	MOUNTAIN VALLEY ENGINE SERVICE	-109	6	38.58	44	30	39.87
56029000039	WQD 72-238R	MOUNTAIN VIEW VILLAGE MOBILE HOME PARK	-109	2	27.38	44	32	7.71
56029000040	WYS 029-030	MULHOLLAND TANK SERVICE	-109	1	29.75	44	29	59.72
56029000041	UIC 83-003	NORTHWEST COMM COLLEGE	-108	45	42.17	44	45	36.37
56029000042	WYS 029-031	PACIFIC POWER AND LIGHT, CODY DISTRICT OFFICE	-109	6	22.28	44	30	44.24
56029000043	WYS 029-011	PARKWAY TRAILER COURT	-109	5	29.02	44	30	54.97
56029000044	WQD 87-005	PAT O'HARA COMPANY	-109	4	2.77	44	32	29.57
56029000045	WYS 029-012	PET SET AND BLESSING VETERINARY CLINIC	-109	2	16.25	44	32	5.72

56029000046 WYS 029-032	POWELL AVIATION	-108	47	4.05	44	51	58.34
56029000049 WQD 75-187R	RIVERS BEND COURT	-109	3	40.91	44	32	13.27
56029000051 WQD 81-817	SEVEN K'S R.V. PARK	-109	6	10.76	44	30	45.83
56029000052 WQD 83-285	SEVERSON, KEN	-109	2	17.44	44	32	8.90
56029000053 WYS 029-014	SHADY ACRES COURT	-109	5	12.73	44	31	4.51
56029000054 WYS 029-034	SHOSHONE NATIONAL FOREST SERVICE	-109	6	9.17	44	30	51.79
56029000055 WYS 029-035	SKORIC TANK SERVICE	-109	1	8.68	44	32	1.75
56029000056 WYS 029-036	SPIRIT MOUNTAIN AVIATION	-109	1	36.50	44	30	47.82
56029000063 WYS 029-038	WESTERN AREA POWER ADMINISTRATION, CODY FIELD BRANCH	-109	3	29.38	44	32	36.33
56029000064 WYS 029-038	WESTERN AREA POWER ADMINISTRATION, CODY FIELD BRANCH	-109	3	29.38	44	32	36.33
56029000066 WQD 80-407	WYOMING GAME AND FISH: CODY FIELD OFFICE	-109	1	24.58	44	29	56.54
56039000078 WQD 80-349	YELLOWSTONE NATIONAL PARK NORRIS CAMPGROUND	-110	41	32.86	44	44	20.20
56039000079 WQD 80-260R	YELLOWSTONE NATIONAL PARK TOWER FALLS AREA	-110	23	17.69	44	53	14.14

PLATTE_PT01.PAT
1 RECORD

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56031000001 WQD 86-257	GUERNSEY AIRPORT	-104	43	39.93	42	16	0.77

SHERIDAN_PT01.PAT
13 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56033000001 WQD 81-872	BIG GOOSE ANIMAL CLINIC	-106	58	32.08	44	47	41.38
56033000002 WYS 033-001	EATON'S DUDE RANCH	-107	14	3.20	44	46	17.03
56033000003 WYS 033-001	EATON'S DUDE RANCH	-107	14	2.81	44	46	17.03
56033000004 WQD 83-629	GILLETTE DAIRY OF THE BLACK HILLS	-106	56	1.88	44	46	46.55
56033000005 WYS 033-002	GRIMES AUTO REPAIR	-106	55	54.80	44	46	44.39
56033000006 WYS 033-003	HANDO'S SERVICE CENTER	-106	55	51.24	44	46	17.13
56033000007 WYS 033-010	JIMS MARINE & CYCLE	-106	55	40.37	44	46	20.34
56033000008 WYS 033-005	MOXEY VETERINARY HOSPITAL	-106	56	1.87	44	46	48.88
56033000009 WYS 033-020	ROCKING CHAIR ANTIQUES	-106	59	58.74	44	47	10.98
56033000010 WYS 033-006	SAYER'S TRAILER COURT	-106	57	52.85	44	48	52.69
56033000011 WYS 033-007	SHERIDAN AGRI CENTER	-106	55	54.85	44	46	38.45
56033000012 WYS 033-008	UNITED PARCEL SERVICE	-106	55	54.85	44	46	46.01
56033000013 WYS 033-009	WELTYS AUTO SERVICE AND REPAIR	-107	1	2.47	44	46	45.55

SUBLETTE_PT01.PAT
5 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56035000023 UIC 86-223	PINEDALE SCHOOL	-109	51	32.56	42	52	14.55
56035000024 UIC 86-223	PINEDALE SCHOOL	-109	51	32.56	42	52	14.55

56035000025 UIC 86-223	PINEDALE SCHOOL	-109	51	32.56	42	52	14.55
56035000026 UIC 86-223	PINEDALE SCHOOL	-109	51	32.56	42	52	14.55
56035000027 UIC 86-223	PINEDALE SCHOOL	-109	51	32.56	42	52	14.55

SWATER_PT01.PAT

35 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56037000001 WYS 037-001	ABCO TRANSMISSIONS	-109	18	55.34	41	33	16.02
56037000006 WYS 037-009	CENTURY EQUIPMENT COMPANY	-109	15	58.34	41	34	19.35
56037000007 WQD 82-669	CHURCH AND DWIGHT	-109	45	35.92	41	35	39.46
56037000012 WYS 037-010	DELTA ELECTRIC INC.	-109	14	19.36	41	37	4.36
56037000013 WYS 037-010	DELTA ELECTRIC INC.	-109	14	19.36	41	37	4.36
56037000014 WYS 037-011	DILL'S	-109	26	15.86	42	2	38.89
56037000015 WQD 80-301R	FMC NUMBER 5 SHAFT	-109	48	27.40	41	35	19.59
56037000039 WQD 81-570RR	FMC WYOMING CORP.	-109	51	5.41	41	34	1.49
56037000040 WYS 037-012	GEORGE CONSTRUCTION	-109	29	6.12	41	32	42.85
56037000041 WYS 037-031	GEORGE SEARLE	-109	16	54.07	41	38	46.87
56037000042 WYS 037-006	GRANGER MAINTENANCE CAMP	-109	58	52.46	41	36	16.00
56037000043 WQD 89-154	HOMCO INTERNATIONAL, INC. - ROCK SPRINGS	-109	15	17.45	41	38	30.67
56037000044 WYS 037-013	HYDRAULICS INC.	-109	18	52.43	41	33	16.75
56037000046 WYS 037-015	K-MOTIVE	-109	31	12.11	41	33	23.06
56037000047 WYS 037-016	LEWIS AND LEWIS INC.	-109	15	40.75	41	38	6.25
56037000048 WYS 037-018	M AND G TRANSFER	-109	16	4.51	41	38	1.89
56037000049 WYS 037-019	MID AMERICA PIPELINE	-109	16	42.61	41	34	6.26
56037000050 WQD 82-385R	NORTHWEST PIPELINE CORP.	-109	31	17.83	41	33	23.96
56037000051 WYS 037-020	NORTON DRILLING COMPANY	-109	19	1.11	41	33	7.72
56037000052 WYS 037-008	NOWCAM SERVICES POBOX 1086	-109	14	17.57	41	36	59.03
56037000053 WYS 037-022	OIL WELL PERFORATORS	-109	15	21.19	41	38	30.87
56037000054 WYS 037-023	OILFIELD RENTAL	-109	15	18.55	41	38	39.53
56037000057 WYS 037-025	RESOURCE ENGINEERING	-109	15	17.05	41	38	37.27
56037000058 WYS 037-024	ROBERT ZUECK	-109	14	10.80	41	36	56.77
56037000062 UIC 89-237	ROCK SPRINGS SUBSIDENCE 6A-PHASE III,A-5	-109	12	21.86	41	34	28.08
56037000064 WYS 037-017	RPC ENERGY SERVICES	-109	17	56.58	41	32	57.20
56037000065 UIC 87-235	SUPERIOR GROUT PROJECT	-108	58	10.42	41	45	50.81
56037000066 WQD 80-348R	SWEETWATER COUNTY WEED AND PEST CONTROL DIST. NO.3	-109	26	45.00	42	6	39.73
56037000067 WQD 82-733	SWEETWATER URANIUM PROJECT	-107	54	0.91	42	3	10.81
56037000068 WYS 037-014	TED'S SUPPER CLUB	-109	18	36.53	41	33	13.23
56037000069 UIC 87-368	TENNECO UNDERGROUND TAILINGS DISPOSAL	-109	13	38.30	41	36	37.24
56037000071 WYS 037-026	TIRE DEN INC.	-109	14	10.86	41	37	3.42
56037000119 WYS 037-028	WHITE'S MARINE CENTER	-109	16	28.55	41	34	23.27
56037000121 WYS 037-029	WYOMING BEARING AND FABRICATION INC.	-109	16	25.95	41	34	23.79
56037000122 WYS 037-030	WYOMING HIGHWAY DEPARTMENT, FARSON	-109	27	19.15	42	7	36.21

TETON PT01.PAT
52 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56039000001	UIC 85-155	C BAR V RANCH	-110	50	11.56	43	31	59.61
56039000002	WQD 79-593R-	C-V RANCH	-110	50	11.56	43	31	59.61
56039000003	WQD 79-593R-	C-V RANCH	-110	50	11.56	43	31	59.61
56039000004	WQD 79-593R-	C-V RANCH	-110	50	11.56	43	31	59.61
56039000005	WQD 79-593R-	C-V RANCH	-110	50	11.56	43	31	59.61
56039000006	WYS 039-001	DUNLAP DISTRIBUTING	-110	46	29.82	43	25	9.19
56039000007	WQD 87-360	FLAT CREEK MOTEL	-110	45	13.05	43	30	33.37
56039000008	WQD 87-360	FLAT CREEK MOTEL	-110	45	13.05	43	30	33.37
56039000009	WQD 87-360	FLAT CREEK MOTEL	-110	45	13.05	43	30	33.37
56039000010	WYS 039-013	GRAND TETON BEAVER CREEK TRAILER SPACES	-110	44	10.18	43	41	13.91
56039000011	WYS 039-013	GRAND TETON BEAVER CREEK TRAILER SPACES	-110	44	9.93	43	41	14.16
56039000012	WYS 039-014	GRAND TETON COULTER BAY UTILITY AREA	-110	37	45.19	43	54	2.61
56039000013	WQD 88-331	GROS VENTRE RIVER RANCH LODGE	-110	34	17.17	43	38	4.52
56039000017	WQD 89-499	JACKSON HOLE AIRPORT FIREFIGHTING BUILDING	-110	44	4.46	43	35	58.39
56039000018	WQD 90-340	JACKSON HOLE AIRPORT RENTAL CARWASH	-110	44	3.15	43	36	1.23
56039000019	WQD 88-056	JACKSON HOLE AIRPORT SEPTIC SYSTEM	-110	44	4.46	43	35	58.39
56039000020	UIC 91-121	JACKSON HOLE AVIATION STORAGE HANGER	-110	44	10.15	43	35	56.42
56039000021	UIC 91-121	JACKSON HOLE AVIATION STORAGE HANGER	-110	44	10.15	43	35	56.64
56039000022	UIC 91-121	JACKSON HOLE AVIATION STORAGE HANGER	-110	44	10.15	43	35	56.64
56039000023	UIC 91-121	JACKSON HOLE AVIATION STORAGE HANGER	-110	44	10.15	43	35	56.64
56039000024	WYS 039-002	JACKSON HOLE KENNELS	-110	50	15.89	43	31	59.41
56039000025	WQD 89-257R	JENNY LAKE LODGE	-110	43	24.82	43	47	0.33
56039000027	WYS 039-007	MAIN TRAIL STATION	-110	43	41.26	43	19	25.51
56039000028	WYS 039-003	MORAN HOUSING	-110	30	33.32	43	50	28.23
56039000029	WQD 87-304	MORAN JUNCTION SEEPAGE BED	-110	30	22.31	43	50	4.47
56039000030	WQD 87-304	MORAN JUNCTION SEPTIC TANK	-110	30	22.31	43	50	4.47
56039000031	WQD 87-304	MORAN JUNCTION SEPTIC TANK/ SEEPAGE BED	-110	30	22.31	43	50	4.47
56039000032	UIC 85-132	POWDER HORN RANCH	-110	47	23.90	43	27	46.59
56039000033	WYS 039-004	RABBIT ROW REPAIR	-110	50	44.15	43	30	22.50
56039000034	WQD 82-240	RANDY FOSTER HOME	-110	50	48.63	43	30	32.56
56039000035	WYS 039-005	RED BARN MAVERICK	-110	45	19.23	43	30	26.56
56039000036	WYS 039-006	RED TOP MEADOWS RESIDENTIAL TREATMENT CENTER	-110	50	15.13	43	21	59.16
56039000037	WYS 039-008	S.R. KOA	-110	23	50.02	43	50	4.63
56039000038	WQD 83-186R	SNAKE RIVER TRAILER COURT	-110	43	12.84	43	20	55.85
56039000039	WYS 039-009	STEAK PUB	-110	46	30.54	43	25	5.98
56039000040	WQD 88-218	STEAK PUB RESTAURANT	-110	46	30.54	43	25	5.98
56039000041	WQD 88-218	STEAK PUB RESTAURANT SEPTIC TANK	-110	46	30.54	43	25	5.98
56039000042	WQD 78-001RR	TETON HIGH ADVENTURE BASE	-110	44	17.37	43	18	49.83
56039000043	WYS 039-016	TETON PARK COLTER BAY	-110	37	45.77	43	54	2.00
56039000044	WYS 039-017	TETON PARK GROS VENTRE CAMPGROUND - 715 & DUMP STATION	-110	40	2.49	43	36	58.63
56039000045	WYS 039-018	TETON PARK GROS VENTRE CAMPGROUND - NEW SECTION	-110	40	2.32	43	36	58.63
56039000046	WYS 039-018	TETON PARK GROS VENTRE CAMPGROUND - NEW SECTION	-110	40	2.32	43	36	58.63
56039000049	WYS 039-021	TETON PARK LEEKS LODGE	-110	38	16.36	43	55	46.40
56039000056	WYS 039-022	TETON SCIENCE SCHOOL	-110	35	51.29	43	40	13.29
56039000058	WYS 039-011	TETON VIEW TRAILER COURT	-110	50	25.53	43	31	14.88

56039000059	WQD 79-347RR	TETON VILLAGE KOA	-110	50	17.01	43	31	14.88
56039000060	UIC 84-190	TETON VILLAGE WW TREATM & DISPOSAL FAC.	-110	49	57.50	43	34	55.79
56039000061	UIC 84-190	TETON VILLAGE WW TREATM & DISPOSAL FAC.	-110	49	57.50	43	34	55.79
56039000062	UIC 84-190	TETON VILLAGE WW TREATM & DISPOSAL FAC.	-110	49	57.50	43	34	55.79
56039000064	UIC 85-154	VERNON STILSON RESIDENCE	-110	47	41.77	43	27	6.18
56039000065	WQD 90-421	VISTA GRANDE WASTEWATER SYSTEM	-110	50	16.28	43	31	20.75
56039000077	WQD 80-350	YELLOWSTONE NATIONAL PARK LEWIS LAKE	-110	37	35.72	44	16	46.27

WESTON PT01.PAT

5 RECORD(S) SELECTED

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56045000002	UIC 91-166	KISSACK - HORSE CREEK INJECTION SYSTEM	-105	2	52.12	44	4	39.21
56045000003	UIC 91-166	KISSACK - HORSE CREEK INJECTION SYSTEM	-105	2	53.73	44	4	30.36
56045000004	UIC 89-439	OSAGE POWER PLANT- ACIDIZING JOB	-104	24	35.24	43	58	33.69
56045000005	UIC 89-439	OSAGE POWER PLANT- ACIDIZING JOB	-104	23	50.29	43	58	1.75
56045000007	UIC 90-245	WESTON ENGINEERING	-104	36	46.23	44	5	32.50

COUNTY INJECTION FACILITY POLYGON COVERAGES

ALBANY PY01.PAT
1 RECORD

WELLNUM PERMIT	NAME	NUMBER
56001000035 ENF 81-001	UPRR TIE TREATMENT FACILITY	6

CAMPBELL PY01.PAT
8 RECORD(S)

WELLNUM PERMIT	NAME	NUMBER
56005000013 UIC 085-3410	CABALLO MINE CLINKER RECHARGE PROJECT	5
56005000020 LQD-478A00	CHRISTENSEN RANCH AMENDMENT AREA	900
56005000022 LQD-RD0#300	COLLINS DRAW ISL TEST SITE	31
56005000073 LQD-RD#1000	HOE CREEK UCG SITE	8
56005000102 TFN0205/123	NORTH BUTTE IN SITU PROJECT	0
56005000114 WYS0005-011	RUBY RANCH PROJECT	5
56005000129 LQD-LE0#79	THUNDER BASIN COAL-ROCKY HILL NO. 1	25
56005000161 LQD-RD0#14	WILLOW CREEK R & D SITE	11

CARBON PY01.PAT
6 RECORD(S)

WELLNUM PERMIT	NAME	NUMBER
56007000002 WQD 78-404M	CARBON COUNTY COAL COMPANY MINE	2
56007000009 UIC 86-290	ELMO-PEACOCK MINE GROUT PROJECT	48
56007000012 UIC 83-424	HANNA UCG SITE	10
56007000027 WQD 86-150R	PATHFINDER SHIRLEY BASIN TAILINGS PUMPBACK SYSTEM	1
56007000028 WYS 007-009	PETROTOMICS MINE	1
56007000029 WQD 80-346	PETROTOMICS URANIUM MILL SEPTIC TANK	1

CONVERSE PY01.PAT
6 RECORD(S)

WELLNUM PERMIT	NAME	NUMBER
56009000023 UIC 85-547	GLENROCK ABD UNDGND MINE VOIDS BACKFILL	90
56009000023 UIC 85-547	GLENROCK ABD UNDGND MINE VOIDS BACKFILL	90
56009000024 UIC 86-362	GLENROCK HIGHWAY DRILL & GROUT PROJECT	160
56009000027 LQD-603	HIGHLAND IN SITU MINE	986
56009000046 LQD-RD #11	PETERSON PROJECT	0
56009000048 LQD 633	SMITH RANCH PROJECT	500

FREMONT PY01.PAT
2 RECORD(S)

WELLNUM	PERMIT	NAME	NUMBER
56013000007	LQD-504	BISON BASIN COMMERCIAL ISL	500
56013000016	WYS 013-009	PATHFINDER LUCKY MC TAILINGS PUMPBACK	1

JOHNSON PY01.PAT
3 RECORD(S)

WELLNUM	PERMIT	NAME	NUMBER
56019000003	LQD-LE #8	IRIGARAY 5I7 ISL TEST SITE	10
56019000013	LQD-478	IRIGARAY COMMERCIAL ISL	1,841
56019000022	LQD-631	RUTH COMMERCIAL IN SITU PROJECT	532

NATRONA PY01.PAT
1 RECORD

WELLNUM	PERMIT	NAME	NUMBER
56025000318	UIC083-4280	URANERZ TEST LOC NO. 2	10

SWATER PY01.PAT
16 RECORD(S)

WELLNUM	PERMIT	NAME	NUMBER
56037000016	UIC 90-152	FMC TAILINGS INJECTION PROJECT	10
56037000017	LQD-554	FMC TRONA MINING PROJECT	22
56037000055	UIC 88-466	PROJECT A-3 DOWNTOWN ROCK SPRINGS GROUT	500
56037000055	UIC 88-466	PROJECT A-3 DOWNTOWN ROCK SPRINGS GROUT	500
56037000056	UIC 88-467	PROJECT A-4 RIDGE AVENUE, ROCK SPRINGS GROUT PROJECT	500
56037000060	UIC 85-183	ROCK SPRINGS MINE BACKFILL	125
56037000060	UIC 85-183	ROCK SPRINGS MINE BACKFILL	125
56037000060	UIC 85-183	ROCK SPRINGS MINE BACKFILL	125
56037000061	UIC 88-504	ROCK SPRINGS SUBSIDENCE 6A PHASE III	1,100
56037000061	UIC 88-504	ROCK SPRINGS SUBSIDENCE 6A PHASE III	1,100
56037000063	UIC 89-533	ROCK SPRINGS SUBSIDENCE PROJECT	9,999
56037000070	UIC 91-144	TEXAS GULF UNDERGROUND TAILINGS	10
56037000072	UIC 91-332	UPRR GREEN RIVER GROUNDWATER REMEDIATION	2
56037000074	WYS 037-027	US DOE ROCK SPRINGS OIL SHALE TEST	40
56037000114	LQD-RD #7	VULCAN MATERIALS - HANESWORTH #1	5
56037000120	TFN 2 6/276	WOLD MINERALS, MASSACRE HILLS PROJECT	1

SECTION INJECTION FACILITY POINT COVERAGES

T50R71S29WPG.PAT
1 RECORD SELECTED

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56005000094	WYS 005-038	LIPPERT WELDING SERVICE	-105	25	28.97	44	17	11.30

T50R71S30WPG.PAT
5 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56005000007	WYS 005-017	BJ SERVICES - GILLETTE	-105	26	31.78	44	17	17.16
56005000008	WYS 005-019	BRUCE'S AUTO	-105	26	38.46	44	17	26.34
56005000010	WQD 83-482	BUTLER TRAILER COURT	-105	26	45.02	44	17	26.50
56005000063	WYS 005-025	DIVIS OIL	-105	26	30.49	44	17	26.13
56005000160	WQD 83-420R	WILDWOOD CHRISTIAN SCHOOL	-105	26	40.43	44	17	20.71

T50R72S9WPG.PAT
7 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56005000002	WYS 005-016	BELL AND MOONEY INC.	-105	31	42.39	44	19	26.53
56005000093	WYS 005-037	LEROYS AUTO REPAIR/HARRIS AUTO SALVAGE	-105	31	28.69	44	19	32.54
56005000103	WYS 005-041	NORTHEAST WYOMING VO-TECH	-105	31	40.28	44	19	35.58
56005000109	WYS 005-046	PSI REPAIR SERVICE	-105	31	29.04	44	19	22.70
56005000120	WYS 005-050	S AND M CONSTRUCTION	-105	31	17.56	44	19	40.25
56005000122	WYS 005-052	SCHWANS SALES ENTERPRISES	-105	31	30.77	44	19	20.29
56005000159	WYS 005-058	WESTERN SLING AND SUPPLY COMPANY	-105	31	38.05	44	19	14.21

T50R72S24WPG.PAT
17 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56005000009	WYS 005-063	BUNDY ELECTRIC INC.	-105	27	30.20	44	17	37.72
56005000058	WYS 005-024	D AND S CASING	-105	27	12.16	44	17	22.89
56005000059	WYS 005-004	DIAMOND MOBILE HOME PARK	-105	27	4.41	44	17	23.34
56005000060	WYS 005-004	DIAMOND MOBILE HOME PARK	-105	27	4.41	44	17	23.34
56005000061	WYS 005-004	DIAMOND MOBILE HOME PARK	-105	27	4.41	44	17	23.34
56005000062	WYS 005-004	DIAMOND MOBILE HOME PARK	-105	27	4.41	44	17	23.34
56005000064	WYS 005-026	EXETER	-105	26	59.00	44	17	29.77
56005000070	WYS 005-032	HAHN WELDING	-105	27	29.95	44	17	26.65
56005000085	WYS 005-034	J AND M ENTERPRISES	-105	27	28.64	44	17	33.92

56005000089 WYS 005-035	KAMAN BEARING (FORMERLY JR CONSTRUCTION)	-105	27	17.40	44	17	34.70
56005000106 WYS 005-043	PERFORATING SERVICES INC.	-105	27	12.46	44	17	29.13
56005000108 WYS 005-045	PRECISION WELL SERVICE	-105	27	23.97	44	17	23.55
56005000121 WYS 005-051	SCHLUMBERGER	-105	28	4.59	44	17	45.52
56005000154 WYS 005-057	TIORCO / POLEDUC ;two separate corporations;	-105	27	25.29	44	17	37.83
56005000155 WQD 83-633	TRI-STATE INSULATING INC.	-105	27	53.68	44	17	52.07
56005000156 WYS 005-057	TRICOUNTY ELECTRIC ASSOCIATION INC.	-105	26	58.18	44	17	31.42
56005000173 WYS 005-018	WYOMING MATERIALS AND IMPROVEMENT	-105	27	30.17	44	17	36.80

T33R78S5WPG.PAT
3 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000084 WYS 025-107	DOW SCHLUMBERGER - CERCLA CLEANUP	-106	14	4.88	42	51	17.82
56025000132 WYS 025-021	HTI SUPERIOR	-106	14	7.16	42	51	39.16
56025000316 WYS 025-028	UNIVERSAL TRANSPORT	-106	13	30.13	42	51	11.24

T33R78S6WPG.PAT
31 RECORDS(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000072 UIC 91-213	CONOCO CASPER STATION AQUIFER REMEDIATION	-106	14	53.57	42	51	17.08
56025000073 UIC 91-213	CONOCO CASPER STATION AQUIFER REMEDIATION	-106	14	53.57	42	51	17.08
56025000167 WYS 025-032	LATHROP FEED AND EQUIPMENT COMPANY	-106	14	42.17	42	51	16.69
56025000275 UIC 84-449	TEXACO CASPER REFINERY	-106	15	44.19	42	51	51.09
56025000276 UIC 84-449	TEXACO CASPER REFINERY	-106	15	43.62	42	51	51.11
56025000277 UIC 84-449	TEXACO CASPER REFINERY	-106	15	42.98	42	51	51.09
56025000278 UIC 84-449	TEXACO CASPER REFINERY	-106	15	41.78	42	51	48.42
56025000279 UIC 84-449	TEXACO CASPER REFINERY	-106	15	41.36	42	51	47.22
56025000280 UIC 84-449	TEXACO CASPER REFINERY	-106	15	40.76	42	51	47.28
56025000281 UIC 84-449	TEXACO CASPER REFINERY	-106	15	33.84	42	51	48.17
56025000282 UIC 84-449	TEXACO CASPER REFINERY	-106	15	34.17	42	51	47.89
56025000283 UIC 84-449	TEXACO CASPER REFINERY	-106	15	34.50	42	51	47.50
56025000284 UIC 84-449	TEXACO CASPER REFINERY	-106	15	34.47	42	51	47.04
56025000285 UIC 84-449	TEXACO CASPER REFINERY	-106	15	34.44	42	51	46.66
56025000286 UIC 84-449	TEXACO CASPER REFINERY	-106	15	31.83	42	51	44.17
56025000287 UIC 84-449	TEXACO CASPER REFINERY	-106	15	31.45	42	51	44.17
56025000288 UIC 84-449	TEXACO CASPER REFINERY	-106	15	31.06	42	51	44.17
56025000289 UIC 84-449	TEXACO CASPER REFINERY	-106	15	29.69	42	51	45.56
56025000290 UIC 84-449	TEXACO CASPER REFINERY	-106	15	29.42	42	51	45.22
56025000291 UIC 84-449	TEXACO CASPER REFINERY	-106	15	23.43	42	51	38.61
56025000292 UIC 84-449	TEXACO CASPER REFINERY	-106	15	23.43	42	51	38.02
56025000293 UIC 84-449	TEXACO CASPER REFINERY	-106	15	23.46	42	51	37.50
56025000294 UIC 84-449	TEXACO CASPER REFINERY	-106	15	16.53	42	51	41.39
56025000295 UIC 84-449	TEXACO CASPER REFINERY	-106	15	16.95	42	51	41.33
56025000372 UIC 84-449	TEXACO CASPER REFINERY	-106	15	16.18	42	51	41.80

56025000373 UIC 84-449	TEXACO CASPER REFINERY	-106	15	16.18	42	51	41.50
56025000374 UIC 84-449	TEXACO CASPER REFINERY	-106	15	16.04	42	51	41.15
56025000375 UIC 84-449	TEXACO CASPER REFINERY	-106	15	15.93	42	51	40.85
56025000376 UIC 84-449	TEXACO CASPER REFINERY	-106	15	15.63	42	51	41.48
56025000377 UIC 84-449	TEXACO CASPER REFINERY	-106	15	15.27	42	51	41.55
56025000378 UIC 84-449	TEXACO CASPER REFINERY	-106	15	14.80	42	51	41.55

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14 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000039 WQD 77-257B	BURD COMMERCIAL SHOP AND OFFICE	-106	22	2.78	42	51	15.43
56025000065 WQD 79-419	COBRE TIRE COMPANY	-106	21	47.02	42	51	16.16
56025000066 WQD 79-419	COBRE TIRE COMPANY	-106	21	46.96	42	51	16.14
56025000096 WYS 025-054	ENGINE POWER COMPANY	-106	21	51.47	42	51	19.11
56025000142 WQD 81-566	INDUSTRIAL MAINTENANCE AND FABRICATING	-106	22	1.38	42	51	18.66
56025000256 WYS 025-079	SJS INC.	-106	21	53.39	42	51	24.49
56025000270 WQD 77-257A	T AND T WELDING (FORMERLY BURD COMMERCIAL SHOP)	-106	21	56.05	42	51	15.73
56025000298 WQD 81-058	TIC, THE INDUSTRIAL COMPANY OF WYOMING	-106	21	50.15	42	51	24.56
56025000328 WQD 79-015	VACANT - FORMERLY HALLIBURTON INDUSTRIES	-106	22	0.56	42	51	15.54
56025000329 WQD 79-015	VACANT - FORMERLY HALLIBURTON INDUSTRIES	-106	22	0.61	42	51	15.51
56025000330 WQD 79-015	VACANT - FORMERLY HALLIBURTON INDUSTRIES	-106	22	0.61	42	51	15.51
56025000331 WYS 025-078	VACANT FORMERLY AMERICAN DRILLING COMPANY (FORMER OWNER	-106	21	51.60	42	51	15.94
56025000345 WQD 77-258	VACANT, FORMER BECKER LEASE BUILDING	-106	21	55.45	42	51	18.95
56025000366 WQD 77-461	WYOMING CARBONICS, INC.	-106	22	7.34	42	51	15.25

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3 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000108 WQD 78-531	GETTER TRUCKING, FORMER OCCUPANT	-106	24	48.78	42	51	44.76
56025000228 WQD 81-241	REDA DIVISION OF CAMCO INTERNATIONAL	-106	24	48.65	42	51	32.32
56025000251 WQD 78-674	SECURITY DRILLING TOOLS	-106	23	41.27	42	51	26.68

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9 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000020 WQD 81-430	B AND B TOOL AND SUPPLY	-106	24	57.33	42	51	30.85
56025000085 WYS 025-112	DRESSER ATLAS WIRELINE	-106	25	4.25	42	51	41.66
56025000086 WQD 80-240	DRILLCO BUILDING, ZERO ROAD	-106	25	53.69	42	51	43.98
56025000138 WQD 81-199	ICO PLATTE ROD AND PIPE COMPANY	-106	24	56.69	42	51	34.20
56025000178 WQD 79-255	MGF DRILLING COMPANY	-106	25	4.47	42	51	27.27
56025000179 WQD 79-255	MGF DRILLING COMPANY	-106	25	4.58	42	51	27.27

56025000194 WQD 82-235	NL SHAFFER - NL INDUSTRIES, INC.	-106	25	4.36	42	51	40.11
56025000195 WQD 81-844	NL SPERRY SUN AND BAIROID DRILLING FLUID EQUIPMENT	-106	25	4.36	42	51	40.11
56025000214 WQD 78-226	PEPSI-COLA BOTTLING COMPANY	-106	25	4.39	42	51	44.64

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20 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000032 WQD 79-723	BILL H. KUHN	-106	20	57.33	42	53	38.42
56025000033 WQD 79-723	BILL H. KUHN	-106	20	57.41	42	53	38.36
56025000052 WQD 78-681RR	CAROL COURT	-106	21	16.09	42	53	55.53
56025000146 WQD 78-143R	IRI INTERNATIONAL (FORMERLY INGERSOL RAND)	-106	20	3.22	42	53	42.62
56025000150 WQD 79-154	JERRY HELLER COMPANY	-106	20	39.67	42	53	49.02
56025000151 WQD 79-154	JERRY HELLER COMPANY	-106	20	39.59	42	53	48.96
56025000155 WQD 78-271	JOHN JAPP AND ASSOCIATES	-106	20	35.58	42	53	53.95
56025000187 WQD 80-635	NANIA DEVELOPMENT	-106	21	11.89	42	53	45.85
56025000217 WQD 78-245	PLAINVIEW TRAILER COURT	-106	20	49.17	42	53	56.87
56025000218 WQD 78-245	PLAINVIEW TRAILER COURT	-106	20	49.34	42	53	56.81
56025000219 WQD 78-245	PLAINVIEW TRAILER COURT	-106	20	49.34	42	53	56.81
56025000220 WQD 78-245	PLAINVIEW TRAILER COURT	-106	20	49.34	42	53	56.81
56025000221 WQD 78-245	PLAINVIEW TRAILER COURT	-106	20	49.31	42	53	56.71
56025000235 WQD 79-476	REED TRANSPORTATION	-106	21	2.00	42	53	44.98
56025000238 WQD 80-177	REMANUFACTURING SERVICES, INC.	-106	20	38.87	42	53	35.92
56025000265 WQD 80-633R	SPIVA BACKHOE SERVICE	-106	21	2.25	42	53	51.02
56025000272 WQD 81-764	T.F.I. INTERNATIONAL	-106	20	57.60	42	53	45.02
56025000273 WQD 79-247	TANNER-FREIBERG	-106	20	41.65	42	53	54.84
56025000336 WQD 81-614	VACANT FORMERLY COMMERCIAL SHOP AND OFFICE	-106	20	53.13	42	53	44.86
56025000342 WQD 81-614	VACANT FORMERLY SCHERER BROTHERS CONSTRUCTION	-106	20	52.47	42	53	38.44

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8 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000044 WQD 81-475	BURRIS DRILLING CO.	-106	20	55.41	42	53	32.69
56025000067 WYS 025-092	COLORADO BIOTECHNOLOGY COMPANY	-106	21	3.32	42	52	51.05
56025000103 WQD 80-625	FRONTIER WELL SERVICE	-106	21	5.21	42	53	27.32
56025000111 WYS 025-062	GLENN BENNETT MOBILE HOME PARK	-106	20	57.66	42	52	56.74
56025000188 WQD 81-928	NATIONAL SUPPLY CO. - CASPER MACHINERY CENTER	-106	20	43.90	42	53	32.75
56025000196 WQD 79-141	NORTH PARK TRANSPORTATION	-106	21	14.39	42	52	53.46
56025000240 WQD 81-313	ROBERTS RATHOLE DRILLING	-106	21	15.62	42	52	49.73
56025000244 WQD 79-234	SALT CREEK AUTO BODY	-106	20	59.17	42	53	22.10

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54 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000001	WYS 025-097	4D HOTSHOT SERVICE	-106	20	53.07	42	52	19.73
56025000013	WQD 79-252	ANADRILL-SCHLUMBERGER	-106	21	2.19	42	52	33.14
56025000014	WQD 79-252	ANADRILL-SCHLUMBERGER	-106	21	0.90	42	52	33.14
56025000017	WQD 78-121	AUTO TECH ENGINE REBUILDERS	-106	20	52.74	42	52	8.26
56025000021	WQD 80-238RR	B&W CRANE SERVICES	-106	21	7.49	42	52	21.18
56025000025	WQD 78-097	BARNARD REALITY	-106	20	55.49	42	52	2.33
56025000054	WQD 79-615	CASPER BARRELL AND DRUM COMPANY	-106	20	59.56	42	52	17.82
56025000055	WQD 80-497	CASPER BUILDING SYSTEMS INC.	-106	21	14.83	42	52	26.81
56025000058	WYS 025-089	CASPER MANUFACTURING, INC.	-106	21	0.82	42	52	6.85
56025000060	WYS 025-095	CENTRILIFT	-106	20	49.80	42	52	26.55
56025000064	WQD 78-145	CMI TECO - FORMERLY CASPER BUILDING SYSTEMS	-106	20	59.47	42	52	4.18
56025000071	WQD 78-034	COMPRESSOR PUMP AND ENGINE, INC.	-106	20	59.72	42	52	21.09
56025000088	WQD 78-228	E AND H INDUSTRIAL SUPPLIES	-106	20	56.34	42	52	9.33
56025000089	WQD 78-228	E AND H INDUSTRIAL SUPPLIES	-106	20	56.34	42	52	9.33
56025000093	WYS 025-093	ELENBURG EXPLORATION	-106	20	43.35	42	52	26.33
56025000100	WQD 80-430	FARMER BROTHERS COFFEE COMPANY	-106	21	11.42	42	52	37.51
56025000102	WYS 025-091	FRONTIER OUTDOOR ADVERTIZING	-106	21	9.17	42	52	31.51
56025000118	WQD 79-008	HANSEN BUILDING SPECIALTIES	-106	21	12.82	42	52	30.33
56025000119	WQD 79-683	HARNISCHFEGER CORP.	-106	20	53.05	42	52	22.38
56025000120	WQD 79-683	HARNISCHFEGER CORP.	-106	20	53.05	42	52	22.38
56025000133	WQD 79-722	HUGHS TOOL COMPANY (FORMERLY M AND B COMPANY)	-106	20	50.33	42	52	10.80
56025000134	WQD 79-722	HUGHS TOOL COMPANY (FORMERLY M AND B COMPANY)	-106	20	50.27	42	52	10.77
56025000139	WQD 81-584	INDUSTRIAL LUBRICANT COMPANY	-106	21	5.95	42	52	26.90
56025000140	WQD 81-459	INDUSTRIAL LUBRICANT COMPANY	-106	21	5.95	42	52	26.90
56025000141	WQD 81-459	INDUSTRIAL LUBRICANT COMPANY	-106	21	6.04	42	52	26.95
56025000156	WQD 79-405	JOHN LEBRUN	-106	21	15.10	42	52	17.86
56025000158	WYS 025-101	KEPNER WATERWORKS SALES	-106	20	49.75	42	52	6.53
56025000159	WQD 78-440	KFNB CHANNEL 20	-106	21	14.77	42	52	21.64
56025000165	WYS 025-087	KLOEFKORN-BALLARD CONSTRUCTION COMPANY	-106	21	7.58	42	52	33.72
56025000181	WQD 80-351	MILLVIEW INVESTMENT COMPANY	-106	21	5.87	42	52	26.83
56025000186	WYS 025-094	NABISCO BRANDS	-106	20	41.24	42	52	20.69
56025000205	WYS 025-102	P.C. TRANSPORT	-106	21	5.05	42	52	30.78
56025000224	WQD 79-309	PRIDE OIL FIELD SERVICE	-106	21	18.78	42	52	38.05
56025000236	WQD 77-377	REG BOOTH INVESTIGATION 5X28	-106	20	41.37	42	52	23.48
56025000243	WQD 81-564	SAGE STUDER INVESTMENTS	-106	21	4.55	42	52	33.56
56025000248	WQD 77-460	SCHLUMBERGER WELL SERVICE	-106	21	0.41	42	52	9.74
56025000257	WQD 79-087	SKYVIEW INDUSTRIAL PARK	-106	21	16.17	42	52	23.22
56025000258	WQD 79-087	SKYVIEW INDUSTRIAL PARK	-106	21	16.20	42	52	23.17
56025000259	WQD 79-129	SKYVIEW INDUSTRIAL PARK	-106	21	17.74	42	52	21.02
56025000260	WQD 79-129	SKYVIEW INDUSTRIAL PARK	-106	21	17.74	42	52	21.02
56025000266	WQD 81-663	STONE POWER SALES.	-106	20	55.02	42	52	33.17
56025000297	WQD 80-228	TEXAS IRON WORKS, INC.	-106	20	58.95	42	52	33.16
56025000312	WQD 79-662	UNIT RIG EQUIPMENT	-106	20	53.79	42	52	26.53
56025000313	WQD 79-662	UNIT RIG EQUIPMENT	-106	20	56.45	42	52	26.15
56025000314	WQD 77-280	UNITED PARCEL SERVICE	-106	20	47.47	42	52	16.51

56025000341 WQD 81-460	VACANT FORMERLY PENGO WIRELINE DIVISION	-106	21	6.78	42	52	24.07
56025000343 WQD 81-788R	VACANT FORMERLY SMITH TOOL COMPANY	-106	20	41.84	42	52	17.70
56025000354 WYS 025-100	WAGGONER'S TRUCKING	-106	20	57.30	42	52	7.02
56025000359 WYS 025-076	WESTERN CONSTRUCTION	-106	21	11.28	42	52	27.83
56025000360 WQD 78-286	WESTERN CONSTRUCTION	-106	20	53.07	42	52	19.73
56025000361 WQD 81-296	WESTERN PUMP JACK, INC.	-106	20	57.80	42	52	30.03
56025000362 WYS 025-088	WESTERN SLING COMPANY	-106	21	5.46	42	52	29.13
56025000365 WQD 78-039	WYOCO PROPERTIES	-106	20	43.35	42	52	26.33
56025000367 WQD 78-348	WYOMING EXPRESS	-106	20	43.24	42	52	13.80

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19 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000007 WQD 81-715	AMERICAN MANUFACTURING COMPANY OF TEXAS	-106	25	40.50	42	52	48.58
56025000016 WQD 78-592	ANIMAL DAMAGE CONTROL DIVISION OF USDA	-106	25	28.17	42	52	45.35
56025000034 WQD 79-699	BJ SERVICES	-106	25	14.11	42	52	47.43
56025000090 WQD 80-634	E.H. OFTEDAL AND SONS, INC.	-106	25	43.44	42	52	52.38
56025000101 WQD 79-016	FINN MCCARTHY SUBSURFACE DISPOSAL	-106	25	26.77	42	52	43.80
56025000107 WQD 80-410R	GEOLOGRAPH PIONEER	-106	25	32.18	42	52	49.10
56025000125 WQD 79-622	HIGH PLAINS CONSTRUCTION	-106	25	22.95	42	52	40.75
56025000148 WQD 79-665	JABENS J. HEWITT	-106	25	33.50	42	52	47.04
56025000157 WYS 025-029	JOY PETRO. EQPT.(COOPER INDUSTRIES)	-106	25	43.91	42	52	47.72
56025000173 WQD 80-594	MELOY COMMERCIAL SHOP AND OFFICE	-106	25	21.11	42	52	47.87
56025000174 WQD 81-716	MELOY PROPERTIES	-106	25	21.74	42	52	44.34
56025000175 WYS 025-019	MELOY PROPERTIES	-106	25	28.09	42	52	42.62
56025000176 WYS 025-017	MELOY PROPERTIES	-106	25	36.52	42	52	49.32
56025000177 WQD 81-329	MELOY PROPERTIES (FORMERLY CUDD PRESSURE CONTROL)	-106	25	19.00	42	52	46.07
56025000182 WQD 81-877	MILPARK DRILLING FLUIDS	-106	25	18.50	42	52	50.90
56025000184 WQD 79-245	MOUNTAIN VALLEY MACHINE SHOP	-106	25	12.79	42	52	41.99
56025000199 WQD 78-224R	OIL WELL PERFORATORS	-106	25	38.58	42	52	47.06
56025000271 WYS 025-075	T.C.M. INC.	-106	26	1.35	42	52	43.95
56025000353 WYS 025-056	VETCO GRAY OIL TOOLS	-106	26	1.40	42	52	42.22

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19 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000008 WQD 82-158	AMERICAN TUBULAR INSPECTION	-106	26	10.80	42	53	29.22
56025000045 WQD 81-561	BURTON/HAWKS, INC.	-106	26	11.98	42	52	42.26
56025000046 WQD 81-561	BURTON/HAWKS, INC.	-106	26	11.87	42	52	42.26
56025000048 WQD 80-154	CAMCO- NOWCAM SERVICES (SITE WAS OTIS ENGINEER)	-106	26	4.70	42	53	29.31
56025000077 WYS 025-012	DAILEY OIL TOOLS	-106	26	6.21	42	52	43.75
56025000079 WQD 77-366R	DIA-LOG	-106	26	19.04	42	52	47.87
56025000091 WQD 88-372	EASTMAN CHRISTENSON	-106	26	14.95	42	52	42.44
56025000115 WYS 025-070	GREAT AMERICAN ASSET MANAGEMENT	-106	26	19.01	42	52	44.27

56025000124 WQD 79-162	HICKS EQUIPMENT COMPANY BUILDING	-106	26	5.96	42	52	50.86
56025000152 WQD 81-482	JET MOBILE HOME PARK	-106	26	40.52	42	53	7.96
56025000166 WYS 025-031	LARSON CONSTRUCTION	-106	26	8.74	42	53	26.62
56025000193 WYS 025-039	NITROGEN OIL WELL SERVICES COMPANY (NOWSCO)	-106	26	19.04	42	52	46.07
56025000198 WQD 81-548	OIL FIELD TUBULAR INSPECTION INC.	-106	26	11.79	42	52	44.25
56025000225 WQD 78-614R	QUADCO	-106	26	19.01	42	52	42.46
56025000263 WQD 79-660	SOUTHWEST POWER TOOL	-106	26	11.57	42	52	48.17
56025000310 WQD 81-107	UNDERWOOD OIL AND GAS	-106	26	4.51	42	52	50.48
56025000317 WQD 81-902	UPDIKE BROTHERS, INC.	-106	26	15.00	42	52	47.85
56025000338 WQD 78-560	VACANT FORMERLY ECONOMY BIT SERVICE	-106	26	15.14	42	52	49.40
56025000340 WQD 89-254	VACANT FORMERLY NOWCAM	-106	26	11.79	42	52	46.05

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3 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000035 WQD 78-146	BOWEN TOOL COMPANY	-106	26	3.85	42	52	39.61
56025000094 WYS 025-002	ENERGY EQUIPMENT AND SUPPLY	-106	26	5.44	42	52	20.14
56025000227 WYS 025-073	RATHOLE DRILLING	-106	26	52.49	42	52	39.19

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68 RECORD(S)

WELLNUM PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000006 WYS 025-110	ALLEN INSPECTION SERVICES	-106	24	58.67	42	52	16.39
56025000009 WQD 81-489RR	AMF TUBOSCOPE PLANT NO.2	-106	25	40.28	42	52	16.06
56025000023 WQD 82-038R	BAKER SERVICE TOOLS (FORMERLY BAKER-HUGHES)	-106	25	56.02	42	52	22.78
56025000024 WQD 80-155	BAKER WELL SERVICE	-106	25	16.22	42	52	39.89
56025000026 WQD 81-011	BARNARD REALTY COMPANY	-106	25	11.88	42	52	35.97
56025000049 WYS 025-004	CAMERON IRON WORKS	-106	25	36.47	42	52	33.03
56025000050 WYS 025-035	CAMPBELL TESTING	-106	25	54.90	42	51	57.55
56025000057 WQD 81-845	CASPER EQUIPMENT RENTALS	-106	25	46.30	42	52	0.64
56025000063 WQD 80-398A	CLIFF'S CRANE AND EQUIPMENT REPAIR, INC.	-106	25	10.81	42	52	17.43
56025000068 WYS 025-049	COMMERCIAL BUILDING SYSTEMS	-106	26	0.17	42	52	31.68
56025000069 WQD 80-626B	COMPLETE TREE SERVICE	-106	25	10.15	42	52	16.06
56025000081 WYS 025-013	DIRECTIONAL INVESTMENT GUIDANCE	-106	25	46.13	42	51	55.86
56025000082 WQD 91-011	DON SABLE MONITOR WELLS	-106	25	46.96	42	52	16.50
56025000087 WQD 81-956	DRILLEX SYSTEMS INC.	-106	25	42.34	42	52	4.24
56025000092 WQD 79-320	EASTMAN CHRISTIANSEN (FORMERLY EASTMAN WHIPSTOCK)	-106	25	16.09	42	52	28.26
56025000095 WYS 025-008	ENERGY TRANSPORTATION INC.	-106	25	37.12	42	52	7.24
56025000104 WQD 81-461	GARGIULO, VINCENT A. ET UX	-106	25	59.92	42	52	10.98
56025000110 WQD 78-062	GHOST TOWN RESTAURANT & FUEL STOP (aka Connelly Oil)	-106	25	29.68	42	52	34.45

56025000113	WQD	80-498	GRACE DRILLING CO. (FORMERLY BRINKERHOFF SIGNAL CO.)	-106	25	11.06	42	51	51.04
56025000117	WQD	82-159	GURKIN CONSTRUCTION COMPANY	-106	25	50.25	42	51	58.96
56025000128	WYS	025-037	HOMCO INTERNATIONAL, INC. - CASPER	-106	25	21.96	42	52	24.15
56025000135	WQD	81-919	ICO PLATTE ROD & PIPE COMPANY	-106	25	29.46	42	51	52.04
56025000136	WQD	81-919	ICO PLATTE ROD & PIPE COMPANY	-106	25	29.46	42	51	52.01
56025000137	WQD	81-919	ICO PLATTE ROD & PIPE COMPANY	-106	25	29.32	42	51	52.01
56025000143	WYS	025-027	INTERIOR PARTITIONS	-106	26	1.46	42	52	38.93
56025000144	WQD	79-539	INTERMOUNTAIN ELECTRIC MOTOR	-106	26	0.53	42	52	26.14
56025000145	WQD	80-303	INTERMOUNTAIN POWER SYSTEMS	-106	25	26.61	42	52	38.65
56025000147	WYS	025-020	J.W. BREWER TIRE COMPANY	-106	25	45.72	42	52	39.23
56025000170	WQD	79-557R	M.J. METAL PRODUCTS COMPANY	-106	25	37.78	42	52	33.67
56025000172	WYS	025-044A	MAVRICK SALES COMPANY, LARKIN PRODUCTS DEALER	-106	25	5.57	42	52	15.29
56025000183	WQD	80-482	MMI BRAKE SUPPLY	-106	25	11.75	42	52	32.36
56025000189	WQD	79-248	NATRONA COUNTY WEED AND PEST CONTROL DISTRICT	-106	25	40.81	42	52	36.70
56025000200	WYS	025-040	OILIND SAFETY ENGINEERING	-106	25	15.98	42	52	20.94
56025000210	WQD	81-758	PARKER INDUSTRIAL CORPORATION	-106	25	50.69	42	52	10.54
56025000216	WQD	79-211A	PETCO FISHING AND RENTAL TOOLS	-106	25	31.00	42	52	21.97
56025000234	WQD	81-878	REED ROCKBIT COMPANY	-106	25	46.82	42	52	13.88
56025000247	WQD	81-488R	SCHLUMBERGER CORPORTATION	-106	25	55.86	42	52	17.61
56025000250	WQD	81-299	SCIENTIFIC DRILLING, INTERNATIONAL	-106	26	0.03	42	51	59.87
56025000252	WYS	025-034	SEVENTY ONE CONSTRUCTION	-106	25	36.99	42	52	4.03
56025000254	WYS	025-105	SIMMONS GROUP, DRILLING DIVISION	-106	25	46.11	42	51	55.94
56025000255	WYS	025-104	SIMMONS GROUP, DRILLING DIVISION	-106	25	45.89	42	51	55.94
56025000261	WQD	80-138	SMITH ENERGY, INC.	-106	25	47.97	42	51	51.60
56025000262	WQD	79-123	SMITH SALES COMPANY	-106	25	40.50	42	52	39.65
56025000267	WYS	025-055	SULZER BINGHAM WYOMING PUMP SERVICE FACILITY	-106	25	17.18	42	52	21.65
56025000268	WQD	81-190	SUPPERSTEIN STEEL SUPPLY	-106	25	42.18	42	51	51.74
56025000269	WQD	81-157	SWECO, INC.	-106	25	56.10	42	52	25.25
56025000274	WQD	82-172R	TELCO OILFIELD SERVICES	-106	25	47.34	42	52	19.00
56025000299	WQD	81-755	TIC, THE INDUSTRIAL COMPANY, WYOMING, INC.	-106	25	59.65	42	52	14.99
56025000301	WQD	78-144	TOTCO	-106	25	34.63	42	52	23.16
56025000303	WQD	81-191	TRI STATE EQUIPMENT COMPANY	-106	25	40.31	42	51	48.66
56025000304	WQD	81-759	TRIBOL	-106	25	51.16	42	52	22.83
56025000305	WQD	79-211C	TRICO INDUSTRIES, INC.	-106	25	32.07	42	52	15.36
56025000315	WYS	025-044B	UNIVERSAL PRODUCTS	-106	25	6.88	42	52	15.91
56025000332	WYS	025-007	VACANT FORMERLY ATCO STRUCTURES	-106	25	36.66	42	52	37.91
56025000333	WQD	82-073R	VACANT FORMERLY BAKER DRILLING MOTORS	-106	25	46.74	42	52	11.91
56025000334	WQD	80-509R	VACANT FORMERLY CAMESA CABLE, INC.	-106	25	19.68	42	52	39.42
56025000337	WQD	78-008	VACANT FORMERLY CONSTRUCTION SERVICE AND SUPPLY	-106	25	17.18	42	52	34.88
56025000344	WQD	80-595RR	VACANT FORMERLY WAGNER INTERNATIONAL	-106	25	23.09	42	52	35.89
56025000346	WQD	79-211B	VACANT, OFC RENTAL PROPERTY	-106	25	29.71	42	52	17.46
56025000347	WQD	81-762	VACANT, WILLIAM B. BATES RENTAL PROPERTY	-106	25	19.35	42	52	17.16
56025000348	WYS	025-109	VACANT, WILLIAM B. BATES RENTAL PROPERTY	-106	25	18.26	42	52	22.27
56025000349	WQD	80-626A	VACANT, WILLIAM B. BATES RENTAL PROPERTY	-106	25	8.07	42	52	16.54
56025000350	WQD	78-119	VACANT, WILLIAM B. BATES RENTAL PROPERTY	-106	25	13.59	42	52	19.23
56025000351	WQD	80-398B	VACANT, WILLIAM B. BATES RENTAL PROPERTY	-106	25	12.60	42	52	18.24
56025000352	WQD	81-762B	VACANT, WILLIAM B. BATES RENTAL PROPERTY	-106	25	20.43	42	52	18.13
56025000363	WQD	81-445	WILLIAMS INSULATION	-106	25	58.93	42	52	22.75
56025000368	WYS	025-066	WYOMING PAINTING AND DRYWALL, INC.	-106	25	37.01	42	52	4.03
56025000370	WQD	80-018	WYOMING TIRE CORPORATION	-106	25	46.71	42	52	29.62

T34R80S35WPG.PAT

5 RECORD(S)

WELLNUM	PERMIT	NAME	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
56025000130	WYS 025-026	HOT SPRINGS COUNTY REA, INC.	-106	24	9.29	42	51	58.63
56025000222	WYS 025-045	PLATTE PIPELINE COMPANY	-106	24	20.08	42	51	48.91
56025000335	WYS 025-005	VACANT FORMERLY CASPER GRINDING AND SUPPLY	-106	24	25.44	42	52	4.33
56025000364	WYS 025-015	WILSON DOWNHOLE	-106	24	29.15	42	52	1.90
56025000371	WQD 77-227	YATES ARMY SURPLUS FORMERLY SUPERIOR SUPPLY COMPANY	-106	24	40.98	42	52	5.54

SECTION MONITOR WELL POINT COVERAGES

T33R78S5MPG.PAT
25 RECORD(S)

PERMIT	MW_ID	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
WYS 025-107	DS15	-106	13	59.96	42	51	18.45
WYS 025-107	DSIMW-1	-106	13	59.71	42	51	21.47
WYS 025-107	DSIMW-2	-106	14	1.22	42	51	20.00
WYS 025-107	DSIMW-3	-106	13	57.41	42	51	21.07
WYS 025-107	DSIMW-4	-106	13	56.69	42	51	22.63
WYS 025-107	DSIMW-6	-106	13	57.60	42	51	23.79
WYS 025-107	EPA 1-1	-106	13	25.13	42	51	49.57
WYS 025-107	EPA 1-2	-106	13	38.65	42	51	32.79
WYS 025-107	EPA 1-6	-106	13	46.61	42	51	26.02
WYS 025-107	EPA 1-7	-106	13	51.61	42	51	26.18
WYS 025-107	EPA 2-1	-106	13	10.58	42	51	44.57
WYS 025-107	EPA 2-10	-106	13	55.40	42	51	25.32
WYS 025-107	EPA 2-15	-106	13	53.31	42	51	25.43
WYS 025-107	EPA 2-2	-106	13	29.23	42	51	41.34
WYS 025-107	EPA 2-3	-106	13	40.13	42	51	45.41
WYS 025-107	EPA 2-8	-106	13	48.26	42	51	25.10
WYS 025-107	EPA 2-9	-106	13	50.76	42	51	25.32
WYS 025-107	MKMW1	-106	13	56.66	42	51	23.77
WYS 025-107	MW 878	-106	13	59.60	42	51	23.79
WYS 025-107	MW872	-106	13	59.49	42	51	19.44
WYS 025-107	MW874	-106	13	59.55	42	51	20.58
WYS 025-107	MW877	-106	13	57.46	42	51	21.57
WYS 025-107	OBG3	-106	13	54.00	42	51	32.39
WYS 025-107	PCMW2	-106	13	53.07	42	51	23.70
WYS 025-107	PCMW4	-106	13	53.15	42	51	21.84

T33R78S6MPG.PAT
79 RECORD(S)

PERMIT	MW_ID	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
UIC84-449	SS-21	-106	15	23.21	42	51	41.04
UIC84-449	SS-34	-106	15	11.12	42	51	44.79
UIC84-449	1	-106	15	34.61	42	51	50.94
UIC84-449	11	-106	15	43.92	42	51	45.97
UIC84-449	12	-106	15	46.03	42	51	44.37
UIC84-449	13	-106	15	46.28	42	51	42.55
UIC84-449	14	-106	15	46.22	42	51	41.93
UIC84-449	2	-106	15	27.16	42	51	44.37
UIC84-449	3	-106	15	26.07	42	51	43.67
UIC84-449	4	-106	15	36.17	42	51	40.96
UIC84-449	48	-106	15	47.85	42	51	43.99

UIC84-449	5	-106	15	37.55	42	51	45.52
UIC84-449	6	-106	15	42.38	42	51	48.69
UIC84-449	7	-106	15	13.07	42	51	45.63
UIC84-449	8	-106	15	15.82	42	51	45.66
UIC84-449	9	-106	15	33.26	42	51	44.76
UIC84-449	B-1	-106	15	23.76	42	51	38.24
UIC84-449	B-2	-106	15	23.73	42	51	37.87
UIC84-449	SS-1	-106	15	29.20	42	51	45.49
UIC84-449	SS-10	-106	15	47.52	42	51	44.28
UIC84-449	SS-10	-106	15	25.16	42	51	44.05
UIC84-449	SS-11	-106	15	8.84	42	51	45.04
UIC84-449	SS-12	-106	15	46.09	42	51	53.69
UIC84-449	SS-16	-106	15	11.10	42	51	43.35
UIC84-449	SS-17	-106	15	14.86	42	51	41.28
UIC84-449	SS-18	-106	15	25.05	42	51	43.53
UIC84-449	SS-19	-106	15	28.21	42	51	44.87
UIC84-449	SS-2	-106	15	38.07	42	51	53.48
UIC84-449	SS-20	-106	15	32.00	42	51	34.40
UIC84-449	SS-21	-106	15	38.92	42	51	36.51
UIC84-449	SS-22	-106	15	50.65	42	51	39.71
UIC84-449	SS-23	-106	15	43.45	42	51	43.46
UIC84-449	SS-24	-106	15	42.41	42	51	49.57
UIC84-449	SS-25	-106	15	40.26	42	51	45.07
UIC84-449	SS-26	-106	15	34.39	42	51	44.61
UIC84-449	SS-27	-106	15	46.03	42	51	48.13
UIC84-449	SS-28	-106	15	39.88	42	51	41.55
UIC84-449	SS-29	-106	15	32.00	42	51	43.31
UIC84-449	SS-3	-106	15	38.78	42	51	53.54
UIC84-449	SS-30	-106	15	19.45	42	51	41.43
UIC84-449	SS-32	-106	15	42.35	42	51	36.85
UIC84-449	SS-33	-106	15	13.76	42	51	45.82
UIC84-449	SS-34	-106	15	27.49	42	51	47.80
UIC84-449	SS-35	-106	15	27.63	42	51	47.25
UIC84-449	SS-36	-106	15	32.66	42	51	50.92
UIC84-449	SS-37	-106	15	33.29	42	51	50.56
UIC84-449	SS-39	-106	15	10.41	42	51	44.68
UIC84-449	SS-4	-106	15	19.34	42	51	47.13
UIC84-449	SS-40	-106	15	42.82	42	51	50.67
UIC84-449	SS-41	-106	15	38.56	42	51	45.99
UIC84-449	SS-42	-106	15	33.78	42	51	44.49
UIC84-449	SS-43	-106	15	36.23	42	51	48.71
UIC84-449	SS-44	-106	15	33.98	42	51	47.41
UIC84-449	SS-45	-106	15	29.64	42	51	42.18
UIC84-449	SS-46	-106	15	40.26	42	51	47.30
UIC84-449	SS-47	-106	15	30.84	42	51	38.95
UIC84-449	SS-48	-106	15	45.76	42	51	36.65
UIC84-449	SS-5	-106	15	19.89	42	51	47.08
UIC84-449	SS-50	-106	15	29.97	42	51	42.51
UIC84-449	SS-51	-106	15	33.78	42	51	40.79
UIC84-449	SS-52	-106	15	31.50	42	51	48.50

UIC84-449	SS-53	-106	15	32.24	42	51	45.74
UIC84-449	SS-54	-106	15	30.18	42	51	46.69
UIC84-449	SS-55	-106	15	21.37	42	51	43.01
UIC84-449	SS-6	-106	15	1.90	42	51	40.03
UIC84-449	SS-9	-106	15	22.71	42	51	31.90
UIC91-213	1	-106	14	56.51	42	51	20.31
UIC91-213	10	-106	14	52.64	42	51	17.44
UIC91-213	11	-106	14	54.07	42	51	18.20
UIC91-213	2	-106	14	51.84	42	51	20.07
UIC91-213	2	-106	14	47.34	42	51	19.17
UIC91-213	4	-106	14	54.45	42	51	14.32
UIC91-213	5	-106	14	54.26	42	51	18.48
UIC91-213	6	-106	14	56.68	42	51	19.29
UIC91-213	7	-106	14	58.87	42	51	20.42
UIC91-213	8	-106	14	48.71	42	51	13.37
UIC91-213	9	-106	14	55.39	42	51	18.63
UIC91-213	CP-1	-106	14	56.70	42	51	20.46
UIC91-213	CP-2	-106	14	54.07	42	51	13.66

T33R80S3MPG.PAT
8 RECORD(S)

PERMIT	MW_ID	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
WQD79-255	MGF-1	-106	25	8.01	42	51	27.79
WQD79-255	MGF-2	-106	25	7.24	42	51	25.58
WQD79-255	MGF-3	-106	25	3.97	42	51	25.57
WQD79-255	MGF-4	-106	25	0.79	42	51	25.72
WQD81-844	MW-1	-106	25	3.78	42	51	39.96
WQD81-844	MW-2	-106	25	4.50	42	51	40.55
WQD81-844	MW-3	-106	25	5.15	42	51	40.04
WQD81-844	MW-4	-106	25	4.11	42	51	39.56

T34R79S20MPG.PAT
8 RECORD(S)

PERMIT	MW_ID	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
WQD78-143R	MW-1	-106	20	2.10	42	53	43.69
WQD78-143R	MW-2	-106	19	59.57	42	53	43.18
WQD78-143R	MW-3	-106	19	56.52	42	53	42.54
WQD78-143R	MW-4	-106	19	54.54	42	53	42.08
WQD78-143R	MW-5	-106	20	3.28	42	53	43.54
WQD78-143R	MW-6	-106	19	59.30	42	53	42.45
WQD78-143R	MW-7	-106	19	57.81	42	53	42.02
WQD78-143R	MW-8	-106	20	4.54	42	53	40.82

T34R79S32MPG.PAT
3 RECORD(S)

PERMIT	MW_ID	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
WQD77-460	SC-1	-106	21	0.13	42	52	10.97
WQD77-460	SC-2	-106	20	58.37	42	52	10.51
WQD77-460	SC-3	-106	20	58.81	42	52	9.70

T34R80S28MPG.PAT
3 RECORD(S) SELECTED

PERMIT	MW_ID	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
WQD89-254	MW-1	-106	26	10.72	42	52	46.69
WQD89-254	MW-2	-106	26	13.21	42	52	46.59
WQD89-254	MW-3	-106	26	13.16	42	52	45.09

T34R80S34MPG.PAT
25 RECORD(S)

PERMIT	MW_ID	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
WQD79-622	HPC-1	-106	25	23.67	42	52	39.86
WQD79-622	HPC-2	-106	25	21.30	42	52	40.52
WQD79-622	HPC-3	-106	25	21.47	42	52	41.48
WQD79-622	HPC-4	-106	25	21.44	42	52	39.82
WQD80-138	MW-1	-106	25	51.60	42	51	47.61
WQD80-138	MW-2	-106	25	51.85	42	51	52.34
WQD80-138	MW-3	-106	25	48.30	42	51	51.51
WQD80-138	MW-4	-106	25	44.49	42	51	53.35
WQD80-138	MW-5	-106	25	44.24	42	51	51.63
WQD80-482	MMI-1	-106	25	13.23	42	52	32.33
WQD80-482	MMI-2	-106	25	10.59	42	52	31.79
WQD80-482	MMI-3	-106	25	12.24	42	52	31.24
WQD81-845	CER-1	-106	25	46.08	42	52	1.17
WQD81-845	CER-2	-106	25	45.23	42	51	59.83
WQD81-845	CER-2	-106	25	46.30	42	51	59.95
WQD81-845	CER-4	-106	25	47.01	42	51	59.71
WQD91-011	MW52091	-106	25	48.25	42	52	12.55
WYS025-035	CTC1	-106	25	55.00	42	51	58.14
WYS025-035	CTC2	-106	25	56.76	42	51	57.12
WYS025-035	CTC3	-106	25	54.59	42	51	56.57
WYS025-037	CAS1-1	-106	25	19.74	42	52	22.76
WYS025-037	CAS1-2	-106	25	22.05	42	52	23.67
WYS025-037	CAS1-3	-106	25	25.07	42	52	22.93
WYS025-037	CAS1-4	-106	25	24.24	42	52	23.28
WYS025-037	CAS1-5	-106	25	20.73	42	52	21.64

T34R80S35MPG.PAT

4 RECORD(S)

PERMIT	MW_ID	DLONG	MLONG	SLONG	DLAT	MLAT	SLAT
WYS025-045	MW-1	-106	24	21.07	42	51	48.62
WYS025-045	MW-2	-106	24	22.17	42	51	50.23
WYS025-045	MW-3	-106	24	19.78	42	51	49.31
WYS025-045	MW-4	-106	24	19.09	42	51	48.99