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Groundwater Investigation Summary Report

ChevronTexaco Eunice #2 (North) Plant
Eunice, Lea County, New Mexico

Volume 1
Text, Tables, Appendices A-C

October 9, 2003

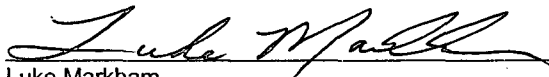


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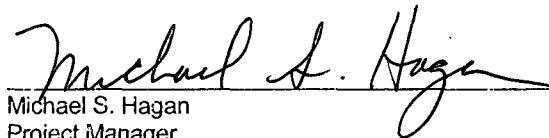
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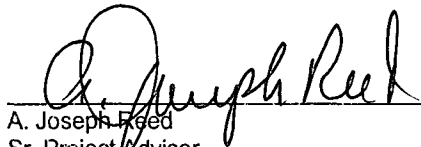
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Groundwater Investigation Summary Report

ChevronTexaco Eunice #2
(North) Plant
Eunice, Lea County, New
Mexico

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1. INTRODUCTION

This report is intended to provide a comprehensive summary of the results of the current groundwater investigation conducted by ARCADIS G&M, Inc. (ARCADIS) from 2001 through the May-June 2003 sampling event on behalf of ChevronTexaco Exploration and Production, Inc. (ChevronTexaco) at the Eunice #2 (North) Gas Plant (Site). The plant site is located on the northern edge of the town of Eunice in Lea County, New Mexico.

ARCADIS began its investigations in 2001, and activities since that time have included the installation of 53 monitoring wells, 3 recovery wells and 2 injection wells. The new and existing wells have been sampled and the samples analyzed. Aquifer testing has been conducted on the recovery wells. Soil investigations have also been conducted by ARCADIS at this site, and those results are presented under a separate cover.

Prior to the involvement of ARCADIS in the environmental evaluation of the Site, another contractor had conducted an initial investigation of the soil and groundwater. The prior investigation began in 1995 and continued through 2000. The reports associated with that investigation are listed in Section 1.3, but will not be discussed in detail in this report.

1.1 PURPOSE AND OBJECTIVES OF INVESTIGATION

The purpose of the current investigation is to identify and document environmental impacts with respect to the following issues:

- The horizontal and vertical extent of chromium, hydrocarbon and chloride impacts in the groundwater associated with the Site;
- Groundwater hydraulic parameters;
- Possible receptors; and
- Groundwater remedial options.

To accomplish the purpose of the current investigation, specific objectives included the following:

- Identification of the properties and pathways by which migration occurred in the past, may currently be occurring, or may occur in the future;
- Delineation of areas where the groundwater has been impacted beyond the boundary of the Site; and
- Development of physical and chemical data relating to impacted groundwater at the Site for the purpose of selecting remedial alternatives.

These objectives have been or are currently being accomplished by the following activities:

- Collection of groundwater analytical data to confirm the results of data collected prior to 2001;
- Collection of additional groundwater analytical data during quarterly sampling events, preparation of isopleth maps to determine the nature and extent of constituents of concern (COCs), and observation of general groundwater quality trends;
- Collection of field parameters during sampling events;
- Quarterly measurements of water levels and preparation of potentiometric surface maps for the purpose of estimating groundwater flow and rate of movement;
- Performance of pump testing at individual wells for the purpose of estimating the hydraulic characteristics of the aquifer involved;
- Initiation of an In-situ Reaction Zone (IRZ) remediation Phase 1 project to evaluate the effectiveness of this remediation method, and the practicality of a full scale IRZ remediation system; and
- Partial remediation and closure of the North Sump hydrocarbon source area.

1.2 SITE BACKGROUND AND LOCATION

A former gas plant (constructed in the 1940s) was operated on the Site. The Site is no longer being operated as a gas plant. It is located approximately 0.25 miles north of

the town of Eunice, in the south ½ (S/2) of the southeast quarter (SE/4) of the northeast quarter (NE/4) of Section 28, Township 21 South (T-21-S) Range 37 East (R-37-E) Lea County, New Mexico. The plant has been partially dismantled, and is currently being operated as a compressor station by Dynegy Midstream Services, L.P. (Dynegy). Figure 1 presents the Site location map.

1.3 PREVIOUS GROUNDWATER INVESTIGATION

An environmental investigation conducted prior to the current investigation at the Site resulted in the following reports prepared by Highlander Environmental Corp. (Highlander) and submitted to the New Mexico Oil Conservation Division (NMOCD):

- *Subsurface Environmental Assessment Report, Texaco Exploration and Production Inc., Eunice #2 (North) Gas Plant- 1996.* The stated purpose of the assessment was to determine if subsurface releases of petroleum hydrocarbons to soil and groundwater had occurred from operations at the Site. The assessment consisted of installing hand auger and machine (rotary drilled) soil borings at various Site operation areas and collection of soil samples for field and laboratory testing. One monitor well (MW001) was also installed as part of a ongoing investigation to evaluate soil and groundwater conditions in the vicinity of the compressor building;
- *Final Investigation Report, Texaco Exploration and Production Inc., Eunice #2 (North) Gas Plant, Lea County, New Mexico, May 1997.* The stated purpose of this "comprehensive facility investigation" was to delineate and characterize the lateral and vertical extent of groundwater contamination identified at the Site;
- *Addendum Final Investigation Report Texaco Exploration and Production Inc., Eunice #2 (North) Gas Plant, Lea County, New Mexico, January 1998.* The stated purpose of this "additional investigation" was to delineate the extent of dissolved chromium and hydrocarbons detected in groundwater during the "comprehensive facility investigation";
- *Aerial photographs, groundwater potentiometric surface maps, and concentration isopleth maps of chloride and total dissolved solids (TDS) for the upper (shallow) and Lower (deep) portions of the aquifer.* This information was submitted to the NMOCD in July 1998; and

- *Final Groundwater Plume Delineation Report, Eunice #2 (North) Gas Plant, Eunice, New Mexico, March 2000.* The stated purpose of the "additional investigation" was to further delineate dissolved chromium and hydrocarbon impact in the groundwater.

2. PHYSICAL CHARACTERISTICS OF THE AREA

The following sections identify the physical characteristics of the Site and surrounding area including the physiological, topographical, geological and hydrological conditions.

2.1 PHYSIOLOGY

The Site lies in southern Lea County in the Pecos Valley section of the Great Plains physiographic province. The Site lays within the Eunice Plain, which is bounded by the South Plain to the south, the Rattlesnake Ridge to the east, the High Plains to the northeast, the Laguna Valley and Grama Ridge Area to the northwest, the San Simon Ridge and San Simon Swale to the west and the Antelope Ridge Area to the southwest. An estimated 80% of southern Lea County is covered by sand. Shin oak, bear grass and bur-grass dominate the areas of sand cover. Elsewhere, the vegetation is grama grass, bur-grass and mesquite.

2.2 TOPOGRAPHY

Monument Draw is the only major surface drainage feature in southern Lea County. The draw runs north to south slightly over two miles east of the Site. The basic topography in the area of the plant slopes gently to Monument draw at an approximate dip of 35 feet per mile. Small closed basins or playas exist on this sloping surface. The sewage treatment plant for the town of Eunice lies approximately 4,300 feet southeast of the southeast corner of the Site and northeast of the center of Eunice.

2.3 GEOLOGY

The geologic formations of interest at the Site include (from oldest to youngest); the Triassic Chinle; Cretaceous undifferentiated; Tertiary Ogallala; and Quaternary alluvium, designated the Blackwater Draw Formation. Of particular interest with regard to the impact of COCs released to groundwater are the Tertiary Ogallala and Quaternary Blackwater Draw.

2.3.1 Triassic Chinle Formation

The Triassic Chinle is composed of red and green claystone, with minor fine-grained sandstones and siltstones. It is found to exist under all of the eastern part of southern Lea County, thinning to the west and absent in the extreme western part of the county. The Chinle forms the base of the fresh groundwater due to the formation's low vertical (and generally horizontal) permeability that impedes most vertical groundwater movement into the formation. The top of the Chinle (base of the Ogallala Aquifer) is an erosional surface that rises in elevation from west to east under the plant site. Just east of the plant, the Chinle top begins to dip to down, toward Monument Draw (See Figures 77 and 78).

2.3.2 Cretaceous Formations Undifferentiated

The Cretaceous formations, undifferentiated, have almost all been removed by erosion and are essentially nonexistent in the Site area. The only known exposure of Cretaceous rocks consists of large slump blocks of limestone in a gravel pit east of the town of Eunice. Semi-consolidated sands and gravels of possible lower Cretaceous, the equivalent of the Paluxy sand, have been described from exposures in gravel pits east of Eunice. However, the sand and gravel sequence also has characteristics of the Tertiary Ogallala described below. The Cretaceous has not been encountered at the Site.

2.3.3 Tertiary Ogallala Formation

The lower Tertiary Ogallala Formation is composed of fluvial sediments of the Miocene-Pliocene epochs. It is a heterogeneous combination of clay, silt, sand and gravel of braided-stream deposits interbedded with, and overlain by, eolian sediments deposited as sand sheets and loess resting directly upon an erosional surface carved into the Triassic Chinle Formation under the Site (See Figures 75, 76 and 77). The fluvial sediments were deposited on a sloping plain in the form of coalescing alluvial fans, by streams that originated in the Rocky Mountains to the west and northwest. The Ogallala Formation was deposited in laterally restricted lenses of material, predominantly medium to yellowish-gray conglomeratic sandstone and fine to medium-grained well-sorted sandstone. The primary fresh water-bearing formation under and in the vicinity of the plant site is the Ogallala.

In contrast to the fluvial deposition of the lower Ogallala sediments, the upper part of the Ogallala and all of the Blackwater Draw Formation overlying the Ogallala are composed of windblown (eolian) deposits. In exposures and cores described in the literature, the very fine sand facies of the upper Ogallala are thick, ranging up to 125 feet, and are capped by the Caprock caliche or calcrete. The Caprock caliche marks the top of the Ogallala.

2.3.4 Quaternary Blackwater Draw Formation

The Blackwater Draw Formation occurs as a mantle of Quaternary eolian sediment locally as thick as 100 feet, covering an area of the Southern High Plains of northeastern Texas and eastern New Mexico. Throughout the depositional time of the Blackwater Draw, laterally restricted lenticular layers of eolian and playa or lacustrine facies were formed. The Blackwater Draw occurs near the ground surface at the plant site and contains reddish sediments composed of up to six well-developed buried soils with similar features of lithology and morphology. The soil development occurred during periods of landscape stability, separated by intermittent periods of deposition, or by deflation that stripped surface horizons from newly developed soils.

2.4 HYDROLOGY

The primary source of fresh water at the Site is the Ogallala Formation. It is bounded on the base of the aquifer by the lowest geologic unit described in the Site investigations, a firm red silty clay of the Chinle Formation. Overlying this unit is a 5 to 10 foot interval of gravel/sand/clay, which in this study is informally termed the "deep" water-bearing zone in the Ogallala aquifer. The gravel unit is in turn overlain by a red to yellow sand that exhibits vertical heterogeneity with alternating layers of loose and well-consolidated sand. This overlying unit constitutes the "shallow-middle" water-bearing zone. Wells screened in the gravel unit have 40 to 50 feet of hydraulic head. Wells screened in the shallow-middle water-bearing zone of the groundwater have screens that intersect the groundwater table and typically have 10 to 45 feet of saturation. Overall depth to groundwater varies roughly with local topography and ranges from 37 to 73 feet below the surface.

Regionally, the groundwater gradient is to the southeast. However, a water table high exists south of the plant site, creating a hydraulic gradient that has southwest, west, northwest, north, and northeast trends (See Figure 85). The elevations of the groundwater in the shallow-middle and deep zones are similar, indicating that there is hydraulic conductivity between the zones. The maps included in this report show the

water table elevation contours and resulting directions of groundwater flow occurring at the time of various water level measurements throughout the period of study at the Site.

The groundwater in the area may extend into the eolian portion of the upper Ogallala, but lies below the Blackwater Draw Formation. The Ogallala aquifer in the subject area is hydraulically unconfined.

3. INVESTIGATION METHODS AND RESULTS

This section presents the methods and results of each type of data collection conducted during the groundwater investigation. The data collection types include observations and measurements made in the field as well as sampling protocol and laboratory analytical methods. The summarized results of observations and analyses for the specified media and parameters are included in Table 3 through Table 6; field parameters are included in Table 7.

3.1 GROUNDWATER INVESTIGATIONS

The groundwater investigation was designed and conducted to accomplish the following goals:

1. Evaluate the structure and composition of each stratum to refine the geological framework;
2. Define the constituents of concern (COCs)
3. Define the vertical and horizontal extent of groundwater impact; and
4. Analyze and estimate the hydraulic characteristics of the shallow-middle and deep portions of the water-bearing unit.

3.1.1 Well Design, Development, and Sampling

Injection, recovery, and monitoring well design and construction and the development and sampling of these wells, were all governed by the specific characteristics of the hydrogeological unit penetrated and the intended purpose of the well. The design, construction, development and sampling details for each well type are discussed in the following sections. Drilling was conducted by Scarborough Drilling Company of Lamesa, Texas. An air/water rotary drilling rig was utilized for the drilling of all wells.

3.1.1.1 Monitoring Well Design

The monitoring wells were installed in order to delineate the horizontal and vertical extent of chromium and hydrocarbon impacts in the groundwater. To date, there are 93 wells included in the monitoring program as part of the groundwater investigation. These monitor wells were installed on the Site, as well as properties adjacent to the Site.

The design and construction of the monitoring wells vary due to the site-specific geology, depth to groundwater and saturated formation thickness encountered during drilling. Monitoring well nomenclature is based upon the well construction. Monitoring wells with screened intervals in the shallow or shallow/middle portion of the aquifer have a numeric suffix. Three monitoring wells with screened intervals only in the middle portion of the aquifer have an "M" suffix. Monitoring wells with screened intervals in the deep portion of the aquifer have an "A" suffix. Monitoring wells with screened intervals fully-penetrating from the shallow to the deep portion of the aquifer have an "SA" suffix. The wells designated "SA" are located on the eastern side of the Site in an area where the Ogallala thins significantly and a true distinction cannot be made between the shallow, middle and lower portions of the Ogallala.

Of the 93 monitor wells on the Site, 49 wells are designated shallow or shallow/middle zone monitor wells, 27 wells are designated deep-zone monitor wells and 17 wells are designated fully-penetrating monitor wells. The well locations are presented on Figure 2, and a detailed well construction summary is presented in Table 1. In addition, monitoring well construction diagrams and lithologic logs are presented in Appendix B.

All monitor wells were drilled with an air/water rotary drilling rig and completed with 4-inch PVC casing and 0.020-inch PVC mill-slotted screen. The screens are gravel packed with 8/16 silica sand to a point approximately three to five feet above the top of the screen. Three to five feet of bentonite has been placed on top of the gravel pack, and the balance of the annular space between the casing and borehole wall has been grouted to the surface with a five-percent bentonite/cement slurry, circulating to the surface. A three-foot by three-foot concrete slab six inches thick has been placed around the casing for both flush-mount wells and wells with risers and steel, locking, protective sleeves. The flush-mount wells have standard traffic-bearing manhole covers. Each well has been developed by bailing and subsequent pumping until the well cleared of suspended material and lost drilling fluid was recovered.

At the time the wells were drilled, drill cuttings were analyzed by an ARCADIS geologist on all wells drilled under ARCADIS supervision. Well locations and the top of the casing elevations have been surveyed by a State of New Mexico Registered Surveyor. Well logs showing subsurface lithologic descriptions and well completion data have been drafted and are located in Appendix B.

3.1.1.2 Recovery Well Design

Three permanent recovery wells were constructed during the aquifer evaluation for the purpose of estimating the aquifer hydraulic characteristics. (One recovery well, RW-1, drilled by the previous investigator, was intended for preliminary aquifer testing, but due to completion questions has not been utilized by ARCADIS for its designed purpose). RW002 and RW003 were completed at a total depth of approximately 65-feet below ground level (bgl) and screened to approximately 45-feet bgl. These two wells were used to evaluate the shallow water-bearing unit. RW004A was completed at 115-feet bgl and screened to 95-feet bgl. This well was used to evaluate the deep water-bearing unit. RW004A has since been converted to an injection well.

All recovery wells are constructed with 6-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, PVC mill-slotted screen, 8/16 silica sand filter pack and a hydrated bentonite seal. The well annulus is grouted to the surface with 5 percent bentonite-cement slurry. A 3-foot by 3-foot by 0.5-foot concrete foundation has been constructed and a 3-foot tall locking protective sleeve installed around each wellhead.

An ARCADIS geologist analyzed the drill cuttings at the well site during the drilling operation. Well locations and the top of the casing elevations have been surveyed by a State of New Mexico Registered Surveyor. Well logs showing subsurface lithologic descriptions and well completion data have been drafted and are located in Appendix B.

3.1.1.3 Injection Well Design

Two injection wells (IW001 and IW002) were constructed for the IRZ Remediation Phase 1 Study. These wells are serving as injection points for the introduction of carbon substrate fluids into the groundwater-bearing unit. IW001 and IW002 are completed at a total depth of 90 feet bgl and screened from 35-90 feet bgl. The screened intervals incorporate the shallow/middle portion of the aquifer. The well construction consists of 4-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, mill slotted screen, an 8/16 silica sand filter pack and a hydrated bentonite

seal. The well annulus has been grouted to the surface with 5 percent bentonite-cement slurry. A 3-foot by 3-foot by six-inch concrete foundation has been constructed and a 3-foot tall locking protective sleeve installed around each wellhead. A State of New Mexico Registered Surveyor has surveyed well locations and top of casing elevations. Drill cuttings were analyzed by an ARCADIS geologist during the drilling of the wells, and well logs showing subsurface lithologic descriptions and well completion data have been drafted. Well logs for the injection wells are located in Appendix B.

3.1.1.4 Well Development

During the well construction, drilling fluids were introduced into the well bore to maintain the integrity of the hole while drilling. Wells were developed upon installation. The well development was intended to remove any fluids introduced to the well and the aquifer during installation as well as to remove suspended sand, silt or clay. Initially, each well was bailed to remove settled sand, silt or clay. Following the bailing, the wells were purged with a submersible pump for approximately three hours or until 1,000 gallons were removed. Additionally, purging continued until pH, temperature, and conductivity values of the groundwater had stabilized.

3.1.1.5 Well Sampling

Following well installation and development, groundwater samples were collected. Samples were collected using disposable bailers to minimize potential for cross-contamination between sampling locations.

Groundwater samples were analyzed for BTEX, TPH, dissolved hexavalent chromium, arsenic, barium, cadmium, chromium (Total), lead, mercury, selenium, silver, general groundwater chemistry and major ions. The analytical methods for these samples are contained in Section 3.1.4.4.

3.1.2 Water Well Inventory and Results

During the previous investigation, a water well search was conducted within a one-mile radius of the Site through a review of New Mexico State Engineer's records and field reconnaissance. That investigation revealed records for 12 water wells. An additional investigation was conducted by ARCADIS to confirm the water well locations through visual inspection. The field investigation yielded the following seven water well confirmations of the 12 wells identified previously:

- BlackWW (Lloyd Black);
- CriswellWW (D. M. Criswell);
- EPWW1 (Skelly Gas Plant #2);
- GOPWW2 (Gulf Oil Corp.);
- RowlandWW (R.L. Mclean);
- SGPWW2 (Skelly Gas Plant #2- plugged and abandoned with no access); and
- WoodellWW (Ronnie Worden)

In addition, the following well, now identified by the previous investigation, was identified in the field by ARCADIS:

- LordWW (Bob Lord);

The water well locations with the exception of SGPWW2, are presented in Figure 2. Records for five other water wells within a one-mile radius to the east of the Site have been located in published records. These wells have not been located on the ground.

3.1.3 Groundwater Level Monitoring

Water level measurements were collected for the purpose of mapping the water table and determining the hydraulic gradient. These measurements were taken prior to purging or sampling of the monitor wells. The depth to water from the established measuring point for each well was measured using a battery-powered water level meter. Measurements for each well were taken from the same permanent, clearly marked, surveyed reference point (measuring point) marked on the top of the PVC casing. The depths to water were recorded to the nearest hundredth of a foot. The elevation of the water level with respect to mean sea level was calculated and reported to the nearest hundredth of a foot.

Each groundwater monitoring event included a measurement of the water level in each monitor well, recovery well and water well available at the time of the monitoring event. Currently there are 93 monitor wells, four recovery wells, five water wells and two injection wells available for water level collection. In addition to the measurement

of water levels, MW005 and MW006 were examined for the presence of phase-separated hydrocarbons using an oil-water interface probe.

The water level meter and the oil-water interface probe were decontaminated prior to their use in each well. Decontamination was conducted using a low phosphate, laboratory grade detergent followed by a deionized water rinse. The measurement probe and the oil-water interface probe were inspected for proper operation prior to each groundwater monitoring event. This ensured that accurate measurements of the water level were made during each event. In addition, the total depth of the well and the casing stickup above ground surface were measured on each well.

3.1.4 Groundwater Sampling

This section describes the field methods and procedures used during the groundwater sampling events conducted during the course of this investigation. The last four sampling events have been conducted on a quarterly basis. As discussed in the Recommendations Section below, subsequent sampling events are planned to be on a semi-annual basis. These methods and procedures cover purging, field parameter collection and field documentation including field forms and field notes.

3.1.4.1 Low-Flow Purging of Wells

Low-flow purging of wells to be sampled was initiated early in the current investigation to provide more consistent and representative samples and to reduce the volume of waste from the purging process. This technique, approved by the United States Environmental Protection Agency (EPA), has been used for most sampling events and on most wells until recently. However, as sampling data was evaluated from succeeding sampling events, it became apparent that low-flow purging was not picking up the apparently stratified chromium in the aquifer. This was demonstrated by comparing low-flow purge with well pump purge sampling results. In the comparison process, it was demonstrated that the well pump purge gave higher chromium results than the low-flow purge procedure in some wells (see Table 9). For this reason, well pump purging is being reinitiated as the preferred purging procedure and will be consistently used in the future on all wells with the exception of the carbon substrate injection wells. The low-flow purge procedure will be used on the injection wells to prevent the displacement of the carbon substrate in the well.

In the sampling events for which the low-flow purging was utilized, the following purging procedures were followed:

1. Prior to sampling, each monitor well was purged at a low flow rate. This was achieved by pumping groundwater in such a manner as to minimize drawdown and until monitored field parameters stabilized in the purged water;
2. A 2-inch air-driven bladder pump was used for the low-flow purging procedure;
3. To minimize cross-contamination, a new disposable bladder was installed on the pump during the decontamination process and prior to placing the pump in the next well; and
4. Each well had dedicated tubing.

3.1.4.2 Collecting Field Parameters

Stabilization of the groundwater during the low-flow purging process was established by monitoring field parameters. The equipment used for the field measurements was calibrated at least once during each day of the sampling event. An HORIBA™ U-22.23 multi-meter was utilized to monitor these field parameters prior to September 2002. Beginning in September 2002, field parameters were collected with a QED Micropurge Basics™ MP20D multi-meter. Low-flow purging of each well to be sampled continued until the field measurements of pH, temperature, specific conductance, oxidation-reduction potential and dissolved oxygen of the purged water had stabilized within a specified range of the previous measurements. The specified ranges for the measured parameters were:

1. Dissolved oxygen and pH: plus or minus 0.2 units;
2. Specific conductance: plus or minus 0.02 units; and
3. Oxidation-reduction potential: plus or minus 20 units.

During purging, water levels were measured to monitor drawdown in the well. In addition, field tests for ferrous iron and hydrogen sulfide were conducted using HACH™ test kits. A summary of the field parameters collected is presented in Table 7.

3.1.4.3 Documenting Field Activities

Field documentation includes preprinted field forms as well as field notes completed by the sampling personnel. Pre-printed well sampling logs were used to record the field parameters. In addition, color, odor, appearance, pumping rate, pump settings, purge times, sampling times and any other pertinent observations were recorded. All information related to a sampling event was recorded in bound field notebooks. The entries in the field notebook were recorded with black indelible ink. Information recorded in the field notes included the project, location, date, time, weather conditions, name and identity of sampling personnel and all other pertinent notes.

3.1.5 Groundwater Analytical Methods and Procedures

This section discusses the methods and procedures utilized for sample collection, sample containers, preservation of the samples, sampling order and sample labeling. Analytical methods including shipment of samples to the analytical laboratory and field analytical methods are also discussed.

3.1.5.1 Sample Collection

The methods and procedures associated with sample collection include sample container selection, preservation, filtration and the order in which samples will be collected.

The volume of samples and types of sample containers used depend on the parameters to be analyzed. The EPA guidelines for sample containers, preservation, holding times, etc. (as presented in Table 8) were adhered to during sampling events conducted at this site. Some of the primary elements of the EPA guidelines adhered to in the sampling events conducted during the current investigation are:

1. All samples were kept at, or below, a temperature of 4° Celsius (°C) from the time of collection until delivery to the analytical laboratory.
2. Samples for analysis of dissolved metals, including dissolved hexavalent chromium, were filtered in the field. Filtration was accomplished using a disposable 0.45-micron filter. Acid is added to the containerized sample as a preservative.

3. After purging the well, the time elapsed before collecting the water sample was as short as possible to avoid variations in groundwater chemistry.
4. If contamination was known to be present in one or more of the monitor wells at the Site, sampling began with the well known to be the least contaminated and ended with the well that was most contaminated. Where no contamination was known or suspected, sampling proceeded from the well with the highest water level elevation (up-gradient) to the one with the lowest water level elevation (down-gradient).
5. In addition, the sample containers were filled in the following order based on volatilization sensitivity: volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); metals; and other inorganic parameters.

3.1.5.2 Sample Labeling

All sample containers were labeled with the well identification number, site identification, analyses to be performed, preservatives used, date and time of sample collection, and name of sampler. This information was written with indelible ink.

3.1.5.3 Sample Storing, Packing and Transporting

After sample collection, all samples were kept cold (at 4°C) and transported to the laboratory by overnight courier under standard custody protocols. Shipment of samples to the laboratory was done daily due to applicable holding times. The samples were placed in re-sealable bags and packed in a cooler containing ice in sufficient quantity to maintain the temperature at 4°C. A material such as vermiculite was used in the cooler to prevent or minimize the likelihood of container breakage. The cooler itself was secured using reinforced shipping tape.

Proper chain-of-custody (COC) documentation accompanied the samples from the field to the analytical laboratory. The COC form was signed by each party handling the samples, from sampler to the laboratory, to document the possession of the samples at all times. Individuals relinquishing and receiving the samples were required to sign, date and note the time of transfer on the COC form. The COC documentation also contained data and information for each sample, including sample identification, well number, date and time of sample collection, preservatives used and the analyses to be performed. In addition, all sample coolers were sealed using a signed custody seal to prevent tampering or provide direct evidence in the event of tampering.

3.1.5.4 Analytical Methods

The methods used for analysis of water samples collected for the current groundwater monitoring program are documented in Standard Methods for Examination of Water and Wastewater, 18th edition, 1992 or EPA SW-846. A complete list of analyses and analytical methods implemented during the past sampling events are presented in Table 8.

3.1.6 Hydraulic Conductivity Testing

Aquifer pumping tests were designed to determine the hydraulic characteristics in two of the three zones in the Ogallala Aquifer where COCs had been identified. Two pumping tests (RW002 and RW003) were performed in the shallow Ogallala zone, and one pump test (RW004A) was performed in the deep Ogallala zone. Each pump test had a set of three observation wells: one well screened in the shallow zone; one well screened in the middle zone; and one well screened in the deep zone. This allowed ARCADIS personnel to better understand the hydraulic interconnection between the shallow, middle and deep zones in the Ogallala. The locations of the monitor and recovery wells (MW008, MW008M, MW008A, MW011, MW011M, MW011A, MW012, MW012M and MW012A) are presented on Figure 2. The results of the pumping tests were used to determine hydraulic parameters including hydraulic conductivity, transmissivity, and storage coefficient. These parameters are principal factors of aquifer performance and will be used to better define the hydraulic properties of the Ogallala Aquifer at the Site to support remediation efforts. The following sections present the aquifer pump test procedures and results.

3.1.6.1 Aquifer Pump Test Procedures

A constant-rate pumping test was performed at each of three recovery wells (RW002, RW003 and RW004A). For each pumping test, the pumping rate and the drawdown in the pumping well were recorded. Drawdown was also observed and recorded in the three associated observation wells at specific time intervals. The drawdown data was then analyzed to determine conductivity, transmissivity, and the storage coefficient. Drawdown measurements were measured at specific time intervals by use of an in-well data logger connected to pressure transducers. Timing devices were synchronized so the time of each reading could be referenced accurately to the exact time that pumping began. ARCADIS personnel monitored drawdown measurements and recorded pumping rates frequently (at start up of the test

and at regular intervals thereafter) to ensure that all equipment was operating properly. Barometric pressure readings were also monitored throughout the test. In addition, preliminary drawdown data was plotted during the course of the pumping test to identify apparent anomalies and to help determine when equilibrium conditions had been reached. Recovery data was recorded in the pumping well to verify the accuracy of the pumping data. Recovery measurements were also recorded with the same frequency as those taken during the pump test.

3.1.6.2 Aquifer Pump Test Results

The respective drawdown data from the constant-rate pumping tests was analyzed and values calculated for the hydraulic conductivity, transmissivity and storage coefficient (see Appendix A). It was concluded from the drawdown and recovery data that there is hydraulic conductivity between all three zones. When the shallow recovery wells were tested, the middle zone monitor wells reflected drawdown associated with the pumping of the shallow well. Similarly, when the deep zone recovery well was pump tested, the middle zone monitor well also reflected the drawdown associated with the pumping of the deep recovery well. However, the deep zone pumping did not impact the shallow zone, and the shallow zone pumping did not impact the deep zone. This is possibly the result of insufficient time elapsing before the pumping tests were terminated.

The groundwater level monitoring associated with the routine sampling of the wells at the Site has revealed similar water level elevations between the shallow and the deep zones. This similarity supports the conclusion that there is hydraulic conductivity between these zones, as illustrated in the hydraulic gradient maps (Figures 79 through 85), and as indicated by the pumping test results. The pumping tests indicate that the groundwater velocity is almost 100 times greater in the shallow zone than in the deep zone, 23 to 33 feet per year (ft/yr) versus 0.4 to 0.5 ft/yr, respectively.

3.1.7 Groundwater Sampling Results

This section discusses the groundwater sampling results in the shallow/middle and deep groundwater-bearing units obtained from the following sampling events:

- May 2001;
- Spring 2002;

- September 2002;
- December 2002;
- March 2003; and
- May 2003.

The results of the laboratory analysis for the constituents of concern (COCs) were compared to the Primary and Secondary Drinking Water Standards established by the EPA for public drinking water supplies. The EPA's primary drinking water standard for a particular constituent is also known as the maximum contaminant level (MCL). The EPA's secondary standard for a constituent is known as a secondary level (SL).

3.1.7.1 May 2001 Groundwater Sampling Event

A total of 47 monitor wells, recovery wells and fully-penetrating water wells were sampled during this event. The results of the sampling are discussed below.

3.1.7.1.1 May 2001 Shallow Groundwater Sampling Results

A total of 22 shallow groundwater monitoring wells were sampled during the May 2001 event. The monitoring wells samples were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulfate, total dissolved solids (TDS), benzene, toluene, ethylbenzene, xylene, (BTEX) and total petroleum hydrocarbons (TPH). Analytical results for BTEX, TPH and chromium for the wells sampled are presented in Table 3. The analytical results for metals and other inorganic constituents are presented in Table 5. Analytical methods are presented in Table 8.

BTEX components were detected in MW001 only. Benzene concentrations exceeded the MCL (0.005 mg/L). Ethylbenzene concentrations and xylene concentrations were both below their MCLs. Toluene concentrations were below laboratory quantitation limits. The BTEX concentration isopleth map is presented in Figure 3. A benzene concentration isopleth map is presented in Figure 5. In addition, phase-separated hydrocarbons (PSH) were measured in MW005 (0.37 feet) and MW006 (2.12 feet) approximately 47 feet bgl.

All monitoring wells sampled for TPH resulted in concentrations less than ($<$) 5.0 milligrams per liter (mg/L). TPH concentrations are presented in Figure 7.

Total dissolved chromium concentrations for MW003, MW004, MW007, MW008, MW010, MW011, MW012, MW013, MW014, MW023 and MW025 exceeded the MCL (0.1 mg/L). Figure 9 presents a total dissolved chromium concentration isopleth map.

Dissolved hexavalent chromium concentrations that exceeded 0.1 mg/L were observed in MW003, MW004, MW007, MW008 and MW010 through MW014. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 11.

All monitoring wells sampled for chloride exceeded the SL (250 mg/L) with the exception of MW029. Figure 13 presents the chloride concentration isopleth map.

All monitoring well sampled for total dissolved solids (TDS) exceeded the SL (500 mg/L). A TDS concentration isopleth map is presented in Figure 15.

3.1.7.1.2 May 2001 Deep/Fully-penetrating Groundwater Sampling Results

In the May 2001 sampling event, 17 deep groundwater monitoring wells, 1 deep recovery well and 7 fully-penetrating water wells were sampled. Groundwater samples collected from the deep monitoring wells, the deep recovery well and the fully-penetrating water wells were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulfate, TDS, BTEX and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 4. The analytical results for metals and other inorganic constituents are presented in Table 6. Analytical methods are presented in Table 8.

All deep monitoring wells, recovery wells and fully-penetrating water wells sampled had BTEX concentrations below laboratory quantitation limits with the exception of EPWW1. Benzene concentrations in EPWW1 exceeded the MCL (0.005 mg/L). BTEX and benzene concentration isopleth maps are presented in Figure 4 and Figure 6 respectively.

All wells sampled for TPH were below laboratory quantitation limits ($<$ 5.0 mg/L). A TPH concentrations isopleth map is presented in Figure 8.

Dissolved total chromium concentrations in MW004A, MW008A, EPWW1, LordWW and RW001 were above the MCL (0.1 mg/L). A total dissolved chromium concentration isopleth map is presented in Figure 10.

Dissolved hexavalent chromium concentrations in MW004A, MW007A and MW009A were above 0.1 mg/L. The dissolved hexavalent chromium concentration isopleth map is presented in Figure 12.

All wells sampled and analyzed for chloride exceeded the SL (250 mg/L) with the exception of MW011A through MW017A and BlackWW. A chloride concentration isopleth map is presented in Figure 14.

All wells sampled and analyzed for TDS resulted in concentrations at or above the SL (500 mg/L). A TDS concentration isopleth map is presented in Figure 16.

3.1.7.2 Spring 2002 Groundwater Sampling Event

A total of 68 monitor wells, recovery wells and fully-penetrating water wells were sampled for this event. The results of the sampling are discussed below.

3.1.7.2.1 Spring 2002 Shallow Groundwater Sampling Results

A total of 24 shallow monitoring wells and 2 shallow recovery wells were sampled during the Spring 2002 event. Sample data from 17 shallow monitor wells installed between the May 2001 and the end of the Spring 2002 sampling event were also included in the database for this sampling event (see Table 3 and Table 5). The monitoring and recovery wells were sampled and analyzed for total dissolved chromium, dissolved hexavalent chromium, lead, calcium, magnesium, manganese, sodium, potassium, alkalinity carbonate/bicarbonate, chloride, sulfate, TDS, BTEX and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 3. The analytical results for metals and other inorganic constituents are presented in Table 5. Analytical methods are presented in Table 8.

BTEX was detected in MW001, MW005, MW006, MW033, MW036, MW037, MW038 and MW046. Benzene concentrations exceeded the MCL in MW005, MW006, MW033 and MW037. Toluene concentrations exceeded the MCL (1.0 mg/L) in MW033. Ethylbenzene and xylene concentrations were below their respective MCLs. The BTEX and benzene concentration isopleth maps are presented in Figure 17 and Figure 19 respectively. PSH thickness was measured in MW005

(0.04 feet) and MW006 (3.07 feet). Fluid levels in both wells were approximately 47 feet bgl.

TPH was detected in MW001, MW005, MW006, MW033, MW036, MW037, MW038 and MW046. A TPH concentration isopleth map is presented in Figure 21.

Total dissolved chromium concentrations exceeded the MCL in the following monitoring and recovery wells: MW003 through MW008, MW008M, MW009, MW010, MW011, MW011M, MW012, MW012M, MW013, MW014, MW023, MW025, MW034, MW044, MW047, RW002 and RW003. A total dissolved chromium concentration isopleth map is presented in Figure 23.

Dissolved hexavalent chromium concentrations exceeded 0.1 mg/L in the following monitoring and recovery wells: MW003 through MW008, MW008M, MW009, MW010, MW011, MW011M, MW012, MW012M, MW013, MW014, MW023, MW025, MW034, MW044, MW047 and RW002. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 25.

All monitoring and recovery well chloride concentrations exceeded the SL (250 mg/L) with the exception of MW029, MW031, MW035, MW036, MW038, MW043 and MW046. However, additional groundwater samples collected from MW035 and MW036 resulted in chloride concentrations above 250 mg/L. A chloride concentration isopleth map is presented in Figure 27.

All monitoring and recovery well TDS concentrations exceeded the SL (500 mg/L). A TDS concentration isopleth map is presented in Figure 29.

All monitoring and recovery wells were analyzed for alkalinity. The alkalinity concentration isopleth map is presented in Figure 31.

3.1.7.2.2 Spring 2002 Deep Groundwater Sampling Results

Seventeen deep monitoring wells, 1 deep recovery well and 3 fully-penetrating water wells were sampled during the Spring 2002 sampling event. Sample data from 4 deep monitoring wells installed between the May 2001 event and the end of the Spring 2002 sampling event were also included in the database for this sampling event (see Table 3 and Table 5). All deep monitoring, deep recovery and fully-penetrating water wells were sampled and analyzed for total dissolved chromium, dissolved hexavalent chromium, lead, calcium, magnesium, manganese, sodium, potassium, alkalinity

carbonate/bicarbonate, chloride, sulfate, TDS, BTEX and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 4. Groundwater quality and metals analytical results are presented in Table 6. Analytical methods are presented in Table 8.

BTEX was detected in EPWW1 and RW004A. The BTEX compounds were below the MCL for each compound with the exception of benzene in EPWW1 and benzene and toluene in RW004A. The BTEX concentrations for all other wells sampled were below laboratory quantitation limits. BTEX and benzene concentration isopleth maps are presented in Figure 18 and Figure 20 respectively.

TPH was detected in EPWW1 and RW004A. The TPH concentration isopleth map is presented in Figure 22.

Total dissolved chromium concentrations exceeded the MCL in the following monitoring, recovery and water wells: MW004A, MW007A, MW008A, MW009A, MW011A, MW041A, RW004A and EPWW1. The total dissolved chromium concentration isopleth map is presented in Figure 24.

Dissolved hexavalent chromium concentrations that exceeded 0.1 mg/L included the following monitoring, recovery and water wells: MW008A, MW009A, MW011A, MW039A, MW041A, RW004A and EPWW1. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 26.

All wells analyzed for chlorides exceeded the SL (250 mg/L) with exception of MW011A, MW012A, MW013A, MW014A, MW016A, MW017A, MW039A and MW040A. A chloride concentration isopleth map is presented in Figure 28.

All wells analyzed for TDS exceeded the SL (500 mg/L). A TDS concentration isopleth map is presented in Figure 30.

All monitoring and recovery wells were analyzed for alkalinity. The alkalinity concentration isopleth map is presented in Figure 32.

3.1.7.3 September 2002 Quarterly Groundwater Sampling Results

A total of 69 monitor wells, recovery wells, injection wells and fully-penetrating water wells were sampled during the September 2002 quarterly sampling event. The results of the sampling are presented by sampling zone below.

3.1.7.3.1 September 2002 Quarterly Shallow Groundwater Sampling Results

A total of 36 shallow monitoring wells were sampled during the September 2002 quarterly sampling event. Sample data from two shallow injection wells installed between the Spring 2002 and the September 2002 sampling event were also included in the database for this sampling event (see Table 3 and Table 5). The monitoring wells were sampled and analyzed for BTEX, TPH, total dissolved chromium, dissolved hexavalent chromium and chloride. Upon installation, the injection wells were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, alkalinity (carbonate/bicarbonate), chloride, sulfate, TDS, BTEX and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 3. The analytical results for metals and other inorganic constituents are presented in Table 5. Analytical methods are presented in Table 8.

BTEX was detected in MW001, MW033, MW036, MW037, MW038, MW046 and IW001. Benzene concentrations exceeded the MCL in MW033, MW037 and MW038. Toluene and ethylbenzene concentrations exceeded their respective MCLs in MW033. However, all xylene values were below the MCL. The BTEX and benzene concentration isopleth maps are presented in Figure 33 and Figure 35 respectively. In addition, PSH was measured in MW006 (2.39 feet) approximately 47 feet bgl.

TPH was detected in MW001, MW033, MW035, MW036, MW037, MW038, MW043 and MW046. A TPH concentration isopleth map is presented in Figure 37.

Total dissolved chromium concentrations exceeded the MCL in the following wells: MW003, MW004, MW007 through MW014, MW023, MW025, MW034, MW044, MW047, IW001 and IW002. A total dissolved chromium concentration isopleth map is presented in Figure 39.

Hexavalent concentrations exceeded the 0.1 mg/L MCL in the following wells: MW003, MW004, MW007, MW008, MW009, MW010, MW011, MW012, MW013, MW014, MW023, MW025, MW034, MW044, MW047, IW001 and IW002. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 41.

All wells analyzed for chloride exceeded the SL with the exception of the following wells: MW018, MW027, MW029, MW031, MW035, MW038, MW043 and MW046. A chloride concentration isopleth map is presented in Figure 43.

3.1.7.3.2 September 2002 Quarterly Deep Groundwater Sampling Results

A total of 21 deep monitoring wells, 1 deep recovery well and 3 fully-penetrating water wells were sampled during the September 2002 quarterly sampling event. In addition, analytical data from 6 deep monitoring wells installed between the Spring 2002 and the end of the September 2002 sampling event were also included (see Table 4 and Table 6). The deep monitoring wells, the deep recovery well and the fully-penetrating water wells were sampled and analyzed for BTEX, TPH, total dissolved chromium, dissolved hexavalent chromium and chloride. Upon installation, the 6 new deep monitor wells were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, alkalinity (carbonate/bicarbonate), chloride, sulfate, TDS, BTEX and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 4. Groundwater quality and metals analytical results are presented in Table 6. Analytical methods are presented in Table 8.

BTEX was detected in EPWW1, MW048SA and MW049SA. BTEX compounds were below the MCL for each compound with the exception of benzene in EPWW1. The results for all other wells sampled for BTEX were below laboratory quantitation limits. BTEX and benzene concentration isopleth maps are presented in Figure 34 and Figure 36, respectively.

All wells analyzed for TPH resulted in non-detection. A TPH concentration isopleth map is presented in Figure 38.

Total dissolved chromium concentrations exceeded the MCL in the following wells: MW004A, MW007A, MW008A, MW009A, MW011A, MW024A, MW039A, MW041A, MW048SA, MW050SA, MW051SA, MW052SA, RW004A and EPWW1. A total dissolved chromium concentration isopleth map is presented in Figure 40.

Dissolved hexavalent chromium concentrations exceeded 0.1 mg/L in the following wells: MW004A, MW007A, MW008A, MW009A, MW011A, MW024A, MW041A, MW048SA, MW051SA, MW052SA, RW004A, EPWW1 and LordWW. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 42.

All wells analyzed for chloride exceeded the SL (250 mg/L) with exception of the following wells: MW012A, MW013A, MW014A, MW016A, MW017A, MW018A, MW039A, MW040A and LordWW. A chloride concentration isopleth map is presented in Figure 44.

3.1.7.4 December 2002 Quarterly Groundwater Sampling Results

A total of 82 monitor wells and fully-penetrating water wells were sampled during the December 2002 quarterly sampling event. The results of the sampling are presented by sampling zone below.

3.1.7.4.1 December 2002 Quarterly Shallow Groundwater Sampling Results

A total of 36 shallow monitoring wells were sampled during the December 2002 quarterly sampling event. Sample data from five shallow monitoring wells installed between the September 2002 and December 2002 sampling event were also included (see Table 3 and Table 5). The shallow monitoring wells were sampled and analyzed for BTEX, TPH, dissolved hexavalent chromium and chloride. In addition, total dissolved chromium and dissolved hexavalent chromium were analyzed in MW020, MW021 and MW034 in order to evaluate analytical methodologies. Upon installation, MW024 and MW058 through MW061 were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, alkalinity (carbonate/bicarbonate), chloride, sulfate, TDS, BTEX and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 3. The analytical results for metals and other inorganic constituents are presented in Table 5. Analytical methods are presented in Table 8.

BTEX was detected in MW001, MW033, MW036, MW037, MW038, MW046, MW058 and MW059. Benzene concentrations exceeded the MCL in MW033, MW037 and MW038. Ethylbenzene and toluene concentrations also exceeded their MCLs in MW033. All xylene concentrations were below the MCL. BTEX and benzene concentration isopleth maps are presented in Figure 45 and Figure 47, respectively. PSH was measured in MW006 (1.78 feet) approximately 47 feet bgl.

TPH was detected in the following monitoring wells: MW001, MW009, MW033, MW036, MW037, MW038, MW043, MW044 and MW046. A TPH concentration isopleth map is presented in Figure 49.

Total dissolved chromium concentrations exceeded the MCL in MW034, MW058, MW060 and MW061. Total dissolved chromium concentrations are presented in Table 3.

Dissolved hexavalent chromium concentrations exceeded 0.1 mg/L in the following monitoring wells: MW003, MW004, MW008, MW010 through MW014, MW023, MW034, MW043, MW044, MW047, MW058, MW060 and MW061. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 51.

All monitoring wells analyzed for chloride exceeded the SL (250 mg/L) with the exception of the following wells: MW018, MW025, MW029, MW030, MW031, MW035, MW038 and MW046. A chloride concentration isopleth map is presented Figure 53.

3.1.7.4.2 December 2002 Quarterly Deep Groundwater Sampling Results

A total of 27 deep monitoring wells and 5 fully-penetrating water wells were sampled during the December 2002 quarterly sampling event. In addition, analytical data from 9 monitoring wells installed between the September 2002 and the December 2002 sampling event was also included (see Table 4 and Table 6). The deep monitoring wells and the fully-penetrating water wells were sampled and analyzed for BTEX, TPH, dissolved hexavalent chromium and chloride. In addition, total dissolved chromium and dissolved hexavalent chromium were analyzed in the following wells in order to evaluate analytical methodologies: MW019A, MW020A, MW021A, MW041A, MW048SA, MW049SA, MW050SA, MW051SA, MW052SA, MW053SA, LordWW and WoodellWW. Upon installation, MW002A, MW023A, MW046A, MW054SA, MW055SA, MW056SA, MW057SA, MW062A and MW063A were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, alkalinity (carbonate/bicarbonate), chloride, sulfate, TDS, BTEX and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 4. The analytical results for metals and other inorganic constituents are presented in Table 6. Analytical methods are presented in Table 8.

BTEX was detected in MW023A, MW046A, MW055SA, MW056SA and MW057SA. Toluene was the only compound detected and all detections were below the MCL. BTEX and benzene concentration isopleth maps are presented in Figure 46 and Figure 48, respectively.

TPH was detected in MW046A, MW048SA and MW049SA. A TPH concentration isopleth map is presented in Figure 50.

Total dissolved chromium concentrations exceeded the MCL in the following wells: MW041A, MW048SA, MW051SA, MW052SA, MW054SA, MW055SA and MW056SA. Total dissolved chromium concentrations are presented in Table 4.

Dissolved hexavalent chromium concentrations that exceed the 0.1 mg/L MCL include the following wells: MW004A, MW007A, MW008A, MW009A, MW011A, MW024A, MW039A, MW041A, MW048SA, MW051SA, MW052SA, MW054SA, MW055SA, MW056SA and EPWW1. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 52.

All wells analyzed for chloride exceeded the SL (250 mg/L) with the following exceptions: MW012A, MW013A, MW014A, MW016A, MW017A, MW023A, MW039A, MW040A, MW062A and MW063A. A chloride concentration isopleth map is presented in Figure 54.

3.1.7.5 March 2003 Quarterly Groundwater Sampling Results

A total of 91 monitor wells and fully-penetrating water wells were sampled during the March 2003 quarterly sampling event. The results of the sampling are presented by sampling zone below.

3.1.7.5.1 March 2003 Quarterly Shallow Groundwater Sampling Results

A total of 41 shallow monitoring wells were sampled during the March 2003 quarterly sampling event. Sample data from 3 monitoring wells installed between the December 2002 and the March 2003 sampling event were also included (see Table 3 and Table 5). The monitoring wells were sampled and analyzed for BTEX, TPH, dissolved hexavalent chromium and chloride. Upon installation, MW068, MW069 and MW070 were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, alkalinity (carbonate/bicarbonate), chloride, sulfate, TDS, BTEX and TPH.

Analytical results for BTEX, TPH and chromium are presented in Table 3. The analytical results for metals and other inorganic constituents are presented in Table 5. Analytical methods are presented in Table 8.

BTEX was detected in MW001, MW033, MW036, MW037, MW038 and MW046. Benzene concentrations exceeded the MCL in MW033, MW037 and MW038. Toluene, ethylbenzene and xylene concentrations were below their MCLs. BTEX and benzene concentration isopleth maps are presented in Figure 55 and Figure 57 respectively.

TPH was detected in MW001, MW033, MW036, MW037, MW038 and MW046. A TPH concentration isopleth map is presented in Figure 59. In addition, PSH was measured in MW005 (as a sheen) and MW006 (2.23 feet) approximately 47 feet bgl.

Dissolved hexavalent chromium concentrations exceeded the 0.1 mg/L MCL in the following monitoring wells: MW004, MW007 through MW014, MW023, MW034, MW044, MW047, MW058 and MW061. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 61.

All monitoring wells analyzed for chloride exceeded the SL (250 mg/L) with the exception of the following wells: MW018, MW029, MW030, MW031, MW035, MW038, MW043, MW046 and MW070. A chloride concentration isopleth map is presented in Figure 63.

3.1.7.5.2 March 2003 Quarterly Deep Groundwater Sampling Results

A total of 36 deep monitoring wells and 5 fully-penetrating water wells were sampled during the March 2003 quarterly sampling event. In addition, analytical data from six monitoring wells installed between the December 2002 and the March 2003 sampling event were also included (see Table 4 and Table 6). The deep monitoring wells and the fully-penetrating water wells were sampled and analyzed for BTEX, TPH, dissolved hexavalent chromium and chloride. Upon installation, MW064SA through MW067SA and MW070A were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, alkalinity (carbonate/bicarbonate), chloride, sulfate, TDS, BTEX and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 4. Groundwater quality and metals analytical results are presented in Table 6. Analytical methods are presented in Table 8.

BTEX was detected in EPWW1 and MW070A. All BTEX concentrations were below the MCLs with the exception of benzene in EPWW1. BTEX and benzene concentration isopleth maps are presented in Figure 56 and Figure 58.

TPH was only detected in MW067SA. A TPH concentration isopleth map is presented in Figure 60.

Dissolved hexavalent chromium concentrations exceeded the 0.1 mg/L MCL in the following wells: MW004A, MW007A, MW008A, MW011A, MW024A, MW039A, MW041A, MW048SA, MW050SA through MW053SA, MW057SA and MW066SA. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 62.

All wells analyzed for chloride resulted in concentrations at or above the SL (250 mg/L) with the exception of the following wells: MW011A through MW014A, MW016A, MW017A, MW023A, MW039A, MW040A, MW056SA, MW062A, MW063A, MW070A and LordWW. A chloride concentration isopleth map is presented in Figure 64.

3.1.7.6 May 2003 Quarterly Groundwater Sampling Results

A total of 88 monitor wells and fully-penetrating water wells were sampled during the May 2003 quarterly sampling event. The results of the sampling are presented by sampling zone below.

3.1.7.6.1 May 2003 Quarterly Shallow Groundwater Sampling Results

A total of 39 shallow monitoring wells were sampled during the May 2003 quarterly sampling event. The monitoring wells were sampled and analyzed for BTEX, TPH, dissolved hexavalent chromium and chloride. Analytical results for BTEX, TPH and chromium are presented in Table 3. Groundwater quality and metals analytical results are presented in Table 5. Analytical methods are presented in Table 8. In addition, PSH was measured in MW005 (non-detect) and MW006 (2.28 feet) approximately 47 feet bgl.

BTEX was detected in MW001, MW033, MW036, MW037, MW038 and MW046. Benzene concentrations were above the MCL in MW033, MW037, MW038 and MW046. Toluene, ethylbenzene and xylene concentrations were below the MCL. BTEX and benzene concentration isopleth maps are presented in Figure 65 and Figure 67 respectively.

TPH was detected in MW001, MW009, MW036, MW037, MW038 and MW046. A TPH concentration isopleth map is presented in Figure 69.

Dissolved hexavalent chromium concentrations exceeded the 0.1 mg/L MCL in the following monitoring wells: MW003, MW004, MW008, MW010, MW011, MW012, MW013, MW014, MW023, MW034, MW044, MW047, MW058, MW059 and MW061. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 71.

All monitoring wells analyzed for chloride resulted in concentrations at or above the SL (250 mg/L) with the exception of the following wells: MW018, MW029, MW031, MW035, MW038, MW043, MW046 and MW070. A chloride concentration isopleth map is presented in Figure 73.

3.1.7.6.2 May 2003 Quarterly Deep Groundwater Sampling Results

A total of 41 deep monitoring wells and five fully-penetrating water wells were sampled during the May 2003 quarterly sampling event. In addition, analytical data from three monitoring wells installed between the March 2003 and the May 2003 sampling event was also included (see Table 4 and Table 6). The monitoring wells were sampled and analyzed for BTEX, TPH, dissolved hexavalent chromium and chloride. Upon installation, MW071SA, MW072SA and MW073SA were analyzed for arsenic, barium, cadmium, total dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, calcium, magnesium, sodium, potassium, alkalinity (carbonate/bicarbonate), chloride, sulfate, TDS, BTEX, and TPH. Analytical results for BTEX, TPH and chromium are presented in Table 4. The analytical results for metals and other inorganic constituents are presented in Table 6. Analytical methods are presented in Table 8.

BTEX was detected in EPWW1 and MW073SA. Benzene concentrations in EPWW1 exceeded the MCL. BTEX and benzene concentration isopleth maps are presented in Figure 66 and Figure 68, respectively.

TPH was detected in MW046A and MW071SA. The TPH concentration isopleth map is presented in Figure 70.

Dissolved hexavalent chromium concentrations exceeded the 0.1 mg/L MCL in the following wells: MW004A, MW007A, MW008A, MW009A, MW011A, MW024A, MW039A, MW041A, MW048SA, MW050SA, MW051SA, MW052SA, MW054, MW055SA, MW056SA, MW064SA, MW066SA and EPWW1. A dissolved hexavalent chromium concentration isopleth map is presented in Figure 72.

All wells analyzed for chloride resulted in concentrations at or above the SL (250 mg/L) with the exception of the following wells: MW012A, MW013A, MW014A, MW016A, MW017A, MW023A, MW039A, MW040A, MW062A, MW063A, MW070A and LordWW. A chloride concentration isopleth map is presented in Figure 74.

3.1.7.7 Phase-Separated Hydrocarbons

This section discusses the recovery methods, removal dates and the volume of PSH recovered from MW005 and MW006. These wells are located adjacent to the excavated and backfilled north sump.

3.1.7.7.1 PSH Measurement and Recovery

The PSH were identified and measured using an oil water interface probe. The measurements are presented in Table 2. The PSH were recovered using a 1 5/8" polyethylene disposable bailer. The bailer was lowered into the well to the top of the PHS and allowed to sink slowly. The recovered PSH were placed in a five-gallon bucket for measurement purposes and transferred into a secondary containment (55-gallon metal drum). The PSH were finally transported in the secondary containment to the Rice Operating sump located in the Dynegy plant where it was deposited with other oil being accumulated for reuse.

3.1.7.7.2 PSH Recovery Volume

PSH were removed and groundwater samples collected from MW005 and MW006 during the Spring 2002 Groundwater Sampling Event (Section 3.1.7.3). One gallon of PSH was removed from MW005 and ten gallons removed from MW006.

PSH were removed from MW006 on January 29, 2003. Four gallons were recovered and a specific gravity sample was collected and submitted for laboratory analysis. The specific gravity of the PSH was 0.8486 (25C/25C).

Beginning on August 19, 2003, PSH have been gauged and recovered, on a weekly schedule.

4. WASTE DISPOSAL

Wastewater generated from the development, sampling and testing of monitor, recovery, injection and water wells has been characterized and disposed of in two ways: 1) wastewater was drummed and stored on location and periodically removed by oil-field vacuum truck for disposal into a NMOCD-permitted deep injection well; and 2) wastewater was also disposed of in the plant wastewater sump along with plant wastewater.

5. CONCLUSIONS

Environmental investigations have been conducted at the ChevronTexaco Eunice #2 (North) Gas Plant, Eunice, New Mexico beginning in 1995. These investigations have produced data confirming both hydrocarbon and chromium invasion of the Tertiary Ogallala. The hydrocarbon impacts are in the form of both PSH and dissolved hydrocarbons. The chromium impacts are in the form of dissolved total chromium and dissolved hexavalent chromium. Chloride ion impacts have also been identified, much of which appears to be off the plant site and unrelated to the historic plant operations. The results of the most recent sampling event are described in the following sections.

5.1 Groundwater Hydrocarbons

The dissolved hydrocarbon plume in the Ogallala Aquifer groundwater has been fully defined. Only a small area totally within the plant site has benzene above the EPA MCL for drinking water (See Figure 67). A small area containing benzene above MCL is located south of the plant site, but is not related to the historic plant operations. BTEX and TPH concentrations also exist at the locations where benzene has been detected (See Figures 65 and 66) and TPH has been identified east of the plant site at a location unrelated to historic plant operation (See Figure 69).

As a point of interest, especially regarding site remediation, the hydrocarbons in the groundwater are assisting in the remediation of the chromium by providing carbon substrate to the groundwater encouraging the proliferation of bacteria. This in turn produces a reducing environment within the aquifer resulting in chemical precipitation of the chromium. In addition, the chromium may be reacting directly with the hydrocarbon in an abiotic reaction. In the area where the dissolved hydrocarbon exists, there are non-detect chromium concentrations (Compare Figures 65 and 71).

Currently, PSH are being removed from the Site on a weekly basis. Only approximately four to five gallons are being removed weekly from MW006. Usually, MW005 has only a sheen of PSH on the water surface. In order to assist in chromium removal, and as long as the hydrocarbon plume does not materially migrate, the groundwater hydrocarbon remediation will not be addressed at this time with the exception of PSH removal.

5.2 Groundwater Chromium

Except for a small area of the plume northeast of the plant site, the chromium plume is fully defined and delineated. In the area of MW0056SA, MW0057SA and MW0064SA, the dissolved hexavalent chromium has fluctuated from below MCL to above MCL (See Figure 72). This area will be closely monitored. The Ogallala Aquifer underlying the Site has poor but definite vertical hydraulic conductivity, resulting in stratified concentrations of chromium in the aquifer. The chromium impact has been evaluated on the basis of the "deep" Ogallala Aquifer and the "shallow/middle" Ogallala Aquifer zones. As noted in the maps attached to this report, the chromium impact in the shallow and shallow/middle portion of the Ogallala covers a larger area than the chromium plume in the deep portion of the aquifer. This results in the shallow/middle chromium plume overlying portions of the deep zone containing chromium below the MCL. The lack of movement of chromium to the lower zone of the aquifer indicates that the chromium has not fully penetrated the vertical extent of the aquifer in all areas.

The highest concentrations of chromium in the deep zone of the aquifer occur under the southern part of the plant site and appear to move with the hydraulic gradient eastward. The deep zone merges with the shallow/middle zone of the aquifer east of the plant site. The aquifer, from the point of merger eastward, is considered, geologically, to be part of the deep zone (See Figure 72). All monitor wells drilled east of the merger point fully penetrate, and are screened throughout, the saturated portion of the aquifer. In the shallow/middle zone of the aquifer, the highest chromium

concentrations occur under the southern part of the plant site southward off of the Site and in an area immediately off to the east of the plant site (See Figure 71).

5.2.1 IRZ Phase 1 Test Summary

A Phase 1 study is currently underway at the Site to determine the effectiveness of IRZ technology in the remediation of the chromium in the groundwater. This Phase 1 test program for in-situ chromate remediation has been designed to evaluate a potentially complex multi-layer groundwater system. If successful, the exploitation of the Site hydrodynamics and biogeochemistry will be optimized in order to design and implement a full-scale system in the most cost-effective and time-efficient manner possible. During the course of the Phase 1 study, brief quarterly reports will be produced to provide an outline of the progress of the study. A Phase 1 status report, providing a summary of project activities, will be submitted to the OCD by February 1, 2004. A design for the full-scale remediation system will also be prepared at that time.

5.3 Groundwater Chloride

Chloride ion impacts to the Ogallala Aquifer at the Site have also been identified, much of which appears to be off of the plant site and unrelated to the historic plant operations (See Figures 73 and 74). The highest concentrations appear at sites southwest and south of the plant site (up the current hydraulic gradient) and east of the plant site (down the hydraulic gradient). The sources of the high chloride concentrations have not yet been identified with any certainty.

6. LONG-RANGE MONITORING AND REPORTING PROGRAM

Plans are to continue the Phase 1 IRZ project at the Site, with frequent regular sampling of monitor wells near the IRZ injection wells to measure the progress of the remediation. A report on the chromate remediation Phase 1 project will be submitted to the NMOC by February 1, 2004. The report will contain a summary of all project activities and, if the Phase 1 project is successful, a comprehensive work plan for remediation of contaminated groundwater.

All monitor, recovery, and injection wells along with selected water wells will be sampled and analyzed semi-annually according to the procedures described above (see sections 3.1.4 and 3.1.5). Field measurements will be taken at the time the groundwater samples are collected, as described above. Laboratory analysis will be performed on the groundwater samples obtained, and the results studied to monitor the

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Report

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(North) Plant
Eunice, Lea County, New
Mexico

state of the groundwater under the Site. All data obtained will be utilized to measure the progress of the remediation. The results of these studies will be presented to the NMOCD on an annual basis in bound report form.

Table 1
Summary of Well Details
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Well Id	Casing/Screen Diameter	Surveyed Measuring Point (MP) Elevation	Surveyed Ground Elevation	Screen Interval (feet BGL)	Top of Screen (feet BGL)	Bottom of Screen (feet BGL)	Top of Screen Elevation	Bottom of Screen Elevation	Base of Ogallala (feet BGL)	Base of Ogallala Elevation	Completed Well Depth (feet BGL)	Completed Well TD Elevation
MW001	4	3428.57	3428.79	48-68	48	68	3380.79	3360.79			68.31	3360.48
MW002	4	3432.17	3432.29	48-68	48	68	3384.29	3364.29			68.88	3363.41
MW002A	4	3432.30	3432.30	103-123	103	123	3329.30	3309.30	123	3309.30	124.39	3307.91
MW003	4	3428.27	3426.10	48-68	48	68	3378.10	3358.10			68.17	3357.93
MW004	4	3423.38	3423.59	46.5-66.5	46.5	66.5	3377.09	3357.09			66.56	3357.03
MW004A	4	3423.57	3423.59	94.2-104.2	94.2	104.2	3329.39	3319.39	104	3319.59	103.89	3319.70
MW005	4	3424.77	3425.49	48-68	48	68	3377.49	3357.49			68.00	3357.49
MW006	4	3425.26	3425.09	48-68	48	68	3377.09	3357.09			68.00	3357.09
MW007	4	3428.39	3426.28	46.29-66.29	46.29	66.29	3379.99	3359.99			65.85	3360.43
MW007A	4	3428.13	3426.28	94.31-104.31	94.31	104.31	3331.97	3321.97	110	3316.28	104.31	3321.97
MW008	4	3430.13	3427.90	46.62-66.62	46.62	66.62	3381.28	3361.28			66.30	3361.60
MW008A	4	3430.01	3427.90	105.5-113.4	105.5	113.4	3322.40	3314.50	113	3314.90	112.78	3315.12
MW008M	4	3430.27	3427.95	75-85	75	85	3352.95	3342.95			85.74	3342.21
MW009	4	3427.63	3425.09	46.66-66.66	46.66	66.66	3378.43	3358.43			66.32	3358.77
MW009A	4	3427.48	3425.09	93-100.6	93	100.6	3332.09	3324.49	100	3325.09	100.19	3324.90
MW010	4	3419.42	3419.77	44.75-65.1	44.75	65.1	3375.02	3354.67			65.24	3354.53
MW011	4	3431.49	3429.07	46.5-66.5	46.5	66.5	3382.57	3362.57			66.66	3362.41
MW011A	4	3431.77	3429.28	107.5-115	107.5	115	3321.78	3314.28	116	3313.28	115.27	3314.01
MW011M	4	3431.21	3429.38	80-90	80	90	3349.38	3339.38			90.87	3338.51
MW012	4	3429.51	3427.69	46.5-66.5	46.5	66.5	3381.19	3361.19			66.22	3361.47
MW012A	4	3429.92	3427.42	106.1-113.6	106.1	113.6	3321.32	3313.82	116	3311.42	113.90	3313.52

Table 1
Summary of Well Details
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Well Id	Casing/Screen Diameter	Surveyed Measuring Point (MP) Elevation	Surveyed Ground Elevation	Screen Interval (feet BGL)	Top of Screen (feet BGL)	Bottom of Screen (feet BGL)	Top of Screen Elevation	Bottom of Screen Elevation	Base of Ogallala (feet BGL)	Base of Ogallala Elevation	Completed Well Depth (feet BGL)	Completed Well TD Elevation
MW012M	4	3430.06	3427.77	80-90	80	90	3347.77	3337.77			89.06	3338.71
MW013	4	3423.11	3424.40	40-60.2	40	60.2	3384.40	3364.20			60.71	3363.69
MW013A	4	3424.25	3424.39	96.3-106.44	96.3	106.44	3328.09	3317.95	110	3314.39	105.61	3318.78
MW014	4	3424.08	3424.31	41.19-61.19	41.19	61.19	3383.12	3363.12			61.19	3363.12
MW014A	4	3423.90	3424.20	95.15-105.15	95.15	105.15	3329.05	3319.05	109	3315.20	105.42	3318.78
MW015	4	3420.40	3420.55	35-55	35	55	3385.55	3365.55			54.46	3366.09
MW015A	4	3420.55	3420.65	92.20-102.30	92.2	102.3	3328.45	3318.35	103	3317.65	102.49	3318.16
MW016A	4	3419.92	3419.90	81.51-91.60	81.51	91.6	3338.39	3328.30	91	3328.90	91.85	3328.05
MW017A	4	3424.38	3424.48	93.5-103.6	93.5	103.6	3330.98	3320.88	106	3318.48	103.98	3320.50
MW018	4	3417.15	3417.39	35-55	35	55	3382.39	3362.39			54.30	3363.09
MW018A	4	3416.86	3417.04	71.38-81.55	71.38	81.55	3345.66	3335.49	81	3336.04	81.76	3335.28
MW019A	4	3414.74	3414.95	62.2-72.4	62.2	72.4	3352.75	3342.55	72	3342.95	72.52	3342.43
MW020	4	3420.85	3418.50	35-55	35	55	3383.50	3363.50			55.69	3362.81
MW020A	4	3421.14	3418.50	71-81	71	81	3347.50	3337.50	80	3338.50	77.87	3340.63
MW021	4	3422.72	3420.41	40-60	40	60	3380.41	3360.41			60.21	3360.20
MW021A	4	3422.94	3420.41	75.49-85.49	75.49	85.49	3344.92	3334.92	75	3345.41	85.49	3334.92
MW022A	4	3431.13	3428.50	90.4-100.4	90.4	100.4	3338.10	3328.10	105	3323.50	100.40	3328.10
MW023	4	3436.44	3433.99	46.64-66.04	44.64	66.04	3389.35	3367.95			67.01	3366.98
MW023A	4	3436.26	3434.31	110-120	110	120	3324.31	3314.31	118	3316.31	121.55	3312.76
MW024	4	3431.32	3429.07	36-86	36	86	3393.07	3343.07			87.26	3341.81
MW024A	4	3430.77	3428.98	89.46-99.46	89.46	99.46	3339.52	3329.52	106	3322.98	99.46	3329.52

Table 1
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ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Well Id	Casing/Screen Diameter	Surveyed Measuring Point (MP) Elevation	Surveyed Ground Elevation	Screen Interval (feet BGL)	Top of Screen (feet BGL)	Bottom of Screen (feet BGL)	Top of Screen Elevation	Bottom of Screen Elevation	Base of Ogallala (feet BGL)	Base of Ogallala Elevation	Completed Well Depth (feet BGL)	Completed Well TD Elevation
MW025	4	3432.64	3432.84	46.45-66.45	46.45	66.45	3386.39	3366.39			66.45	3366.39
MW026	4	3432.04	3432.52	43.33-63.33	43.33	63.33	3389.19	3369.19			63.33	3369.19
MW027	4	3443.33	3443.72	51.39-70.43	51.39	70.43	3392.33	3373.29			71.97	3371.75
MW028	4	3451.63	3450.02	63.56-83.56	63.29	82.33	3386.73	3367.69			83.56	3366.46
MW029	4	3446.89	3444.76	59.89-78.54	59.89	78.54	3384.87	3366.22			79.31	3365.45
MW030	4	3439.84	3437.66	55-75	55	75	3382.66	3362.66			75.11	3362.55
MW031	4	3440.68	3438.47	54-74	54	74	3384.47	3364.47			74.81	3363.66
MW032	4	3442.22	3442.52	49.73-69.73	49.73	69.73	3392.79	3372.79			69.73	3372.79
MW033	4	3428.86	3429.06	33.7-63.7	33.7	63.7	3395.36	3365.36			63.70	3365.36
MW034	4	3418.76	3419.00	43.58-63.58	43.58	63.58	3375.42	3355.42			63.58	3355.42
MW035	4	3427.39	3424.98	43.13-63.13	43.13	63.13	3381.85	3361.85			63.13	3361.85
MW036	4	3425.49	3425.80	42-62	42	62	3383.80	FALSE			62.99	3362.81
MW037	4	3423.71	3424.07	42-62	42	62	3382.07	3362.07			62.09	3361.98
MW038	4	3425.23	3425.58	42-62	42	62	3383.58	3363.58			62.32	3363.26
MW039A	4	3435.71	3433.36	107-117	107	117	3326.36	3316.36	117	3316.36	117.23	3316.13
MW040A	4	3422.92	3423.25	100-110	100	110	3323.25	3313.25	109	3314.25	110.58	3312.67
MW041A	4	3418.42	3418.12	78-88	78	88	3340.12	3330.12	87	3331.12	88.25	3329.87
MW042A	4	3424.75	3425.07	89.86-99.86	89.86	99.86	3335.21	3325.21	100	3325.07	99.86	3325.21
MW043	4	3423.57	3422.55	42-62	42	62	3380.55	3360.55			63.02	3359.53
MW044	4	3420.41	3420.63	41.9-61.9	41.9	61.9	3378.73	3358.73			61.90	3358.73
MW045	4	3425.53	3425.33	46-66	46	66	3379.33	3359.33			66.72	3358.61

Table 1
Summary of Well Details
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Well Id	Casing/Screen Diameter	Surveyed Measuring Point (MP) Elevation	Surveyed Ground Elevation	Screen Interval (feet BGL)	Top of Screen (feet BGL)	Bottom of Screen (feet BGL)	Top of Screen Elevation	Bottom of Screen Elevation	Base of Ogallala (feet BGL)	Base of Ogallala Elevation	Completed Well Depth (feet BGL)	Completed Well TD Elevation
MW046	4	3426.81	3426.51	47.43-67.43	47.43	67.43	3379.08	3359.08			67.43	3359.08
MW046A	4	3426.45	3426.94	87-107	87	107	3339.94	3319.94	106	3320.94	108.29	3318.65
MW047	4	3427.65	3427.96	46-66	46	66	3381.96	3361.96			65.40	3362.56
MW048SA	4	3421.10	3418.78	27-82	27	82	3391.78	3336.78	82	3336.78	83.66	3335.12
MW049SA	4	3422.46	3420.15	37-82	37	82	3383.15	3338.15	82	3338.15	82.68	3337.47
MW050SA	4	3419.31	3417.61	38-78	38	78	3379.61	3339.61	78	3339.61	79.25	3338.36
MW051SA	4	3415.42	3413.48	33-63	33	63	3380.48	3350.48	63	3350.48	64.00	3349.48
MW052SA	4	3415.23	3412.90	33-63	33	63	3379.90	3349.90	63	3349.90	64.19	3348.71
MW053SA	4	3413.86	3411.52	35-65	35	65	3376.52	3346.52	65	3346.52	65.81	3345.71
MW054SA	4	3411.38	3409.06	32-57	32	57	3377.06	3352.06	57	3352.06	57.79	3351.27
MW055SA	4	3407.43	3405.33	30-50	30	50	3375.33	3355.33	48.5	3356.83	50.85	3354.48
MW056SA	4	3410.71	3408.51	32-52	32	52	3376.51	3356.51	51	3357.51	52.72	3355.79
MW057SA	4	3417.74	3415.38	33-68	33	68	3382.38	3347.38	68	3347.38	68.84	3346.54
MW058	4	3437.13	3434.98	49-109	49	109	3385.98	3325.98			109.73	3325.25
MW059	4	3442.24	3440.02	45-105	45	105	3395.02	3335.02			104.90	3335.12
MW060	4	3437.70	3435.40	40-100	40	100	3395.40	3335.40			100.04	3335.36
MW061	4	3439.86	3437.77	48.5-108.5	48.5	108.5	3389.27	3329.27			109.56	3328.21
MW062A	4	3434.19	3432.41	98-108	98	108	3334.41	3324.41	106	3326.41	109.35	3323.06
MW063A	4	3435.22	3433.12	96-106	96	106	3337.12	3327.12	106	3327.12	106.54	3326.58
MW064SA	4	3405.15	3403.03	35-75	35	75	3368.03	3328.03	75	3328.03	75.50	3327.53
MW065SA	4	3402.96	3401.00	40-80	40	80	3361.00	3321.00	80	3321.00	80.46	3320.54

Table 1
Summary of Well Details
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Well Id	Casing/Screen Diameter	Surveyed Measuring Point (MP) Elevation	Surveyed Ground Elevation	Screen Interval (feet BGL)	Top of Screen (feet BGL)	Bottom of Screen (feet BGL)	Top of Screen Elevation	Bottom of Screen Elevation	Base of Ogallala (feet BGL)	Base of Ogallala Elevation	Completed Well Depth (feet BGL)	Completed Well TD Elevation
MW066SA	4	3404.03	3401.57	41-66	41	66	3360.57	3335.57	66	3335.57	66.39	3335.18
MW067SA	4	3409.16	3406.75	43-83	43	83	3363.75	3323.75	83	3323.75	81.90	3324.85
MW068	4	3448.08	3445.69	45-110	45	110	3400.69	3335.69	116	3329.69	110.47	3335.22
MW069	4	3444.07	3441.56	45-110	45	110	3396.56	3331.56	116	3325.56	110.44	3331.12
MW070	4	3439.68	3437.40	48-93	48	93	3389.40	3344.40			93.00	3344.40
MW070A	4	3439.67	3437.34	112-127	112	127	3325.34	3310.34	127	3310.34	124.92	3312.42
MW071SA	4	3401.01	3398.85	29-89	29	89	3369.85	3309.85	89	3309.85	89.84	3309.01
MW072SA	4	3401.34	3399.38	31-91	31	91	3368.38	3308.38	89	3310.38	91.59	3307.79
MW073SA	4	3403.26	3401.11	26-66	26	66	3375.11	3335.11	65	3336.11	66.85	3334.26
RW001	6	3428.32	3425.73	44.01-104.01	44.01	104.01	3381.72	3321.72			104.01	3321.72
RW002	6	3431.66	3429.48	49.89-69.89	49.89	69.89	3379.59	3359.59			69.89	3359.59
RW003	6	3429.82	3427.53	45-65	45	65	3382.53	3362.53			65.48	3362.05
RW004A	6	3430.11	3427.76	96.4-116.4	96.4	116.4	3331.36	3311.36	115	3312.76	116.40	3311.36
LordWW	6	3419.97	3419.47								68.22	3351.25
RowlandWW	6	3419.47	3418.47								65.54	3352.93
WoodellWW	4	3423.77	N/A	77-97	77	97						
EPWW1	6	3429.95	3428.78								98.85	
IW001	4	3431.91	3429.47	40-90	40	90	3389.47	3339.47			90.75	3338.72
IW002	4	3430.33	3427.78	40-90	40	90	3387.78	3337.78			90.40	3337.38

Notes:

- EP - Eunice Plant
- GOP - Gulf Oil Corp.
- WW - Water Well
- MW - Monitoring Well
- RW - Recovery Well
- IW - Injection Well
- No Suffix - Shallow/Middle Monitoring Well Completion (MW069)
- A - Deep Monitoring Well Completion (MW070A)
- M-Middle Monitoring Well Completion (MW008M)
- SA-Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)
- * - Highlander calculated water levels using ground level elevation and TOC elevation to calculate stickups
- (P) - Well was pumping during water collection

Table 2
Groundwater Elevations and PSH Thickness
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW001	4/22/1997	NR	68.00	67.94	4	-0.37	3428.57	52.34	3376.23
	12/18/1997	NR					3428.57	52.32	3376.25
	11/16/1999	NR					3428.57	*51.32	3377.25
	5/15/2001	NR					3428.57	50.33	3378.24
	8/23/2001	1422					3428.57	51.02	3377.55
	1/21/2002	1550					3428.57	50.64	3377.93
MW002	4/4/2002	NR					3428.57	50.66	3377.91
	9/3/2002	1205					3428.57	50.44	3378.13
	12/2/2002	1527					3428.57	50.20	3378.37
	1/31/2003	909					3428.57	50.36	3378.21
	3/28/2003	1005					3428.57	50.54	3378.03
	5/19/2003	1630					3428.57	50.36	3378.21
MW003	4/22/1997	NR	68.00	68.60	4	-0.28	3432.17	55.95	3376.22
	12/18/1997	NR					3432.17	55.62	3376.55
	11/16/1999	NR					3432.17	*54.97	3377.20
	5/15/2001	NR					3432.17	54.15	3378.02
	8/23/2001	1340					3432.17	54.12	3378.05
	1/21/2002	1157					3432.17	54.30	3377.87
MW002A	4/4/2002	1020					3432.17	54.31	3377.86
	9/3/2002	1200					3432.17	54.14	3378.03
	12/2/2002	1422					3432.17	53.88	3378.29
	1/30/2003	1359					3432.17	53.88	3378.29
	3/28/2003	1139					3432.17	54.16	3378.01
	5/19/2003	1540					3432.17	53.97	3378.20
MW003	1/7/2003	1200	123.00	124.05	4	-0.34	3432.31	54.03	3378.28
	1/30/2003	1351					3432.31	53.89	3378.42
	3/28/2003	1138					3432.31	54.11	3378.20
	5/19/2003	1545					3432.31	53.99	3378.32
	4/22/1997	NR	68.00	70.00	4	1.83	3428.27	49.79	3378.48
	12/18/1997	NR					3428.27	49.24	3379.03

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	11/16/1999	NR					3428.27	*50.49	3377.78
	5/15/2001	NR					3428.27	49.63	3378.64
	8/23/2001	1320					3428.27	49.99	3378.28
	1/21/2002	1244					3428.27	49.81	3378.46
	4/4/2002	1140					3428.27	49.92	3378.35
	9/3/2002	1105					3428.27	49.80	3378.47
	12/2/2002	1402					3428.27	49.51	3378.76
	1/31/2003	901					3428.27	49.64	3378.63
	3/28/2003	955					3428.27	49.61	3378.66
	5/19/2003	1610					3428.27	49.57	3378.70
MW004	4/22/1997	NR	66.50	66.15	4	-0.41	3423.38	48.24	3375.14
	12/18/1997	NR					3423.38	47.69	3375.69
	11/16/1999	NR					3423.38	*46.76	3376.62
	5/15/2001	NR					3423.38	45.91	3377.47
	8/23/2001	958					3423.38	46.12	3377.26
	1/21/2002	1226					3423.38	46.20	3377.18
	4/4/2002	1200					3423.38	46.27	3377.11
	9/3/2002	1045					3423.38	45.95	3377.43
	12/2/2002	1347					3423.38	45.85	3377.53
	1/31/2003	842					3423.38	45.94	3377.44
	3/28/2003	1021					3423.38	45.96	3377.42
	5/19/2003	1400					3423.38	45.97	3377.41
MW004A	12/18/1997	NR	104.20	103.65	4	-0.24	3423.57	48.00	3375.57
	11/16/1999	NR					3423.57	*47.00	3376.57
	5/15/2001	NR					3423.57	46.31	3377.26
	8/23/2001	953					3423.57	46.44	3377.13
	1/21/2002	1229					3423.57	46.44	3377.13
	4/4/2002	1200					3423.57	46.52	3377.05
	9/3/2002	1050					3423.57	46.49	3377.08
	12/2/2002	1345					3423.57	46.10	3377.47
	1/31/2003	844					3423.57	46.16	3377.41

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/28/2003	1019					3423.57	46.20	3377.37
	5/19/2003	1355					3423.57	46.21	3377.36
MW005	4/22/1997	NR	68.00		4	-0.22	3424.77	49.30	3375.47
SG (0.8486)	12/18/1997	NR					3424.77	49.52 (0.471)	3375.25
	11/16/1999	NR					3424.77	*48.14	3376.63
	5/15/2001	NR					3424.77	NR	NR
	8/23/2001	1425					3424.77	47.45P/47.82W	3377.26
	1/21/2002	NR					3424.77	47.44P/47.80W	3377.28
	4/9/2002	1300					3424.77	47.27P/47.31W	3377.49
	4/10/2003	1200					3424.77	47.27 (sheen)	3377.50
	5/19/2003	1536					3424.77	47.25	3377.52
MW006	4/22/1997	NR	68.00	68.00	4	-0.48	3425.26	49.26	3376.00
SG (0.8486)	12/18/1997	NR					3425.26	49.69 (2.78)	3375.57
	11/16/1999	NR					3425.26	*48.69	3376.57
	5/15/2001	NR					3425.26	47.36P/49.48W	3377.58
	8/23/2001	1435					3425.26	47.61P/50.21W	3377.26
	1/21/2002	NR					3425.26	47.60P/50.11W	3377.28
	4/9/2002	1305					3425.26	47.28P/50.35W	3377.52
	9/11/2002	1000					3425.26	47.11P/49.55W	3377.78
	12/5/2002	NR					3425.26	47.35P/49.13W	3377.64
	4/10/2003	1202					3425.26	47.38P/49.61W	3377.54
	5/19/2003	1550					3425.26	47.35P/49.63W	3377.56
MW007	12/18/1997	NR	66.29	67.84	4	1.99	3428.39	49.43	3378.96
	11/16/1999	NR					3428.39	*50.57	3377.82
	5/15/2001	NR					3428.39	49.70	3378.69
	8/23/2001	1328					3428.39	50.06	3378.33
	1/21/2002	1246					3428.39	49.93	3378.46
	4/4/2002	1140					3428.39	50.03	3378.36
	9/3/2002	1055					3428.39	49.90	3378.49
	12/2/2002	1406					3428.39	49.60	3378.79

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	1/31/2003	903					3428.39	49.71	3378.68
	3/28/2003	958					3428.39	49.70	3378.69
	5/19/2003	1410					3428.39	49.60	3378.79
MW007A	12/18/1997	NR	111.00	105.98	4	1.67	3428.13	49.37	3378.76
	11/16/1999	NR					3428.13	*50.22	3377.91
	5/15/2001	NR					3428.13	49.38	3378.75
	8/23/2001	1330					3428.13	49.72	3378.41
	1/21/2002	1245					3428.13	49.64	3378.49
	4/4/2002	1140					3428.13	49.74	3378.39
	9/3/2002	1100					3428.13	49.60	3378.53
	12/2/2002	1404					3428.13	49.32	3378.81
	1/31/2003	905					3428.13	49.43	3378.70
	3/28/2003	1000					3428.13	49.43	3378.70
	5/19/2003	1415					3428.13	49.37	3378.76
MW008	12/18/1997	NR	66.62	68.27	4	1.97	3430.13	50.76	3379.37
	11/16/1999	NR					3430.13	*52.25	3377.88
	5/15/2001	NR					3430.13	51.36	3378.77
	8/23/2001	900					3430.13	51.72	3378.41
	1/21/2002	1138					3430.13	51.53	3378.60
	4/4/2002	1110					3430.13	51.60	3378.53
	9/3/2002	1120					3430.13	51.51	3378.62
	12/2/2002	1449					3430.13	51.27	3378.86
	1/31/2003	914					3430.13	51.31	3378.82
	3/28/2003	947					3430.13	51.31	3378.82
	5/19/2003	1555					3430.13	51.21	3378.92
MW008M	1/21/2002	1136	85.00	88.05	4	2.31	3430.27	51.71	3378.56
	4/4/2002	1110					3430.27	51.77	3378.50
	9/3/2002	1125					3430.27	51.68	3378.59
	12/2/2002	1450					3430.27	51.45	3378.82
	1/31/2003	918					3430.27	51.52	3378.75

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/28/2003	948					3430.27	51.47	3378.80
	5/19/2003	1600					3430.27	51.44	3378.83
MW008A	12/18/1997	NR	114.00	114.83	4	2.05	3430.01	50.81	3379.20
	11/16/1999	NR					3430.01	*52.16	3377.85
	5/15/2001	NR					3430.01	51.34	3378.67
	8/23/2001	850					3430.01	51.64	3378.37
	1/21/2002	1137					3430.01	51.49	3378.52
	4/4/2002	1110					3430.01	51.53	3378.48
	9/3/2002	1130					3430.01	51.41	3378.60
	12/2/2002	1447					3430.01	51.16	3378.85
	1/31/2003	916					3430.01	51.24	3378.77
	3/28/2003	946					3430.01	51.25	3378.76
	5/19/2003	1550					3430.01	51.21	3378.80
MW009	12/18/1997	NR	66.66	68.57	4	2.25	3427.63	48.98	3378.65
	11/16/1999	NR					3427.63	*50.38	3377.25
	5/15/2001	NR					3427.63	49.59	3378.04
	8/23/2001	945					3427.63	49.85	3377.78
	1/21/2002	1236					3427.63	49.82	3377.81
	4/4/2002	1335					3427.63	49.88	3377.75
	9/3/2002	1035					3427.63	49.75	3377.88
	12/2/2002	1353					3427.63	49.55	3378.08
	1/31/2003	850					3427.63	49.60	3378.03
	3/28/2003	1015					3427.63	49.57	3378.06
	5/19/2003	1350					3427.63	49.53	3378.10
MW009A	12/18/1997	NR	101.00	102.33	4	2.14	3427.48	49.03	3378.45
	11/16/1999	NR					3427.48	*50.22	3377.26
	5/15/2001	NR					3427.48	49.42	3378.06
	8/23/2001	950					3427.48	49.64	3377.84
	1/21/2002	1235					3427.48	49.68	3377.80

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	4/4/2002	1335					3427.48	49.78	3377.70
	9/3/2002	1040					3427.48	49.55	3377.93
	12/2/2002	1350					3427.48	49.40	3378.08
	1/31/2003	852					3427.48	49.45	3378.03
	3/28/2003	1014					3427.48	49.44	3378.04
	5/19/2003	1345					3427.48	49.43	3378.05
MW010	12/18/1997	NR	65.10	64.72	4	-0.52	3419.42	43.22	3376.20
	11/16/1999	NR					3419.42	*41.27	3378.15
	5/15/2001	NR					3419.42	40.37	3379.05
	8/23/2001	1012					3419.42	40.61	3378.81
	1/21/2002	1318					3419.42	40.71	3378.71
	4/4/2002	1415					3419.42	40.85	3378.57
	9/3/2002	940					3419.42	40.65	3378.77
	12/2/2002	1255					3419.42	40.50	3378.92
	1/30/2003	1550					3419.42	40.51	3378.91
	3/28/2003	1029					3419.42	40.46	3378.96
	5/19/2003	1325					3419.42	40.52	3378.90
MW011	11/16/1999	NR	66.50	68.70	4	2.04	3431.49	*53.58	3377.91
	5/15/2001	NR					3431.49	52.78	3378.71
	8/23/2001	910					3431.49	52.96	3378.53
	1/21/2002	1147					3431.49	52.84	3378.65
	4/4/2002	1045					3431.49	52.89	3378.60
	9/3/2002	1135					3431.49	52.80	3378.69
	12/2/2002	1436					3431.49	52.56	3378.93
	1/30/2003	1422					3431.49	52.51	3378.98
	3/28/2003	1121					3431.49	52.63	3378.86
	5/19/2003	1510					3431.49	52.58	3378.91
MW011M	1/21/2002	1146	90.00	92.70	4	1.83	3431.21	52.68	3378.53
	4/4/2002	1045					3431.21	52.63	3378.58
	9/3/2002	1140					3431.21	52.54	3378.67

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	12/2/2002	1433					3431.21	52.32	3378.89
	1/30/2003	1425					3431.21	52.25	3378.96
	3/28/2003	1119					3431.21	52.32	3378.89
	5/19/2003	1515					3431.21	52.31	3378.90
MW011A	12/18/1997	NR	116.00	117.50	4	2.23	3431.77	51.49	3380.28
	11/16/1999	NR					3431.77	*53.49	3378.28
	5/15/2001	NR					3431.77	53.07	3378.70
	8/23/2001	920					3431.77	53.20	3378.57
	1/21/2002	1149					3431.77	53.04	3378.73
	4/4/2002	1045					3431.77	53.13	3378.64
	9/3/2002	1145					3431.77	53.01	3378.76
	12/2/2002	1430					3431.77	52.76	3379.01
	1/30/2003	1419					3431.77	52.72	3379.05
	3/28/2003	1122					3431.77	52.85	3378.92
	5/19/2003	1505					3431.77	52.78	3378.99
MW012	11/16/1999	NR	66.50	68.07	4	1.85	3429.51	*51.12	3378.39
	5/15/2001	NR					3429.51	50.50	3379.01
	8/23/2001	1050					3429.51	50.50	3379.01
	1/21/2002	1255					3429.51	50.48	3379.03
	4/5/2002	1225					3429.51	50.49	3379.02
	9/3/2002	1109					3429.51	50.40	3379.11
	12/2/2002	1313					3429.51	50.25	3379.26
	1/30/2003	1330					3429.51	50.13	3379.38
	3/28/2003	1059					3429.51	50.25	3379.26
	5/19/2003	1450					3429.51	50.15	3379.36
MW012M	1/21/2002	1255	90.00	91.33	4	2.27	3430.06	50.95	3379.11
	4/5/2002	1225					3430.06	51.37	3378.69
	9/3/2002	1111					3430.06	50.89	3379.17
	12/2/2002	1310					3430.06	50.75	3379.31

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW012A	1/30/2003	1333					3430.06	50.65	3379.41
	3/28/2003	1100					3430.06	50.76	3379.30
	5/19/2003	1500					3430.06	50.71	3379.35
	12/18/1997	NR	116.00	116.08	4	2.18	3429.92	49.73	3380.19
	11/16/1999	NR					3429.92	*51.50	3378.42
	5/15/2001	NR					3429.92	50.83	3379.09
	8/23/2001	1045					3429.92	50.89	3379.03
	1/21/2002	1257					3429.92	50.84	3379.08
	4/5/2002	1225					3429.92	50.90	3379.02
	9/3/2002	1107					3429.92	50.80	3379.12
MW013	12/2/2002	1311					3429.92	50.65	3379.27
	1/30/2003	1328					3429.92	50.55	3379.37
	3/28/2003	1058					3429.92	50.66	3379.26
	5/19/2003	1455					3429.92	50.63	3379.29
	12/18/1997	NR	60.20	60.18	4	-0.53	3424.11	46.98	3377.13
	11/16/1999	NR					3424.11	*44.81	3378.30
	5/15/2001	NR					3424.11	45.05	3379.06
	8/23/2001	1022					3424.11	45.11	3379.00
	1/21/2002	1249					3424.11	45.14	3378.97
	4/5/2002	1245					3424.11	45.22	3378.89
MW013A	9/3/2002	1125					3424.11	45.11	3379.00
	12/2/2002	1304					3424.11	44.91	3379.20
	1/30/2003	1546					3424.11	44.84	3379.27
	3/28/2003	1236					3424.11	45.91	3378.20
	5/19/2003	1335					3424.11	44.90	3379.21
	12/18/1997	NR	110.00	105.22	4	-0.39	3424.25	46.84	3377.41
	11/16/1999	NR					3424.25	*45.79	3378.46
	5/15/2001	NR					3424.25	45.06	3379.19
	8/23/2001	1018					3424.25	45.22	3379.03

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	1/21/2002	1251					3424.25	45.17	3379.08
	4/5/2002	1245					3424.25	45.23	3379.02
	9/3/2002	1127					3424.25	45.15	3379.10
	12/2/2002	1300					3424.25	44.94	3379.31
	1/30/2003	1537					3424.25	44.80	3379.45
	3/28/2003	1237					3424.25	44.96	3379.29
	5/19/2003	1340					3424.25	44.91	3379.34
MW014	11/16/1999	NR	65.00	60.90	4	-0.29	3424.05	45.22	3378.86
	5/15/2001	NR					3424.05	44.61	3379.44
	8/23/2001	1035					3424.05	44.48	3379.57
	1/21/2002	1346					3424.05	44.49	3379.56
	4/5/2002	1200					3424.05	44.60	3379.45
	9/3/2002	1048					3424.05	44.25	3379.80
	12/2/2002	1215					3424.05	44.24	3379.81
	1/30/2003	1458					3424.05	44.19	3379.86
	3/28/2003	1209					3424.05	44.31	3379.74
	5/19/2003	1305					3424.05	44.25	3379.80
MW014A	12/18/1997	NR	109.00	105.10	4	-0.32	3423.93	45.93	3378.00
	11/16/1999	NR					3423.93	44.89	3379.01
	5/15/2001	NR					3423.93	44.40	3379.53
	8/23/2001	1028					3423.93	44.27	3379.66
	1/21/2002	1345					3423.93	44.25	3379.68
	4/5/2002	1200					3423.93	44.37	3379.56
	9/3/2002	1050					3423.93	44.20	3379.73
	12/2/2002	1218					3423.93	43.99	3379.94
	1/30/2003	1454					3423.93	43.95	3379.98
	3/28/2003	1210					3423.93	44.16	3379.77
	5/19/2003	1300					3423.93	44.01	3379.92

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW015	11/16/1999	NR	55.00	54.12	4	-0.34	3420.40	41.46	3378.94
	5/15/2001	NR					3420.40	40.85	3379.55
	8/23/2001	1123					3420.40	40.85	3379.55
	1/21/2002	1311					3420.40	40.81	3379.59
	4/4/2002	1425					3420.40	40.99	3379.41
	9/3/2002	920					3420.40	40.75	3379.65
	12/2/2002	1221					3420.40	40.53	3379.87
	1/30/2003	1520					3420.40	40.51	3379.89
	3/28/2003	1219					3420.40	40.64	3379.76
	5/19/2003	1320					3420.40	40.56	3379.84
MW015A	12/18/1997	NR	103.00	102.15	4	-0.34	3420.55	42.50	3378.05
	11/16/1999	NR					3420.55	41.33	3379.22
	5/15/2001	NR					3420.55	40.69	3379.86
	8/23/2001	1118					3420.55	40.71	3379.84
	1/21/2002	1351					3420.55	40.72	3379.83
	4/4/2002	1425					3420.55	40.89	3379.66
	9/3/2002	915					3420.55	40.66	3379.89
	12/2/2002	1226					3420.55	40.43	3380.12
	1/30/2003	1516					3420.55	40.30	3380.25
	3/28/2003	1218					3420.55	40.54	3380.01
MW016A	5/19/2003	1325					3420.55	40.52	3380.03
	12/18/1997	NR	91.60	91.52	4	-0.33	3419.92	41.98	3377.94
	11/16/1999	NR					3419.92	40.80	3379.12
	5/15/2001	NR					3419.92	40.34	3379.58
	8/23/2001	1128					3419.92	40.21	3379.71
	1/21/2002	1356					3419.92	40.33	3379.59
	4/4/2002	1418					3419.92	40.51	3379.41
	9/3/2002	911					3419.92	40.16	3379.76
	12/2/2002	1229					3419.92	39.90	3380.02
	1/30/2003	1526					3419.92	39.89	3380.03

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/28/2003	1224					3419.92	40.05	3379.87
	5/19/2003	1315					3419.92	40.15	3379.77
MW017A	12/18/1997	NR	106.00	103.50	4	-0.48	3424.38	46.05	3378.33
	11/16/1999	NR					3424.38	45.12	3379.26
	5/15/2001	NR					3424.38	44.53	3379.85
	8/23/2001	1114					3424.38	44.49	3379.89
	1/21/2002	1403					3424.38	44.42	3379.96
	4/4/2002	1435					3424.38	44.58	3379.80
	9/3/2002	1043					3424.38	44.38	3380.00
	12/2/2002	1212					3424.38	44.15	3380.23
	1/30/2003	1446					3424.38	44.10	3380.28
	3/28/2003	1157					3424.38	44.23	3380.15
	5/19/2003	1310					3424.38	44.19	3380.19
MW018	5/15/2001	NR	55.00	54.00	4	-0.30	3417.15	37.82	3379.33
	5/15/2001	NR					3417.15	37.90	3379.25
	8/23/2001	1135					3417.15	37.26	3379.89
	1/21/2002	1529					3417.15	37.90	3379.25
	4/4/2002	1400					3417.15	38.15	3379.00
	9/3/2002	925					3417.15	37.34	3379.81
	12/2/2002	1232					3417.15	37.37	3379.78
	1/30/2003	1204					3417.15	37.38	3379.77
	3/28/2003	1305					3417.15	37.66	3379.49
	5/19/2003	1443					3417.15	37.81	3379.34
MW018A	12/18/1997	NR	81.55	81.40	4	-0.36	3416.86	39.16	3377.70
	11/16/1999	NR					3416.86	37.52	3379.34
	5/15/2001	NR					3416.86	37.62	3379.24
	8/23/2001	1140					3416.86	37.55	3379.31
	1/21/2002	1530					3416.86	37.62	3379.24
	4/4/2002	1400					3416.86	37.89	3378.97
	9/3/2002	930					3416.86	37.03	3379.83

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	12/2/2002	1236					3416.86	37.01	3379.85
	1/30/2003	1206					3416.86	37.12	3379.74
	3/28/2003	1308					3416.86	37.38	3379.48
	5/19/2003	1439					3416.86	37.54	3379.32
MW019A	12/18/1997	NR	72.40	72.15	4	-0.37	3414.74	39.83	3374.91
	11/16/1999	NR					3414.74	38.12	3376.62
	5/15/2001	NR					3414.74	38.02	3376.72
	8/23/2001	1145					3414.74	37.62	3377.12
	1/21/2002	1300					3414.74	37.92	3376.82
	4/4/2002	NR					3414.74	38.15	3376.59
	9/3/2002	935					3414.74	37.40	3377.34
	12/2/2002	NR					3414.74	37.46	3377.28
	1/30/2003	1129					3414.74	37.61	3377.13
	3/28/2003	1317					3414.74	37.79	3376.95
	5/19/2003	1434					3414.74	37.91	3376.83
MW020	11/16/1999	NR	55.00	57.95	4	2.26	3420.85	44.58	3376.27
	2/6/2002	1135					3420.85	44.02	3376.83
	9/3/2002	1045					3420.85	43.79	3377.06
	12/9/2002	NR					3420.85	43.84	3377.01
	1/30/2003	1140					3420.85	43.78	3377.07
	3/28/2003	1324					3420.85	43.86	3376.99
	6/5/2003	1200					3420.85	43.93	3376.92
MW020A	11/16/1999	NR	81.00	80.40	4	2.53	3421.14	44.70	3376.44
	2/6/2002	1020					3421.14	44.14	3377.00
	9/3/2002	925					3421.14	43.98	3377.16
	12/9/2002	NR					3421.14	44.06	3377.08
	1/30/2003	1136					3421.14	43.98	3377.16
	3/28/2003	1325					3421.14	44.05	3377.09
	6/5/2003	1305					3421.14	44.44	3376.70

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW021	11/16/1999	NR	60.00	62.43	4	2.22	3422.72	47.82	3374.90
	5/15/2001	NR					3422.72	47.09	3375.63
	8/23/2001	1009					3422.72	47.34	3375.38
	1/21/2002	1311					3422.72	47.19	3375.53
	4/4/2002	1345					3422.72	47.35	3375.37
	9/3/2002	1020					3422.72	47.25	3375.47
	12/2/2002	1128					3422.72	47.01	3375.71
	1/30/2003	1040					3422.72	46.98	3375.74
	3/28/2003	1438					3422.72	47.02	3375.70
	5/19/2003	1220					3422.72	47.09	3375.63
MW021A	11/16/1999	NR	81.00	87.65	4	2.16	3422.94	48.41	3374.53
	5/15/2001	NR					3422.94	47.57	3375.37
	8/23/2001	1005					3422.94	47.98	3374.96
	1/21/2002	1310					3422.94	47.83	3375.11
	4/4/2002	1345					3422.94	47.98	3374.96
	9/3/2002	1025					3422.94	48.07	3374.87
	12/2/2002	1126					3422.94	47.63	3375.31
	1/30/2003	1045					3422.94	47.61	3375.33
	3/28/2003	1436					3422.94	47.71	3375.23
	5/19/2003	1225					3422.94	47.96	3374.98
MW022A	11/16/1999	NR	105.00	102.71	4	2.31	3431.13	57.29	3373.84
	5/15/2001	NR					3431.13	53.35	3377.78
	8/23/2001	1344					3431.13	53.96	3377.17
	1/21/2002	1202					3431.13	53.75	3377.38
	4/4/2002	1005					3431.13	66.00	3365.13
	9/3/2002	1136					3431.13	52.96	3378.17
	12/2/2002	1456					3431.13	52.95	3378.18
	1/31/2003	924					3431.13	53.25	3377.88
	3/28/2003	938					3431.13	53.58	3377.55
	5/19/2003	1624					3431.13	53.26	3377.87

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW023	11/16/1999	NR	67.00	69.10	4	2.09	3436.44	58.42	3378.02
	5/15/2001	NR					3436.44	57.73	3378.71
	8/23/2001	1435					3436.44	57.79	3378.65
	2/7/2002	1110					3436.44	57.77	3378.67
	9/3/2002	1210					3436.44	57.69	3378.75
	12/2/2002	1426					3436.44	57.46	3378.98
	1/30/2003	1339					3436.44	57.41	3379.03
	3/28/2003	1108					3436.44	57.50	3378.94
	5/19/2003	1440					3436.44	57.41	3379.03
	1/9/2003	NR	120.00	123.80	4	2.25	3436.26	57.70	3378.56
MW023A	1/30/2003	1342					3436.26	57.23	3379.03
	3/28/2003	1111					3436.26	57.33	3378.93
	5/19/2003	1445					3436.26	57.25	3379.01
	1/9/2003	NR	86.00	89.60	4	2.34	3431.32	53.76	3377.56
	1/29/2003	1405					3431.32	53.64	3377.68
MW024	3/27/2003	1350					3431.32	53.85	3377.47
	5/19/2003	1145					3431.32	53.77	3377.55
	11/16/1999	NR	105.00	101.00	4	1.54	3430.77	54.30	3376.47
	5/15/2001	NR					3430.77	53.32	3377.45
	8/23/2001	1445					3430.77	53.86	3376.91
	2/6/2002	1525					3430.77	53.42	3377.35
	9/3/2002	955					3430.77	53.26	3377.51
	12/2/2002	1341					3430.77	53.03	3377.74
	1/29/2003	1408					3430.77	53.11	3377.66
	3/27/2003	1353					3430.77	53.31	3377.46
MW025	5/19/2003	1150					3430.77	53.22	3377.55
	11/16/1999	NR	65.00	66.20	4	-0.25	3432.69	53.23	3379.41
	5/15/2001	NR					3432.69	53.24	3379.45
	8/23/2001	1054					3432.69	53.02	3379.67

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	1/21/2002	1339					3432.69	53.03	3379.66
	4/5/2002	1205					3432.69	53.17	3379.52
	9/3/2002	1057					3432.69	53.01	3379.68
	12/2/2002	1207					3432.69	52.83	3379.86
	1/29/2003	1313					3432.69	52.80	3379.89
	3/28/2003	1509					3432.69	52.86	3379.83
	5/19/2003	1635					3432.69	52.59	3380.10
MW026	11/16/1999	NR	67.00	62.78	4	-0.55	3432.04	52.95	3379.09
	5/15/2001	NR					3432.04	52.08	3379.96
	8/23/2001	1110					3432.04	52.06	3379.98
	1/21/2002	1407					3432.04	51.91	3380.13
	4/4/2002	1440					3432.04	52.00	3380.04
	9/3/2002	1031					3432.04	51.99	3380.05
	12/2/2002	1140					3432.04	51.60	3380.44
	1/30/2003	1434					3432.04	51.43	3380.61
	3/28/2003	1203					3432.04	51.62	3380.42
	5/19/2003	1250					3432.04	51.52	3380.52
MW027	11/16/1999	NR	71.50	71.52	4	-0.45	3443.33	64.65	3378.68
	5/15/2001	NR					3443.33	64.09	3379.24
	8/23/2001	1059					3443.33	63.82	3379.51
	1/21/2002	1412					3443.33	63.87	3379.46
	4/4/2002	1445					3443.33	63.90	3379.43
	9/3/2002	1015					3443.33	63.90	3379.43
	12/2/2002	1144					3443.33	63.64	3379.69
	1/30/2003	1306					3443.33	63.59	3379.74
	3/27/2003	1535					3443.33	63.49	3379.84
	5/19/2003	1245					3443.33	63.63	3379.70

Table 2
Groundwater Elevations and PSH Thickness
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW028	11/16/1999	NR	85.00	85.15	4	1.59	3451.63	73.52	3378.11
	5/15/2001	NR					3451.63	72.89	3378.74
	8/23/2001	1105					3451.63	72.86	3378.77
	1/21/2002	1518					3451.63	72.75	3378.88
	4/5/2002	1145					3451.63	72.77	3378.86
	9/3/2002	1007					3451.63	72.71	3378.92
	12/2/2002	1152					3451.63	72.55	3379.08
	1/29/2003	1335					3451.63	72.51	3379.12
	3/28/2003	1038					3451.63	72.58	3379.05
	5/19/2003	1625					3451.63	72.52	3379.11
MW029	11/16/1999	NR	80.00	81.45	4	2.14	3446.89	68.62	3378.27
	5/15/2001	NR					3446.89	68.12	3378.77
	8/30/2001	1453					3446.89	68.47	3378.42
	2/6/2002	1545					3446.89	67.97	3378.92
	9/3/2002	1000					3446.89	67.86	3379.03
	12/2/2002	1328					3446.89	67.70	3379.19
	1/29/2003	1350					3446.89	67.73	3379.16
	3/27/2003	1433					3446.89	67.66	3379.23
	5/19/2003	1215					3446.89	67.63	3379.26
	4/24/2002	1256	77.00	77.41	4	2.3	3439.84	61.42	3378.42
MW030	5/7/2002	815					3439.84	61.30	3378.54
	9/3/2002	955					3439.84	61.39	3378.45
	12/2/2002	1333					3439.84	61.18	3378.66
	1/29/2003	1355					3439.84	61.80	3378.04
	3/27/2003	1425					3439.84	61.14	3378.70
MW031	5/19/2003	1205					3439.84	61.16	3378.68
	4/25/2002	1035	76.00	77.21	4	2.4	3440.68	61.80	3378.88
	5/7/2002	825					3440.68	61.85	3378.83
	9/3/2002	1009					3440.68	61.88	3378.8
	12/2/2002	1325					3440.68	61.73	3378.95

Table 2
Groundwater Elevations and PSH Thickness
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW032	1/29/2003	1345					3440.68	61.71	3378.97
	3/27/2003	1440					3440.68	61.65	3379.03
	5/19/2003	1220					3440.68	61.67	3379.01
	4/4/2002	NR	68.00	69.25	4	-0.48	3442.22	62.71	3379.51
	9/3/2002	1020					3442.22	62.61	3379.61
MW033	12/2/2002	1200					3442.22	62.40	3379.82
	1/31/2003	1114					3442.22	62.55	3379.67
	3/27/2003	1524					3442.22	62.32	3379.90
	5/19/2003	1240					3442.22	62.37	3379.85
	4/4/2002	NR	62.00	63.50	4	-0.20	3428.86	48.95	3379.91
MW034	9/3/2002	1037					3428.86	48.86	3380.00
	12/5/2002	NR					3428.86	48.76	3380.10
	1/31/2003	1140					3428.86	48.63	3380.23
	3/27/2003	1547					3428.86	48.50	3380.36
	5/19/2003	1045					3428.86	48.63	3380.23
MW035	4/4/2002	NR	62.00	63.10	4	-0.48	3418.76	43.49	3375.27
	9/3/2002	955					3418.76	43.43	3375.33
	12/2/2002	1114					3418.76	43.24	3375.52
	1/30/2003	1151					3418.76	43.31	3375.45
	3/28/2003	1420					3418.76	43.20	3375.56
MW036	5/19/2003	1503					3418.76	43.24	3375.52
	8/23/2001	1354	62.00	65.60	4	2.47	3427.39	50.49	3376.90
	1/21/2002	1208					3427.39	50.45	3376.94
	4/4/2002	935					3427.39	50.58	3376.81
	9/3/2002	1150					3427.39	50.04	3377.35
MW037	12/2/2002	1516					3427.39	50.03	3377.36
	1/31/2003	947					3427.39	50.03	3377.36
	3/28/2003	922					3427.39	50.19	3377.2
	5/19/2003	1558					3427.39	50.24	3377.15
	8/23/2001	1405	62.00	62.64	4	-0.35	3425.49	48.36	3377.13
MW038	1/21/2002	1211					3425.49	48.22	3377.27
	4/4/2002	940					3425.49	48.24	3377.25

Table 2
Groundwater Elevations and PSH Thickness
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/3/2002	1220					3425.49	47.75	3377.74
	12/2/2002	1520					3425.49	47.78	3377.71
	1/31/2003	958					3425.49	47.84	3377.65
	3/28/2003	918					3425.49	47.91	3377.58
	5/19/2003	1554					3425.49	47.96	3377.53
MW037	8/23/2001	1420	62.00	61.72	4	-0.37	3423.71	46.60	3377.11
	1/21/2002	1232					3423.71	46.59	3377.12
	4/4/2002	1150					3423.71	46.62	3377.09
	9/3/2002	1225					3423.71	46.07	3377.64
	12/2/2002	1533					3423.71	46.17	3377.54
	1/31/2003	830					3423.71	46.28	3377.43
	3/28/2003	1504					3423.71	46.29	3377.42
	5/19/2003	1405					3423.71	46.39	3377.32
MW038	8/23/2001	1415	62.00	61.98	4	-0.34	3425.23	47.85	3377.38
	1/21/2002	1213					3425.23	47.69	3377.54
	4/4/2002	955					3425.23	47.81	3377.42
	9/3/2002	1230					3425.23	47.43	3377.8
	12/2/2002	1522					3425.23	47.30	3377.93
	1/31/2003	1003					3425.23	47.41	3377.82
	3/28/2003	912					3425.23	47.51	3377.72
	5/19/2003	1522					3425.23	47.42	3377.81
MW039A	8/23/2001	1330	118.00	119.59	4	2.36	3435.71	57.85	3377.86
	1/21/2002	1153					3435.71	57.62	3378.09
	4/4/2002	1030					3435.71	57.71	3378
	9/3/2002	1155					3435.71	57.47	3378.24
	12/2/2002	1419					3435.71	57.20	3378.51
	1/30/2003	1403					3435.71	57.20	3378.51
	3/28/2003	1131					3435.71	57.40	3378.31
	5/19/2003	1530					3435.71	57.27	3378.44
MW040A	4/4/2002	NR	110.00	110.10	4	-0.48	3422.92	43.70	3379.22

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/3/2002	945					3422.92	43.90	3379.02
	12/2/2002	1258					3422.92	43.71	3379.21
	1/31/2003	1046					3422.92	43.71	3379.21
	3/28/2003	1233					3422.92	43.71	3379.21
	5/19/2003	1330					3422.92	43.69	3379.23
MW041A	4/29/2002	800	90.00	88.00	4	-0.25	3418.42	43.22	3375.2
	5/7/2002	NR					3418.42	43.12	3375.3
	9/3/2002	950					3418.42	43.30	3375.12
	12/2/2002	1112					3418.42	43.04	3375.38
	1/30/2003	1146					3418.42	43.19	3375.23
	3/28/2003	1421					3418.42	43.01	3375.41
	5/19/2003	1500					3418.42	43.08	3375.34
MW042A	8/23/2001	1400	102.00	99.47	4	-0.39	3424.75	46.26	3378.49
	1/21/2002	1209					3424.75	48.30	3376.45
	4/4/2002	930					3424.75	48.17	3376.58
	9/3/2002	1151					3424.75	47.86	3376.89
	12/2/2002	1514					3424.75	47.75	3377
	1/31/2003	945					3424.75	47.65	3377.1
	3/28/2003	925					3424.75	47.84	3376.91
	5/19/2003	1603					3424.75	47.84	3376.91
MW043	5/7/2002	810	62.00	65.00	4	1.98	3423.57	47.61	3375.96
	9/3/2002	1015					3423.57	47.53	3376.04
	12/2/2002	1122					3423.57	47.42	3376.15
	1/30/2003	1048					3423.57	47.38	3376.19
	3/28/2003	1442					3423.57	47.44	3376.13
	5/19/2003	1229					3423.57	47.50	3376.07
MW044	4/4/2002	NR	60.00	61.50	4	-0.40	3420.41	43.86	3376.55
	9/3/2002	1010					3420.41	43.52	3376.89
	12/2/2002	1118					3420.41	43.47	3376.94

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW045	1/30/2003	1155					3420.41	43.68	3376.73
	3/28/2003	1415					3420.41	43.49	3376.92
	5/19/2003	1509					3420.41	43.58	3376.83
	4/4/2002	912	66.00	66.56	4	-0.16	3425.53	48.57	3376.96
	9/3/2002	1146					3425.53	48.15	3377.38
MW046	12/2/2002	1509					3425.53	47.94	3377.59
	1/31/2003	941					3425.53	48.08	3377.45
	3/28/2003	929					3425.53	48.31	3377.22
	5/19/2003	1611					3425.53	48.11	3377.42
	4/4/2002	855	66.00	67.00	4	-0.43	3426.81	49.93	3376.88
MW046A	9/3/2002	1143					3426.81	49.37	3377.44
	12/2/2002	1502					3426.81	49.17	3377.64
	1/31/2003	930					3426.81	49.33	3377.48
	3/28/2003	933					3426.81	49.66	3377.15
	5/19/2003	1620					3426.81	49.35	3377.46
MW047	1/7/2003	1205	107.00	107.80	4	-0.49	3426.45	50.09	3376.36
	1/31/2003	933					3426.45	48.81	3377.64
	3/28/2003	934					3426.45	49.06	3377.39
	5/19/2003	1616					3426.45	48.88	3377.57
	4/4/2002	1130	66.00	64.95	4	-0.45	3427.65	49.54	3378.11
MW048SA	9/3/2002	1215					3427.65	49.40	3378.25
	12/2/2002	1412					3427.65	49.16	3378.49
	1/31/2003	856					3427.65	49.22	3378.43
	3/28/2003	1009					3427.65	49.29	3378.36
	5/19/2003	1635					3427.65	49.21	3378.44
	8/1/2002	1115	82.00	86.00	4	2.34	3421.10	46.45	3374.65
	9/3/2002	1000					3421.10	46.40	3374.7
	12/2/2002	1103					3421.10	46.26	3374.84
	1/30/2003	1115					3421.10	46.18	3374.92
	3/28/2003	1341					3421.10	46.15	3374.95
	5/19/2003	1321					3421.10	46.19	3374.91

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW049SA	7/30/2002	1140	82.00	85.00	4	2.32	3422.46	49.31	3373.15
	9/3/2002	1005					3422.46	49.29	3373.17
	12/2/2002	1105					3422.46	49.18	3373.28
	1/30/2003	1112					3422.46	49.13	3373.33
	3/28/2003	1345					3422.46	49.09	3373.37
MW050SA	5/19/2003	1317					3422.46	49.08	3373.38
	7/30/2002	1000	78.00	81.00	4	1.75	3419.31	46.30	3373.01
	9/3/2002	1030					3419.31	46.19	3373.12
	12/2/2002	1133					3419.31	45.93	3373.38
	1/30/2003	1030					3419.31	45.92	3373.39
MW051SA	3/28/2003	1430					3419.31	45.92	3373.39
	5/19/2003	1214					3419.31	46.01	3373.3
	10/10/2002	925	65.00	66.00	4	2.00	3415.42	44.50	3370.92
	12/2/2002	1058					3415.42	44.43	3370.99
	1/30/2003	1055					3415.42	44.38	3371.04
MW052SA	3/28/2003	1411					3415.42	44.39	3371.03
	5/19/2003	1308					3415.42	44.40	3371.02
	10/10/2002	1110	65.00	66.50	4	2.31	3415.23	45.45	3369.78
	12/2/2002	1053					3415.23	45.39	3369.84
	1/30/2003	1105					3415.23	45.35	3369.88
MW053SA	3/28/2003	1406					3415.23	45.36	3369.87
	5/19/2003	1305					3415.23	45.28	3369.95
	9/18/2002	945	65.00	68.29	4	2.48	3413.86	42.93	3370.93
	12/2/2002	NR					3413.86	42.80	3371.06
	1/30/2003	1123					3413.86	42.68	3371.18
MW054SA	3/28/2003	1331					3413.86	42.68	3371.18
	5/19/2003	1425					3413.86	42.65	3371.21
	1/30/2003	1100	60.00	60.10	4	2.31	3411.38	45.21	3366.17
	3/28/2003	1400					3411.38	45.09	3366.29
	5/19/2003	1258					3411.38	45.09	3366.29

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW055SA	1/6/2003	NR	50.00	53.20	4	2.35	3407.43	41.20	3366.23
	1/30/2003	NR					3407.43	41.00	3366.43
	3/27/2003	1343					3407.43	41.15	3366.28
	5/19/2003	1159					3407.43	41.00	3366.43
MW056SA	1/7/2003	NR	52.00	55.02	4	2.30	3410.71	46.32	3364.39
	1/30/2003	1015					3410.71	46.21	3364.5
	3/28/2003	1451					3410.71	46.20	3364.51
	5/19/2003	1154					3410.71	46.18	3364.53
MW057SA	1/30/2003	1020	70.00	71.20	4	2.36	3417.74	46.33	3371.41
	3/28/2003	1459					3417.74	46.45	3371.29
	5/19/2003	1150					3417.74	46.59	3371.15
MW058	1/31/2003	1120	114.00	111.85	4	2.12	3437.13	58.49	3378.64
	3/27/2003	1428					3437.13	58.49	3378.64
	5/19/2003	1210					3437.13	58.52	3378.61
MW059	1/31/2003	1125	113.00	107.09	4	2.19	3442.22	63.28	3378.94
	3/28/2003	1105					3442.22	63.23	3378.99
	5/19/2003	1430					3442.22	63.15	3379.07
MW060	1/8/2003	NR	100.00	102.60	4	2.56	3437.70	58.62	3379.08
	1/30/2003	NR					3437.70	58.38	3379.32
	3/28/2003	1046					3437.70	58.45	3379.25
	5/19/2003	1620					3437.70	58.39	3379.31
MW061	1/8/2003	NR	108.50	111.75	4	2.19	3439.86	60.23	3379.63
	3/27/2003	1516					3439.86	60.20	3379.66
	5/19/2003	1230					3439.86	60.26	3379.6
MW062A	1/31/2003	1040	108.00	111.00	4	1.65	3434.19	57.13	3377.06
	3/27/2003	1358					3434.19	57.16	3377.03
	5/19/2003	1140					3434.19	57.19	3377
MW063A	1/31/2003	1036	106.00	108.50	4	1.96	3435.22	57.89	3377.33
	3/27/2003	1401					3435.22	57.80	3377.42
	5/19/2003	1130					3435.22	57.82	3377.4

Table 2
Groundwater Elevations and PSH Thickness
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW064SA	3/27/2003	1337	75.00	77.71	4	2.21	3405.15	54.20	3350.95
	5/19/2003	1254					3405.15	54.22	3350.93
MW065SA	3/27/2003	1330	80.00	82.50	4	2.04	3402.96	54.21	3348.75
	5/19/2003	1209					3402.96	54.23	3348.73
MW066SA	3/28/2003	1355	66.00	68.95	4	2.56	3404.03	52.45	3351.58
	5/19/2003	1244					3404.03	52.24	3351.79
MW067SA	3/28/2003	1353	83.00	84.40	4	2.50	3409.16	47.64	3361.52
	5/19/2003	1246					3409.16	47.61	3361.55
MW068	3/27/2003	1459	110.00	112.72	4	2.25	3448.08	67.61	3380.47
	5/19/2003	1235					3448.08	68.70	3379.38
MW069	3/27/2003	1507	110.00	112.81	4	2.37	3444.07	64.89	3379.18
	5/19/2003	1225					3444.07	64.83	3379.24
MW070	3/27/2003	1406	93.00	95.15	4	2.15	3439.68	61.00	3378.68
	5/19/2003	1150					3439.68	61.03	3378.65
MW070A	3/27/2003	1411	127.00	127.11	4	2.19	3439.67	61.08	3378.59
	5/19/2003	1200					3439.67	61.06	3378.61
MW071SA	5/2/2003	1435	89.00	92.00	4	2.16	3401.01	34.79	3366.22
	5/19/2003	1117					3401.01	52.61	3348.4
MW072SA	5/1/2003	1030	91.00	93.55	4	1.96	3401.34	53.46	3347.88
	5/19/2003	1234					3401.34	52.96	3348.38
MW073SA	5/3/2003	1420	66.00	69.00	4	2.15	3403.26	50.25	3353.01
	5/19/2003	1240					3403.26	50.21	3353.05
RW001	11/16/1999	NR	111.00	106.50	6	2.49	3428.32	50.41	3377.91
	5/15/2001	NR					3428.32	49.65	3378.67
	8/23/2001	1325					3428.32	50.04	3378.28
	1/21/2002	1243					3428.32	49.85	3378.47
	4/4/2002	1140					3428.32	49.97	3378.35
	9/3/2002	1110					3428.32	49.88	3378.44
	12/2/2002	1359					3428.32	49.53	3378.79

Table 2
Groundwater Elevations and PSH Thickness
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	1/31/2003	1026					3428.32	49.63	3378.69
	3/28/2003	957					3428.32	49.62	3378.70
	5/19/2003	1615					3428.32	49.51	3378.81
RW002	1/21/2002	1145	68.00	72.07	6	2.18	3431.66	52.98	3378.68
	4/4/2002	1045					3431.66	53.05	3378.61
	9/3/2002	1150					3431.66	52.95	3378.71
	12/2/2002	1435					3431.66	52.81	3378.85
	1/30/2003	1415					3431.66	52.75	3378.91
	3/28/2003	1117					3431.66	52.76	3378.90
	5/19/2003	1520					3431.66	52.73	3378.93
RW003	1/21/2002	1256	65.00	67.79	6	2.31	3429.82	50.75	3379.07
	4/4/2002	1225					3429.82	50.78	3379.04
	9/3/2002	1240					3429.82	50.75	3379.07
	12/2/2002	1315					3429.82	50.56	3379.26
	1/30/2003	1326					3429.82	50.45	3379.37
	3/28/2003	1056					3429.82	50.55	3379.27
	5/19/2003	1505					3429.82	50.49	3379.33
RW004A	1/21/2002	1135	115.00	118.76	6	2.36	3430.11	51.51	3378.60
	4/4/2002	1110					3430.11	51.59	3378.52
	9/3/2002	1115					3430.11	51.45	3378.66
	12/2/2002	1451					3430.11	51.10	3379.01
	1/31/2003	920					3430.11	51.14	3378.97
	3/28/2003	950					3430.11	51.16	3378.95
	5/19/2003	1605					3430.11	51.23	3378.88
EPWW1	12/18/1997	NR	100.00	99.98	6	1.13	3429.95	73.12	3356.83
	4/22/1997	NR					3429.95	66.46	3363.49
	11/16/1999	NR					3429.95	65.20	3364.75
	5/15/2001	NR					3429.95	52.27	3377.68
	8/23/2001	1350					3429.95	52.86	3377.09
	1/21/2002	1542					3429.95	52.67	3377.28

Table 2
Groundwater Elevations and PSH Thickness
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	4/4/2002	1010					3429.95	93.34	3336.61
	9/3/2002	1140					3429.95	50.85	3379.10
	12/2/2002	1458					3429.95	51.59	3378.36
	1/31/2003	927					3429.95	52.20	3377.75
	3/28/2003	941					3429.95	52.58	3377.37
	5/19/2003	1628					3429.95	52.26	3377.69
LordWW	12/18/1997	NR	93.00	68.75	6	0.53	3419.97	44.00	3375.97
	11/16/1999	NR					3419.97	42.67	3377.30
	6/7/2001	1045					3419.97	41.90	3378.07
	2/6/2002	1330					3419.97	42.01	3377.96
	9/3/2002	910					3419.97	41.88	3378.09
	12/9/2002	NR					3419.97	41.88	3378.09
	6/5/2003	1030					3419.97	41.95	3378.02
RowlandWW	12/18/1997	NR	--	66.00	6	0.46	3419.47	43.12	3376.35
	11/16/1999	NR					3419.47	41.58	3377.89
	5/15/2001	NR					3419.47	41.06	3378.41
	8/23/2001	1150					3419.47	40.92	3378.55
	1/21/2002	1537					3419.47	41.09	3378.38
	4/4/2002	1255					3419.47	41.32	3378.15
	9/3/2002	1235					3419.47	40.90	3378.57
	12/2/2002	1249					3419.47	40.80	3378.67
	1/31/2003	1057					3419.47	40.79	3378.68
	3/28/2003	1525					3419.47	40.74	3378.73
	6/3/2003	NR					3419.47	40.92	3378.55
WoodellWW	5/15/2001	NR	120.00	86.00 to TOP	4	1.03	3423.77	49.63	3374.14
	8/23/2001	1500					3423.77	49.97	3373.80
	4/5/2002	1250					3423.77	49.52	3374.25
	9/3/2002	1300					3423.77	54.07 (P)	3369.7
	12/2/2002	1241					3423.77	49.06	3374.71
	1/30/2003	1025					3423.77	49.14	3374.63

Table 2
Groundwater Elevations and PSH Thickness
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/28/2003	1520					3423.77	62.24 (P)	3361.53
							3423.77	53.76 (P)	3370.01
GOPWW2	NR	NR	99.00	87.58	8	1.37	3396.97	49.02	3347.95
	12/4/2002	1540					3396.97	49.54	3347.43
	1/31/2003	1103					3396.97	49.42	3347.55
	3/28/2003	1300					3396.97	49.14	3347.83
	5/19/2003	1126					3396.97	49.21	3347.76
IW001	8/1/2002	1250	90.00	93.00	4	2.25	3431.91	53.19	3378.72
	12/2/2002	1437					3431.91	52.90	3379.01
	1/30/2003	1411					3431.91	52.85	3379.06
	3/28/2003	1114					3431.91	52.94	3378.97
	5/19/2003	1510					3431.91	50.91	3381.00
IW002	9/3/2002	NR	90.00	92.95	4	2.55	3430.33	53.14	3377.19
	12/2/2002	1315					3430.33	50.99	3379.34
	1/30/2003	1318					3430.33	50.88	3379.45
	3/28/2003	1052					3430.33	50.99	3379.34
	5/19/2003	1525					3430.33	50.88	3379.45

Notes:

- EP - Eunice Plant
- GOP - Gulf Oil Corp.
- WW - Water Well
- MW - Monitoring Well
- RW - Recovery Well
- IW - Injection Well
- No Suffix - Shallow/Middle Monitoring Well Completion (MW069)
- A - Deep Monitoring Well Completion (MW070A)
- M - Middle Monitoring Well Completion (MW008M)
- SA - Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)
- * - Highlander calculated water levels using ground level elevation and TOC elevation to calculate stickups
- (P) - Well was pumping during water collection

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	IW001	IW002	IW002	MW001	MW001	MW001	MW001	MW001	MW001	MW001
Sample Collection Date	8/1/2002	9/19/2002	9/19/2002	8/1/1996	4/23/1997	1/20/1999	1/20/1999	11/17/1999	11/17/1999	5/31/2001
Benzene	<0.002	<0.002	<0.002	0.009	0.384	0.006	0.006	0.008		0.06
Toluene	0.002	<0.002	<0.002	0.069	<0.001	0.019	0.017	0.018		0.02
Ethylbenzene	<0.002	<0.002	<0.002	0.082	0.075	0.029	0.028	0.14		0.54
Xylenes (total)	<0.002	<0.002	<0.002	0.169	0.049	0.029	0.024	0.042		0.09
Petroleum Hydrocarbons (C6 to C12)										<5
Petroleum Hydrocarbons (>C12 to C28)										<5
Petroleum Hydrocarbons (>C28 to C35)										<5
TPH (C6 to C35)										<5
Total Petroleum Hydrocarbons DRO	<0.27	<0.25	<0.25							
Total Petroleum Hydrocarbons GRO	<0.05	<0.05	<0.05							
Total Recoverable Petroleum Hydrocarbons				0.582						
Chromium (Total)	3.31				<0.05					<0.05
Chromium, Dissolved	3.6		3.17			<0.01	<0.05	<0.05		<0.005
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved	3.41	0.32								

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001
Sample Collection Date	5/31/2001	5/31/2001	2/7/2002	9/23/2002	9/23/2002	9/23/2002	9/23/2002	9/23/2002	9/23/2002	1/8/2003	1/8/2003	3/27/2003
Benzene	0.07		0.002	0.002			<0.002			<0.002	<0.002	<0.002
Toluene	<0.02		0.009	0.006			0.004			0.002	0.003	<0.002
Ethylbenzene	0.58		0.059	0.085			0.08			0.017	0.018	0.018
Xylenes (total)	0.1		0.084	0.18			0.17			0.024	0.026	0.024
Petroleum Hydrocarbons (C6 to C12)	<5											
Petroleum Hydrocarbons (>C12 to C28)	<5											
Petroleum Hydrocarbons (>C28 to C35)	<5											
TPH (C6 to C35)	<5											
Total Petroleum Hydrocarbons DRO			<0.26	0.3			0.28			<0.25	<0.25	<0.25
Total Petroleum Hydrocarbons GRO			0.489	1			0.93			0.28	0.22	0.14
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)	<0.05	<0.05										
Chromium, Dissolved			<0.05									
Hexavalent Chromium, Total	<0.005	0.03			<0.05				<0.05			
Hexavalent Chromium, Dissolved			0.025	0.017			0.019			0.053	0.036	0.025

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW001	MW001	MW001	MW001	MW002	MW002	MW002	MW002	MW002	MW002	MW002	MW002
Sample Collection Date	3/27/2003	6/5/2003	6/5/2003	6/5/2003	4/22/1997	1/20/1999	11/17/1999	5/22/2001	5/22/2001	1/24/2002	9/16/2002	
Benzene	<0.002	<0.002	0.003		<0.001			<0.002	<0.002	<0.002	<0.002	
Toluene	<0.002	0.003	0.004		<0.001			<0.002	<0.002	0.002	0.002	
Ethylbenzene	0.016	0.04	0.052		<0.001			<0.002	<0.002	<0.002	<0.002	
Xylenes (total)	0.023	0.054	0.069		<0.001			<0.002	<0.002	<0.002	<0.002	
Petroleum Hydrocarbons (C6 to C12)								<5				
Petroleum Hydrocarbons (>C12 to C28)								<5				
Petroleum Hydrocarbons (>C28 to C35)								<5				
TPH (C6 to C35)								<5				
Total Petroleum Hydrocarbons DRO	<0.25	0.32	<0.24						<0.25	<0.25	<0.25	
Total Petroleum Hydrocarbons GRO	0.15	0.32	0.39						<0.05	<0.05	<0.05	
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)					<0.05			<0.05				
Chromium, Dissolved						<0.01	<0.05			<0.05		
Hexavalent Chromium, Total							0.039					
Hexavalent Chromium, Dissolved	0.008	0.026	0.024						0.015	0.024	0.024	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW002	MW002	MW002	MW002	MW002	MW003	MW003	MW003	MW003	MW003	MW003
Sample Collection Date	9/16/2002	12/18/2002	3/13/2003	5/28/2003	4/22/1997	6/11/1997	5/24/2001	5/24/2001	5/24/2001	1/30/2002	1/30/2002
Benzene		<0.002	<0.002	<0.002	<0.001		<0.002		<0.002		
Toluene		<0.002	<0.002	<0.002	<0.001		<0.002		<0.002		
Ethylbenzene		<0.002	<0.002	<0.002	<0.001		<0.002		<0.002		
Xylenes (total)		<0.002	<0.002	<0.002	<0.001		<0.002		<0.002		
Petroleum Hydrocarbons (C6 to C12)							<5		<5		
Petroleum Hydrocarbons (>C12 to C28)							<5		<5		
Petroleum Hydrocarbons (>C28 to C35)							<5		<5		
TPH (C6 to C35)							<5		<5		
Total Petroleum Hydrocarbons DRO		<0.25	<0.25	<0.23							
Total Petroleum Hydrocarbons GRO		<0.05	<0.05	<0.05							
Total Recoverable Petroleum Hydrocarbons											
Chromium (Total)					0.36		2.9				
Chromium, Dissolved	<0.05					0.22				1.41	1.45
Hexavalent Chromium, Total							3				
Hexavalent Chromium, Dissolved		0.018	0.033	0.032					1.3		1.1

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW003	MW003	MW003	MW003	MW003	MW004	MW004	MW004	MW004	MW004
Sample Collection Date	9/18/2002	9/18/2002	1/6/2003	3/19/2003	6/4/2003	4/23/1997	6/11/1997	1/21/1999	1/21/1999	11/18/1999
Benzene						<0.001		<0.001	<0.001	<0.001
Toluene						<0.001		<0.001	<0.001	<0.001
Ethylbenzene						<0.001		<0.001	<0.001	<0.001
Xylenes (total)						<0.001		<0.001	<0.001	<0.001
Petroleum Hydrocarbons (C6 to C12)										
Petroleum Hydrocarbons (>C12 to C28)										
Petroleum Hydrocarbons (>C28 to C35)										
TPH (C6 to C35)										
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)						0.08				
Chromium, Dissolved		1.85					0.08	0.09	0.09	
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved	1.1		0.47	1.3	0.907					

Bold values indicate concentrations above the primary MCL.

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW005	MW005	MW006	MW006	MW007	MW007	MW007	MW007	MW007	MW007
Sample Collection Date	2/11/2002	2/11/2002	4/22/1997	2/11/2002	8/19/1997	1/21/1999	11/18/1999	5/24/2001	5/24/2001	1/30/2002
Benzene	0.6	0.62	0.34	0.68	<0.001				<0.002	
Toluene	<0.02	<0.04	0.28	0.67	<0.001				<0.002	
Ethylbenzene	0.08	0.09	0.11	0.11	<0.001				<0.002	
Xylenes (total)	0.13	0.14	0.33	0.26	<0.001				<0.002	
Petroleum Hydrocarbons (C6 to C12)									<5	
Petroleum Hydrocarbons (>C12 to C28)									<5	
Petroleum Hydrocarbons (>C28 to C35)									<5	
TPH (C6 to C35)									<5	
Total Petroleum Hydrocarbons DRO	27	15		71						
Total Petroleum Hydrocarbons GRO	1.83	1.79		3.58						
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)			<0.05					0.45	<0.05	
Chromium, Dissolved	<0.05	<0.05		<0.05	0.35	0.31	0.38			0.11
Hexavalent Chromium, Total								0.4	0.02	
Hexavalent Chromium, Dissolved	<0.005	0.14		<0.005						0.086

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW007	MW007	MW007	MW007	MW007	MW008	MW008	MW008	MW008	MW008
Sample Collection Date	9/12/2002	9/12/2002	12/19/2002	3/13/2003	6/3/2003	8/20/1997	10/28/1997	10/28/1997	10/28/1997	1/22/1999
Benzene						<0.001				
Toluene						<0.001				
Ethylbenzene						<0.001				
Xylenes (total)						<0.001				
Petroleum Hydrocarbons (C6 to C12)										
Petroleum Hydrocarbons (>C12 to C28)										
Petroleum Hydrocarbons (>C28 to C35)										
TPH (C6 to C35)										
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)										
Chromium, Dissolved		0.3				5.2	4.6		4.6	4.4
Hexavalent Chromium, Total								6.46		
Hexavalent Chromium, Dissolved	0.21		0.053	0.059	0.005					

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW008	MW008	MW008	MW008	MW008	MW008	MW008	MW008	MW008	MW008	MW008
Sample Collection Date	11/18/1999	5/31/2001	5/31/2001	9/27/2001	2/4/2002	9/18/2002	9/18/2002	9/18/2002	1/6/2003	3/26/2003	MW008
Benzene			<0.002				<0.002				6/5/2003
Toluene			<0.002				<0.002				
Ethylbenzene			<0.002				<0.002				
Xylenes (total)			<0.002				<0.002				
Petroleum Hydrocarbons (C6 to C12)			<5								
Petroleum Hydrocarbons (>C12 to C28)			<5								
Petroleum Hydrocarbons (>C28 to C35)			<5								
TPH (C6 to C35)			<5								
Total Petroleum Hydrocarbons DRO							<0.25				
Total Petroleum Hydrocarbons GRO							<0.05				
Total Recoverable Petroleum Hydrocarbons											
Chromium (Total)		5.66									
Chromium, Dissolved	6.1			1.75	3.54			4.99			
Hexavalent Chromium, Total		9									
Hexavalent Chromium, Dissolved				1.8	2.8	3.1			2.3	2.8	4

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW008M	MW008M	MW009	MW009	MW009	MW009	MW009	MW009	MW009	MW009
Sample Collection Date	2/4/2002	2/4/2002	8/20/1997	1/21/1999	11/18/1999	5/31/2001	5/31/2001	1/29/2002	9/17/2002	9/17/2002
Benzene			0.002				<0.002		<0.002	
Toluene			<0.001				<0.002		<0.002	
Ethylbenzene			<0.001				<0.002		<0.002	
Xylenes (total)			<0.001				<0.002		<0.002	
Petroleum Hydrocarbons (C6 to C12)							<5			
Petroleum Hydrocarbons (>C12 to C28)							<5			
Petroleum Hydrocarbons (>C28 to C35)							<5			
TPH (C6 to C35)							<5			
Total Petroleum Hydrocarbons DRO									<0.25	
Total Petroleum Hydrocarbons GRO									<0.05	
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)								0.08		
Chromium, Dissolved	3.51	5.69	0.26	0.06	0.33					
Hexavalent Chromium, Total								0.095		
Hexavalent Chromium, Dissolved	2.7	4.2						0.1	0.16	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW009	MW009	MW009	MW010	MW010	MW010	MW010	MW010	MW010	MW010
Sample Collection Date	12/19/2002	3/13/2003	6/4/2003	9/16/1997	9/16/1997	1/19/1999	11/18/1999	5/24/2001	5/24/2001	1/29/2002
Benzene	<0.002	<0.002	<0.002	<0.001	<0.001			<0.002	<0.002	
Toluene	<0.002	<0.002	<0.002	<0.001	<0.001			<0.002	<0.002	
Ethylbenzene	<0.002	<0.002	<0.002	<0.001	<0.001			<0.002	<0.002	
Xylenes (total)	<0.002	<0.002	<0.002	<0.001	<0.001			<0.002	<0.002	
Petroleum Hydrocarbons (C6 to C12)								<5	<5	
Petroleum Hydrocarbons (>C12 to C28)								<5	<5	
Petroleum Hydrocarbons (>C28 to C35)								<5	<5	
TPH (C6 to C35)								<5	<5	
Total Petroleum Hydrocarbons DRO	0.63	<0.25	0.3							
Total Petroleum Hydrocarbons GRO	<0.05	<0.05	<0.05							
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)								0.22	<0.05	
Chromium, Dissolved				0.14		0.37	0.32			0.35
Hexavalent Chromium, Total								0.28	0.036	
Hexavalent Chromium, Dissolved	0.097	0.12	0.092							0.17

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW010	MW010	MW010	MW010	MW010	MW010	MW011	MW011	MW011	MW011	MW011	MW011
Sample Collection Date	9/17/2002	9/17/2002	12/30/2002	3/17/2003	6/2/2003	1/20/1999	11/18/1999	5/31/2001	5/31/2001	5/31/2001	5/31/2001	1/31/2002
Benzene								<0.002				
Toluene								<0.002				
Ethylbenzene								<0.002				
Xylenes (total)								<0.002				
Petroleum Hydrocarbons (C6 to C12)								<5				
Petroleum Hydrocarbons (>C12 to C28)								<5				
Petroleum Hydrocarbons (>C28 to C35)								<5				
TPH (C6 to C35)								<5				
Total Petroleum Hydrocarbons DRO												
Total Petroleum Hydrocarbons GRO												
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)										4.4		
Chromium, Dissolved		0.27										4.6
Hexavalent Chromium, Total						4.6	6.2				6.3	
Hexavalent Chromium, Dissolved	0.21		0.17	0.13	0.152							3.7

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW011	MW011	MW011	MW011	MW011	MW011M	MW011M	MW011M	MW011M	MW012	MW012
Sample Collection Date	9/19/2002	9/19/2002	1/7/2003	3/26/2003	6/2/2003	10/1/2001	10/1/2001	10/1/2001	2/4/2002	2/19/1999	11/18/1999
Benzene						<0.002	<0.002	<0.002			
Toluene						<0.002	<0.002	<0.002			
Ethylbenzene						<0.002	<0.002	<0.002			
Xylenes (total)						<0.002	<0.002	<0.002			
Petroleum Hydrocarbons (C6 to C12)											
Petroleum Hydrocarbons (>C12 to C28)											
Petroleum Hydrocarbons (>C28 to C35)											
TPH (C6 to C35)											
Total Petroleum Hydrocarbons DRO						<0.25	<0.25	<0.25			
Total Petroleum Hydrocarbons GRO						<0.05	<0.05	<0.05			
Total Recoverable Petroleum Hydrocarbons											
Chromium (Total)										3	
Chromium, Dissolved		4.76					4.65	1.84	2.43		3
Hexavalent Chromium, Total							2.8	1.7			
Hexavalent Chromium, Dissolved	2.3		2	3.4	3.67				2.2		

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW012	MW012	MW012	MW012	MW012	MW012	MW012	MW012	MW012	MW012	MW012	MW012
Sample Collection Date	5/30/2001	5/30/2001	5/30/2001	1/31/2002	1/31/2002	1/31/2002	9/18/2002	9/18/2002	9/18/2002	1/6/2003	3/26/2003	6/3/2003
Benzene	<0.002	<0.002	<0.002									
Toluene	<0.002	<0.002	<0.002									
Ethylbenzene	<0.002	<0.002	<0.002									
Xylenes (total)	<0.002	<0.002	<0.002									
Petroleum Hydrocarbons (C6 to C12)	<5	<5	<5									
Petroleum Hydrocarbons (>C12 to C28)	<5	<5	<5									
Petroleum Hydrocarbons (>C28 to C35)	<5	<5	<5									
TPH (C6 to C35)	<5	<5	<5									
Total Petroleum Hydrocarbons DRO												
Total Petroleum Hydrocarbons GRO												
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)	3.3		3.35									
Chromium, Dissolved				1.24	3.15		3.82					
Hexavalent Chromium, Total	2.4		2.5	2.2	2.5	2.2				1.3	2.5	2.32
Hexavalent Chromium, Dissolved												

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW012M	MW013	MW013	MW013	MW013	MW013	MW013	MW013	MW013	MW013	MW013
Sample Collection Date	2/4/2002	12/4/1997	1/19/1999	11/18/1999	5/23/2001	5/23/2001	5/23/2001	1/29/2002	9/17/2002	9/17/2002	12/19/2002
Benzene					<0.002						
Toluene					<0.002						
Ethylbenzene					<0.002						
Xylenes (total)					<0.002						
Petroleum Hydrocarbons (C6 to C12)					<5						
Petroleum Hydrocarbons (>C12 to C28)					<5						
Petroleum Hydrocarbons (>C28 to C35)					<5						
TPH (C6 to C35)					<5						
Total Petroleum Hydrocarbons DRO											
Total Petroleum Hydrocarbons GRO											
Total Recoverable Petroleum Hydrocarbons											
Chromium (Total)					0.26	0.31					
Chromium, Dissolved	1.01	0.16	0.16	0.09	0.2	0.3		0.28	0.33	0.41	
Hexavalent Chromium, Total											
Hexavalent Chromium, Dissolved	0.71							0.16	0.33		0.35

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW013	MW013	MW014	MW014	MW014	MW014	MW014	MW014	MW014	MW014
Sample Collection Date	3/18/2003	6/3/2003	5/19/1999	11/18/1999	5/24/2001	5/24/2001	1/30/2002	1/30/2002	1/30/2002	9/17/2002
Benzene						<0.002				
Toluene						<0.002				
Ethylbenzene						<0.002				
Xylenes (total)						<0.002				
Petroleum Hydrocarbons (C6 to C12)						<5				
Petroleum Hydrocarbons (>C12 to C28)						<5				
Petroleum Hydrocarbons (>C28 to C35)						<5				
TPH (C6 to C35)						<5				
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)						0.78				
Chromium, Dissolved			1	0.92			0.47	0.46		0.63
Hexavalent Chromium, Total						0.71				
Hexavalent Chromium, Dissolved	0.42	1					0.33	0.3	0.52	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW014	MW014	MW014	MW015	MW015	MW015	MW015	MW015	MW015	MW015
Sample Collection Date	1/2/2003	3/18/2003	6/3/2003	1/19/1999	5/19/1999	11/17/1999	5/17/2001	5/17/2001	1/22/2002	9/4/2002
Benzene								<0.002		
Toluene								<0.002		
Ethylbenzene								<0.002		
Xylenes (total)								<0.002		
Petroleum Hydrocarbons (C6 to C12)								<5		
Petroleum Hydrocarbons (>C12 to C28)								<5		
Petroleum Hydrocarbons (>C28 to C35)								<5		
TPH (C6 to C35)								<5		
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)								<0.05	<0.05	
Chromium, Dissolved				0.07	<0.05	<0.5				
Hexavalent Chromium, Total									0.005	
Hexavalent Chromium, Dissolved	0.2	0.38	0.446							0.008

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW015	MW015	MW015	MW015	MW018	MW018	MW018	MW018	MW018	MW018	MW018
Sample Collection Date	9/4/2002	12/11/2002	3/11/2003	5/29/2003	5/19/1999	11/17/1999	5/17/2001	5/17/2001	5/17/2001	1/23/2002	9/4/2002
Benzene							<0.002				
Toluene							<0.002				
Ethylbenzene							<0.002				
Xylenes (total)							<0.002				
Petroleum Hydrocarbons (C6 to C12)							<5				
Petroleum Hydrocarbons (>C12 to C28)							<5				
Petroleum Hydrocarbons (>C28 to C35)							<5				
TPH (C6 to C35)							<5				
Total Petroleum Hydrocarbons DRO											
Total Petroleum Hydrocarbons GRO											
Total Recoverable Petroleum Hydrocarbons											
Chromium (Total)							<0.05	<0.05	<0.05	<0.05	
Chromium, Dissolved	<0.05				<0.01	<0.05				<0.05	
Hexavalent Chromium, Total							<0.005	<0.005	<0.005	<0.005	
Hexavalent Chromium, Dissolved		0.014	0.012	0.016							<0.005

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW018	MW018	MW018	MW018	MW018	MW020	MW020	MW020	MW020	MW020	MW020	MW020
Sample Collection Date	9/4/2002	12/12/2002	3/4/2003	5/27/2003	1/19/1999	11/17/1999	6/7/2001	6/7/2001	6/7/2001	2/6/2002	9/9/2002	
Benzene									<0.002			
Toluene									<0.002			
Ethylbenzene									<0.002			
Xylenes (total)									<0.002			
Petroleum Hydrocarbons (C6 to C12)									<5			
Petroleum Hydrocarbons (>C12 to C28)									<5			
Petroleum Hydrocarbons (>C28 to C35)									<5			
TPH (C6 to C35)									<5			
Total Petroleum Hydrocarbons DRO												
Total Petroleum Hydrocarbons GRO												
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)								<0.05				
Chromium, Dissolved	<0.05				<0.05	<0.05				<0.05		
Hexavalent Chromium, Total							<0.005			0.026		
Hexavalent Chromium, Dissolved		<0.005	<0.005	<0.005							<0.005	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW020	MW020	MW020	MW020	MW020	MW021	MW021	MW021	MW021	MW021
Sample Collection Date	9/9/2002	12/9/2002	12/9/2002	3/6/2003	6/5/2003	1/18/1999	11/17/1999	11/17/1999	11/17/1999	5/18/2001
Benzene						<0.001	<0.001			<0.002
Toluene						<0.001	<0.001			<0.002
Ethylbenzene						<0.001	<0.001			<0.002
Xylenes (total)						<0.001	<0.001			<0.002
Petroleum Hydrocarbons (C6 to C12)										<5
Petroleum Hydrocarbons (>C12 to C28)										<5
Petroleum Hydrocarbons (>C28 to C35)										<5
TPH (C6 to C35)										<5
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)										
Chromium, Dissolved	<0.05		<0.05			<0.05		<0.05	<0.05	
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved		<0.005		<0.005	<0.005				<0.005	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW021	MW021	MW021	MW021	MW021	MW021	MW021	MW021	MW021	MW021	MW021	MW023	MW023	MW023
Sample Collection Date	1/23/2002	9/5/2002	9/5/2002	12/11/2002	12/11/2002	12/11/2002	3/5/2003	5/21/2003	6/23/1999	11/18/1999	5/29/2001			
Benzene	<0.002			<0.002			<0.002	<0.002			<0.002			
Toluene	<0.002			<0.002			<0.002	<0.002			<0.002			
Ethylbenzene	<0.002			<0.002			<0.002	<0.002			<0.002			
Xylenes (total)	<0.002			<0.002			<0.002	<0.002			<0.002			
Petroleum Hydrocarbons (C6 to C12)														<5
Petroleum Hydrocarbons (>C12 to C28)														<5
Petroleum Hydrocarbons (>C28 to C35)														<5
TPH (C6 to C35)														<5
Total Petroleum Hydrocarbons DRO	<0.25			<0.5			<0.25	<0.24						
Total Petroleum Hydrocarbons GRO	<0.05			<0.05			<0.05	<0.05						
Total Recoverable Petroleum Hydrocarbons														
Chromium (Total)														2.55
Chromium, Dissolved	<0.05		<0.05			<0.05			2	2.56				
Hexavalent Chromium, Total														0.015
Hexavalent Chromium, Dissolved	<0.005	<0.005		<0.005			<0.005	<0.005						

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023
Sample Collection Date	5/29/2001	8/30/2001	5/29/2001	9/27/2001	2/7/2002	9/17/2002	9/18/2002	12/16/2002	12/16/2002	12/16/2002	MW023	MW023
Benzene	<0.002											
Toluene	<0.002											
Ethylbenzene	<0.002											
Xylenes (total)	<0.002											
Petroleum Hydrocarbons (C6 to C12)	<5											
Petroleum Hydrocarbons (>C12 to C28)	<5											
Petroleum Hydrocarbons (>C28 to C35)	<5											
TPH (C6 to C35)	<5											
Total Petroleum Hydrocarbons DRO												
Total Petroleum Hydrocarbons GRO												
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)	2.73	2.76										
Chromium, Dissolved												
Hexavalent Chromium, Total	<0.005	<0.005	2.52	2.96	2.41	0.21	1.3	2	1.9	1.4		
Hexavalent Chromium, Dissolved			1.9	1.9								

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW023	MW023	MW023	MW024	MW024	MW024	MW024	MW024	MW025	MW025	MW025
Sample Collection Date	3/26/2003	5/28/2003	5/28/2003	1/9/2003	3/12/2003	3/12/2003	3/12/2003	5/28/2003	5/19/1999	11/18/1999	5/29/2001
Benzene				<0.002			<0.002	<0.002			
Toluene				<0.002			<0.002	<0.002			
Ethylbenzene				<0.002			<0.002	<0.002			
Xylenes (total)				<0.002			<0.002	<0.002			
Petroleum Hydrocarbons (C6 to C12)											
Petroleum Hydrocarbons (>C12 to C28)											
Petroleum Hydrocarbons (>C28 to C35)											
TPH (C6 to C35)											
Total Petroleum Hydrocarbons DRO				<0.25			<0.25	<0.24			
Total Petroleum Hydrocarbons GRO				<0.05			<0.05	<0.05			
Total Recoverable Petroleum Hydrocarbons											
Chromium (Total)											4.18
Chromium, Dissolved				<0.05					4.5	4.4	
Hexavalent Chromium, Total											<0.005
Hexavalent Chromium, Dissolved	1.4	1.99	2	0.015	0.033			0.017			

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW025	MW025	MW025	MW025	MW025	MW025	MW025	MW025	MW025	MW025
Sample Collection Date	5/29/2001	9/27/2001	1/31/2002	9/17/2002	9/17/2002	9/17/2002	9/17/2002	1/2/2003	3/11/2003	5/29/2003
Benzene	<0.002									
Toluene	<0.002									
Ethylbenzene	<0.002									
Xylenes (total)	<0.002									
Petroleum Hydrocarbons (C6 to C12)	<5									
Petroleum Hydrocarbons (>C12 to C28)	<5									
Petroleum Hydrocarbons (>C28 to C35)	<5									
TPH (C6 to C35)	<5									
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)										
Chromium, Dissolved		0.33	0.53	0.43		0.4				
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved		0.41	0.42		0.26			0.006	0.024	0.011

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW027	MW027	MW027	MW027	MW027	MW027	MW027	MW027	MW027	MW027	MW028	MW028	MW028
Sample Collection Date	5/18/2001	1/24/2002	9/4/2002	9/4/2002	9/4/2002	12/17/2002	3/11/2003	5/22/2003	11/18/1999	5/22/2001	5/22/2001	5/22/2001	5/22/2001
Benzene	<0.002												<0.002
Toluene	<0.002												<0.002
Ethylbenzene	<0.002												<0.002
Xylenes (total)	<0.002												<0.002
Petroleum Hydrocarbons (C6 to C12)	<5												<5
Petroleum Hydrocarbons (>C12 to C28)	<5												<5
Petroleum Hydrocarbons (>C28 to C35)	<5												<5
TPH (C6 to C35)	<5												<5
Total Petroleum Hydrocarbons DRO													
Total Petroleum Hydrocarbons GRO													
Total Recoverable Petroleum Hydrocarbons													
Chromium (Total)	<0.05											<0.05	
Chromium, Dissolved		<0.05			<0.05						<0.05		
Hexavalent Chromium, Total	0.026											<0.005	
Hexavalent Chromium, Dissolved		0.02	0.01			0.008	<0.005	<0.005					

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW028	MW028	MW028	MW028	MW028	MW028	MW028	MW029	MW029	MW029	MW029	MW029
Sample Collection Date	1/24/2002	9/4/2002	9/4/2002	12/18/2002	3/10/2003	5/22/2003	11/18/1999	5/18/2001	5/18/2001	5/18/2001	2/6/2002	9/9/2002
Benzene										<0.002		
Toluene										<0.002		
Ethylbenzene										<0.002		
Xylenes (total)										<0.002		
Petroleum Hydrocarbons (C6 to C12)										<5		
Petroleum Hydrocarbons (>C12 to C28)										<5		
Petroleum Hydrocarbons (>C28 to C35)										<5		
TPH (C6 to C35)										<5		
Total Petroleum Hydrocarbons DRO												
Total Petroleum Hydrocarbons GRO												
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)											<0.05	
Chromium, Dissolved	<0.05		<0.05				<0.05					<0.05
Hexavalent Chromium, Total	<0.005							<0.005				
Hexavalent Chromium, Dissolved		<0.005		<0.005	<0.005	<0.005					<0.005	<0.005

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW/029	MW/029	MW/029	MW/029	MW/030	MW/030	MW/030	MW/030	MW/030	MW/030
Sample Collection Date	9/9/2002	12/18/2002	3/10/2003	5/27/2003	4/24/2002	9/9/2002	9/9/2002	12/18/2002	3/10/2003	5/27/2003
Benzene										
Toluene										
Ethylbenzene										
Xylenes (total)										
Petroleum Hydrocarbons (C6 to C12)										
Petroleum Hydrocarbons (>C12 to C28)										
Petroleum Hydrocarbons (>C28 to C35)										
TPH (C6 to C35)										
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)										
Chromium, Dissolved	<0.05				<0.05			<0.05		
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved		<0.005	<0.005	<0.005	0.015	<0.005	<0.005	<0.005	<0.005	<0.005

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW031	MW031	MW031	MW031	MW031	MW031	MW031	MW031	MW032	MW032	MW032	MW032	MW032
Sample Collection Date	4/25/2002	9/10/2002	9/10/2002	9/10/2002	12/18/2002	3/10/2003	5/28/2003	4/2/2002	9/4/2002	9/4/2002	9/4/2002	12/18/2002	12/18/2002
Benzene													
Toluene													
Ethylbenzene													
Xylenes (total)													
Petroleum Hydrocarbons (C6 to C12)													
Petroleum Hydrocarbons (>C12 to C28)													
Petroleum Hydrocarbons (>C28 to C35)													
TPH (C6 to C35)													
Total Petroleum Hydrocarbons DRO													
Total Petroleum Hydrocarbons GRO													
Total Recoverable Petroleum Hydrocarbons													
Chromium (Total)													
Chromium, Dissolved	<0.05			<0.05				<0.05			<0.05		
Hexavalent Chromium, Total								<0.005					
Hexavalent Chromium, Dissolved	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005			<0.005		<0.005

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW032	MW033	MW033	MW033	MW033	MW033	MW033	MW033	MW033	MW033	MW034	MW034
Sample Collection Date	3/10/2003	5/22/2003	4/3/2002	4/3/2002	9/23/2002	9/23/2002	9/23/2002	1/8/2003	3/27/2003	6/5/2003	4/3/2002	5/20/2002
Benzene			0.3	0.35	0.7			0.8	0.57	0.48		
Toluene			2.9	3.2	8			5.4	0.52	0.07		
Ethylbenzene			0.4	0.4	1			0.9	0.64	0.48		
Xylenes (total)			0.7	0.8	1.5			1.1	0.31	0.03		
Petroleum Hydrocarbons (C6 to C12)												
Petroleum Hydrocarbons (>C12 to C28)												
Petroleum Hydrocarbons (>C28 to C35)												
TPH (C6 to C35)												
Total Petroleum Hydrocarbons DRO			0.68	0.58	0.64			0.57	0.54	0.61		
Total Petroleum Hydrocarbons GRO			12.4	11	28			18	4.2	2.3		
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)												
Chromium, Dissolved			<0.05	<0.05			<0.05				0.26	0.33
Hexavalent Chromium, Total												0.31
Hexavalent Chromium, Dissolved	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.28	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW034	MW034	MW034	MW034	MW034	MW034	MW034	MW034	MW035	MW035	MW035	MW035
Sample Collection Date	9/17/2002	9/17/2002	12/5/2002	12/5/2002	12/5/2002	3/18/2003	6/2/2003	8/30/2003	1/29/2002	9/11/2002	9/12/2002	9/12/2002
Benzene			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Toluene			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Ethylbenzene			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Xylenes (total)			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Petroleum Hydrocarbons (C6 to C12)												
Petroleum Hydrocarbons (>C12 to C28)												
Petroleum Hydrocarbons (>C28 to C35)												
TPH (C6 to C35)												
Total Petroleum Hydrocarbons DRO			<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.26	0.25		
Total Petroleum Hydrocarbons GRO			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)												
Chromium, Dissolved		0.33			0.28			<0.05	<0.05		<0.05	
Hexavalent Chromium, Total								0.024				
Hexavalent Chromium, Dissolved	0.22		0.23			0.26	0.231		0.008	<0.005		

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW035	MW035	MW035	MW036	MW036	MW036	MW036	MW036	MW036	MW036	MW037
Sample Collection Date	12/19/2002	3/5/2003	5/27/2003	8/29/2001	2/7/2002	9/19/2002	9/19/2002	1/7/2003	3/26/2003	6/5/2003	8/29/2001
Benzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.002	<0.002	2
Toluene	<0.002	<0.002	<0.002	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1
Ethylbenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	0.4
Xylenes (total)	<0.002	<0.002	<0.002	0.047	0.047	0.019	0.019	0.11	0.051	0.019	0.7
Petroleum Hydrocarbons (C6 to C12)											
Petroleum Hydrocarbons (>C12 to C28)											
Petroleum Hydrocarbons (>C28 to C35)											
TPH (C6 to C35)											
Total Petroleum Hydrocarbons DRO	<0.25	<0.25	<0.25		1.2	1.1		1.6	0.89	0.69	0.56
Total Petroleum Hydrocarbons GRO	<0.05	<0.05	<0.05		0.723	0.71		0.9	0.8	0.7	3.69
Total Recoverable Petroleum Hydrocarbons											
Chromium (Total)											
Chromium, Dissolved				<0.05	<0.05		<0.05				<0.05
Hexavalent Chromium, Total				<0.005							<0.005
Hexavalent Chromium, Dissolved	<0.005	0.009	<0.005		<0.005	<0.01		<0.005	<0.005	<0.005	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW037	MW037	MW037	MW037	MW037	MW037	MW037	MW037	MW037	MW037	MW037	MW037	MW037
Sample Collection Date	2/7/2002	2/7/2002	9/19/2002	9/19/2002	9/19/2002	9/19/2002	9/19/2002	9/19/2002	9/19/2002	1/8/2003	3/27/2003	3/27/2003	6/5/2003
Benzene	1.5	1.7	3.6		3.4		3.7	3.7	3.7	2.9	2.8	2.3	
Toluene	<0.04	<0.04	<0.1		<0.08		<0.1	<0.1	<0.1	<0.08	<0.08	<0.08	
Ethylbenzene	0.31	0.36	0.3		0.32		0.4	0.4	0.4	0.43	0.42	0.38	
Xylenes (total)	0.15	0.19	0.1		0.1		0.4	0.4	0.4	0.52	0.49	0.28	
Petroleum Hydrocarbons (C6 to C12)													
Petroleum Hydrocarbons (>C12 to C28)													
Petroleum Hydrocarbons (>C28 to C35)													
TPH (C6 to C35)													
Total Petroleum Hydrocarbons DRO	0.69	0.71	1.3		1.3		1.7	1.8	1.4	1.1	1.1	1.2	
Total Petroleum Hydrocarbons GRO	3.82	2	2		2.5		11	11	2.9	2.6	2.6	4.4	
Total Recoverable Petroleum Hydrocarbons													
Chromium (Total)													
Chromium, Dissolved	<0.05	<0.05		<0.05			<0.05						
Hexavalent Chromium, Total													
Hexavalent Chromium, Dissolved	<0.005	<0.005	<0.01		<0.01		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW037	MW038	MW038	MW038	MW038	MW038	MW038	MW038	MW038	MW038	MW043	MW043
Sample Collection Date	6/5/2003	8/29/2001	2/7/2002	9/19/2002	9/19/2002	9/19/2002	1/7/2003	3/19/2003	6/5/2003	4/25/2002	9/11/2002	9/12/2002
Benzene	2.1	<0.002	0.003	0.088			0.024	0.017	0.011	<0.002	<0.002	
Toluene	<0.08	<0.002	<0.002	<0.004			<0.002	<0.002	<0.002	<0.002	<0.002	
Ethylbenzene	0.35	<0.002	<0.002	<0.004			<0.002	<0.002	<0.002	<0.002	<0.002	
Xylenes (total)	0.27	<0.002	<0.002	<0.004			<0.002	<0.002	<0.002	<0.002	<0.002	
Petroleum Hydrocarbons (C6 to C12)												
Petroleum Hydrocarbons (>C12 to C28)												
Petroleum Hydrocarbons (>C28 to C35)												
TPH (C6 to C35)												
Total Petroleum Hydrocarbons DRO	1.3	0.34	0.43	0.62			0.71	0.62	0.6	<0.26	0.25	
Total Petroleum Hydrocarbons GRO	4.4	<0.05	<0.05	0.11			0.16	0.07	0.14	<0.05	<0.05	
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)												
Chromium, Dissolved		<0.05	<0.05		<0.05					<0.05		<0.05
Hexavalent Chromium, Total		0.019										
Hexavalent Chromium, Dissolved	<0.005		<0.005	<0.005			<0.005	<0.005	<0.005	0.013	<0.005	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW043	MW043	MW043	MW044	MW044	MW044	MW044	MW044	MW044	MW044	MW045	MW045
Sample Collection Date	12/19/2002	3/19/2003	5/27/2003	4/3/2002	9/18/2002	9/18/2002	9/18/2002	1/2/2003	3/17/2003	6/4/2003	4/4/2002	9/12/2002
Benzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
Ethylbenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Xylenes (total)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Petroleum Hydrocarbons (C6 to C12)												
Petroleum Hydrocarbons (>C12 to C28)												
Petroleum Hydrocarbons (>C28 to C35)												
TPH (C6 to C35)												
Total Petroleum Hydrocarbons DRO	0.44	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	0.42	<0.25	<0.25	<0.25	<0.24
Total Petroleum Hydrocarbons GRO	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)												
Chromium, Dissolved				0.83				1.09			<0.05	
Hexavalent Chromium, Total												
Hexavalent Chromium, Dissolved	0.6	<0.005	<0.005	0.74	0.81			0.16	1.1	0.474	<0.005	<0.005

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW045	MW045	MW045	MW045	MW045	MW046	MW046	MW046	MW046	MW046	MW046	MW046
Sample Collection Date	9/12/2002	12/19/2002	12/19/2002	3/5/2003	5/27/2003	4/4/2002	9/19/2002	9/19/2002	9/19/2002	9/19/2002	9/19/2002	1/7/2003
Benzene		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003
Toluene		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.016
Ethylbenzene		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.017
Xylenes (total)		<0.002	<0.002	<0.002	<0.002	0.02	0.008	0.006	0.006	0.006	0.018	0.016
Petroleum Hydrocarbons (C6 to C12)												
Petroleum Hydrocarbons (>C12 to C28)												
Petroleum Hydrocarbons (>C28 to C35)												
TPH (C6 to C35)												
Total Petroleum Hydrocarbons DRO		<0.25	<0.25	<0.25	<0.26	0.77	0.92	1	1	0.66	1.9	
Total Petroleum Hydrocarbons GRO		<0.05	<0.05	<0.05	<0.05	0.194	0.34	0.35	0.35	<0.5	0.43	
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)												
Chromium, Dissolved	<0.05					0.06			0.07	0.07		
Hexavalent Chromium, Total												
Hexavalent Chromium, Dissolved		<0.005	<0.005	<0.005	<0.005	<0.005	0.052	0.069		<0.005	<0.005	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW046	MW046	MW046	MW046	MW047	MW047	MW047	MW047	MW047	MW048
Sample Collection Date	3/20/2003	3/20/2003	6/4/2003	6/4/2003	9/17/2002	9/17/2002	9/17/2002	1/2/2003	3/17/2003	6/2/2003
Benzene	0.005	0.005	0.006	0.006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Xylenes (total)	0.025	0.027	0.012	0.012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Petroleum Hydrocarbons (C6 to C12)										
Petroleum Hydrocarbons (>C12 to C28)										
Petroleum Hydrocarbons (>C28 to C35)										
TPH (C6 to C35)										
Total Petroleum Hydrocarbons DRO	1.5	1.2	2.4	1.3	<0.25	<0.25	<0.25	<0.25	<0.24	<0.25
Total Petroleum Hydrocarbons GRO	0.4	0.45	0.4	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Recoverable Petroleum Hydrocarbons										
Chromium (Total)										
Chromium, Dissolved										
Hexavalent Chromium, Total				0.42			0.5			0.28
Hexavalent Chromium, Dissolved	<0.005	<0.005	<0.005	<0.005	0.27	0.33	0.19	0.23	0.211	0.19

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW058	MW058	MW059	MW059	MW059	MW060	MW060	MW060	MW060	MW061	MW061	MW061
Sample Collection Date	3/19/2003	6/3/2003	1/29/2003	3/20/2003	5/29/2003	1/8/2003	3/24/2003	5/27/2003	1/8/2003	3/24/2003	3/24/2003	3/24/2003
Benzene	<0.002		<0.002	<0.002		<0.002			<0.002			
Toluene	<0.002		0.002	<0.002		<0.002			<0.002			
Ethylbenzene	<0.002		<0.002	<0.002		<0.002			<0.002			
Xylenes (total)	<0.002		<0.002	<0.002		<0.002			<0.002			
Petroleum Hydrocarbons (C6 to C12)												
Petroleum Hydrocarbons (>C12 to C28)												
Petroleum Hydrocarbons (>C28 to C35)												
TPH (C6 to C35)												
Total Petroleum Hydrocarbons DRO	<0.25		<0.25	<0.25		<0.25			<0.25			
Total Petroleum Hydrocarbons GRO	<0.05		<0.05	<0.05		<0.05			<0.05			
Total Recoverable Petroleum Hydrocarbons												
Chromium (Total)												
Chromium, Dissolved			0.07			0.25			4.02			
Hexavalent Chromium, Total												
Hexavalent Chromium, Dissolved	0.47	0.698	0.055	0.088	0.128	0.2	<0.005	<0.005	2.6	0.34	0.53	

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW061	MW061	MW068	MW068	MW068	MW069	MW069	MW069	MW070	MW070	MW070
Sample Collection Date	6/4/2003	6/4/2003	3/5/2003	3/26/2003	5/29/2003	3/5/2003	3/25/2003	5/29/2003	3/6/2003	3/25/2003	5/29/2003
Benzene			<0.002			<0.002			<0.002		
Toluene			<0.002			<0.002			<0.002		
Ethylbenzene			<0.002			<0.002			<0.002		
Xylenes (total)			<0.002			<0.002			<0.002		
Petroleum Hydrocarbons (C6 to C12)											
Petroleum Hydrocarbons (>C12 to C28)											
Petroleum Hydrocarbons (>C28 to C35)											
TPH (C6 to C35)											
Total Petroleum Hydrocarbons DRO			<0.25			<0.25			<0.25		
Total Petroleum Hydrocarbons GRO			<0.05			<0.05			<0.05		
Total Recoverable Petroleum Hydrocarbons											
Chromium (Total)											
Chromium, Dissolved			<0.05			<0.05			<0.05		
Hexavalent Chromium, Total											
Hexavalent Chromium, Dissolved	0.759	0.725	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Bold values indicate concentrations above the primary MCL.

Table 3
Shallow Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	RW002	RW002	RW003
Sample Collection Date	10/1/2001	2/4/2002	2/4/2002
Benzene	<0.002		
Toluene	<0.002		
Ethylbenzene	<0.002		
Xylenes (total)	<0.002		
Petroleum Hydrocarbons (C6 to C12)			
Petroleum Hydrocarbons (>C12 to C28)			
Petroleum Hydrocarbons (>C28 to C35)			
TPH (C6 to C35)			
Total Petroleum Hydrocarbons DRO	<0.25		
Total Petroleum Hydrocarbons GRO	121		
Total Recoverable Petroleum Hydrocarbons			
Chromium (Total)			
Chromium, Dissolved	3.08	4.2	4.44
Hexavalent Chromium, Total	2.6		
Hexavalent Chromium, Dissolved		3.2	0.064

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW002A	MW002A	MW002A	MW002A	MW002A	MW004A	MW004A	MW004A	MW004A
Sample Collection Date	12/9/2002	12/9/2002	12/9/2002	3/12/2003	5/28/2003	10/23/1997	1/21/1999	5/23/2001	1/28/2002
Benzene	<0.002			<0.002		<0.001	<0.001	<0.002	<0.002
Toluene	<0.002			<0.002		<0.001	<0.001	<0.002	<0.002
Ethylbenzene	<0.002			<0.002		<0.001	<0.001	<0.002	<0.002
Xylenes (total)	<0.002			<0.002		<0.001	<0.001	<0.002	<0.002
Petroleum Hydrocarbons (C6 to C12)								<5	
Petroleum Hydrocarbons (>C12 to C28)								<5	
Petroleum Hydrocarbons (>C28 to C35)								<5	
TPH (C6 to C35)								<5	
Total Petroleum Hydrocarbons DRO	<0.5			<0.25					<0.27
Total Petroleum Hydrocarbons GRO	<0.05			<0.05					<0.05
Chromium (Total)								0.13	
Chromium, Dissolved		<0.05				0.05	0.05		0.15
Hexavalent Chromium, Total								0.14	
Hexavalent Chromium, Dissolved	0.029			0.036	0.031				0.086

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW004A	MW004A	MW004A	MW004A	MW004A	MW007A	MW007A	MW007A
Sample Collection Date	9/17/2002	9/17/2002	12/30/2002	3/13/2003	6/4/2003	10/22/1997	1/21/1999	5/23/2001
Benzene						<0.001		<0.002
Toluene						<0.001		<0.002
Ethylbenzene						<0.001		<0.002
Xylenes (total)						<0.001		<0.002
Petroleum Hydrocarbons (C6 to C12)								<5
Petroleum Hydrocarbons (>C12 to C28)								<5
Petroleum Hydrocarbons (>C28 to C35)								<5
TPH (C6 to C35)								<5
Total Petroleum Hydrocarbons DRO								
Total Petroleum Hydrocarbons GRO								
Chromium (Total)		0.17						0.09
Chromium, Dissolved						0.06	0.06	
Hexavalent Chromium, Total								0.098
Hexavalent Chromium, Dissolved	0.12		0.14	0.14	0.166			

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW007A	MW007A	MW007A	MW007A	MW007A	MW007A	MW007A	MW007A	MW007A	MW008A
Sample Collection Date	5/23/2001	1/29/2002	9/17/2002	9/17/2002	9/17/2002	12/30/2002	3/17/2003	6/3/2003	10/28/1997	
Benzene	<0.002								<1	
Toluene	<0.002								<1	
Ethylbenzene	<0.002								<0.001	
Xylenes (total)	<0.002								<0.001	
Petroleum Hydrocarbons (C6 to C12)	<5									
Petroleum Hydrocarbons (>C12 to C28)	<5									
Petroleum Hydrocarbons (>C28 to C35)	<5									
TPH (C6 to C35)	<5									
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Chromium (Total)	<0.05									
Chromium, Dissolved		0.19			0.27					
Hexavalent Chromium, Total	0.103									
Hexavalent Chromium, Dissolved		0.09	0.2			0.17	0.19	0.283		

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A
Sample Collection Date	10/28/1997	1/22/1999	5/29/2001	8/29/2001	8/29/2001	8/29/2001	8/29/2001	8/29/2001	8/29/2001
Benzene	<0.001		<0.002						
Toluene	<0.001		<0.002						
Ethylbenzene			<0.002						
Xylenes (total)			<0.002						
Petroleum Hydrocarbons (C6 to C12)			<5						
Petroleum Hydrocarbons (>C12 to C28)			<5						
Petroleum Hydrocarbons (>C28 to C35)			<5						
TPH (C6 to C35)			<5						
Total Petroleum Hydrocarbons DRO									
Total Petroleum Hydrocarbons GRO									
Chromium (Total)			5.63	5.01					
Chromium, Dissolved	2.3	2.9						5.23	5.32
Hexavalent Chromium, Total	3.31		<0.005		4				
Hexavalent Chromium, Dissolved						4.6			

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A
Sample Collection Date	8/29/2001	8/29/2001	8/29/2001	8/29/2001	2/4/2002	9/18/2002	9/18/2002
Benzene							
Toluene							
Ethylbenzene							
Xylenes (total)							
Petroleum Hydrocarbons (C6 to C12)							
Petroleum Hydrocarbons (>C12 to C28)							
Petroleum Hydrocarbons (>C28 to C35)							
TPH (C6 to C35)							
Total Petroleum Hydrocarbons DRO							
Total Petroleum Hydrocarbons GRO				4.89			
Chromium (Total)							
Chromium, Dissolved				6.57		6.29	6.1
Hexavalent Chromium, Total			4.2				
Hexavalent Chromium, Dissolved	4			4.8	3.7	4	

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW009A	MW009A
Sample Collection Date	1/6/2003	1/6/2003	3/26/2003	3/26/2003	3/26/2003	6/5/2003	6/5/2003	10/23/1997	1/21/1999
Benzene								<0.001	
Toluene								<0.001	
Ethylbenzene								<0.001	
Xylenes (total)								<0.001	
Petroleum Hydrocarbons (C6 to C12)									
Petroleum Hydrocarbons (>C12 to C28)									
Petroleum Hydrocarbons (>C28 to C35)									
TPH (C6 to C35)									
Total Petroleum Hydrocarbons DRO									
Total Petroleum Hydrocarbons GRO									
Chromium (Total)									
Chromium, Dissolved								1.5	1
Hexavalent Chromium, Total									
Hexavalent Chromium, Dissolved	3.7	4	3.2	3.7	4.63	4.23			

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A
Sample Collection Date	5/24/2001	9/27/2001	1/28/2002	9/18/2002	9/18/2002	9/18/2002	9/18/2002	9/18/2002	1/6/2003
Benzene	<0.002								
Toluene	<0.002								
Ethylbenzene	<0.002								
Xylenes (total)	<0.002								
Petroleum Hydrocarbons (C6 to C12)	<5								
Petroleum Hydrocarbons (>C12 to C28)	<5								
Petroleum Hydrocarbons (>C28 to C35)	<5								
TPH (C6 to C35)	<5								
Total Petroleum Hydrocarbons DRO									
Total Petroleum Hydrocarbons GRO									
Chromium (Total)	<0.05								
Chromium, Dissolved		1.4	1.36	1.31				1.31	
Hexavalent Chromium, Total	1.4								
Hexavalent Chromium, Dissolved		1.3	1.2	0.9			0.7		0.76

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW009A	MW009A	MW009A	MW009A	MW009A	MW011A	MW011A	MW011A
Sample Collection Date	1/6/2003	3/20/2003	3/20/2003	6/4/2003	6/4/2003	10/23/1997	1/20/1999	5/22/2001
Benzene						<0.001		
Toluene						<0.001		
Ethylbenzene						<0.001		
Xylenes (total)						<0.001		
Petroleum Hydrocarbons (C6 to C12)								
Petroleum Hydrocarbons (>C12 to C28)								
Petroleum Hydrocarbons (>C28 to C35)								
TPH (C6 to C35)								
Total Petroleum Hydrocarbons DRO								
Total Petroleum Hydrocarbons GRO								
Chromium (Total)								<0.05
Chromium, Dissolved						<0.05	<0.01	0.029
Hexavalent Chromium, Total								
Hexavalent Chromium, Dissolved	0.85	0.65	0.8	1.1	1.15			

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW011A	MW012A
Sample Collection Date	5/22/2001	1/28/2002	9/12/2002	9/12/2002	12/26/2002	3/18/2003	6/2/2003	11/4/1997		
Benzene	<0.002							<0.001		
Toluene	<0.002							<0.001		
Ethylbenzene	<0.002							<0.001		
Xylenes (total)	<0.002							<0.001		
Petroleum Hydrocarbons (C6 to C12)	<5									
Petroleum Hydrocarbons (>C12 to C28)	<5									
Petroleum Hydrocarbons (>C28 to C35)	<5									
TPH (C6 to C35)	<5									
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Chromium (Total)										
Chromium, Dissolved		0.11		0.38				<0.05		
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved		0.104	0.3		0.32	0.22	0.398			

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW012A	MW012A	MW012A	MW012A	MW012A	MW012A	MW012A	MW012A	MW012A
Sample Collection Date	5/22/2001	5/22/2001	1/28/2002	9/5/2002	9/5/2002	12/19/2002	3/3/2003	5/21/2003	
Benzene		<0.002							
Toluene		<0.002							
Ethylbenzene		<0.002							
Xylenes (total)		<0.002							
Petroleum Hydrocarbons (C6 to C12)		<5							
Petroleum Hydrocarbons (>C12 to C28)		<5							
Petroleum Hydrocarbons (>C28 to C35)		<5							
TPH (C6 to C35)		<5							
Total Petroleum Hydrocarbons DRO									
Total Petroleum Hydrocarbons GRO									
Chromium (Total)	<0.05								
Chromium, Dissolved		<0.05		<0.05					
Hexavalent Chromium, Total	<0.005								
Hexavalent Chromium, Dissolved		<0.005		<0.005		<0.005	<0.005	<0.005	

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW013A	MW013A	MW013A	MW013A	MW013A	MW013A	MW013A	MW013A	MW013A	MW013A
Sample Collection Date	1/20/1999	5/22/2001	1/28/2002	9/5/2002	9/5/2002	12/19/2002	3/12/2003	5/28/2003		
Benzene		<0.002								
Toluene		<0.002								
Ethylbenzene		<0.002								
Xylenes (total)		<0.002								
Petroleum Hydrocarbons (C6 to C12)		<5								
Petroleum Hydrocarbons (>C12 to C28)		<5								
Petroleum Hydrocarbons (>C28 to C35)		<5								
TPH (C6 to C35)		<5								
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Chromium (Total)		<0.05								
Chromium, Dissolved	<0.01		<0.05		<0.05					
Hexavalent Chromium, Total		0.021								
Hexavalent Chromium, Dissolved			0.028	0.037		0.02	0.009	0.019		

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW014A	MW014A	MW014A	MW014A	MW014A	MW014A	MW014A	MW014A	MW014A
Sample Collection Date	11/4/1997	5/23/2001	1/24/2002	9/5/2002	9/5/2002	12/19/2002	3/10/2003	5/21/2003	
Benzene		<0.002							
Toluene		<0.002							
Ethylbenzene		<0.002							
Xylenes (total)		<0.002							
Petroleum Hydrocarbons (C6 to C12)		<5							
Petroleum Hydrocarbons (>C12 to C28)		<5							
Petroleum Hydrocarbons (>C28 to C35)		<5							
TPH (C6 to C35)		<5							
Total Petroleum Hydrocarbons DRO									
Total Petroleum Hydrocarbons GRO									
Chromium (Total)		<0.05							
Chromium, Dissolved	<0.05		<0.05	<0.05	<0.05				
Hexavalent Chromium, Total		0.006							
Hexavalent Chromium, Dissolved			0.008	<0.005	<0.005	0.005	<0.005	<0.005	

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A
Sample Collection Date	11/4/1997	1/19/1999	5/17/2001	1/22/2002	9/4/2002	9/4/2002	9/4/2002	12/11/2002	3/3/2003	5/21/2003	
Benzene			<0.002								
Toluene			<0.002								
Ethylbenzene			<0.002								
Xylenes (total)			<0.002								
Petroleum Hydrocarbons (C6 to C12)			<5								
Petroleum Hydrocarbons (>C12 to C28)			<5								
Petroleum Hydrocarbons (>C28 to C35)			<5								
TPH (C6 to C35)			<5								
Total Petroleum Hydrocarbons DRO											
Total Petroleum Hydrocarbons GRO											
Chromium (Total)			<0.05	<0.05							
Chromium, Dissolved	<0.05	<0.05									
Hexavalent Chromium, Total			0.006	<0.005	<0.005						
Hexavalent Chromium, Dissolved											

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW018A	MW018A
Sample Collection Date	5/17/2001	1/23/2002	9/4/2002	9/4/2002	9/4/2002	12/12/2002	3/4/2003	5/21/2003	11/7/1997	1/19/1999			
Benzene	<0.002												
Toluene	<0.002												
Ethylbenzene	<0.002												
Xylenes (total)	<0.002												
Petroleum Hydrocarbons (C6 to C12)	<5												
Petroleum Hydrocarbons (>C12 to C28)	<5												
Petroleum Hydrocarbons (>C28 to C35)	<5												
TPH (C6 to C35)	<5												
Total Petroleum Hydrocarbons DRO													
Total Petroleum Hydrocarbons GRO													
Chromium (Total)	<0.05	<0.05	<0.005	<0.05	<0.05	<0.005	<0.005	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium, Dissolved													
Hexavalent Chromium, Total	0.007												
Hexavalent Chromium, Dissolved		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A
Sample Collection Date	1/19/1999	5/17/2001	1/23/2002	9/5/2002	12/2/2002	12/2/2002	12/2/2002	12/2/2002	3/11/2003	5/27/2003	MW019A
Benzene		<0.002									
Toluene		<0.002									
Ethylbenzene		<0.002									
Xylenes (total)		<0.002									
Petroleum Hydrocarbons (C6 to C12)		<5									
Petroleum Hydrocarbons (>C12 to C28)		<5									
Petroleum Hydrocarbons (>C28 to C35)		<5									
TPH (C6 to C35)		<5									
Total Petroleum Hydrocarbons DRO											
Total Petroleum Hydrocarbons GRO											
Chromium (Total)		<0.05									
Chromium, Dissolved	<0.05		<0.05	<0.05				<0.05			
Hexavalent Chromium, Total		<0.005	<0.005	<0.005							
Hexavalent Chromium, Dissolved					0.013				<0.005	<0.005	

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW020A	MW020A	MW020A	MW020A	MW020A	MW020A	MW020A	MW020A	MW020A	MW020A	MW020A
Sample Collection Date	1/19/1999	6/7/2001	2/6/2002	9/9/2002	9/9/2002	12/9/2002	12/9/2002	12/9/2002	3/6/2003	6/5/2003	MW020A
Benzene		<0.002									
Toluene		<0.002									
Ethylbenzene		<0.002									
Xylenes (total)		<0.002									
Petroleum Hydrocarbons (C6 to C12)		<5									
Petroleum Hydrocarbons (>C12 to C28)		<5									
Petroleum Hydrocarbons (>C28 to C35)		<5									
TPH (C6 to C35)		<5									
Total Petroleum Hydrocarbons DRO											
Total Petroleum Hydrocarbons GRO											
Chromium (Total)		<0.05									
Chromium, Dissolved	<0.05		<0.05		<0.05			<0.05			
Hexavalent Chromium, Total		0.012	0.014								
Hexavalent Chromium, Dissolved				0.015		0.022			0.012		0.008

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW021A	MW021A	MW021A	MW021A	MW021A	MW021A	MW021A	MW021A	MW021A	MW021A
Sample Collection Date	1/18/1999	1/18/1999	1/20/1999	5/23/2001	1/24/2002	9/5/2002	9/5/2002	12/11/2002	12/11/2002	12/11/2002
Benzene	<0.001			<0.002	<0.002					
Toluene	<0.001			<0.002	<0.002					
Ethylbenzene	<0.001			<0.002	<0.002					
Xylenes (total)	<0.001			<0.002	<0.002					
Petroleum Hydrocarbons (C6 to C12)				<5						
Petroleum Hydrocarbons (>C12 to C28)				<5						
Petroleum Hydrocarbons (>C28 to C35)				<5						
TPH (C6 to C35)				<5						
Total Petroleum Hydrocarbons DRO					<0.25					
Total Petroleum Hydrocarbons GRO					<0.05					
Chromium (Total)				<0.05						
Chromium, Dissolved	0.06	0.05	<0.05		<0.05	<0.05	<0.05		<0.05	
Hexavalent Chromium, Total				0.022						
Hexavalent Chromium, Dissolved					0.006	0.012		0.009		

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW021A	MW021A	MW022A	MW022A	MW022A	MW022A	MW022A	MW022A	MW022A	MW022A
Sample Collection Date	3/11/2003	5/21/2003	1/21/1999	5/23/2001	1/24/2002	9/5/2002	9/5/2002	9/5/2002	12/16/2002	3/12/2003
Benzene				<0.002	<0.002					
Toluene				<0.002	<0.002					
Ethylbenzene				<0.002	<0.002					
Xylenes (total)				<0.002	<0.002					
Petroleum Hydrocarbons (C6 to C12)				<5						
Petroleum Hydrocarbons (>C12 to C28)				<5						
Petroleum Hydrocarbons (>C28 to C35)				<5						
TPH (C6 to C35)				<5						
Total Petroleum Hydrocarbons DRO					<0.25					
Total Petroleum Hydrocarbons GRO					<0.05					
Chromium (Total)				<0.05	<0.05			<0.05		
Chromium, Dissolved										
Hexavalent Chromium, Total			0.13	0.027						
Hexavalent Chromium, Dissolved	0.01	<0.005			0.03	0.03	0.053		0.03	0.036

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW022A	MW023A	MW023A	MW023A	MW023A	MW024A	MW024A	MW024A	MW024A	MW024A
Sample Collection Date	5/29/2003	1/9/2003	3/11/2003	5/28/2003	6/23/1999	5/23/2001	2/6/2002	9/10/2002	9/10/2002	9/10/2002
Benzene		<0.002	<0.002			<0.002	<0.002			
Toluene		0.009	<0.002			<0.002	<0.002			
Ethylbenzene		<0.002	<0.002			<0.002	<0.002			
Xylenes (total)		<0.002	<0.002			<0.002	<0.002			
Petroleum Hydrocarbons (C6 to C12)						<5				
Petroleum Hydrocarbons (>C12 to C28)						<5				
Petroleum Hydrocarbons (>C28 to C35)						<5				
TPH (C6 to C35)						<5				
Total Petroleum Hydrocarbons DRO		<0.25	<0.25				<0.26			
Total Petroleum Hydrocarbons GRO		<0.05	<0.05				<0.05			
Chromium (Total)						0.09				
Chromium, Dissolved		<0.05			0.03		0.06		0.17	
Hexavalent Chromium, Total						0.095				
Hexavalent Chromium, Dissolved	0.027	0.006	<0.005	<0.005			0.053	0.11		

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW024A 10/10/2002	MW024A 10/10/2002	MW024A 12/17/2002	MW024A 3/17/2003	MW024A 5/28/2003	MW039A 8/30/2001	MW039A 1/31/2002	MW039A 9/10/2002	MW039A 9/10/2002
Sample Collection Date									
Benzene							<0.002		
Toluene							<0.002		
Ethylbenzene							<0.002		
Xylenes (total)							<0.002		
Petroleum Hydrocarbons (C6 to C12)									
Petroleum Hydrocarbons (>C12 to C28)									
Petroleum Hydrocarbons (>C28 to C35)									
TPH (C6 to C35)									
Total Petroleum Hydrocarbons DRO							<0.26		
Total Petroleum Hydrocarbons GRO							<0.05		
Chromium (Total)									
Chromium, Dissolved		0.18				<0.05	0.09	0.11	
Hexavalent Chromium, Total						0.14			
Hexavalent Chromium, Dissolved	0.15		0.15	0.26	0.268		0.14		<0.005

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW039A	MW039A	MW039A	MW040A	MW040A	MW040A	MW040A	MW040A
Sample Collection Date	12/26/2002	3/17/2003	6/2/2003	4/2/2002	9/5/2002	9/5/2002	12/18/2002	3/11/2003
Benzene								
Toluene								
Ethylbenzene								
Xylenes (total)								
Petroleum Hydrocarbons (C6 to C12)								
Petroleum Hydrocarbons (>C12 to C28)								
Petroleum Hydrocarbons (>C28 to C35)								
TPH (C6 to C35)								
Total Petroleum Hydrocarbons DRO								
Total Petroleum Hydrocarbons GRO								
Chromium (Total)								
Chromium, Dissolved								
Hexavalent Chromium, Total								
Hexavalent Chromium, Dissolved	0.16	0.12	0.122	<0.005	<0.005	<0.05	0.006	<0.005
								<0.005

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW041A	MW041A	MW041A	MW041A	MW041A	MW041A	MW041A	MW041A	MW041A	MW042A
Sample Collection Date	4/29/2002	5/20/2002	9/17/2002	9/17/2002	12/5/2002	12/5/2002	3/18/2003	6/2/2003	8/30/2001	
Benzene										
Toluene										
Ethylbenzene										
Xylenes (total)										
Petroleum Hydrocarbons (C6 to C12)										
Petroleum Hydrocarbons (>C12 to C28)										
Petroleum Hydrocarbons (>C28 to C35)										
TPH (C6 to C35)										
Total Petroleum Hydrocarbons DRO										
Total Petroleum Hydrocarbons GRO										
Chromium (Total)										
Chromium, Dissolved	0.59	0.46	0.34	0.31						<0.05
Hexavalent Chromium, Total		0.39								0.13
Hexavalent Chromium, Dissolved	0.32		0.22		0.2		0.12	0.22		

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW042A	MW042A	MW042A	MW042A	MW042A	MW042A	MW042A	MW042A	MW046A	MW046A	MW046A
Sample Collection Date	1/29/2002	9/5/2002	9/5/2002	12/18/2002	3/12/2003	5/28/2003	12/9/2002	12/9/2002	12/9/2002	12/9/2002	3/13/2003
Benzene	<0.002							<0.002			<0.002
Toluene	<0.002							0.003			<0.002
Ethylbenzene	<0.002							<0.002			<0.002
Xylenes (total)	<0.002							<0.002			<0.002
Petroleum Hydrocarbons (C6 to C12)											
Petroleum Hydrocarbons (>C12 to C28)											
Petroleum Hydrocarbons (>C28 to C35)											
TPH (C6 to C35)											
Total Petroleum Hydrocarbons DRO	<0.25							<0.5			<0.25
Total Petroleum Hydrocarbons GRO	<0.05							0.07			<0.05
Chromium (Total)											
Chromium, Dissolved	<0.05		<0.05						0.07		
Hexavalent Chromium, Total											
Hexavalent Chromium, Dissolved	0.021	<0.005		0.014	0.013	0.01	0.058				0.072

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW046A	MW048SA	MW048SA	MW048SA	MW048SA	MW048SA	MW048SA	MW048SA	MW048SA	MW049SA
Sample Collection Date	5/29/2003	8/1/2002	9/16/2002	9/16/2002	12/4/2002	12/4/2002	12/4/2002	3/17/2003	6/2/2003	7/30/2002
Benzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	<0.002	0.004	0.003	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	0.88
Ethylbenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Xylenes (total)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Petroleum Hydrocarbons (C6 to C12)										
Petroleum Hydrocarbons (>C12 to C28)										
Petroleum Hydrocarbons (>C28 to C35)										
TPH (C6 to C35)										
Total Petroleum Hydrocarbons DRO	0.27	<0.28			1.5	<0.05	<0.05	<0.25	<0.23	<0.26
Total Petroleum Hydrocarbons GRO	0.07	<0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium (Total)		0.16								0.05
Chromium, Dissolved		0.16		0.17			0.18			0.15
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved	0.078	0.156	0.12		0.16			0.11	0.147	0.049

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW049SA	MW049SA	MW049SA	MW049SA	MW049SA	MW049SA	MW049SA	MW049SA	MW049SA	MW050SA	MW050SA	MW050SA
Sample Collection Date	9/16/2002	12/4/2002	12/4/2002	12/4/2002	3/13/2003	5/28/2003	7/30/2002	9/10/2002	9/10/2002	9/10/2002	9/10/2002	9/10/2002
Benzene	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Toluene	0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Ethylbenzene	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Xylenes (total)	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Petroleum Hydrocarbons (C6 to C12)												
Petroleum Hydrocarbons (>C12 to C28)												
Petroleum Hydrocarbons (>C28 to C35)												
TPH (C6 to C35)												
Total Petroleum Hydrocarbons DRO			0.63	<0.27		<0.27	<0.26					
Total Petroleum Hydrocarbons GRO			<0.05	<0.05		<0.05	<0.05					
Chromium (Total)							0.16					
Chromium, Dissolved	0.06			0.07			0.05					0.13
Hexavalent Chromium, Total												
Hexavalent Chromium, Dissolved	0.056		0.049		0.062	0.047	0.145	0.09				

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW050SA	MW050SA	MW050SA	MW050SA	MW051SA	MW051SA	MW051SA	MW051SA	MW051SA	MW051SA
Sample Collection Date	12/5/2002	12/5/2002	3/12/2003	6/2/2003	10/10/2002	10/10/2002	10/10/2002	12/3/2002	12/3/2002	3/19/2003
Benzene					<0.002					
Toluene					<0.002					
Ethylbenzene					<0.002					
Xylenes (total)					<0.002					
Petroleum Hydrocarbons (C6 to C12)										
Petroleum Hydrocarbons (>C12 to C28)										
Petroleum Hydrocarbons (>C28 to C35)										
TPH (C6 to C35)										
Total Petroleum Hydrocarbons DRO					<0.25					
Total Petroleum Hydrocarbons GRO					<0.05					
Chromium (Total)										
Chromium, Dissolved		0.07				0.64		0.53		
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved	0.048		0.11	0.218	0.36		0.44			0.49

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW051SA 6/3/2003	MW052SA 10/10/2002	MW052SA 10/10/2002	MW052SA 12/3/2002	MW052SA 12/3/2002	MW052SA 3/18/2003	MW052SA 6/2/2003	MW053SA 9/18/2002	MW053SA 9/18/2002
Sample Collection Date									
Benzene			<0.002					<0.002	
Toluene			<0.002					<0.002	
Ethylbenzene			<0.002					<0.002	
Xylenes (total)			<0.002					<0.002	
Petroleum Hydrocarbons (C6 to C12)									
Petroleum Hydrocarbons (>C12 to C28)									
Petroleum Hydrocarbons (>C28 to C35)									
TPH (C6 to C35)									
Total Petroleum Hydrocarbons DRO			<0.25					<0.25	
Total Petroleum Hydrocarbons GRO			<0.05					<0.05	
Chromium (Total)									
Chromium, Dissolved									
Hexavalent Chromium, Total									<0.05
Hexavalent Chromium, Dissolved	0.63		0.23		0.25	0.28	0.326	<0.005	

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW053SA	MW053SA	MW053SA	MW053SA	MW053SA	MW054SA	MW054SA	MW054SA	MW055SA
Sample Collection Date	12/2/2002	12/2/2002	12/2/2002	3/12/2003	5/21/2003	1/27/2003	3/19/2003	5/21/2003	1/6/2003
Benzene						<0.002	<0.002		<0.002
Toluene						<0.002	<0.002		0.003
Ethylbenzene						<0.002	<0.002		<0.002
Xylenes (total)						<0.002	<0.002		<0.002
Petroleum Hydrocarbons (C6 to C12)									
Petroleum Hydrocarbons (>C12 to C28)									
Petroleum Hydrocarbons (>C28 to C35)									
TPH (C6 to C35)									
Total Petroleum Hydrocarbons DRO						<0.25	<0.25		<0.25
Total Petroleum Hydrocarbons GRO						<0.05	<0.05		<0.05
Chromium (Total)									
Chromium, Dissolved			<0.05			0.2			0.17
Hexavalent Chromium, Total									
Hexavalent Chromium, Dissolved	0.017			0.14	<0.005	0.19	0.065	0.108	0.15

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW055SA	MW055SA	MW056SA	MW056SA	MW056SA	MW057SA	MW057SA	MW057SA
Sample Collection Date	3/19/2003	5/21/2003	1/7/2003	3/17/2003	5/21/2003	1/28/2003	3/12/2003	3/12/2003
Benzene	<0.002		<0.002	<0.002		<0.002		<0.002
Toluene	<0.002		0.016	<0.002		0.002		<0.002
Ethylbenzene	<0.002		<0.002	<0.002		<0.002		<0.002
Xylenes (total)	<0.002		<0.002	<0.002		<0.002		<0.002
Petroleum Hydrocarbons (C6 to C12)								
Petroleum Hydrocarbons (>C12 to C28)								
Petroleum Hydrocarbons (>C28 to C35)								
TPH (C6 to C35)								
Total Petroleum Hydrocarbons DRO	<0.25		<0.25	<0.25		<0.25		<0.25
Total Petroleum Hydrocarbons GRO	<0.05		<0.05	<0.05		<0.05		<0.05
Chromium (Total)								
Chromium, Dissolved			0.32			<0.05		
Hexavalent Chromium, Total								
Hexavalent Chromium, Dissolved	0.074	0.114	0.17	<0.005	0.125	0.007	0.27	

Bold values indicate concentrations above the primary MCL.

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Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW064SA	MW064SA	MW065SA	MW065SA	MW066SA	MW066SA	MW066SA
Sample Collection Date	3/24/2003	5/20/2003	2/27/2003	3/25/2003	5/20/2003	3/25/2003	5/20/2003
Benzene			<0.002			<0.002	
Toluene			<0.002			<0.002	
Ethylbenzene			<0.002			<0.002	
Xylenes (total)			<0.002			<0.002	
Petroleum Hydrocarbons (C6 to C12)							
Petroleum Hydrocarbons (>C12 to C28)							
Petroleum Hydrocarbons (>C28 to C35)							
TPH (C6 to C35)							
Total Petroleum Hydrocarbons DRO			<0.25			<0.25	
Total Petroleum Hydrocarbons GRO			<0.05			<0.05	
Chromium (Total)							
Chromium, Dissolved			<0.05			0.28	
Hexavalent Chromium, Total							
Hexavalent Chromium, Dissolved	0.084	0.116	0.01	0.012	0.014	0.18	0.28

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW066SA	MW067SA	MW067SA	MW067SA	MW070A	MW070A	MW070A	MW071SA
Sample Collection Date	5/20/2003	3/4/2003	3/25/2003	5/20/2003	3/6/2003	3/25/2003	5/29/2003	5/1/2003
Benzene		<0.002		<0.002	<0.002			<0.002
Toluene		<0.002		<0.002	0.005			<0.002
Ethylbenzene		<0.002		<0.002	<0.002			<0.002
Xylenes (total)		<0.002		<0.002	<0.002			<0.002
Petroleum Hydrocarbons (C6 to C12)								
Petroleum Hydrocarbons (>C12 to C28)								
Petroleum Hydrocarbons (>C28 to C35)								
TPH (C6 to C35)								
Total Petroleum Hydrocarbons DRO		4.1		<0.25	<0.25			<0.25
Total Petroleum Hydrocarbons GRO		<0.05		<0.05	<0.05			0.07
Chromium (Total)								
Chromium, Dissolved		<0.05			<0.05			<0.05
Hexavalent Chromium, Total								
Hexavalent Chromium, Dissolved	0.286	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW071SA	MW072SA	MW072SA	MW072SA	MW073SA	MW073SA	MW073SA	RW001	RW001	RW001
Sample Collection Date	5/20/2003	5/1/2003	5/20/2003	5/20/2003	4/30/2003	5/20/2003	5/20/2003	2/17/1999	2/18/1999	2/18/1999
Benzene		<0.002			<0.002			<0.001		
Toluene		<0.002			0.002			<0.001		
Ethylbenzene		<0.002			<0.002			<0.001		
Xylenes (total)		<0.002			<0.002			<0.001		
Petroleum Hydrocarbons (C6 to C12)										
Petroleum Hydrocarbons (>C12 to C28)										
Petroleum Hydrocarbons (>C28 to C35)										
TPH (C6 to C35)										
Total Petroleum Hydrocarbons DRO		<0.23			<0.23					
Total Petroleum Hydrocarbons GRO		<0.05			<0.05					
Chromium (Total)								1.3	1.4	1.4
Chromium, Dissolved		<0.05			<0.05					
Hexavalent Chromium, Total										
Hexavalent Chromium, Dissolved	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	RW001	RW001	RW001	RW004A	RW004A	RW004A	RW004A	RW004A
Sample Collection Date	5/29/2001	5/29/2001	5/29/2001	10/1/2001	12/6/2001	12/6/2001	12/7/2001	12/8/2001
Benzene	<0.002		<0.002	0.4				
Toluene	<0.002		<0.002	1.2				
Ethylbenzene	<0.002		<0.002	<0.002				
Xylenes (total)	<0.002		<0.002	<0.002				
Petroleum Hydrocarbons (C6 to C12)	<5		<5					
Petroleum Hydrocarbons (>C12 to C28)	<5		<5					
Petroleum Hydrocarbons (>C28 to C35)	<5		<5					
TPH (C6 to C35)	<5		<5					
Total Petroleum Hydrocarbons DRO				<0.25				
Total Petroleum Hydrocarbons GRO				0.63				
Chromium (Total)	1.65	1.62			4.26	4.19	4.17	4.28
Chromium, Dissolved				3.11				
Hexavalent Chromium, Total	<0.005	0.022		2	2	1.9		
Hexavalent Chromium, Dissolved								

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	RW004A	RW004A	RW004A	Black WW	Criswell WW	EPWW1	EPWW1	EPWW1
Sample Collection Date	2/4/2002	9/18/2002	9/18/2002	4/17/2001	5/30/2001	6/14/1996	4/23/1997	1/20/1999
Benzene				<0.002		<0.001	<0.001	
Toluene				<0.002		<0.001	<0.001	
Ethylbenzene				<0.002		<0.001	<0.001	
Xylenes (total)				<0.002		<0.001	<0.001	
Petroleum Hydrocarbons (C6 to C12)								
Petroleum Hydrocarbons (>C12 to C28)								
Petroleum Hydrocarbons (>C28 to C35)								
TPH (C6 to C35)								
Total Petroleum Hydrocarbons DRO				<0.25				
Total Petroleum Hydrocarbons GRO				<0.05				
Chromium (Total)				<0.05	<0.05	0.66	0.52	
Chromium, Dissolved	4.33		3.63					0.69
Hexavalent Chromium, Total								
Hexavalent Chromium, Dissolved	3.5							

Bold values indicate concentrations above the primary MCL.

Station Name	EPWW1	EPWW1	EPWW1	EPWW1	EPWW1	EPWW1	EPWW1	GOPWW2
Sample Collection Date								
Benzene	0.013	0.013	0.011		<0.002	0.007	0.007	5/30/2001
Toluene	0.011	<0.002	<0.002		<0.002	<0.002	<0.002	
Ethylbenzene	0.01	0.005	0.007		<0.002	0.002	<0.002	
Xylenes (total)	0.009	<0.002	<0.002		<0.002	<0.002	<0.002	
Petroleum Hydrocarbons (C6 to C12)	<5							
Petroleum Hydrocarbons (>C12 to C28)	<5							
Petroleum Hydrocarbons (>C28 to C35)	<5							
TPH (C6 to C35)	<5							
Total Petroleum Hydrocarbons DRO		<0.26	<0.25		<0.5	<0.25	<0.24	
Total Petroleum Hydrocarbons GRO		0.0598	<0.05		<0.05	<0.05	<0.05	
Chromium (Total)	0.92							<0.05
Chromium, Dissolved		0.32		0.86				
Hexavalent Chromium, Total	<0.005							
Hexavalent Chromium, Dissolved		0.44	0.44		0.22	0.9	0.752	

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Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	GOPWW2	GOPWW2	GOPWW2	GOPWW2	LordWW	LordWW	LordWW	LordWW
Sample Collection Date	12/4/2002	12/4/2002	3/27/2003	6/5/2003	9/29/1997	1/19/1999	6/7/2001	2/6/2002
Benzene							<0.002	
Toluene							<0.002	
Ethylbenzene							<0.002	
Xylenes (total)							<0.002	
Petroleum Hydrocarbons (C6 to C12)							<5	
Petroleum Hydrocarbons (>C12 to C28)							<5	
Petroleum Hydrocarbons (>C28 to C35)							<5	
TPH (C6 to C35)							<5	
Total Petroleum Hydrocarbons DRO								
Total Petroleum Hydrocarbons GRO								
Chromium (Total)		<0.05					0.34	
Chromium, Dissolved					0.59	0.52		<0.05
Hexavalent Chromium, Total							0.062	<0.005
Hexavalent Chromium, Dissolved	<0.005		<0.005	<0.005				

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	LordWW	LordWW	LordWW	LordWW	LordWW	LordWW	LordWW	RowlandWW	RowlandWW
Sample Collection Date	9/10/2002	9/10/2002	12/9/2002	12/9/2002	3/20/2003	6/5/2003	1/19/1999	5/30/2001	
Benzene								<0.002	
Toluene								<0.002	
Ethylbenzene								<0.002	
Xylenes (total)								<0.002	
Petroleum Hydrocarbons (C6 to C12)								<5	
Petroleum Hydrocarbons (>C12 to C28)								<5	
Petroleum Hydrocarbons (>C28 to C35)								<5	
TPH (C6 to C35)								<5	
Total Petroleum Hydrocarbons DRO									
Total Petroleum Hydrocarbons GRO									
Chromium (Total)								<0.05	
Chromium, Dissolved	<0.05			<0.05			<0.05		
Hexavalent Chromium, Total								<0.005	
Hexavalent Chromium, Dissolved		0.103	0.007		<0.005	<0.005			

Bold values indicate concentrations above the primary MCL.

Table 4
 Deep Groundwater BTEX, TPH and Chromium Analytical Results
 Chevron/Texaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	Rowland WW	Rowland WW	Rowland WW	Rowland WW	Rowland WW	Rowland WW	Woodell WW
Sample Collection Date	2/7/2002	9/23/2002	9/23/2002	9/23/2002	12/4/2002	3/27/2003	4/17/2001
Benzene							
Toluene							
Ethylbenzene							
Xylenes (total)							
Petroleum Hydrocarbons (C6 to C12)							
Petroleum Hydrocarbons (>C12 to C28)							
Petroleum Hydrocarbons (>C28 to C35)							
TPH (C6 to C35)							
Total Petroleum Hydrocarbons DRO	<0.26						
Total Petroleum Hydrocarbons GRO	<0.05						<0.05
Chromium (Total)							
Chromium, Dissolved	<0.05	<0.05					
Hexavalent Chromium, Total							
Hexavalent Chromium, Dissolved	<0.005			0.054	<0.005	<0.005	<0.005

Bold values indicate concentrations above the primary MCL.

Table 4
Deep Groundwater BTEX, TPH and Chromium Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	WoodellWW	WoodellWW	WoodellWW	WoodellWW	WoodellWW
Sample Collection Date	5/23/2001	12/4/2002	12/4/2002	3/26/2003	5/22/2003
Benzene					
Toluene					
Ethylbenzene					
Xylenes (total)					
Petroleum Hydrocarbons (C6 to C12)					
Petroleum Hydrocarbons (>C12 to C28)					
Petroleum Hydrocarbons (>C28 to C35)					
TPH (C6 to C35)					
Total Petroleum Hydrocarbons DRO					
Total Petroleum Hydrocarbons GRO					
Chromium (Total)	<0.05				
Chromium, Dissolved			<0.05		
Hexavalent Chromium, Total					
Hexavalent Chromium, Dissolved		0.008		0.016	0.031

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	IW001	IW002	IW002	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001
Sample Collection Date	8/1/2002	9/19/2002	9/19/2002	4/23/1997	4/23/1997	1/20/1999	1/20/1999	11/17/1999	11/17/1999	11/17/1999	5/31/2001	5/31/2001
Alkalinity	226							482				
Arsenic	<0.01		<0.05	<0.1		<0.05	<0.1				<0.05	<0.05
Arsenic, Dissolved												
Barium	0.17		<0.05	<0.2		<0.05	<0.1				<0.05	<0.05
Barium, Dissolved						<0.05	<0.1					
Bicarbonate	226	132				460	510	482			434	427
Cadmium	<0.01		<0.05	<0.02							<0.05	<0.05
Cadmium, Dissolved						<0.05	<0.01					
Calcium	590		410			238					262	267
Calcium, Dissolved							205		251			
Carbonate (CO3)	<5	<5				<0.05	<0.1	<0.1			<0.05	<0.05
Chloride	1160	760		200		370	350	250			250	260
Lead	<0.005		<0.05	0.1		<0.05	<0.05				<0.05	<0.05
Lead, Dissolved												
Magnesium	216		146			74					58.9	66.2
Magnesium, Dissolved							63		72			
Manganese												
Manganese, Dissolved												
Mercury	<0.0002		<0.002	<0.001							<0.002	<0.002
Mercury, Dissolved						<0.0002	<0.0002					
Potassium	30		11.2			9.2					7.5	8.1
Potassium, Dissolved							7.6		12			
Selenium	<0.05		<0.05	<0.1		<0.1	<0.05				<0.05	<0.05
Selenium, Dissolved												
Silver	<0.01		<0.05	<0.01		<0.05	<0.05				<0.05	<0.05
Silver, Dissolved												
Sodium	710		366			468					375	418
Sodium, Dissolved							454		421			
Sulfate	1510	990				860	820	850			870	880
Total Dissolved Solids	4720	3180			2000	2400	2200	2200			2120	2180

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW001	MW002	MW002
Sample Collection Date	2/7/2002	9/23/2002	9/23/2002	1/8/2003	3/27/2003	3/27/2003	6/5/2003	6/5/2003	6/5/2003	4/22/1997	1/20/1999		
Alkalinity	291												
Arsenic										<0.1			
Arsenic, Dissolved												<0.05	
Barium										<0.2			
Barium, Dissolved												<0.05	
Bicarbonate	291											190	
Cadmium										<0.02			
Cadmium, Dissolved												<1	
Calcium	290											135	
Calcium, Dissolved													
Carbonate (CO3)	<5											<1	
Chloride	540	350	400	510	500	270	380	530	510	350	350		
Lead	<0.005									<0.1			
Lead, Dissolved												<0.05	
Magnesium	64.9											61	
Magnesium, Dissolved													
Manganese	0.99												
Manganese, Dissolved	1.08												
Mercury										<0.001			
Mercury, Dissolved												<0.0002	
Potassium	9											8.6	
Potassium, Dissolved													
Selenium										<0.1			
Selenium, Dissolved												<0.1	
Silver										<0.01			
Silver, Dissolved												<0.05	
Sodium	474											157	
Sodium, Dissolved													
Sulfate	1000											230	
Total Dissolved Solids	2620									1200		1100	

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW002	MW002	MW002	MW002	MW002	MW002	MW002	MW002	MW002	MW002	MW002	MW003	MW003
Sample Collection Date	11/17/1999	11/19/1999	5/22/2001	1/24/2002	9/16/2002	12/18/2002	3/13/2003	5/28/2003	4/22/1997	6/11/1997			
Alkalinity		200		231									
Arsenic			<0.05						<0.1				
Arsenic, Dissolved												<0.1	
Barium			<0.05						<0.2				
Barium, Dissolved												<0.1	
Bicarbonate		200	193	231									
Cadmium			<0.05						<0.02				
Cadmium, Dissolved												<0.02	
Calcium			142	165									
Calcium, Dissolved	170												
Carbonate (CO3)		<1	<5										
Chloride		470	490	470	460	510	470	430	430				
Lead			<0.05	<0.005					<0.1				
Lead, Dissolved												<0.1	
Magnesium			66.9	74.2									
Magnesium, Dissolved	80												
Manganese				<0.05									
Manganese, Dissolved				<0.05									
Mercury			<0.002						<0.001				
Mercury, Dissolved												<0.001	
Potassium			6.8	7									
Potassium, Dissolved	9.7												
Selenium			<0.05						<0.1				
Selenium, Dissolved												<0.1	
Silver			<0.05						<0.01				
Silver, Dissolved												<0.05	
Sodium			169	187									
Sodium, Dissolved	183												
Sulfate		260	290	290									
Total Dissolved Solids		1400	1210	1460					2000				

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW003	MW003	MW003	MW003	MW003	MW003	MW003	MW003	MW003	MW003	MW004	MW004	MW004
Sample Collection Date	5/24/2001	1/30/2002	1/30/2002	1/30/2002	9/18/2002	1/6/2003	3/19/2003	6/4/2003	4/23/1997	6/11/1997	1/21/1999		
Alkalinity		503	251										
Arsenic	<0.05								<0.1				
Arsenic, Dissolved										<0.1			
Barium	<0.05								<0.2				
Barium, Dissolved										<0.1		<1	
Bicarbonate	211	503	251	226								460	
Cadmium	<0.05								<0.02				
Cadmium, Dissolved										<0.02		<0.01	
Calcium	563	420	410									191	
Calcium, Dissolved													
Carbonate (CO3)	<5	<5	<5	<5								<1	
Chloride	1100	1900	900	850	640	1050	950	290				310	
Lead	<0.05	<0.005	<0.005					0.1					
Lead, Dissolved										<0.1		<0.05	
Magnesium	161	104	112									49	
Magnesium, Dissolved													
Manganese		<0.05	<0.05										
Manganese, Dissolved		<0.05	<0.05										
Mercury	<0.002								<0.001				
Mercury, Dissolved										<0.001		<0.0002	
Potassium	14	8	8									12	
Potassium, Dissolved													
Selenium	<0.05								<0.1				
Selenium, Dissolved										<0.1		<0.05	
Silver	<0.05								<0.01				
Silver, Dissolved										<0.05		<0.05	
Sodium	683	630	590									357	
Sodium, Dissolved													
Sulfate	1720	680	1130	1390								450	
Total Dissolved Solids	4700	3580	2320	3960				1600				1600	

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW005	MW005	MW006	MW006	MW007	MW007	MW007	MW007	MW007	MW007
Sample Collection Date	2/11/2002	2/11/2002	4/22/1997	2/11/2002	8/19/1997	1/21/1999	11/18/1999	11/18/1999	5/24/2001	1/30/2002
Alkalinity	611	615	<0.1	556			240		<0.05	372
Arsenic										
Arsenic, Dissolved					<0.1	<0.1				
Barium			0.3						<0.05	
Barium, Dissolved					<0.2	<1				
Bicarbonate	611	615		556		240	240		248	372
Cadmium			<0.02						<0.05	
Cadmium, Dissolved					<0.02	<0.01				
Calcium	231	222		300		288		309	342	310
Calcium, Dissolved										
Carbonate (CO3)	<5	<5		<5		<1	<1		<5	<5
Chloride	460	460	1500	1400	550	550	520		600	390
Lead	<0.005	<0.005	0.1	<0.005					<0.05	<0.005
Lead, Dissolved					<0.1	<0.05				
Magnesium	89.2	86		103		71		94	97.7	68.6
Magnesium, Dissolved										
Manganese	0.37	0.4		0.53						<0.05
Manganese, Dissolved	0.44	0.44		0.52						<0.05
Mercury			<0.001						<0.002	
Mercury, Dissolved					<0.001	<0.0002				
Potassium	17	17		44		13		11	10	6
Potassium, Dissolved										
Selenium			<0.1						<0.05	
Selenium, Dissolved					<0.1	<0.05				
Silver			<0.01						<0.05	
Silver, Dissolved					<0.05	<0.05				
Sodium	425	404		890		530		442	487	367
Sodium, Dissolved										
Sulfate	500	600		700		850	1200		1150	710
Total Dissolved Solids	2270	2390	3200	3760	2600	2500	2700		2980	2370

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW007	MW007	MW007	MW007	MW008	MW008	MW008	MW008	MW008	MW008
Sample Collection Date	9/12/2002	12/19/2002	3/13/2003	6/3/2003	8/20/1997	1/22/1999	11/18/1999	11/18/1999	5/31/2001	2/4/2002
Alkalinity							164			278
Arsenic									<0.05	
Arsenic, Dissolved					<0.1	<0.1				
Barium									<0.05	
Barium, Dissolved					<0.2	<1				
Bicarbonate						160	164		158	278
Cadmium									<0.05	
Cadmium, Dissolved					<0.02	0.01				
Calcium						438		626	739	510
Calcium, Dissolved										
Carbonate (CO3)						<1	<1		<5	<5
Chloride	710	450	410	390		960	1100		1400	970
Lead									<0.05	<0.005
Lead, Dissolved					<0.1	<0.05				
Magnesium						111		155	165	99
Magnesium, Dissolved										<0.05
Manganese										<0.05
Manganese, Dissolved									<0.002	
Mercury										
Mercury, Dissolved					<0.001	<0.0002				
Potassium						20		22	16.2	13
Potassium, Dissolved										
Selenium									0.08	
Selenium, Dissolved					0.5	<0.05				
Silver									<0.05	
Silver, Dissolved					<0.01	0.17				
Sodium						633		685	778	710
Sodium, Dissolved										
Sulfate						1500	1600		1900	1400
Total Dissolved Solids						3800	4500		5090	3780

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW008	MW008	MW008	MW008	MW008M	MW008M	MW009	MW009	MW009	MW009
Sample Collection Date	9/18/2002	1/6/2003	3/26/2003	6/5/2003	2/4/2002	2/4/2002	8/20/1997	1/21/1999	11/18/1999	11/18/1999
Alkalinity					145	340			278	
Arsenic										
Arsenic, Dissolved							<0.1	<0.1		
Barium										
Barium, Dissolved							<0.2	<1		
Bicarbonate					145	340		240	278	
Cadmium										
Cadmium, Dissolved							<0.02	<0.01		
Calcium					560	460		316		347
Calcium, Dissolved										
Carbonate (CO3)					<5	<5		<1	<1	
Chloride	1250	970	1400	1300	1600	910		410	490	
Lead					<0.005	<0.005				
Lead, Dissolved							<0.1	<0.05		
Magnesium					157	105		81		110
Magnesium, Dissolved										
Manganese					<0.05	<0.05				
Manganese, Dissolved					<0.05	<0.05				
Mercury							<0.001			
Mercury, Dissolved								<0.0002		
Potassium					21	20		13		13
Potassium, Dissolved										
Selenium										
Selenium, Dissolved							<0.1	<0.05		
Silver										
Silver, Dissolved							<0.01	<0.05		
Sodium					730	650		257		353
Sodium, Dissolved										
Sulfate					2000	96		700	1200	
Total Dissolved Solids					5190	3860		2000	2700	

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW009	MW009	MW009	MW009	MW009	MW009	MW009	MW009	MW010	MW010	MW010	MW010	MW010
Sample Collection Date	5/31/2001	1/29/2002	9/17/2002	12/19/2002	3/13/2003	6/4/2003	9/16/1997	9/16/1997	1/19/1999	11/18/1999	11/18/1999	11/18/1999	11/18/1999
Alkalinity		314								178			
Arsenic	<0.05												
Arsenic, Dissolved								<0.1	<0.1				
Barium	0.05												
Barium, Dissolved								<0.2	<1				
Bicarbonate	272	314							170	178			
Cadmium	<0.05												
Cadmium, Dissolved								0.03	<0.01				
Calcium	292	280							490			528	
Calcium, Dissolved													
Carbonate (CO3)	<5	<5							<1	<1			
Chloride	560	630	530	550	410	500	.52		1100	1100			
Lead	<0.05	<0.005											
Lead, Dissolved								<0.1	<0.05				
Magnesium	71.8	83.3							167			192	
Magnesium, Dissolved													
Manganese		<0.05											
Manganese, Dissolved		<0.05											
Mercury	<0.002												
Mercury, Dissolved								<0.001	<0.0002				
Potassium	8.1	8							17			17	
Potassium, Dissolved													
Selenium	0.06												
Selenium, Dissolved								<0.1	<0.05				
Silver	<0.05												
Silver, Dissolved								0.13	<0.05				
Sodium	412	442							460			484	
Sodium, Dissolved													
Sulfate	1170	1200							1000	1200			
Total Dissolved Solids	2760	2710					2400		3100	3800			

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW010	MW010	MW010	MW010	MW010	MW010	MW010	MW010	MW010	MW011	MW011	MW011	MW011	MW011
Sample Collection Date	5/24/2001	1/29/2002	9/17/2002	12/30/2002	3/17/2003	6/2/2003	1/20/1999	11/18/1999	11/18/1999	5/31/2001	1/31/2002			
Alkalinity	181								150		240			
Arsenic	<0.05									<0.05				
Arsenic, Dissolved							<0.05							
Barium	<0.05									<0.05				
Barium, Dissolved							<0.05							
Bicarbonate	186	181					260	150		166	240			
Cadmium	<0.05									<0.05				
Cadmium, Dissolved							<1							
Calcium	680	670					516		689	688	630			
Calcium, Dissolved														
Carbonate (CO3)	< 5	<5					40	<1		<5	<5			
Chloride	1800	1700	1700	2100	2200	2200	990	1200		1600	1500			
Lead	<0.05	<0.005								<0.05	<0.005			
Lead, Dissolved							<0.05							
Magnesium	288	210					105		159	124	142			
Magnesium, Dissolved														
Manganese		<0.05									<0.05			
Manganese, Dissolved		<0.05									<0.05			
Mercury	<0.002									<0.002				
Mercury, Dissolved							<0.0002							
Potassium	17	14					31		22	14.4	15			
Potassium, Dissolved														
Selenium	<0.05									0.07				
Selenium, Dissolved							<0.1							
Silver	<0.05									<0.05				
Silver, Dissolved							<0.05							
Sodium	529	670					600		678	637	730			
Sodium, Dissolved														
Sulfate	1040	940					1200	1600		1770	1800			
Total Dissolved Solids	5130	4750					3600	4600		4950	4770			

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW011	MW011	MW011	MW011	MW011	MW011M	MW011M	MW011M	MW011M	MW012	MW012	MW012
Sample Collection Date	9/19/2002	1/7/2003	3/26/2003	6/2/2003		10/1/2001	10/1/2001	10/1/2001	2/4/2002	2/19/1999	11/18/1999	5/30/2001
Alkalinity									137		122	
Arsenic												<0.05
Arsenic, Dissolved												
Barium												<0.05
Barium, Dissolved												
Bicarbonate	155					151	157		137	127	122	122
Cadmium												<0.05
Cadmium, Dissolved									670	465	496	606
Calcium												
Calcium, Dissolved						533	466					
Carbonate (CO3)	<5					<5	<5		<5	<0	<1	<5
Chloride	1300	1190	1240	1300		1500	1400		1400	850	820	800
Lead									<0.005			<0.05
Lead, Dissolved												
Magnesium									262	128	134	106
Magnesium, Dissolved						147	199					
Manganese									<0.05			
Manganese, Dissolved									<0.05			
Mercury												<0.002
Mercury, Dissolved												
Potassium									17	23	34	44.5
Potassium, Dissolved						17.4	12.6					0.05
Selenium												
Selenium, Dissolved												<0.05
Silver												
Silver, Dissolved												
Sodium									760	517	518	457
Sodium, Dissolved						657	478					
Sulfate	1650					1610	1720		2200	1400	1400	1690
Total Dissolved Solids	4980					4670	4710		5020	3500	4300	4020

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW012	MW012	MW012	MW012	MW012	MW012	MW012	MW012M	MW013	MW013	MW013
Sample Collection Date	5/30/2001	1/31/2002	1/31/2002	9/18/2002	1/6/2003	3/26/2003	6/3/2003	2/4/2002	12/4/1997	1/19/1999	11/18/1999
Alkalinity		132	124					154			372
Arsenic	<0.05										
Arsenic, Dissolved									<0.1	<0.1	
Barium	<0.05										
Barium, Dissolved									<0.2	<1	
Bicarbonate	130	132	124					154		290	372
Cadmium	<0.05										
Cadmium, Dissolved									<0.02	<0.01	
Calcium	541	490	430					290		513	
Calcium, Dissolved											
Carbonate (CO3)	<5	<5	<5					<5		<1	<1
Chloride	910	960	960	830	540	820	670	550	1100	1100	1200
Lead	<0.05	<0.005	<0.005					<0.005			
Lead, Dissolved									<0.1	<0.05	
Magnesium	108	120	119					118		146	
Magnesium, Dissolved											
Manganese		<0.05	<0.05					<0.05			
Manganese, Dissolved		<0.05	<0.05					<0.05			
Mercury	<0.002										
Mercury, Dissolved									<0.001	<0.0002	
Potassium	45.1	39	40					12		20	
Potassium, Dissolved											
Selenium	0.05										
Selenium, Dissolved									<0.1	<0.05	
Silver	<0.05										
Silver, Dissolved									<0.01	<0.05	
Sodium	461	580	540					250		739	
Sodium, Dissolved											
Sulfate	1630	1700	1700					800		1400	1400
Total Dissolved Solids	4020	3840	3780					2200	4000	4000	4500

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW013	MW013	MW013	MW013	MW013	MW013	MW013	MW013	MW013	MW013	MW014	MW014	MW014
Sample Collection Date	11/18/1999	5/23/2001	1/29/2002	9/17/2002	12/19/2002	3/18/2003	6/3/2003	5/19/1999	11/18/1999	11/18/1999	5/24/2001		
Alkalinity			298						452				
Arsenic		<0.05											<0.05
Arsenic, Dissolved								<0.01					
Barium		<0.05											0.05
Barium, Dissolved								<0.01					
Bicarbonate		229	298					334	452		440		
Cadmium		<0.05						<0.001			<0.05		
Cadmium, Dissolved													
Calcium	495	494	480					407		321	281		
Calcium, Dissolved													
Carbonate (CO3)		<5	<5					334	<1		<5		
Chloride		1700	1220	930	970	980	960	1700	2000		1800		
Lead		<0.05	<0.005								<0.05		
Lead, Dissolved								<0.005					
Magnesium	142	136	131					125		98	80.5		
Magnesium, Dissolved													
Manganese			<0.05										
Manganese, Dissolved			<0.05										
Mercury		<0.002									<0.002		
Mercury, Dissolved								<0.0002					
Potassium	17	11.4	12					28		32	30		
Potassium, Dissolved													
Selenium		0.11									<0.05		
Selenium, Dissolved								<0.01					
Silver		<0.05									<0.05		
Silver, Dissolved								<0.002					
Sodium	678	659	740					978		1179	1260		
Sodium, Dissolved													
Sulfate		1430	1430					670	760		690		
Total Dissolved Solids		4810	4360					4400	4600		4890		

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW014	MW014	MW014	MW014	MW014	MW014	MW014	MW015	MW015	MW015	MW015	MW015
Sample Collection Date	1/30/2002	1/30/2002	9/17/2002	1/2/2003	3/18/2003	6/3/2003	1/19/1999	11/17/1999	11/17/1999	11/17/1999	5/17/2001	1/22/2002
Alkalinity	280	496						278	278	278		340
Arsenic											<0.05	
Arsenic, Dissolved							<0.1					
Barium											0.06	
Barium, Dissolved							<1.					
Bicarbonate	280	496					180	278	278	281	<0.05	340
Cadmium							<0.01					
Cadmium, Dissolved							265					
Calcium	230	250								433		500
Calcium, Dissolved										456		
Carbonate (CO3)	<5	<5					<1	<1	<1	<5	<5	<5
Chloride	800	2100	1600	1900	1800	1800	1400	3100	3100	3200	3200	3200
Lead	<0.005	<0.005					<0.05			<0.05	<0.05	<0.005
Lead, Dissolved												
Magnesium	68.2	69.6					81			124		156
Magnesium, Dissolved									201			
Manganese	<0.05	<0.05										<0.05
Manganese, Dissolved	<0.05	<0.05										<0.5
Mercury										<0.002		
Mercury, Dissolved							<0.0002					
Potassium	15	15					52			21.5		33
Potassium, Dissolved									20			
Selenium											<0.05	
Selenium, Dissolved							0.08					
Silver											<0.05	
Silver, Dissolved							<0.05					
Sodium	1280	1360					695			1460		1650
Sodium, Dissolved									1235			
Sulfate	1350	740					410	620	620	730		840
Total Dissolved Solids	4540	4430					3000	5900		6890		6900

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW015	MW015	MW015	MW015	MW015	MW015	MW018	MW018	MW018	MW018	MW018	MW018	MW018
Sample Collection Date	9/4/2002	12/11/2002	3/11/2003	5/29/2003	5/19/1999	11/17/1999	11/17/1999	11/17/1999	5/17/2001	1/23/2002	9/4/2002	MW018	12/12/2002
Alkalinity						246				300			
Arsenic									<0.05				
Arsenic, Dissolved					<0.01								
Barium									<0.05				
Barium, Dissolved					<0.01								
Bicarbonate					239	246			247	300			
Cadmium									<0.05				
Cadmium, Dissolved					<0.001								
Calcium					161				135	152			
Calcium, Dissolved							140						
Carbonate (CO3)					239	<1			<5	<5			
Chloride	2700	3100	2900	2800	420	370			330	360	220		220
Lead									<0.05	<0.005			
Lead, Dissolved					<0.005								
Magnesium					60				50.3	57			
Magnesium, Dissolved							62						
Manganese										<0.05			
Manganese, Dissolved													
Mercury									<0.002				
Mercury, Dissolved					0.0067								
Potassium					15				6.1	7			
Potassium, Dissolved							8.7						
Selenium									<0.05				
Selenium, Dissolved					<0.01								
Silver									<0.05				
Silver, Dissolved					<0.002								
Sodium					206				165	218			
Sodium, Dissolved							189						
Sulfate					290	300			332	310			
Total Dissolved Solids					1300	1300			1280	1410			

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW018	MW018	MW020	MW020	MW020	MW020	MW020	MW020	MW020	MW020	MW020	MW020	MW020	MW020	MW020	MW020
Sample Collection Date	3/4/2003	5/27/2003	1/19/1999	11/17/1999	11/17/1999	11/17/1999	6/7/2001	2/6/2002	9/9/2002	12/9/2002	3/6/2003	6/5/2003				
Alkalinity					250			259								
Arsenic							<0.05									
Arsenic, Dissolved			<0.1													
Barium							0.06									
Barium, Dissolved			<1													
Bicarbonate			230		250		285	259								
Cadmium							<0.05									
Cadmium, Dissolved			<0.01													
Calcium			165				132	166								
Calcium, Dissolved						166										
Carbonate (CO3)			<1		<1		<5	<5								
Chloride	180	230	570	570			700	450	600	610	610					710
Lead							<0.05	<0.005								
Lead, Dissolved			<0.05													
Magnesium			70				63.5	81.1								
Magnesium, Dissolved						81										
Manganese								<0.05								
Manganese, Dissolved								<0.05								
Mercury							<0.002									
Mercury, Dissolved			<0.0002													
Potassium			11				7.6	9								
Potassium, Dissolved						12										
Selenium							<0.05									
Selenium, Dissolved			<0.05													
Silver							<0.05									
Silver, Dissolved			<0.05													
Sodium			243				252	314								
Sodium, Dissolved						282										
Sulfate			270		320		292	190								
Total Dissolved Solids			1680		1600		1770	1720								

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023	MW023
Sample Collection Date	11/18/1999	5/29/2001	5/29/2001	5/29/2001	2/7/2002	9/17/2002	9/18/2002	12/16/2002	12/16/2002	12/16/2002	3/26/2003	3/26/2003	3/26/2003	3/26/2003	5/28/2003		
Alkalinity					227												
Arsenic		<0.05	<0.05	<0.05													
Arsenic, Dissolved																	
Barium		<0.05	<0.05	<0.05													
Barium, Dissolved																	
Bicarbonate		221	227	227	227												
Cadmium		<0.05	<0.05	<0.05													
Cadmium, Dissolved																	
Calcium	435	422	519	480													
Calcium, Dissolved																	
Carbonate (CO3)		<5	<5	<5	<5												
Chloride		1100	1100	1300	1300	690	1150	1300	1300	1300	1300	1300	1300	1300	1300		
Lead		<0.05	<0.05	<0.005													
Lead, Dissolved																	
Magnesium	168	136	134	173													
Magnesium, Dissolved																	
Manganese				<0.05													
Manganese, Dissolved				<0.05													
Mercury		<0.002	<0.002														
Mercury, Dissolved																	
Potassium	18	11	10.5	14													
Potassium, Dissolved																	
Selenium		<0.05	<0.05														
Selenium, Dissolved																	
Silver		<0.05	<0.05														
Silver, Dissolved																	
Sodium	693	708	869	860													
Sodium, Dissolved																	
Sulfate		1500	1490	1600													
Total Dissolved Solids		4420	4390	4300													

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW023	MW024	MW024	MW024	MW025	MW025	MW025	MW025	MW025	MW025	MW025	MW025	MW025
Sample Collection Date	5/28/2003	1/9/2003	3/12/2003	5/28/2003	5/19/1999	11/18/1999	11/18/1999	5/29/2001	1/31/2002	9/17/2002	1/2/2003	MW025	MW025
Alkalinity		416				210			385				
Arsenic		<0.05						<0.05					
Arsenic, Dissolved					<0.01			<0.05					
Barium		0.94						<0.05					
Barium, Dissolved					<0.01								
Bicarbonate		416			203	210		234	385				
Cadmium		<0.05						<0.05					
Cadmium, Dissolved					<0.001								
Calcium		282			342			402	310				
Calcium, Dissolved													
Carbonate (CO3)		<5			203	<1		<5	<5				
Chloride	1300	360	350	340	800	760		1000	810	710	140		430
Lead		<0.05			<0.005			<0.05	<0.005				
Lead, Dissolved													
Magnesium		68.4			129		141	132	111				
Magnesium, Dissolved									<0.05				
Manganese									<0.05				
Manganese, Dissolved									<0.05				
Mercury		<0.0002						<0.002					
Mercury, Dissolved					<0.0002								
Potassium		10.5			20		15	10.4	11				
Potassium, Dissolved													
Selenium		<0.05						<0.05					
Selenium, Dissolved					<0.01								
Silver		<0.05						<0.05					
Silver, Dissolved					<0.002								
Sodium		183			393		399	390	380				
Sodium, Dissolved													
Sulfate		240			770	940		1050	700				
Total Dissolved Solids		1290			2600	2800		3440	2540				

Bold values indicate concentrations above the primary MCL.

Station Name	MW025	MW026	MW026	MW026	MW026	MW026	MW026	MW026	MW026	MW027	MW027	MW027
Sample Collection Date	5/29/2003	11/17/1999	11/17/1999	11/17/1999	5/18/2001	1/23/2002	9/4/2002	12/17/2002	3/11/2003	5/27/2003	11/18/1999	11/18/1999
Alkalinity		174				218					180	
Arsenic					<0.05							<0.05
Arsenic, Dissolved												
Barium					<0.05							0.07
Barium, Dissolved												
Bicarbonate		174			193	218					180	201
Cadmium					<0.05							<0.05
Cadmium, Dissolved												
Calcium					338	270					147	139
Calcium, Dissolved			2424									
Carbonate (CO3)		<1			<5	<5					<1	<5
Chloride	460	500			750	670	700	730	700	670	240	370
Lead					<0.05	<0.005						<0.05
Lead, Dissolved												
Magnesium				86	100	70.4					44	38
Magnesium, Dissolved												
Manganese						<0.05						
Manganese, Dissolved												
Mercury					<0.002							<0.002
Mercury, Dissolved												
Potassium					8.8	12					8.8	6.5
Potassium, Dissolved			12									
Selenium					<0.05							<0.05
Selenium, Dissolved												
Silver					<0.05							<0.05
Silver, Dissolved												
Sodium			163		186	176					106	159
Sodium, Dissolved												
Sulfate		420			460	420					220	330
Total Dissolved Solids		1500			2120	1850					960	1260

Texaco/NorthEunice/General/Report Tables/Table 5 Shallow GW Quality and Metals Analytical Results

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW027	MW027	MW027	MW027	MW027	MW027	MW027	MW028	MW028	MW028	MW028	MW028	MW028	MW028
Sample Collection Date	1/24/2002	9/4/2002	12/17/2002	3/11/2003	5/22/2003	11/18/1999	11/18/1999	5/22/2001	1/24/2002	9/4/2002	12/18/2002	3/10/2003		
Alkalinity	228						188		386					
Arsenic								<0.05						
Arsenic, Dissolved								0.07						
Barium														
Barium, Dissolved														
Bicarbonate	228					188		425	386					
Cadmium								<0.05						
Cadmium, Dissolved														
Calcium	178						238	139	158					
Calcium, Dissolved														
Carbonate (CO3)	<5					<1		<5	<5					
Chloride	320	170	350	360	510	1200		1400	1200	1200	1070	1040		
Lead	<0.005							<0.05	<0.005					
Lead, Dissolved														
Magnesium	47.8						69	42.3	45.9					
Magnesium, Dissolved														
Manganese	<0.05								<0.05					
Manganese, Dissolved														
Mercury								<0.002						
Mercury, Dissolved														
Potassium	7						14	7.7	8					
Potassium, Dissolved														
Selenium								<0.05						
Selenium, Dissolved								<0.05						
Silver														
Silver, Dissolved														
Sodium	170						559	723	791					
Sodium, Dissolved														
Sulfate	370					230		400	330					
Total Dissolved Solids	1370					2400		3040	2800					

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW028	MW029	MW029	MW029	MW029	MW029	MW029	MW029	MW029	MW029	MW030	MW030	MW030
Sample Collection Date	5/22/2003	11/18/1999	11/18/1999	11/18/1999	5/18/2001	2/6/2002	9/9/2002	12/18/2002	3/10/2003	5/27/2003	4/24/2002	9/9/2002	12/18/2002
Alkalinity		182				782					856		
Arsenic					<0.05								
Arsenic, Dissolved													
Barium					0.14								
Barium, Dissolved													
Bicarbonate		182			245	782					856		
Cadmium					<0.05								
Cadmium, Dissolved													
Calcium				159	132	400					450		
Calcium, Dissolved													
Carbonate (CO3)		<1			<5						<5		
Chloride	1030	250			180	160	160	130	150	160	430	290	240
Lead					<0.05	<0.005					0.007		
Lead, Dissolved													
Magnesium				49	36.6	39.5					72		
Magnesium, Dissolved													
Manganese						0.11					0.25		
Manganese, Dissolved											0.07		
Mercury					<0.002								
Mercury, Dissolved													
Potassium				7.9	11	7					<10		
Potassium, Dissolved													
Selenium					<0.05								
Selenium, Dissolved													
Silver					<0.05								
Silver, Dissolved													
Sodium				158	106	111					140		
Sodium, Dissolved													
Sulfate		340			188	170					110		
Total Dissolved Solids		1200			810	1380					1980		

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW030	MW030	MW031	MW031	MW031	MW031	MW031	MW031	MW032	MW032	MW032	MW032	MW032
Sample Collection Date	3/10/2003	5/27/2003	4/25/2002	9/10/2002	12/18/2002	3/10/2003	5/28/2003	4/2/2002	9/4/2002	12/18/2002	3/10/2003	5/22/2003	
Alkalinity			585					280					
Arsenic													
Arsenic, Dissolved													
Barium													
Barium, Dissolved													
Bicarbonate			585					280					
Cadmium													
Cadmium, Dissolved													
Calcium			136					203					
Calcium, Dissolved													
Carbonate (CO3)			<5					<5					
Chloride	220	250	200	70	70	150	100	280	400	480	450	640	
Lead			<0.005					<0.005					
Lead, Dissolved													
Magnesium			41.9					58					
Magnesium, Dissolved													
Manganese			0.14					<0.05					
Manganese, Dissolved			0.13					<0.05					
Mercury													
Mercury, Dissolved													
Potassium			6					7					
Potassium, Dissolved													
Selenium													
Selenium, Dissolved													
Silver													
Silver, Dissolved													
Sodium			179					132					
Sodium, Dissolved													
Sulfate			140					340					
Total Dissolved Solids			990					1320					

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW033	MW033	MW033	MW033	MW033	MW033	MW033	MW033	MW034	MW034	MW034	MW035
Sample Collection Date	4/3/2002	4/3/2002	9/23/2002	1/8/2003	3/27/2003	6/5/2003	9/17/2002	12/5/2002	3/18/2003	6/2/2003	8/30/2001	
Alkalinity	463	448										
Arsenic												
Arsenic, Dissolved												
Barium												
Barium, Dissolved												
Bicarbonate	463	448									311	
Cadmium												
Cadmium, Dissolved												
Calcium	300	330										
Calcium, Dissolved											85	
Carbonate (CO3)	<5	<5									<5	
Chloride	790	750	850	840	780	710	470	500	580	620	85	
Lead	<0.005	<0.005										
Lead, Dissolved												
Magnesium	116	121										
Magnesium, Dissolved											18	
Manganese	0.52	0.52										
Manganese, Dissolved	0.51	0.5										
Mercury												
Mercury, Dissolved												
Potassium	7	7										
Potassium, Dissolved											3.6	
Selenium												
Selenium, Dissolved												
Silver												
Silver, Dissolved												
Sodium	339	348									68.5	
Sodium, Dissolved											700	
Sulfate	370	320									620	
Total Dissolved Solids	2250	2280										

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW035	MW035	MW035	MW035	MW035	MW035	MW036	MW036	MW036	MW036	MW036	MW037
Sample Collection Date	1/29/2002	9/11/2002	12/19/2002	3/5/2003	5/27/2003	8/29/2001	2/7/2002	9/19/2002	1/7/2003	3/26/2003	6/5/2003	8/29/2001
Alkalinity	386						178					
Arsenic												
Arsenic, Dissolved												
Barium												
Barium, Dissolved												
Bicarbonate	386					630	178					801
Cadmium												
Cadmium, Dissolved												
Calcium	220						152					
Calcium, Dissolved						114						52.3
Carbonate (CO3)	<5					<5	<5					<5
Chloride	300	80	28	100	150	180	260	1070	500	840	590	740
Lead	<0.005						<0.005					
Lead, Dissolved												
Magnesium	33						54.3					
Magnesium, Dissolved						36.9						33.1
Manganese	<0.05						0.21					
Manganese, Dissolved	<0.05						0.18					
Mercury												
Mercury, Dissolved												
Potassium	4						9					
Potassium, Dissolved						5.1						16.6
Selenium												
Selenium, Dissolved												
Silver												
Silver, Dissolved												
Sodium	161						180					
Sodium, Dissolved						154						588
Sulfate	230					10	2					30
Total Dissolved Solids	1230					1000	1100					2140

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW038	MW038	MW038	MW038	MW043	MW043	MW043	MW043	MW043	MW044	MW044	MW044
Sample Collection Date	9/19/2002	1/7/2003	3/19/2003	6/5/2003	4/25/2002	9/11/2002	12/19/2002	3/19/2003	5/27/2003	4/3/2002	9/18/2002	1/2/2003
Alkalinity					965					384		
Arsenic												
Arsenic, Dissolved												
Barium												
Barium, Dissolved												
Bicarbonate	714				965					384	340	
Cadmium												
Cadmium, Dissolved												
Calcium					60					410		
Calcium, Dissolved												
Carbonate (CO3)	<5				<5					<5	<5	
Chloride	150	180	180	180	240	130	820	180	200	1110	680	790
Lead					<0.005					<0.005		
Lead, Dissolved												
Magnesium					12.8					155		
Magnesium, Dissolved												
Manganese					<0.05					0.22		
Manganese, Dissolved					0.05					0.24		
Mercury												
Mercury, Dissolved												
Potassium					16					14		
Potassium, Dissolved												
Selenium												
Selenium, Dissolved												
Silver												
Silver, Dissolved												
Sodium					578					540		
Sodium, Dissolved												
Sulfate	3				320					730	940	
Total Dissolved Solids	1070				1940					3260	3500	

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW044	MW044	MW045	MW045	MW045	MW045	MW045	MW045	MW046	MW046	MW046	MW046	MW046
Sample Collection Date	3/17/2003	6/4/2003	4/4/2002	9/12/2002	12/19/2002	3/5/2003	5/27/2003	4/4/2002	9/19/2002	9/19/2002	9/19/2002	1/7/2003	1/7/2003
Alkalinity			305					794					
Arsenic													
Arsenic, Dissolved													
Barium													
Barium, Dissolved													
Bicarbonate			305					794					
Cadmium													
Cadmium, Dissolved													
Calcium			304					190					
Calcium, Dissolved													
Carbonate (CO3)			<5					<5					
Chloride	990	810	430	550	540	540	520	210	140	140	160	150	
Lead			<0.005					<0.005					
Lead, Dissolved													
Magnesium			52.2					42.6					
Magnesium, Dissolved													
Manganese			0.3					0.52					
Manganese, Dissolved			0.29					0.52					
Mercury													
Mercury, Dissolved													
Potassium			9					6					
Potassium, Dissolved													
Selenium													
Selenium, Dissolved													
Silver													
Silver, Dissolved													
Sodium			246					360					
Sodium, Dissolved													
Sulfate			170					180					
Total Dissolved Solids			1920					1640					

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW059	MW059	MW059	MW060	MW060	MW060	MW060	MW061	MW061	MW061	MW061	MW061	MW061	MW061	MW068
Sample Collection Date	1/29/2003	3/20/2003	5/29/2003	1/8/2003	3/24/2003	5/27/2003	1/8/2003	3/24/2003	3/24/2003	3/24/2003	3/24/2003	6/4/2003	6/4/2003	6/4/2003	3/5/2003
Alkalinity	152			224			296								372
Arsenic	<0.05			<0.05			<0.05								<0.05
Arsenic, Dissolved															
Barium	0.07			0.25			1.52								0.67
Barium, Dissolved															
Bicarbonate	152			224			296								372
Cadmium	<0.05			<0.05			<0.05								<0.05
Cadmium, Dissolved															
Calcium	260			301			590								361
Calcium, Dissolved															
Carbonate (CO3)	<5			<5			<5								<5
Chloride	440	600	910	530	840	950	430	1040	1020	1050	1100				320
Lead	<0.05			<0.05			<0.05								<0.05
Lead, Dissolved															
Magnesium	101			83.9			124								52.3
Magnesium, Dissolved															
Manganese															
Manganese, Dissolved															
Mercury	<0.0002			<0.0002			<0.0002								<0.0002
Mercury, Dissolved															
Potassium	8.4			8.6			14.4								20.5
Potassium, Dissolved															
Selenium	<0.05			0.06			<0.05								<0.05
Selenium, Dissolved															
Silver	<0.05			<0.05			<0.05								<0.05
Silver, Dissolved															
Sodium	160			292			480								163
Sodium, Dissolved															
Sulfate	640			600			800								200
Total Dissolved Solids	1820			2010			2160								1160

Bold values indicate concentrations above the primary MCL.

Table 5
Shallow Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW068	MW068	MW069	MW069	MW069	MW070	MW070	MW070	RW070	RW002	RW002	RW003
Sample Collection Date	3/26/2003	5/29/2003	3/5/2003	3/25/2003	5/29/2003	3/6/2003	3/25/2003	5/29/2003	10/1/2001	2/4/2002	2/4/2002	2/4/2002
Alkalinity			560			278				150		122
Arsenic			<0.05			<0.05						
Arsenic, Dissolved												
Barium			0.54			0.43						
Barium, Dissolved												
Bicarbonate			560			278			178	150		122
Cadmium			<0.05			<0.05						
Cadmium, Dissolved												
Calcium			528			182				670		550
Calcium, Dissolved									490			
Carbonate (CO3)			<5			<5			<5	<5		<5
Chloride	40000	37000	1040	32000	28000	58	110	130	1600	1400		980
Lead			<0.05			<0.05				<0.005		<0.005
Lead, Dissolved												
Magnesium			140			37.8				165		144
Magnesium, Dissolved									127			
Manganese										<0.05		<0.05
Manganese, Dissolved										<0.05		<0.05
Mercury			<0.0002			<0.0002						
Mercury, Dissolved												
Potassium			14.6			7.8				18		14
Potassium, Dissolved									13.6			
Selenium			<0.05			<0.05						
Selenium, Dissolved												
Silver			<0.05			<0.05						
Silver, Dissolved												
Sodium			384			92.8				850		499
Sodium, Dissolved									570			
Sulfate			320			70			1500	1900		1600
Total Dissolved Solids	60900		2600	54000		670			4730	4990		3930

Bold values indicate concentrations above the primary MCL.

Table 6
Deep Groundwater Quality and Metals Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW002A	MW002A	MW002A	MW004A	MW004A	MW004A	MW004A	MW004A
Sample Collection Date	12/9/2002	3/12/2003	5/28/2003	10/23/1997	1/21/1999	5/23/2001	1/28/2002	9/17/2002
Alkalinity	188						171	
Arsenic	<0.05			<0.1	<0.1	<0.05		
Arsenic, Dissolved								
Barium	0.07					<0.05		
Barium, Dissolved				<0.2	<1			
Bicarbonate	188				180	166	171	
Cadmium	<0.05					<0.05		
Cadmium, Dissolved				<0.02	<0.01			
Calcium	121				74	127	143	
Calcium, Dissolved								
Carbonate (CO3)	< 5				<1	<5	<5	
Chloride	450	670	730	170	240	470	490	440
Lead	<0.05					<0.05	<0.005	
Lead, Dissolved				<0.1	<0.05			
Magnesium	65.3				40	79.2	90.9	
Magnesium, Dissolved								
Manganese							<0.05	
Manganese, Dissolved							<0.05	
Mercury	<0.002					<0.002		
Mercury, Dissolved				<0.001	<0.0002			
Potassium	7.7				10	7.3	9	
Potassium, Dissolved								
Selenium	<0.05					<0.05		
Selenium, Dissolved				<0.1	<0.05			
Silver	<0.05					<0.05		
Silver, Dissolved				<0.01	<0.05			
Sodium	193				124	175	190	
Sodium, Dissolved								
Sulfate	200				180	410	450	
Total Dissolved Solids	1330			790	830	1320	1540	

Table 6
Deep Groundwater Quality and Metals Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW004A	MW004A	MW004A	MW007A	MW007A	MW007A	MW007A	MW007A
Sample Collection Date	12/30/2002	3/13/2003	6/4/2003	10/22/1997	1/21/1999	5/23/2001	5/23/2001	1/29/2002
Alkalinity								167
Arsenic								
Arsenic, Dissolved				<0.1	<0.1		<0.05	
Barium								
Barium, Dissolved				<0.2	<1		<0.05	
Bicarbonate					180	168	166	167
Cadmium						<0.05	<0.05	
Cadmium, Dissolved				<0.02	<0.01			
Calcium					84	76	75.1	143
Calcium, Dissolved								
Carbonate (CO3)					<1	<5	<5	<5
Chloride	480	480	490	260	190	270	260	350
Lead						<0.05	<0.05	<0.005
Lead, Dissolved				<0.1	<0.05			
Magnesium					38	47.7	47.5	69.3
Magnesium, Dissolved								
Manganese								<0.05
Manganese, Dissolved								<0.05
Mercury								
Mercury, Dissolved				<0.001	<0.0002	<0.002	<0.002	
Potassium					12	11.1	11.4	10
Potassium, Dissolved								
Selenium						<0.05	<0.05	
Selenium, Dissolved				<0.10	<0.05			
Silver						<0.05	<0.05	
Silver, Dissolved				<0.01	<0.05			
Sodium					174	144	145	218
Sodium, Dissolved								
Sulfate					260	330	350	570
Total Dissolved Solids				1200	920	1050	1020	1640

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW007A	MW007A	MW007A	MW007A	MW008A	MW008A	MW008A	MW008A
Sample Collection Date	9/17/2002	12/30/2002	3/17/2003	6/3/2003	10/28/1997	1/22/1999	5/29/2001	MW008A
Alkalinity								2/4/2002
Arsenic							<0.05	116
Arsenic, Dissolved					<0.1	<0.1		
Barium							<0.05	
Barium, Dissolved					<0.2	<1		
Bicarbonate						130	134	116
Cadmium							<0.05	
Cadmium, Dissolved					<0.02	0.02		
Calcium						397	555	610
Calcium, Dissolved								
Carbonate (CO3)						<1	<5	<5
Chloride	380	440	340	490	13	1000	1100	1400
Lead							<0.05	<0.005
Lead, Dissolved					<0.10	<0.05		
Magnesium						215	140	164
Magnesium, Dissolved								
Manganese								<0.05
Manganese, Dissolved								<0.05
Mercury							<0.002	
Mercury, Dissolved					<0.001	<0.0002		
Potassium						22	15.5	20
Potassium, Dissolved								
Selenium							0.05	
Selenium, Dissolved					0.1	0.2		
Silver							<0.05	
Silver, Dissolved					<0.01	0.19		
Sodium						630	613	730
Sodium, Dissolved								
Sulfate						1700	1760	1900
Total Dissolved Solids					3700	3200	4670	4870

Table 6
Deep Groundwater Quality and Metals Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A	MW008A
Sample Collection Date	9/18/2002	9/18/2002	1/6/2003	1/6/2003	3/26/2003	3/26/2003	3/26/2003	6/5/2003	6/5/2003
Alkalinity									
Arsenic									
Arsenic, Dissolved									
Barium									
Barium, Dissolved									
Bicarbonate									
Cadmium									
Cadmium, Dissolved									
Calcium									
Calcium, Dissolved									
Carbonate (CO3)									
Chloride	1150	1200	1210	1220	1230	1230	1230	1300	1200
Lead									
Lead, Dissolved									
Magnesium									
Magnesium, Dissolved									
Manganese									
Manganese, Dissolved									
Mercury									
Mercury, Dissolved									
Potassium									
Potassium, Dissolved									
Selenium									
Selenium, Dissolved									
Silver									
Silver, Dissolved									
Sodium									
Sodium, Dissolved									
Sulfate									
Total Dissolved Solids									

Table 6
Deep Groundwater Quality and Metals Analytical Results
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A	MW009A
Sample Collection Date	10/23/1997	1/21/1999	5/24/2001	1/28/2002	9/18/2002	9/18/2002	9/18/2002	9/18/2002	1/6/2003	1/6/2003
Alkalinity				232						
Arsenic			<0.05							
Arsenic, Dissolved	<0.1	<0.1								
Barium			<0.05							
Barium, Dissolved	<0.2	<1								
Bicarbonate		220	230	232						
Cadmium			<0.05							
Cadmium, Dissolved	<0.02	<0.01								
Calcium		319	343	380						
Calcium, Dissolved										
Carbonate (CO3)		<1	<5	<5						
Chloride	910	780	700	1190	790	590	820	790		
Lead			<0.05	<0.005						
Lead, Dissolved	<0.1	<0.05								
Magnesium		148	179	171						
Magnesium, Dissolved										
Manganese				<0.05						
Manganese, Dissolved				<0.05						
Mercury			<0.002							
Mercury, Dissolved	<0.001	<0.0002								
Potassium		21	11	13						
Potassium, Dissolved										
Selenium			<0.05							
Selenium, Dissolved	0.1	<0.05								
Silver			<0.05							
Silver, Dissolved	<0.01	<0.05								
Sodium		542	441	479						
Sodium, Dissolved										
Sulfate		950	1000	1350						
Total Dissolved Solids	3600	2930	3260	3470						

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW009A	MW009A	MW009A	MW009A	MW009A	MW011A	MW011A	MW011A	MW011A
Sample Collection Date	3/20/2003	3/20/2003	6/4/2003	6/4/2003	10/23/1997	1/20/1999	5/22/2001	1/28/2002	
Alkalinity									186
Arsenic									
Arsenic, Dissolved									
Barium									
Barium, Dissolved									
Bicarbonate									
Cadmium									
Cadmium, Dissolved									
Calcium									
Calcium, Dissolved									
Carbonate (CO3)									
Chloride	730	830	840	820	210	170	210	210	210
Lead									
Lead, Dissolved									
Magnesium									
Magnesium, Dissolved									
Manganese									
Manganese, Dissolved									
Mercury									
Mercury, Dissolved									
Potassium									
Potassium, Dissolved									
Selenium									
Selenium, Dissolved									
Silver									
Silver, Dissolved									
Sodium									
Sodium, Dissolved									
Sulfate									
Total Dissolved Solids					940	280	220	220	1000

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW011A	MW011A	MW011A	MW011A	MW012A	MW012A	MW012A	MW012A
Sample Collection Date	9/12/2002	12/26/2002	3/18/2003	6/2/2003	11/4/1997	5/22/2001	1/28/2002	9/5/2002
Alkalinity							215	
Arsenic						<0.05		
Arsenic, Dissolved					<0.1			
Barium						0.06		
Barium, Dissolved					<0.2			
Bicarbonate						213	215	
Cadmium						<0.05		
Cadmium, Dissolved					<0.02			
Calcium						31.1	34	
Calcium, Dissolved								
Carbonate (CO3)						<5	<5	
Chloride	270	320	220	320	74	80	60	50
Lead						<0.05	<0.005	
Lead, Dissolved					<0.1			
Magnesium						15.8	19.4	
Magnesium, Dissolved								
Manganese							<0.05	
Manganese, Dissolved							<0.05	
Mercury						<0.002		
Mercury, Dissolved					<0.001			
Potassium						10.6	12	
Potassium, Dissolved								
Selenium						<0.05		
Selenium, Dissolved					<0.1			
Silver						<0.05		
Silver, Dissolved					<0.01			
Sodium						97.4	115	
Sodium, Dissolved								
Sulfate						89	110	
Total Dissolved Solids					480	500	530	

Table 6
 Deep Groundwater Quality and Metals Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW012A	MW012A	MW012A	MW012A	MW013A	MW013A	MW013A	MW013A	MW013A
Sample Collection Date	12/19/2002	3/3/2003	5/21/2003	1/20/1999	5/22/2001	1/28/2002	9/5/2002	12/19/2002	
Alkalinity						214			
Arsenic					<0.05				
Arsenic, Dissolved				<0.05					
Barium					<0.05				
Barium, Dissolved				<0.05					
Bicarbonate				210	229	214			
Cadmium					<0.05				
Cadmium, Dissolved				<1					
Calcium				43	42.7	70			
Calcium, Dissolved									
Carbonate (CO3)				<1	<5	<5			
Chloride	71	64	54	57	100	130	90	87	
Lead					<0.05	<0.005			
Lead, Dissolved				<0.05					
Magnesium				24	19.7	34.6			
Magnesium, Dissolved									
Manganese						<0.05			
Manganese, Dissolved						<0.05			
Mercury					<0.002				
Mercury, Dissolved				<0.0002					
Potassium				5.4	4.3	6			
Potassium, Dissolved									
Selenium					<0.05				
Selenium, Dissolved				<0.1					
Silver					<0.05				
Silver, Dissolved				<0.05					
Sodium				102	98.2	133			
Sodium, Dissolved									
Sulfate				100	119	190			
Total Dissolved Solids				530	600	760			

Table 6
 Deep Groundwater Quality and Metals Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW013A	MW013A	MW014A	MW014A	MW014A	MW014A	MW014A	MW014A	MW014A
Sample Collection Date	3/12/2003	5/28/2003	11/4/1997	5/23/2001	1/24/2002	9/5/2002	12/19/2002	MW014A	MW014A
Alkalinity					228				3/10/2003
Arsenic				<0.05					
Arsenic, Dissolved			<0.1						
Barium				<0.05					
Barium, Dissolved			<0.2						
Bicarbonate				233	228				
Cadmium				<0.05					
Cadmium, Dissolved			<0.02						
Calcium				28.9	36				
Calcium, Dissolved									
Carbonate (CO3)				<5	<5				
Chloride	82	70	97	80	50	40	44		46
Lead				<0.05	<0.005				
Lead, Dissolved			<0.1						
Magnesium				15.5	18.3				
Magnesium, Dissolved									
Manganese					<0.05				
Manganese, Dissolved									
Mercury				<0.002					
Mercury, Dissolved			<0.001						
Potassium				5.4	6				
Potassium, Dissolved									
Selenium				<0.05					
Selenium, Dissolved			<0.1						
Silver				<0.05					
Silver, Dissolved			<0.01						
Sodium				108	117				
Sodium, Dissolved									
Sulfate				130	110				
Total Dissolved Solids			510	520	540				

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW014A	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A	MW015A
Sample Collection Date	5/21/2003	11/4/1997	1/19/1999	5/17/2001	1/22/2002	9/4/2002	12/11/2002	MW015A	MW015A
Alkalinity					255				3/3/2003
Arsenic				<0.05					
Arsenic, Dissolved		<0.1	<0.1						
Barium				0.05					
Barium, Dissolved		<0.2	<1.						
Bicarbonate			210	175	255				
Cadmium				<0.05					
Cadmium, Dissolved		<0.02	<0.01						
Calcium			46	52.8	510				
Calcium, Dissolved									
Carbonate (CO3)			<1	<5	<5				
Chloride	44	230	140	270	390	350	320		370
Lead				<0.05	<0.005				
Lead, Dissolved		<0.1	<0.05						
Magnesium			26	29.4	176				
Magnesium, Dissolved									
Manganese					<0.5				
Manganese, Dissolved									
Mercury				<0.002					
Mercury, Dissolved		<0.001	<0.0002						
Potassium			14	9.1	30				
Potassium, Dissolved									
Selenium				<0.05					
Selenium, Dissolved		<0.1	<0.05						
Silver				<0.05					
Silver, Dissolved		<0.01	<0.05						
Sodium			140	143	1660				
Sodium, Dissolved									
Sulfate			97	102	120				
Total Dissolved Solids		650	630	780	1020				

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW015A	MW016A	MW016A	MW016A	MW016A	MW016A	MW016A	MW016A	MW016A
Sample Collection Date	5/21/2003	11/7/1997	5/17/2001	1/22/2002	9/4/2002	12/12/2002	3/4/2003	5/21/2003	
Alkalinity				300					
Arsenic			<0.05						
Arsenic, Dissolved		<0.1							
Barium			<0.05						
Barium, Dissolved		<0.2							
Bicarbonate			179	300					
Cadmium			<0.05						
Cadmium, Dissolved		<0.02							
Calcium			78.6	130					
Calcium, Dissolved									
Carbonate (CO3)			<5	<5					
Chloride	530	210	230	240	130	230	240	300	
Lead			<0.05	<0.005					
Lead, Dissolved		<0.1							
Magnesium			40.6	49.2					
Magnesium, Dissolved									
Manganese				<0.5					
Manganese, Dissolved									
Mercury			<0.002						
Mercury, Dissolved		<0.001							
Potassium			6.2	10					
Potassium, Dissolved									
Selenium			<0.05						
Selenium, Dissolved		<0.1							
Silver			<0.05						
Silver, Dissolved		<0.01							
Sodium			127	150					
Sodium, Dissolved									
Sulfate			256	230					
Total Dissolved Solids		950	900	1040					

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW017A	MW018A
Sample Collection Date	11/10/1997	5/17/2001	1/23/2002	9/4/2002	12/12/2002	3/4/2003	5/21/2003	11/7/1997				
Alkalinity			217									
Arsenic		<0.05										
Arsenic, Dissolved	<0.1							<0.1				
Barium		<0.05										
Barium, Dissolved	<0.2							<0.2				
Bicarbonate		220	217									
Cadmium		<0.05										
Cadmium, Dissolved	<0.02							<0.02				
Calcium		34.9	38									
Calcium, Dissolved												
Carbonate (CO3)		<5	<5									
Chloride	120	80	67	50	49	54	56	360				
Lead		<0.05	<0.005									
Lead, Dissolved	<0.1							<0.1				
Magnesium		16.9	18.1									
Magnesium, Dissolved												
Manganese			<0.05									
Manganese, Dissolved												
Mercury		<0.002										
Mercury, Dissolved	<0.001							<0.001				
Potassium		7.1	7									
Potassium, Dissolved												
Selenium		<0.05										
Selenium, Dissolved	<0.1							<0.1				
Silver		<0.05										
Silver, Dissolved	<0.01							<0.01				
Sodium		101	114									
Sodium, Dissolved												
Sulfate		104	120									
Total Dissolved Solids	570	540	520					1500				

ARCADIS

Station Name	MW018A	MW018A	MW018A	MW018A	MW018A	MW018A	MW018A	MW018A
Sample Collection Date	1/19/1999	5/17/2001	1/23/2002	9/4/2002	12/16/2002	3/4/2003	5/27/2003	MW019A 11/10/1997
Alkalinity			179					
Arsenic		<0.05						
Arsenic, Dissolved	<0.1							<0.1
Barium		<0.05						
Barium, Dissolved	<1							<0.2
Bicarbonate	170	190	179					
Cadmium		<0.05						
Cadmium, Dissolved	<0.01							<0.02
Calcium	140	116	121					
Calcium, Dissolved								
Carbonate (CO3)	<1	<5	<5					
Chloride	390	330	280	240	260	250	250	480
Lead		<0.05	<0.005					
Lead, Dissolved	<0.05							<0.1
Magnesium	76	61.7	65.7					
Magnesium, Dissolved								
Manganese			<0.05					
Manganese, Dissolved								
Mercury		<0.002						
Mercury, Dissolved	<0.0002							<0.001
Potassium	12	7.7	13					
Potassium, Dissolved								
Selenium		<0.05						
Selenium, Dissolved	<0.05							<0.1
Silver		<0.05						
Silver, Dissolved	<0.05							<0.01
Sodium	196	161	182					
Sodium, Dissolved								
Sulfate	450	460	390					
Total Dissolved Solids	1400	1300	1260					1500

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A	MW019A
Sample Collection Date	1/19/1999	1/19/1999	1/19/1999	5/17/2001	1/23/2002	9/5/2002	12/2/2002	3/11/2003	5/27/2003
Alkalinity					239				
Arsenic				<0.05					
Arsenic, Dissolved	<0.1		<0.1						
Barium				<0.05					
Barium, Dissolved	<1		<1						
Bicarbonate	200		210	273	239				
Cadmium				<0.05					
Cadmium, Dissolved	<0.01		<0.01						
Calcium	156		165	141	125				
Calcium, Dissolved									
Carbonate (CO3)	<1		<1	<5	<5				
Chloride	520		500	490	420	330	360	350	380
Lead				<0.05	<0.005				
Lead, Dissolved	<0.05		<0.05						
Magnesium	86		89	67.2	66.9				
Magnesium, Dissolved									
Manganese					<0.05				
Manganese, Dissolved									
Mercury				<0.002					
Mercury, Dissolved	<0.0002		<0.0002						
Potassium	12		12	7.3	8				
Potassium, Dissolved									
Selenium				<0.05					
Selenium, Dissolved	<0.05		<0.05						
Silver				<0.05					
Silver, Dissolved	<0.05		<0.05						
Sodium	236		217	191	206				
Sodium, Dissolved									
Sulfate	340		330	358	280				
Total Dissolved Solids	1500		1500	1450	1340				

Station Name	MW'020A	MW'020A	MW'020A	MW'020A	MW'020A	MW'020A	MW'020A	MW'020A	MW'020A	MW'021A
Sample Collection Date	1/19/1999	6/7/2001	2/6/2002	9/9/2002	12/9/2002	3/6/2003	6/5/2003			1/18/1999
Alkalinity			176							
Arsenic		<0.05								
Arsenic, Dissolved	<0.1									<0.1
Barium		<0.05								
Barium, Dissolved	<1									0.13
Bicarbonate	150	94.9	176							130
Cadmium		<0.05								
Cadmium, Dissolved	<0.01									<0.01
Calcium	106	133	154							656
Calcium, Dissolved										
Carbonate (CO3)	<1	<5	<5							<1
Chloride	250	390	350	340	370	370	430			7000
Lead		<0.05	<0.005							
Lead, Dissolved	<0.05									<0.05
Magnesium	55	65.1	83.1							292
Magnesium, Dissolved										
Manganese			<0.05							
Manganese, Dissolved			<0.05							
Mercury		<0.002								
Mercury, Dissolved	<0.0002									<0.0002
Potassium	11	7	8							107
Potassium, Dissolved										
Selenium		<0.05								
Selenium, Dissolved	<0.05									<0.05
Silver		<0.05								
Silver, Dissolved	<0.05									<0.05
Sodium	122	150	179							2590
Sodium, Dissolved										
Sulfate	260	378	370							460
Total Dissolved Solids	1000	1330	1320							9200

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW021A	MW021A	MW021A	MW021A	MW021A	MW021A	MW021A	MW021A	MW022A	MW022A
Sample Collection Date	5/23/2001	1/24/2002	9/5/2002	12/11/2002	3/11/2003	5/21/2003	1/21/1999	5/23/2001		
Alkalinity		417								
Arsenic	<0.05									<0.05
Arsenic, Dissolved							<0.1			
Barium	0.06									<0.05
Barium, Dissolved							<1			
Bicarbonate	277	417					170			369
Cadmium	<0.05									<0.05
Cadmium, Dissolved							<0.01			
Calcium	634	600					119			244
Calcium, Dissolved										
Carbonate (CO3)	<5	<5					<1			<5
Chloride	7000	5800	4900	5800	5300	5900	350			930
Lead	<0.05	<0.005								<0.05
Lead, Dissolved							<0.05			
Magnesium	262	242					52			99.2
Magnesium, Dissolved										
Manganese		<0.05								
Manganese, Dissolved		<0.05								
Mercury	<0.002									<0.002
Mercury, Dissolved							<0.0002			
Potassium	24.2	26					49			10.6
Potassium, Dissolved										
Selenium	<0.05									<0.05
Selenium, Dissolved							<0.05			
Silver	<0.05									<0.05
Silver, Dissolved							<0.05			
Sodium	7450	2700					206			292
Sodium, Dissolved										
Sulfate	740	1080					270			410
Total Dissolved Solids	13400	9900					1200			2200

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW022A	MW022A	MW022A	MW022A	MW022A	MW022A	MW022A	MW022A	MW023A	MW023A	MW023A
Sample Collection Date	1/24/2002	9/5/2002	12/16/2002	3/12/2003	5/29/2003	1/9/2003	3/11/2003	5/28/2003			
Alkalinity	295					217					
Arsenic						<0.05					
Arsenic, Dissolved											
Barium						0.06					
Barium, Dissolved											
Bicarbonate	295					217					
Cadmium						<0.05					
Cadmium, Dissolved											
Calcium	174					37.6					
Calcium, Dissolved											
Carbonate (CO3)	<5					<5					
Chloride	490	400	530	560	510	52	52	27			
Lead	<0.005					<0.05					
Lead, Dissolved											
Magnesium	91.4					18.5					
Magnesium, Dissolved											
Manganese	0.17										
Manganese, Dissolved	0.13										
Mercury						<0.0002					
Mercury, Dissolved											
Potassium	10					4.3					
Potassium, Dissolved											
Selenium						<0.05					
Selenium, Dissolved											
Silver						<0.05					
Silver, Dissolved											
Sodium	238					98.7					
Sodium, Dissolved											
Sulfate	250					110					
Total Dissolved Solids	1590					500					

Table 6
 Deep Groundwater Quality and Metals Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW024A	MW024A	MW024A	MW024A	MW024A	MW024A	MW024A	MW024A	MW024A
Sample Collection Date	6/23/1999	6/23/1999	5/23/2001	2/6/2002	9/10/2002	12/17/2002	3/17/2003	5/28/2003	
Alkalinity	180			214					
Arsenic			<0.05						
Arsenic, Dissolved									
Barium			0.08						
Barium, Dissolved									
Bicarbonate	180		210	214					
Cadmium			<0.05						
Cadmium, Dissolved									
Calcium		59	110	118					
Calcium, Dissolved									
Carbonate (CO3)	<1		<5	<5					
Chloride	140		440	320	500	640	790	910	
Lead			<0.05	<0.005					
Lead, Dissolved									
Magnesium		35	64.3	65.6					
Magnesium, Dissolved									
Manganese				<0.05					
Manganese, Dissolved				<0.05					
Mercury			<0.002						
Mercury, Dissolved									
Potassium		7.1	7.2	7					
Potassium, Dissolved									
Selenium			<0.05						
Selenium, Dissolved									
Silver			<0.05						
Silver, Dissolved									
Sodium		95	132	136					
Sodium, Dissolved									
Sulfate	140		170	190					
Total Dissolved Solids			1250	1080					

Table 6
 Deep Groundwater Quality and Metals Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW039A	MW039A	MW039A	MW039A	MW039A	MW039A	MW039A	MW040A	MW040A
Sample Collection Date	8/30/2001	1/31/2002	9/10/2002	12/26/2002	3/17/2003	6/2/2003	4/2/2002	9/5/2002	
Alkalinity		190					214		
Arsenic									
Arsenic, Dissolved									
Barium									
Barium, Dissolved									
Bicarbonate	199	190					214		
Cadmium									
Cadmium, Dissolved									
Calcium		76					44		
Calcium, Dissolved	40.3								
Carbonate (CO3)	<5	<5					<5		
Chloride	73	190	180	210	190	200	59	50	
Lead		<0.005					<0.005		
Lead, Dissolved									
Magnesium		40.4					20.8		
Magnesium, Dissolved	19.6								
Manganese		<0.05					<0.05		
Manganese, Dissolved		<0.05					<0.05		
Mercury									
Mercury, Dissolved									
Potassium		6					5		
Potassium, Dissolved	4.3								
Selenium									
Selenium, Dissolved									
Silver									
Silver, Dissolved									
Sodium		133					111		
Sodium, Dissolved	83.2								
Sulfate	110	250					100		
Total Dissolved Solids	550	840					540		

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW040A	MW040A	MW040A	MW040A	MW041A	MW041A	MW041A	MW041A	MW041A
Sample Collection Date	12/18/2002	3/11/2003	5/22/2003	4/29/2002	9/17/2002	12/5/2002	3/18/2003	6/2/2003	
Alkalinity				230					
Arsenic									
Arsenic, Dissolved									
Barium									
Barium, Dissolved									
Bicarbonate				230					
Cadmium									
Cadmium, Dissolved									
Calcium				213					
Calcium, Dissolved									
Carbonate (CO3)				<5.0					
Chloride	50	49	40	690	420	410	420	390	
Lead				<0.005					
Lead, Dissolved									
Magnesium				104					
Magnesium, Dissolved									
Manganese				<0.05					
Manganese, Dissolved				<0.05					
Mercury									
Mercury, Dissolved									
Potassium				11					
Potassium, Dissolved									
Selenium									
Selenium, Dissolved									
Silver									
Silver, Dissolved									
Sodium				303					
Sodium, Dissolved									
Sulfate				810					
Total Dissolved Solids				2330					

Table 6
 Deep Groundwater Quality and Metals Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW042A	MW042A	MW042A	MW042A	MW042A	MW042A	MW042A	MW042A	MW046A	MW046A	MW046A
Sample Collection Date	8/30/2001	1/29/2002	9/5/2002	12/18/2002	3/12/2003	5/28/2003	12/9/2002	3/13/2003	5/29/2003		
Alkalinity		231					394				
Arsenic							<0.05				
Arsenic, Dissolved											
Barium							0.18				
Barium, Dissolved											
Bicarbonate	235	231					394				
Cadmium							<0.05				
Cadmium, Dissolved											
Calcium		500					187				
Calcium, Dissolved	443										
Carbonate (CO3)	<5	<5					<5				
Chloride	6000	5400	5100	4800	3600	3900	340	510	560		
Lead		<0.005					<0.05				
Lead, Dissolved											
Magnesium		226					66.6				
Magnesium, Dissolved	180										
Manganese		<0.05									
Manganese, Dissolved		<0.05									
Mercury							<0.002				
Mercury, Dissolved											
Potassium		46					9.8				
Potassium, Dissolved	35.8										
Selenium							<0.05				
Selenium, Dissolved											
Silver							<0.05				
Silver, Dissolved											
Sodium		3350					198				
Sodium, Dissolved	2900										
Sulfate	530	640					250				
Total Dissolved Solids	11900	11700					1470				

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW048SA	MW048SA	MW048SA	MW048SA	MW048SA	MW048SA	MW048SA	MW049SA	MW049SA	MW049SA	MW049SA
Sample Collection Date	8/1/2002	9/16/2002	12/4/2002	3/17/2003	6/2/2003	7/30/2002	9/16/2002	12/4/2002	3/13/2003		
Alkalinity	230					239					
Arsenic	<0.01					<0.01					
Arsenic, Dissolved											
Barium	0.11					0.12					
Barium, Dissolved											
Bicarbonate	230					239					
Cadmium	<0.01					<0.01					
Cadmium, Dissolved											
Calcium	194					600					
Calcium, Dissolved											
Carbonate (CO3)	<5					<5					
Chloride	490	430	430	450	470	3200	2900	3300	3300		
Lead	<0.005					<0.005					
Lead, Dissolved											
Magnesium	93					298					
Magnesium, Dissolved											
Manganese											
Manganese, Dissolved											
Mercury	<0.0002					<0.0002					
Mercury, Dissolved											
Potassium	9					24					
Potassium, Dissolved											
Selenium	<0.05					<0.01					
Selenium, Dissolved											
Silver	<0.01					<0.01					
Silver, Dissolved											
Sodium	222					1100					
Sodium, Dissolved											
Sulfate	300					480					
Total Dissolved Solids	1690					6940					

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW049SA	MW050SA	MW050SA	MW050SA	MW050SA	MW050SA	MW050SA	MW051SA	MW051SA	MW051SA
Sample Collection Date	5/28/2003	7/30/2002	9/10/2002	12/5/2002	3/12/2003	6/2/2003	10/10/2002	10/10/2002	12/3/2002	
Alkalinity		334								
Arsenic		<0.01						<0.05		
Arsenic, Dissolved										
Barium		0.12						0.13		
Barium, Dissolved										
Bicarbonate		334					252			
Cadmium		<0.01						<0.05		
Cadmium, Dissolved										
Calcium		300						418		
Calcium, Dissolved										
Carbonate (CO3)		<5					<5			
Chloride	3200	1600	1160	850	1190	1500	1300		1500	
Lead		<0.005						<0.05		
Lead, Dissolved										
Magnesium		119						124		
Magnesium, Dissolved										
Manganese										
Manganese, Dissolved										
Mercury		<0.0002						<0.002		
Mercury, Dissolved										
Potassium		14						34		
Potassium, Dissolved										
Selenium		<1						<0.05		
Selenium, Dissolved										
Silver		<0.01						<0.05		
Silver, Dissolved										
Sodium		1100						1400		
Sodium, Dissolved										
Sulfate		850					910			
Total Dissolved Solids		4190					3840			

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW051SA	MW051SA	MW052SA	MW052SA	MW052SA	MW052SA	MW052SA	MW053SA	MW053SA
Sample Collection Date	3/19/2003	6/3/2003	10/10/2002	10/10/2002	12/3/2002	3/18/2003	6/2/2003	9/18/2002	9/18/2002
Alkalinity									
Arsenic				<0.05					<0.05
Arsenic, Dissolved									
Barium				0.16					0.07
Barium, Dissolved									
Bicarbonate			209					239	
Cadmium				<0.05					<0.05
Cadmium, Dissolved									
Calcium				498					116
Calcium, Dissolved									
Carbonate (CO3)			<5					<5	
Chloride	1500	1500	1300		1200	1300	1300	300	
Lead				<0.05					<0.05
Lead, Dissolved									
Magnesium				176					54.2
Magnesium, Dissolved									
Manganese									
Manganese, Dissolved									
Mercury				<0.002					<0.002
Mercury, Dissolved									
Potassium				26.2					7.2
Potassium, Dissolved									
Selenium				<0.05					<0.05
Selenium, Dissolved									
Silver				<0.05					<0.05
Silver, Dissolved									
Sodium				542					213
Sodium, Dissolved									
Sulfate			640					230	
Total Dissolved Solids			3400					1250	

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW053SA	MW053SA	MW053SA	MW054SA	MW054SA	MW054SA	MW055SA	MW055SA	MW055SA
Sample Collection Date	12/2/2002	3/12/2003	5/21/2003	1/27/2003	3/19/2003	5/21/2003	1/6/2003	3/19/2003	5/21/2003
Alkalinity				216			206		
Arsenic				<0.05			<0.05		
Arsenic, Dissolved									
Barium				<0.05			0.18		
Barium, Dissolved									
Bicarbonate				216			206		
Cadmium				<0.05			<0.05		
Cadmium, Dissolved									
Calcium				303			191		
Calcium, Dissolved									
Carbonate (CO ₃)				<5			<5		
Chloride	380	440	530	1030	670	1040	610	550	820
Lead				<0.05			<0.05		
Lead, Dissolved									
Magnesium				155			96.1		
Magnesium, Dissolved									
Manganese									
Manganese, Dissolved									
Mercury				<0.0002			<0.0002		
Mercury, Dissolved									
Potassium				13			10.2		
Potassium, Dissolved									
Selenium				<0.05			<0.05		
Selenium, Dissolved									
Silver				<0.05			<0.05		
Silver, Dissolved									
Sodium				420			222		
Sodium, Dissolved									
Sulfate				660			380		
Total Dissolved Solids				2750			1680		

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW056SA	MW056SA	MW056SA	MW057SA	MW057SA	MW057SA	MW062A	MW062A
Sample Collection Date	1/7/2003	3/17/2003	5/21/2003	1/28/2003	3/12/2003	5/20/2003	1/14/2003	3/6/2003
Alkalinity	476			282			197	
Arsenic	<0.05			<0.05			<0.05	
Arsenic, Dissolved								
Barium	0.3			<0.05			<0.05	
Barium, Dissolved								
Bicarbonate	476			282			197	
Cadmium	<0.05			<0.05			<0.05	
Cadmium, Dissolved								
Calcium	331			243			39.5	
Calcium, Dissolved								
Carbonate (CO3)	<5			<5			<5	
Chloride	1300	200	1300	610	1300	320	70	63
Lead	<0.05			<0.05			<0.05	
Lead, Dissolved								
Magnesium	120			105			24.1	
Magnesium, Dissolved								
Manganese								
Manganese, Dissolved								
Mercury	<0.0002			<0.0002			0.0004	
Mercury, Dissolved								
Potassium	15.4			9.4			5.1	
Potassium, Dissolved								
Selenium	<0.05			<0.05			<0.05	
Selenium, Dissolved								
Silver	<0.05			<0.05			<0.05	
Silver, Dissolved								
Sodium	745			313			89.2	
Sodium, Dissolved								
Sulfate	700			450			90	
Total Dissolved Solids	3500			2020			520	

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW063A	MW063A	MW063A	MW064SA	MW064SA	MW064SA	MW065SA	MW065SA	MW065SA
Sample Collection Date	1/13/2003	3/6/2003	5/22/2003	2/26/2003	3/24/2003	5/20/2003	2/27/2003	3/25/2003	5/20/2003
Alkalinity	198			246			234		
Arsenic	<0.05			<0.05			<0.05		
Arsenic, Dissolved									
Barium	<0.05			0.07			0.07		
Barium, Dissolved									
Bicarbonate	198			246			234		
Cadmium	<0.05			<0.05			<0.05		
Cadmium, Dissolved									
Calcium	31.9			308			398		
Calcium, Dissolved									
Carbonate (CO3)	<5			<5			<5		
Chloride	55	53	50	1400	1150	1300	1300	1190	1200
Lead	<0.05			<0.05			<0.05		
Lead, Dissolved									
Magnesium	19.9			142			177		
Magnesium, Dissolved									
Manganese									
Manganese, Dissolved									
Mercury	<0.0002			<0.0002			<0.0002		
Mercury, Dissolved									
Potassium	4.3			11			11		
Potassium, Dissolved									
Selenium	<0.05			<0.05			<0.05		
Selenium, Dissolved									
Silver	<0.05			<0.05			<0.05		
Silver, Dissolved									
Sodium	87.9			576			348		
Sodium, Dissolved									
Sulfate	90			600			400		
Total Dissolved Solids	490			3100			2880		

Table 6
 Deep Groundwater Quality and Metals Analytical Results
 ChevronTexaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	MW066SA	MW066SA	MW066SA	MW066SA	MW067SA	MW067SA	MW067SA	MW070A	MW070A
Sample Collection Date	3/3/2003	3/25/2003	5/20/2003	5/20/2003	3/25/2003	5/20/2003	3/25/2003	3/25/2003	3/25/2003
Alkalinity	234				278			209	
Arsenic	<0.05				<0.05			<0.05	
Arsenic, Dissolved									
Barium	0.17				0.13			0.06	
Barium, Dissolved									
Bicarbonate	234				278			209	
Cadmium	<0.05				<0.05			<0.05	
Cadmium, Dissolved									
Calcium	570				171			41.1	
Calcium, Dissolved									
Carbonate (CO3)	<5				<5			<5	
Chloride	1600	1500	1500	1600	340	350	480	53	47
Lead	<0.05				<0.05			<0.05	
Lead, Dissolved									
Magnesium	219				57.5			19.7	
Magnesium, Dissolved									
Manganese									
Manganese, Dissolved									
Mercury	<0.0002				<0.0002			<0.0002	
Mercury, Dissolved									
Potassium	14.4				9.7			5	
Potassium, Dissolved									
Selenium	<0.05				<0.05			<0.05	
Selenium, Dissolved									
Silver	<0.05				<0.05			<0.05	
Silver, Dissolved									
Sodium	420				318			95.2	
Sodium, Dissolved									
Sulfate	600				300			100	
Total Dissolved Solids	3640				1350			490	

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	MW070A	MW071SA	MW071SA	MW071SA	MW072SA	MW073SA	MW073SA	MW073SA	RW001	RW001
Sample Collection Date	5/29/2003	5/1/2003	5/20/2003	5/1/2003	5/20/2003	4/30/2003	5/20/2003	5/20/2003	2/17/1999	2/18/1999
Alkalinity		238		273		310				
Arsenic		<0.05		<0.05		<0.05				
Arsenic, Dissolved										
Barium		0.06		<0.05		<0.05				
Barium, Dissolved										
Bicarbonate		238		273		310			219	221
Cadmium		<0.05		<0.05		<0.05				
Cadmium, Dissolved										
Calcium		170		132		111			434	415
Calcium, Dissolved										
Carbonate (CO3)		<5		<5		<5			<0	<0
Chloride	47	860	750	590	550	370	490		910	920
Lead		<0.05		<0.05		<0.05				
Lead, Dissolved										
Magnesium		95.5		66.8		53			140	140
Magnesium, Dissolved										
Manganese										
Manganese, Dissolved										
Mercury		<0.0002		<0.0002		<0.0002				
Mercury, Dissolved										
Potassium		6.7		7.3		7.6			18	13
Potassium, Dissolved										
Selenium		<0.05		<0.05		<0.05				
Selenium, Dissolved										
Silver		<0.05		<0.05		<0.05				
Silver, Dissolved										
Sodium		205		268		184			644	602
Sodium, Dissolved										
Sulfate		350		530		149			1400	1400
Total Dissolved Solids		1720		1690		1220			3600	3700

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	RW001	RW001	RW001	RW001	RW004A	RW004A	RW004A	RW004A	BlackWW	CriswellWW	EPWW1
Sample Collection Date	2/18/1999	5/29/2001	5/29/2001	5/29/2001	10/1/2001	2/4/2002	9/18/2002	4/17/2001	5/30/2001	6/14/1996	
Alkalinity						124					
Arsenic		<0.05	<0.05	<0.05				<0.05	<0.05	<0.1	
Arsenic, Dissolved											
Barium		<0.05	<0.05	<0.05				<0.05	0.16	<0.2	
Barium, Dissolved											
Bicarbonate	214	215	213	213	215	124		197	229	340	
Cadmium		<0.05	<0.05	<0.05				<0.05	<0.05	<0.02	
Cadmium, Dissolved											
Calcium	411	513	620	620		460		80.1	854	268	
Calcium, Dissolved					280						
Carbonate (CO3)	<0	<5	<5	<5	<5	<5		<5	<5	<10	
Chloride	1000	1100	1100	1100	1120	1100	860	220	5000	782	
Lead		<0.05	<0.05	<0.05		<0.005		<0.05	<0.05	<0.1	
Lead, Dissolved											
Magnesium	142	124	127	127		193		38.6	232	142	
Magnesium, Dissolved					135						
Manganese						<0.05					
Manganese, Dissolved						<0.05					
Mercury		<0.002	<0.002	<0.002				<0.002	<0.002	<0.001	
Mercury, Dissolved											
Potassium	13	10.2	10.5	10.5		14		5.1	19.3	12.4	
Potassium, Dissolved					<100						
Selenium		<0.05	<0.05	<0.05				<0.05	<0.05	<0.1	
Selenium, Dissolved											
Silver		<0.05	<0.05	<0.05				<0.05	<0.05	<0.01	
Silver, Dissolved											
Sodium	598	698	757	757		750		114	2290	393	
Sodium, Dissolved					420						
Sulfate	1300	1820	1790	1790	1400	1900		170	190	913	
Total Dissolved Solids	3700	4690	4650	4650	2000	4250		930	12600		

Station Name	EPWW1	EPWW1	EPWW1	EPWW1	EPWW1	EPWW1	EPWW1	EPWW1	EPWW1	GOPWW2
Sample Collection Date	4/23/1997	1/20/1999	5/29/2001	1/31/2002	9/18/2002	12/5/2002	3/18/2003	6/5/2003	5/30/2001	
Alkalinity				321						
Arsenic	<0.1		<0.05							<0.05
Arsenic, Dissolved		<0.05								
Barium	<0.2		0.1							0.14
Barium, Dissolved		<0.05								
Bicarbonate		320	328	321						278
Cadmium	<0.02		<0.05							<0.05
Cadmium, Dissolved		<1								
Calcium		294	318	310						204
Calcium, Dissolved										
Carbonate (CO3)		<1	<5	<5						<5
Chloride	800	900	830	790	810	450	840	1000		730
Lead	<0.1		<0.05	<0.005						<0.05
Lead, Dissolved		<0.05								
Magnesium		164	135	151						92.5
Magnesium, Dissolved										
Manganese				0.24						
Manganese, Dissolved				0.27						
Mercury	<0.001		<0.002							<0.002
Mercury, Dissolved		<0.0002								
Potassium		15	10.3	12						7
Potassium, Dissolved										
Selenium	<0.1		<0.05							<0.05
Selenium, Dissolved		<0.1								
Silver	<0.01		<0.05							<0.05
Silver, Dissolved		<0.05								
Sodium		436	375	432						174
Sodium, Dissolved										
Sulfate		740	810	700						141
Total Dissolved Solids	2600	2800	2910	2940						1740

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	GOPWW2	GOPWW2	GOPWW2	LordWW	LordWW	LordWW	LordWW	LordWW	LordWW
Sample Collection Date	12/4/2002	3/27/2003	6/5/2003	9/29/1997	1/19/1999	6/7/2001	2/6/2002	9/10/2002	LordWW
Alkalinity							165		
Arsenic						<0.05			
Arsenic, Dissolved				<0.1	<0.1				
Barium						<0.05			
Barium, Dissolved				<0.1	<1				
Bicarbonate					200	174	165		
Cadmium						<0.05			
Cadmium, Dissolved				<0.02	<0.01				
Calcium					390	348	450		
Calcium, Dissolved									
Carbonate (CO3)					<1	<5	<5		
Chloride	700	790	870	480	800	870	870	170	90
Lead						<0.05	<0.005		
Lead, Dissolved				<0.1	<0.05				
Magnesium					162	147	186		
Magnesium, Dissolved									
Manganese							0.1		
Manganese, Dissolved							0.13		
Mercury						<0.002			
Mercury, Dissolved				<0.001	<0.0002				
Potassium					18	10.8	13		
Potassium, Dissolved									
Selenium						<0.05			
Selenium, Dissolved				<0.1	0.11				
Silver						<0.05			
Silver, Dissolved				<0.05	<0.05				
Sodium					502	409	487		
Sodium, Dissolved									
Sulfate					1300	1400	1400		
Total Dissolved Solids				2200	3100	3620	3530		

Table 6
Deep Groundwater Quality and Metals Analytical Results
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	LordWW	LordWW	RowlandWW	RowlandWW	RowlandWW	RowlandWW	RowlandWW	RowlandWW	RowlandWW
Sample Collection Date	3/20/2003	6/5/2003	1/19/1999	5/30/2001	2/7/2002	9/23/2002	12/4/2002	3/27/2003	6/5/2003
Alkalinity					239				
Arsenic				<0.05					
Arsenic, Dissolved			<0.1						
Barium				<0.05					
Barium, Dissolved			<1.						
Bicarbonate			240	243	239				
Cadmium				<0.05					
Cadmium, Dissolved			<0.01						
Calcium			243	286	280				
Calcium, Dissolved									
Carbonate (CO3)			<1	<5	<5				
Chloride	130	240	920	790	920	890	790	830	420
Lead				<0.05	0.011				
Lead, Dissolved			<0.05						
Magnesium			97	82.4	104				
Magnesium, Dissolved									
Manganese					<0.05				
Manganese, Dissolved					<0.05				
Mercury				<0.002					
Mercury, Dissolved			<0.0002						
Potassium			14	8.3	11				
Potassium, Dissolved									
Selenium				<0.05					
Selenium, Dissolved			<0.05						
Silver				<0.05					
Silver, Dissolved			<0.05						
Sodium			392	339	433				
Sodium, Dissolved									
Sulfate			460	540	600				
Total Dissolved Solids			2300	2500	2420				

Table 6
 Deep Groundwater Quality and Metals Analytical Results
 Chevron Texaco Eunice #2 (North) Gas Plant
 Eunice, Lea County, New Mexico
 (mg/L)

Station Name	WoodellWW	WoodellWW	WoodellWW	WoodellWW	WoodellWW
Sample Collection Date	4/17/2001	5/23/2001	12/4/2002	3/26/2003	5/22/2003
Alkalinity					
Arsenic	<0.05	<0.05			
Arsenic, Dissolved					
Barium	<0.05	<0.05			
Barium, Dissolved					
Bicarbonate	222	231			
Cadmium	<0.05	<0.05			
Cadmium, Dissolved					
Calcium	156	125			
Calcium, Dissolved					
Carbonate (CO3)	<5	<5			
Chloride	600	420	700	530	410
Lead	<0.05	<0.05			
Lead, Dissolved					
Magnesium	60.3	59.1			
Magnesium, Dissolved					
Manganese					
Manganese, Dissolved					
Mercury	<0.002	<0.002			
Mercury, Dissolved					
Potassium	6.1	6.2			
Potassium, Dissolved					
Selenium	<0.05	<0.05			
Selenium, Dissolved					
Silver	<0.05	<0.05			
Silver, Dissolved					
Sodium	170	171			
Sodium, Dissolved					
Sulfate	320	320			
Total Dissolved Solids	1400	1400			

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW001	5/30/01		5	2.6	-143	7.11	3.2			21.7	
MW001	2/7/02		0.5	0.8	-9	6		0		20.3	
MW001	9/23/02		0.92	1	75	7.16	3.77	0		24.35	7.67
MW001	1/8/03	4.4	0.4	0.8	212	6.91	3.89	0	2.5	18.96	
MW001	3/27/03	26.2	2	0.8	171	6.71	3.09	0	2	21.84	
MW001	6/5/03	4.7	0.39	0.8	-253	8.31	3.95	0		23.88	
MW002	5/22/01		6.4	0	120	5.05	0.98			21	
MW002	1/24/02		2.5	0	162	5.98	2.3	0		17.9	
MW002	9/16/02		5.09	0	221	7.1	2.56	0		21.83	2.61
MW002	12/18/02	36.4	3.19	0	187	6.44	2.83	0	1.8	19.94	
MW002	3/13/03	52.2	4.6	0	87	6.76	2.38	0	1.5	21.25	
MW002	5/28/03	73.7	6.21	0	-93	7.31	2.12	0	1.4	23.56	
MW002A	12/9/02			0		7.4	1.94	0		21.9	
MW002A	3/12/03	7.9	0.69	0	82	6.02	2.56	0	1.6	21.52	
MW002A	5/28/03	5.8	0.49	0.4	-167	6.99	2.67	0	1.7	23.19	
MW003	5/24/01		2.6	0.4	221	5.3	0.258			20.7	
MW003	1/30/02		5.1	0	183	5.79	5.2	0		18	
MW003	9/18/02		1.72	0	116	6.72	5.38	0		23.1	5.01
MW003	1/6/03	11.8	1.13	0	241	5.46	4.3	0	2.8	16.57	
MW003	3/19/03	10.7	0.99	0	5	6.96	5.3	0	3.4	17.89	
MW003	6/4/03	23.3	1.97	0	243	6.82	4.44	0	2.8	22.82	
MW004	5/24/01		3.4	0	74	6.85	0.496			25.67	
MW004	1/28/02		2.6	0	177	7	6.0	0		21.9	
MW004	9/18/02		0.94	0	194	7.02	4.19	0		25.82	1.43
MW004	12/30/02	10.5	1.01	0	190	6.64	4.26	0	2.7	16.64	
MW004	3/18/03	4.7	0.43	0	-13	6.1	3.57	0	2.3	19.44	
MW004	6/4/03	15.8	1.35	0	-154	8.01	4.07	0		22.36	
MW004A	5/23/01		6.1	0	107	6.42	0.234			21.39	
MW004A	1/28/02		6.3	0	215	6.3	2.7	0		20.4	
MW004A	9/17/02		3.93	0	179	7.39	2.47	0		22.49	1.71
MW004A	12/30/02	57.2	5.36	0	181	7.25	2.52		1.6	18.06	
MW004A	3/13/03	54.5	4.72		262	6.15	2.09		1.3	21.21	
MW004A	6/4/03	42.3	3.77		-126	8.64	2.6			20.48	
MW005	2/11/02		7.6	7	202	6.14	2.9	0		15.8	
MW006	2/11/02		8	1.6	212	6.35	3.0	0		14.8	
MW007	5/24/01		4.3	0	78	6.82	0.418			22.4	
MW007	1/30/02		6.5	0	201	5.67	3.4	0		15.5	
MW007	9/12/02		3.85	0	190	6.95	3.86	0		26.07	10.4
MW007	12/19/02	53.3	5.23		166	6.15	3.22		2.1	15.65	
MW007	3/13/03	29.1	2.47		114	5.56	2.68		1.7	23.14	
MW007	6/3/03	40.9	3.57		-92	8.13	3.16			21.26	

Table 7
Field Parameters Summary
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW007A	5/23/01		4.7		86	6.66	0.157			21.01	
MW007A	1/29/02		7	0	171	5.81	2.3	0		18.4	
MW007A	9/17/02		2.36	0	171	7.26	2.66	0		22.72	3.19
MW007A	12/30/02	33.8	3.16		187	6.94	2.84		1.8	18.08	
MW007A	3/17/03	17.5	1.61		145	5.74	2.64		1.7	18.93	
MW007A	6/3/03	25.2	2.24		-151	8.32	3.18			20.19	
MW008	5/31/01		4.4	0	58	7.73	2.73			19.29	
MW008	8/29/01		6.5	0	111	7.04	3.0			22.3	0.9
MW008	9/27/01					7.37	1.53			23.5	23.6
MW008	2/4/02		7.3	0	203	6	5.8	0		17.1	
MW008	9/18/02		3.97	0	175	6.54	6.51	0		24.15	
MW008	1/6/03	36.3	3.29		247	5.67	5.82		3.7	18.39	
MW008	3/26/03	40.5	3.53		205	6.88	5.65		3.6	21	
MW008	6/5/03	29.5	2.66		-262	8.46	6.78			19.18	
MW008M	10/1/01					7.4	1.443			21.1	
MW008M	2/4/02		6	0	189	5.9	7.0	0		17.1	
MW008A	5/29/01		1.4	0	192	7.29	6.3			24.9	
MW008A	8/29/01		2.5	0	141	6.67	6.4			21.1	1.2
MW008A	2/4/02		0.9	0	225	5.5	6.7	0		16.5	
MW008A	9/18/02		0.96	0	138	7.31	6.32	0		24.59	
MW008A	1/6/03	14.3	1.34		207	7.01	6.23		4	17.26	
MW008A	3/26/03	6.3	0.54		-81	6.96	5.34		3.4	22.02	
MW008A	6/5/03	12.3	1.08		-291	8.46	6.39			20.66	
MW009	5/31/01		6.9	0	241	7.25	3.9			19.1	
MW009	1/29/02		8.1	0	130	6.69	3.8	0		17.6	
MW009	9/17/02		3.81	0	205	7.17	4.05	0		20.91	75.1
MW009	12/19/02	38.2	3.56	0	166	6.88	3.96	0	2.5	18.06	
MW009	3/13/03	36	3.11	0	266	5.81	2.94	0	1.9	22.07	
MW009	6/4/03	36	3.09		-108	8.29	3.81			22.23	
MW009A	5/24/01		6.4	0	236	7.02	4.8			20.5	
MW009A	9/27/01					7.5	1.391			23.1	2
MW009A	1/28/02		6.9	0	172	6.2	4.8	0		19	
MW009A	9/18/02		3.33	0	151	7.31	4.56	0		21.78	
MW009A	1/6/03	4.7	0.45		240	5.23	4.63		3	16.56	
MW009A	3/20/03	24.6	2.25		21	7.25	4.32		2.8	18.87	
MW009A	6/4/03	27.3	2.29		-305	7.74	5.02			23.3	
MW010	5/24/01		7.3	0	201	6.05	7.4			19.8	
MW010	1/29/02		8	0	160	5.98	6.9	0		20	
MW010	9/17/02		5.94	0	176	7.35	7	0		23.79	

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%-Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW010	12/30/02	53.6	4.79		184	6.76	7.62		4.9	19.46	
MW010	3/17/03	56.6	4.99		257	6.16	6.89		4.4	20.26	
MW010	6/2/03	60.3	5.16		255	6.62	6.69		4.3	21.84	
MW011	5/31/01		1.6	0	46	7.89	2.71			20.91	
MW011	8/30/01		3.7	0	125	6.9	6.7			22.7	16.8
MW011	1/31/02		5.3	0	194	5.78	7.0	0		18	
MW011	9/19/02		0.99	0	197	7.22	6.48	0		20.65	11.3
MW011	1/7/03	11.8	1.11		239	5.71	6.14		3.9	17.21	
MW011	3/26/03	5.6	0.5		175	5.82	5.41		3.5	20.1	
MW011	6/2/03	10.6	0.88		-373	8.23	6.66			22.84	
MW011M	10/1/01					7.42	1.382			296	39
MW011M	2/4/02		6.8	0	164	6.7	6.5	0		17.1	
MW011A	5/22/01		5.3	0	90	5.5	0.133			21.02	
MW011A	1/28/02		9.4	0	214	5.76	1.5	0		18.3	
MW011A	9/12/02		4.89	0	187	6.99	2.3	0		23.36	21.4
MW011A	12/26/02	33.4	3.15		165	6.88	2.13		1.4	17.81	
MW011A	3/18/03	33.3	3.11		230	5.89	1.8		1.1	18.45	
MW011A	6/2/03	29.6	2.5		-256	7.98	2.45			23.51	
MW012	5/30/01		5.6	0	221	7.4	5.4			22.2	
MW012	8/27/01		6.5	0	112	7.14	5.4			23.5	
MW012	1/31/02		6.8	0	210	6.19	5.1	0		16.1	
MW012	9/18/02		5.93	0	163	7.56	5	0		24.18	
MW012	1/6/03	16.2	1.49		254	5.37	3.76		2.4	18.68	
MW012	3/26/03	59.2	5.4		-24	7.3	4.23		2.7	19.03	
MW012	6/3/03	45.4	3.86		266	5.84	3.29		2.1	22.89	
MW012A	5/22/01		5	0	118	4.92	0.085			22.24	
MW012A	1/28/02		5.4	0	200	6.24	0.8	0		20.2	
MW012A	9/5/02		3.74	0	107	6.1	0.912	0		23.9	1.8
MW012A	12/19/02	3.7	0.35		195	6.26	0.925		0.6	18.12	
MW012A	3/3/03	6.9	0.64		302	5.65	1.017		0.7	18.46	
MW012A	5/21/03	25	2.31		298	6.13	1.071		0.7	18.81	
MW012M	2/4/02		1.8	0	154	6.59	3.2	0		16.8	
MW013	5/23/01		6.3	0	140	6.92	7			21.5	
MW013	8/27/01		5.2	0	147	6.73	6.7			21.2	
MW013	1/29/02		5.8	0	182	5.62	6.1	0		20.6	
MW013	9/17/02		4.62	0	165	7.05	5.56	0		23.68	
MW013	12/19/02	22.6	1.99		225	6.01	5.65		3.6	19.33	
MW013	3/18/03	8.4	0.75		263	5.25	4.65		3	19.69	
MW013	6/3/03	32.7	2.65		-106	7.91	5.46			24.85	
MW013A	5/22/01		6.3	0	280	7.2	1			21.1	
MW013A	1/28/02		3.3	0	128	6.93	1.3	0		17.5	
MW013A	9/5/02		1.27	0	107	7.8	1.15	0		2.13	0.52

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%-Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW013A	12/19/02	13.5	1.24		150	6.91	1.033		0.7	17.84	
MW013A	3/12/03	21.3	1.9		242	5.47	1.003		0.6	20.42	
MW013A	5/28/03	17	1.52		185	6.94	0.916		0.6	20.76	
MW014	5/24/01		0.5	0	205	6.03	8			20.9	
MW014	8/27/01		1.3	0	115	6.76	7.7			22	
MW014	1/30/02		4.6	0	180	5.86	8.1	0		17.4	
MW014	9/17/02		1.14	0	162	7.1	6.98	0		24.91	
MW014	1/2/03	5.5	0.49		178	5.93	6.86		4.4	19.08	
MW014	3/18/03	7	0.63		232	6.16	6.03		3.9	19.52	
MW014	6/3/03	5.5	0.45		280	6.2	5.83		3.7	23.66	
MW014A	5/23/01		7	0	184	7.55	0.84			22.5	
MW014A	1/24/02		3.9	0	190	6.85	0.80	0		18	
MW014A	9/5/02		2.95	0	111	8.32	0.898	0		22.46	0.92
MW014A	12/19/02	21.2	1.91		215	6.04	0.866		0.6	18.99	
MW014A	3/10/03	33.4	2.98		78	6.09	0.957		0.6	20.72	
MW014A	5/21/03	38.3	3.54		292	6.07	0.816		0.5	19.24	
MW015	5/17/01		5.9	0	114	5.61	4.32			21.2	
MW015	1/22/02		5.3	0	232	5.52	11.0	0		17.9	
MW015	9/4/02		3.17	0	233	6.12	10.1	0		21.08	
MW015	12/11/02	46.6	4.18		136	5.96	9.82		6.3	18.76	
MW015	3/11/03	6	0.52		261	5.35	10.14		6.5	20.61	
MW015	5/29/03	39.3	3.3		170	6.05	7.96		5.1	22.6	
MW015A	5/17/01		3.9	0	115	7.52	1.51			25.3	
MW015A	1/22/02		4.7	0	179	6.68	1.9	0		19.2	
MW015A	9/4/02		2.17	0	206	6.53	2.04	0		22.48	
MW015A	12/11/02	15.3	1.37		181	6.04	1.87		1.2	20.54	
MW015A	3/3/03	2.1	0.19		272	5.6	1.99		1.3	21	
MW015A	5/21/03	3.7	0.35		288	5.75	1.79		1.1	17.97	
MW016A	5/17/01		7.04	0	166	6.64	1.6			22.6	
MW016A	1/22/02		8.8	0	225	5.51	1.6	0		19.8	
MW016A	9/4/02		5.19	0	172	7.08	1.76	0		21.89	
MW016A	12/12/02	49.7	5.06		125	7.04	1.62		1	14.29	
MW016A	3/4/03	41.5	3.85		249	5.92	1.6		1	18.69	
MW016A	5/21/03	53.1	4.86		272	6.87	1.56		1	19.5	
MW017A	5/17/01		5.6	0	57	4.08	0.091			23.44	
MW017A	1/23/02		7.2	0	137	6.29	0.82	0		19	

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%-Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW017A	9/4/02		4.07	0	190	5.95	1.06	0		21.73	
MW017A	12/12/02	31	3.01		171	6.07	1.216		0.8	18.44	
MW017A	3/4/03	45.1	4.11		216	6.61	1.267		0.8	19.63	
MW017A	5/21/03	42	3.73		-1	6.94	1.094		0.7	20.92	
MW018	5/17/01		8.08	0	161	7.48	2.16			22.7	
MW018	1/23/02		7.7	0	173	5.97	2.2	0		18.9	
MW018	9/4/02		7.3	0	179	7.05	1.8	0		20.95	
MW018	12/12/02	70.5	6.63		188	7.13	1.69		1.1	18.01	
MW018	3/4/03	67.8	6.11		228	6.78	1.47		0.9	20.15	
MW018	5/27/03	67	6.15		-182	7.95	1.61		1	19.22	
MW018A	5/17/01		7.6	0	102	5.08	0.196			24.13	
MW018A	1/23/02		9.1	0	163	5.78	2.0	0		19	
MW018A	9/4/02		3.8	0	260	6.01	2.25	0		21.45	
MW018A	12/16/02	12	1.12		272	5.52	2.07		1.3	18.17	
MW018A	3/4/03	42	3.85		214	6.39	2.53		1.6	19.1	
MW018A	5/27/03	67	1.69		-188	7.2	1.98		1.3	19.66	
MW019A	5/17/01		7.3	0	136	7.53	4.38			23.1	
MW019A	1/23/02		7.1	0	177	5.43	2.3	0		18.7	
MW019A	9/5/02		5.81	0	212	6.46	2.11	0		20.7	1.87
MW019A	12/2/02	61.5	5.44	0	230	6.94	1.98	0	1.3	20.97	
MW019A	3/11/03	46.3	4.11		258	5.7	2		1.3	20.8	
MW019A	5/27/03	67	5.72		-170	8.01	1.82		1.2	20.15	
MW020	6/7/01		6.7	0	141	6.98	3.3			22.3	
MW020	2/6/02		5.1	0	202	6.11	2.9	0		18	
MW020	9/9/02		3.96	0	219	7.22	2.82	0		23.85	30
MW020	12/9/02	40.6	4.26		127	5.9	2.78		1.8	12.75	
MW020	3/6/03	43.9	3.91		237	5.88	2.84		1.8	20.34	
MW020	6/5/03	67	3.75		-220	8.03	3.01			21.13	
MW020A	6/7/01		7.4	0	131	7.28	2.3			22.6	
MW020A	2/6/02		6.8	0	199	6.33	2.2	0		15.6	
MW020A	9/9/02		5.83	0	222	7.41	2.05	0		22.88	11
MW020A	12/9/02	63.5	6.38		260	7.31	2.11		1.4	14.81	
MW020A	3/6/03	45.4	4.03		192	5.73	2.09		1.3	20.77	
MW020A	6/5/03	67	4.05		-209	8.12	2.22			22.09	
MW021	5/18/01		4.8	0	102	4.54	0.403			21.17	
MW021	1/23/02		1	0	180	5.16	3.8	0		19.4	
MW021	9/5/02		0.17	0	202	5.99	3	0		23.5	3
MW021	12/11/02	10	0.93	0	79	6.87	3.11	0	2	18.61	
MW021	3/5/03	12.7	1.21	0	215	7.02	3.02	0	1.9	16.49	

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW021	5/21/03	67	1.54	0.1	291	6.99	2.49	0	1.6	21.49	
MW021A	5/23/01		1.3	0	144	6.72	20	0		20.9	
MW021A	1/24/02		5.8	0	164	5.98	18.0	0		17.2	
MW021A	9/5/02		0.77	0	188	6.71	17.1	0		22.41	22
MW021A	12/11/02	5.4	0.49		4	6.53	18.6		11.9	16.44	
MW021A	3/11/03	4.5	0.39		263	5.55	17.3		11.1	19.78	
MW021A	5/21/03	67	0.5		98	6.72	15.5		9.9	21.43	
MW022A	5/23/01		2.5		73	7.93	0.367			24.92	
MW022A	1/24/02		1.3	0	222	6.33	2.7	0		17.2	
MW022A	9/5/02		1.83	0	185	6.25	2.14	0		25	14
MW022A	12/16/02	5.3	0.46		246	5.4	2.55		1.6	20.9	
MW022A	3/12/03	6.7	0.57		275	5.46	2.89		1.9	22.57	
MW022A	5/29/03	67	0.92		166	6.16	2.15		1.4	23.3	
MW023	5/29/01		4.8	0	82	7.5	0.58			22.06	
MW023	8/30/01		6.6	0	137	6.96	5.7			22.4	4.5
MW023	9/27/01					7.2	1.531			20.6	47
MW023	2/7/02		5.5	0	182	6.27	6.3	0		18.5	
MW023	9/18/02		5.04	0	193	6.08	5.74	0		22.84	
MW023	12/16/02	63.7	5.68		245	6.8	6.04		3.9	19.66	
MW023	3/26/03	70.1	6.28		-25	7.12	5.1		3.3	19.49	
MW023	5/28/03	67	5.41		-177	7.41	5.46		3.5	22.95	
MW023A	1/9/03		3.85	0.1	157	7.51	0.835	0		22.15	
MW023A	3/11/03	34	3.22	0.2	177	7.4	0.733	0	0.5	17.86	
MW023A	5/28/03	67	0.64		-110	6.78	0.757		0.5	21.48	
MW024	1/9/02		3.1	0.1	174	7.14	2.04	0		20.02	
MW024	3/12/03	39.7	3.56	0	75	6.79	1.72	0	1.1	20.36	
MW024	5/28/03	67	2.91	0.3	218	6.44	1.6	0	1	21.4	
MW024A	5/23/01		5.5	0	245	6.9	2			19.5	
MW024A	2/6/02		4.2	0	190	6.01	1.8	0		17.6	
MW024A	9/10/02		2.94	0	198	6.75	2.25	0		22.34	7.06
MW024A	12/17/02	51.2	4.47		204	7.11	2.59		1.7	21.57	
MW024A	3/17/03	46	4.11		234	6.95	2.61		1.7	20.39	
MW024A	5/28/03	67	3.51		204	6.53	2.77		1.8	22.38	
MW025	5/29/01		4.8	0	80	6.84	0.458			23.08	
MW025	8/27/01		6.1	0	110	6.87	2.0			22.1	
MW025	9/27/01					7.31	1.226			21.5	20.5
MW025	1/31/02		8	0	193	6.94	4.1	0		17.8	
MW025	9/17/02		4.63	0	157	7	4.23	0		23.89	
MW025	1/2/03	25.9	2.45		188	6.06	1.53		1	17.61	

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%-Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW025	3/11/03	29.2	2.66		123	6.86	2.35		1.5	20.36	
MW025	5/29/03	67	4.02		153	6.8	2.14		1.4	23.8	
MW026	5/18/01		6.55	0	199	6.64	3.35			20.8	
MW026	1/22/02		6.1	0	189	5.15	3.5	0		19.2	
MW026	9/4/02		4.8	0	159	6.85	3.09	0		23.55	15
MW026	12/17/02	57	5.05		198	6.9	3.31		2.1	20.44	
MW026	3/11/03	56.2	4.92		135	6.62	2.86		1.8	21.43	
MW026	5/27/03	67	5.89		237	6.59	2.61		1.7	21.18	
MW027	5/18/01		6.94	0	180	6.64	2			22.1	
MW027	1/24/02		0.6	0	258	4.83	2.0	0		15.6	
MW027	9/4/02		4.82	0	160	7.03	1.97	0		22.88	15
MW027	12/17/02	71.2	6.29		208	7	2.13		1.4	21.09	
MW027	3/11/03	49	4.47		283	5.72	2.26		1.5	19.36	
MW027	5/22/03	67	5.75		193	6.87	2.09		1.3	19.6	
MW028	5/22/01		2.1	0	273	6.23	5.4			19.8	
MW028	1/24/02		5.5	0	124	6.84	4.7	0		16	
MW028	9/4/02		0.61	0	157	7	4.81	0		23.65	28
MW028	12/18/02	15	1.41		158	7.16	4.45		2.8	17.53	
MW028	3/10/03	17.1	1.56		244	7.26	4.49		2.9	19.06	
MW028	5/22/03	67	1.57		164	7.22	3.57		2.3	19.2	
MW029	5/18/01		6.8	0	113	4.41	0.129			22.29	
MW029	2/6/02		7.8	0	203	6.01	2.0	0		18.8	
MW029	9/9/02		4.92	0	185	7.36	1.2	0		23.52	89
MW029	12/18/02	46.7	4.38		189	5.79	1.199		0.8	18.03	
MW029	3/10/03	27.5	2.42		253	5.97	1.52		1	20.78	
MW029	5/27/03	67	6.6		-125	7.9	1.178		0.8	20.36	
MW030	4/24/02		4.6	0	188	4.32	0.728	0		29.2	
MW030	9/9/02		2.75	0	180	7.31	1.56	0		23.3	13
MW030	12/18/02	24.8	2.31		219	5.78	1.4		0.9	18.46	
MW030	3/10/03	39.2	3.45		277	5.95	1.48		1	21.44	
MW030	5/27/03	67	2.81		-132	6.96	1.339		0.9	21.2	
MW031	4/25/02			0		5.27	0.681	0		14.9	
MW031	9/10/02		0.82	0	24	8	1.65	0		23.24	27.4
MW031	12/18/02	5.4	0.51		184	6.92	1.56		1	17.98	
MW031	3/10/03		0.47		84	5.92	1.397			20	
MW031	5/28/03	67	3.64		-184	7.58	1.418		0.9	20.18	
MW032	4/2/02		6.3	0	143	6.17	1.8	0		19.9	
MW032	9/4/02		0.47	0	144	6.96	2.2	0		24.85	15
MW032	12/18/02	14.9	1.34	0	154	7.14	2.48	0	1.6	18.95	

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%-Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW032	3/10/03	11.4	1.02		-5	6.86	2.12		1.4	20.54	
MW032	5/22/03	67	1.71		177	5.81	1.98		1.3	20.24	
MW033	4/3/02		3.3	0.5	-60	5.98	3.3	0		19.4	
MW033	9/23/02		1.6	1	-170	7.26	3.53	0.424		24.06	20.6
MW033	1/8/03	2.6	0.23	0.6	-304	7.09	3.44	0.55	2.2	20.98	
MW033	3/27/03	5.4	0.46	0.25	-238	6.79	2.91	1.75	1.9	22.15	
MW033	6/5/03	67	0.22	0.4	-77	6.13	2.65	>2.25	1.7	23.47	
MW034	4/3/02		5.3	0	151	6.38	3.5	0		17.2	
MW034	9/17/02		2.35	0	161	7.43	3.48	0		22.1	30
MW034	12/5/02	21.6	2.09	0	165	6.98	3.51	0	2.3	16.49	
MW034	3/18/03	20.7	1.87	0	-1	6.89	3.17	0	2	19.67	
MW034	6/2/03	67	2.13	0.2	250	6.31	2.97	0.1	1.9	25.18	
MW035	8/30/01		6	0	112	7.06	1.0			20.9	
MW035	1/29/02		1	0	147	6.91	2.4	0		20.5	
MW035	9/12/02		3.33	0	192	7.19	1.96	0		24.77	24.4
MW035	12/19/02	47.8	5.21	0	162	6.44	0.934	0	0.6	11.38	
MW035	3/5/03	36.1	3.28	0	218	6.23	1.233	0	0.8	19.73	
MW035	5/27/03	67	2.37	0.2	261	6.35	1.263	0.1	0.8	23.73	
MW036	8/27/01		2	0	39	6.64	1.7			24.4	
MW036	2/7/02		5.3	1.5	-23	6.38	1.9	0		19.7	
MW036	9/19/02		0.75	2	-50	7.99	4.04	0		22.53	
MW036	1/7/03	3.5	0.31	0	145	5.97	2.53	0	1.6	19.13	
MW036	3/26/03	16.8	1.47	2.25	-156	6.7	2.98	0	1.9	21.38	
MW036	6/5/03	67	0.26	2.2	55	6.59	2.47	0	1.6	21.87	
MW037	8/29/01		3.2	1	-70	7.13	3.7			23	
MW037	2/7/02		5.2	4	-190	6.36	3.6	0		19.2	
MW037	9/19/02		0.55	3.2	-106	8.39	2.91	0		21.97	
MW037	1/8/03	9.5	0.85	<0.1	-19	7.18	2.52	0	1.6	20.42	
MW037	3/27/03	25.3	2.25	4	-107	7.28	2.11	0.25	1.4	20.84	
MW037	6/5/03	67	0.56	5.2	-67	6.93	2.06	0.06	1.3	22.9	
MW038	8/29/01		6.1	0	399	6.91	1.7			22.6	17.3
MW038	2/7/02		6.4	1	14	6.19	1.8	0		20.4	
MW038	9/19/02		1.81	6.2	-97	7.41	1.74	0		23.05	5.01
MW038	1/7/03	40.3	3.83	0	34	6.96	1.78	0	1.1	17.45	
MW038	3/19/03	5.9	0.55	0	-55	6.97	1.6	0	1	19.42	
MW038	6/5/03	67	0.25	6	52	6.18	1.475	0	0.9	22.07	
MW039A	8/30/01		6.5	0	114	7.62	0.9			23.1	5.3
MW039A	1/31/02		8.8	0	176	6.42	1.3	0		17.1	
MW039A	9/10/02		4.21	0	174	7.49	1.35	0		25.09	1.61

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW039A	12/26/02	63.4	6.07	0	161	7.43	1.402	0	0.9	17.15	
MW039A	3/17/03	52.7	4.65		220	6.25	1.307		0.8	21.21	
MW039A	6/2/03	67	4.78		243	6.03	1.281		0.8	27.36	
MW040A	4/2/02		5.6	0	143	6.06	0.76	0		19.4	
MW040A	9/5/02		3.22	0	150	7.53	1.06	0		21.83	2.81
MW040A	12/18/02	34.4	3.13		163	7.24	1.027		0.7	18.59	
MW040A	3/11/03	46.7	4.19		155	6.68	0.802		0.5	20.43	
MW040A	5/22/03	67	5.2		164	7.2	0.827		0.5	21	
MW041A	5/20/02		7.3	0	86	6.27	3.6	0		20.4	
MW041A	9/17/02		2.4	0	132	8.15	2.61	0		23.26	30
MW041A	12/5/02	21.6	2.13		163	7.28	2.55		1.6	15.52	
MW041A	3/18/03	10.7	1.01		-45	7.13	2.25		1.4	17.68	
MW041A	6/2/03	67	0.92		237	6.46	2.09		1.3	23.33	
MW042A	8/30/01		5.1	0	158	6.85	19.0			22	7
MW042A	1/29/02		1.4	0	175	7.28	20.0	0		19.5	
MW042A	9/5/02		0.99	0	172	6.96	15.2	0		23	13
MW042A	12/18/02	2.7	0.23		183	6.42	14.7		9.4	18.79	
MW042A	3/12/03	8	0.7		249	5.52	10.65		6.8	19.99	
MW042A	5/28/03	67	0.92		195	6.02	11.16		7.1	22.75	
MW043	4/25/02			0		5.25	1.028	0		11.5	
MW043	9/11/02		1.31	0	195	7.43	3.09	0		22.01	23.5
MW043	12/19/02	3.1	0.28	0	189	6.16	4.1	0	2.6	18.26	
MW043	3/19/03	13.6	1.28	0	-41	6.57	2.3	0	1.5	17.9	
MW043	5/27/03	67	0.51	0.1	223	7.43	2.43	0.2	1.6	22.61	
MW044	4/3/02		3.8	0	174	6.36	5.2	0		18.5	
MW044	9/18/02		0.68	0	188	7	4.83	0		24.68	7.06
MW044	1/2/03	10.9	1	0	207	5.84	3.9	0	2.5	18.62	
MW044	3/17/03	2.9	0.26	0	163	6.6	4.47	0	2.9	19.96	
MW044	6/4/03	67	0.37	0	241	5.98	3.2	0	2	23.45	
MW045	4/4/02		2.7	0.5	144	6.09	2.8	0		19.7	
MW045	9/12/02		4.76		182	7.12	2.71	0		22.58	22.3
MW045	12/19/02	8.4	0.79	0	162	6.41	2.67	0	1.7	17.85	
MW045	3/5/03	14.5	1.3	0	213	6.1	2.77	0	1.8	20.33	
MW045	5/27/03	67	3.44	0.3	240	6.41	2.31	0	1.5	20.01	
MW046	4/4/02		5.3	0	73	6.37	2.4	0		19.7	
MW046	9/19/02		1.03	0	109	8.02	1.91	0		21.22	
MW046	1/7/03	8.3	0.75	0	224	6.36	1.94	0	1.2	19.12	
MW046	3/20/03	15.3	1.45	0	13	7.8	1.84	0	1.2	17.43	
MW046	6/4/03	67	1.05	0	-301	8.25	2.12	0		26.7	

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (% Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW046A	12/9/02					6.87	2.97			22.3	
MW046A	3/13/03	3.4	0.3	0	231	6.72	2.35	0	1.5	21.7	
MW046A	5/29/03	67	0.34	0	-177	7.36	2.64	0	1.7	22.52	
MW047	4/4/02		3.4	0	172	5.99	3.2	0	20.3	20.3	
MW047	9/17/02		0.82	0	201	7.16	4.42	0		25.21	18.5
MW047	1/2/03	15.2	1.45	0	177	7.06	4.11	0	2.6	16.88	
MW047	3/17/03	26.2	2.34	0	262	5.74	2.59	0	1.7	20.33	
MW047	6/2/03	67	2.95	0.1	249	6.27	2.48	0	1.6	24.93	
MW048SA	9/16/02		5.33	0	185	7.37	2.26	0		22.5	89.3
MW048SA	12/4/02	59.5	5.87	<0.1	200	5.95	2.29	0	1.5	15.59	
MW048SA	3/17/03	50.8	4.61	0	261	5.52	1.99	0	1.3	19.75	
MW048SA	6/2/03	67	4.59	0	-312	8.34	2.39	0	NC	20.52	
MW049SA	9/16/02		3.29	0	189	7.02	9.93	0		21.96	105
MW049SA	12/4/02	4	0.37	0	138	6.16	10.11	0	6.5	17.31	
MW049SA	3/13/03	6.4	0.55	ND	102	5.68	9.12	ND	5.8	21.04	
MW049SA	5/28/03	67	1.49	0.3	201	6.01	8.61	0	5.5	22.25	
MW050SA	9/10/02		2.6	0	167	7.22	4.82	0		21.7	28.1
MW050SA	12/5/02	44.9	4.34		210	6.18	3.67		2.3	16.36	
MW050SA	3/12/03	36.8	3.14		253	5.97	5.04		3.2	21.99	
MW050SA	6/2/03	67	1.35		-333	8.15	6.34			22.35	
MW051SA	10/10/02			0		7.1	64.3	0		22.9	
MW051SA	12/3/02	17.1	1.83		229	6.49	6.47		4.1	11.43	
MW051SA	3/19/03	4	0.39		29	5.74	5.86		3.8	16.3	
MW051SA	6/3/03	67	1.47		-116	8.27	6.69			24.17	
MW052SA	10/10/02			0		7.02	60.9	0		22.6	
MW052SA	12/3/02	34	3.44		226	6.48	4.85		3.1	14.03	
MW052SA	3/18/03	39.8	3.57		-25	6.85	4.58		2.9	19.7	
MW052SA	6/2/03	67	2.4		-298	8.25	5.14			24	
MW053SA	9/18/02		4.58	0	194	7.31	1.93	0		22.04	21.8
MW053SA	12/2/02	63.3	5.68	0	233	6.67	2.13	0	1.4	20.24	
MW053SA	3/12/03	53.1	4.76		88	5.89	2.03		1.3	20.36	
MW053SA	5/21/03	67	4.57		-30	7.22	1.92		1.2	21.76	
MW054SA	1/27/03	79.7	7.41	0	170	7.21	4.23	0	2.7	22.07	
MW054SA	3/19/03	25.8	2.41	0	292	5.39	2.66	0	1.7	18.17	
MW054SA	5/21/03	67	6.17		-40	7.69	3.1		2	19.75	
MW055SA	1/6/03		8.4	0.1	145	7.33	3.01	0		20.6	
MW055SA	3/19/03	10.2	0.98	0	284	5.25	2.27	0	1.5	18.21	
MW055SA	5/21/03	67	6.08		-59	7.22	2.46		1.6	18.36	
MW056SA	1/7/03		7.3	0	154	7.21	5.8	0		21.7	

Table 7
Field Parameters Summary
Chevron/Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (% Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW056SA	3/17/03	65.5	6.02	0	113	6.84	1.6	0	1	19.17	
MW056SA	5/21/03	67	4.32		-72	7	4.91		3.1	18.47	
MW057SA	1/28/03	66.3	6.22	0	215	7.1	3.09	0	2	18.69	
MW057SA	3/12/03	32.9	2.98	0	-2	5.93	4.92	0	3.2	19.2	
MW057SA	5/20/03	67	5.96		211	6.27	1.68		1.1	17.92	
MW058	1/28/03	72.4	6.55	0	208	7.33	3.2	0	2	20.79	
MW058	3/19/03	8.4	0.77	0	286	5.09	4.6	0	2.9	18.96	
MW058	6/3/03	67	3.42		-91	8.46	5.38			23.21	
MW059	1/29/03	39.7	5.02	0	201	7.35	2.54	0	1.6	19.28	
MW059	3/20/03	5.9	0.55	0.5	296	5.3	3.46	0	2.2	17.31	
MW059	5/29/03	67	4.59		-127	7.24	4.11		2.6	25.32	
MW060	1/8/03		2.02	0.2	147	7.11	4.11	0		20.41	
MW060	3/24/03	5.3	0.46		293	5.36	4		2.6	21.15	
MW060	5/27/03	67	0.85		282	6.86	4.2		2.7	20.12	
MW061	1/8/03		1.75	0.3	67	7.22	4.38	0		19.99	
MW061	3/24/03	2.9	0.25		284	5.29	5.04		3.2	22	
MW061	6/4/03	67	0.3		228	5.68	4.98		3.2	20.64	
MW062A	1/14/03	52.6	8.2		105	7.6	0.236			19.75	
MW062A	3/6/03	19.6	1.86		216	6.42	0.796		0.5	17.77	
MW062A	5/22/03	67	0.77		214	7.27	0.728		0.5	25.97	
MW063A	1/13/03	81.2	7.22		227	7.71	0.506		0.4	21.31	
MW063A	3/6/03	40.8	3.75		229	6.01	0.821		0.5	19.29	
MW063A	5/22/03	67	1.78		252	6.12	0.758		0.5	22.16	
MW064SA	3/24/03	8.9	0.79		291	5.35	4.29		2.8	20.77	
MW064SA	5/20/03	67	2.44		231	6.42	4.54		2.9	17.58	
MW065SA	3/25/03	40.8	3.82		298	5.47	3.84		2.5	17.63	
MW065SA	5/20/03	67	7.47		234	6.74	3.93		2.5	17.85	
MW066SA	3/25/03	8.4	0.77		279	5.28	4.71		3	19.12	
MW066SA	5/20/03	67	7.33		267	6.92	4.86		3.1	17.36	
MW067SA	3/25/03	24.7	2.23		279	5.78	2.07		1.3	19.75	
MW067SA	5/20/03	67	4.82		-167	7.82	1.97		1.3	18.66	
MW068	3/26/03	9.5	0.68		156	5.87	65.7		42	19.34	
MW068	5/29/03	67	0.68		215	6.43	67.3		43.1	20.97	
MW069	3/25/03	18.7	1.29		250	6.35	57.6		36.9	22.28	
MW069	5/29/03	67	0.3		162	6.55	56.8		36.3	27.18	
MW070	3/25/03	38.6	3.46		265	6.76	0.889		0.6	20.51	
MW070	5/29/03	67	5.42		-152	7.73	0.982		0.6	21.13	
MW070A	3/25/03	44.7	4		286	5.92	0.693		0.4	20.71	
MW070A	5/29/03	67	2.66		-101	7.74	0.782		0.5	22.24	

Table 7
Field Parameters Summary
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station ID	Collection Date	Dissolved Oxygen (%-Sat)	Dissolved Oxygen (mg/L)	Fe (mg/L)	ORP (mV)	pH (su)	Specific Conductance (mS/cm)	Sulfide (mg/L)	TDS (g/L)	Temperature (C)	Turbidity (NTU)
MW071SA	5/20/03	67	1.13		-195	7.58	2.29		1.5	18.2	
MW072SA	5/20/03	67	6.99		-153	7.54	2.12		1.4	17.74	
MW073SA	5/20/03	67	1.61		-148	7.52	1.79		1.1	17.41	
RW001	5/29/01		5.3	0	140	7.03	6.3			19.5	
RW002	10/1/01					7.36	1.532			21.4	
RW002	2/4/02		5	0	149	6.87	6.9	0		16.4	
RW003	2/4/02		3.4	0	178	6.51	5.4	0		15.2	
RW004A	10/1/01					7.5	1.39			21	
RW004A	2/4/02		2.1	0	172	6.57	5.7	0		17.1	
RW004A	9/18/02		0.94	0	129	7.67	5.25	0		25.84	
CriswellWW	5/30/01		5.3		-95	10.16	5.78			20.85	
EPWW1	5/29/01		7.7	0.6	208	7.12	4.4			25.3	
EPWW1	1/31/02		4.2	0	67	6.29	4.5	0		18.2	
EPWW1	9/18/02		2.4	2.2	43	7.75	4.25	0		26.88	
EPWW1	12/5/02					7.33	2.24			19.7	
EPWW1	3/18/03		6.75	0	204	6.95	3.73	0		19.55	
EPWW1	6/5/03		4.02	1	208	6.89	3.59	0	NC	21.28	
GOPWW2	5/30/01		5.6	10	-12	8.95	0.281			20.71	
GOPWW2	12/4/02					8.28	2.56			20.3	
GOPWW2	3/27/03		1.44		11	7.14	2.48			21.77	
GOPWW2	6/5/03			8.1		7.53	0.355	0	NC	24.3	
LordWW	6/7/01		2.1	5.2	43	6.81	5.7			20	
LordWW	2/6/02		0.8	3	12	6.05	4.4	0		17	
LordWW	9/10/02		0.76	2.6	-40	7.76	1.03	0		20.05	14
LordWW	12/9/02	5.3	0.52		166	6.7	0.7		0.5	16.17	
LordWW	3/20/03	4.3	0.4		200	5.63	0.828		0.5	18.8	
LordWW	6/5/03	67	2.13		-266	8.3	1.7			19.55	
RowlandWW	5/30/01		6.8	0.8	5	8.53	0.372			21.53	
RowlandWW	2/7/02		6.4	1.5	70	6.22	4.0	0		17.5	
RowlandWW	9/23/02		4.6	0.8	134	7.35	3.69	0		20.86	1.77
RowlandWW	12/4/02					7.06	3.4			20.5	
RowlandWW	3/27/03		6.61		201	7.02	3.1			22.37	
RowlandWW	6/5/03					7.81	0.433		NC	28.1	
WoodellWW	5/23/01		8.2	0	259	7.42	2.2			22.8	
WoodellWW	12/4/02					7	3.27			20.6	
WoodellWW	3/26/03		7.16		151	7.02	2.38			21.44	
WoodellWW	5/22/03		9.3		151	7.14	2.13		NC	19.83	
W001	8/1/02			0	130	6.1	6.8	0		23	
W002	9/19/02		3.62	0.6	176	7.12	4.25	0		20.1	

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Table 8
Analytical Methods, Hold Times, Sample Containers and Preservatives
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Parameter	Analytical Method	Holding Times	Sample Containers and Preservative
Field Parameters			
Dissolved Oxygen	Field Probe	Immediate	NA
Redox potential	Field Probe	Immediate	NA
pH	Field Probe	Immediate	NA
Temperature	Field Probe	Immediate	NA
Specific Conductance	Field Probe	Immediate	NA
Iron, ferrous	HACH Kit	Immediate	NA
Hydrogen Sulfide	HACH Kit	Immediate	NA
Turbidity	Meter	Immediate	NA
Organic Analyses			
Benzene	SW-846 8021B	14 Days	40-ml vial; HCl
Toluene	SW-846 8021B	14 Days	40-ml vial; HCl
Ethylbenzene	SW-846 8021B	14 Days	40-ml vial; HCl
Total Xylenes	SW-846 8021B	14 Days	40-ml vial; HCl
TPH (GRO)	SW-846 8015B; TX1005	14 Days	40-ml vial; HCl
TPH (DRO)	SW-846 8015B		Amber liter; Neat
Inorganic Analyses			
Total Chromium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Hexavalent Chromium	SW-846 7197	Immediate	1-Liter; Neat
Total Arsenic	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Barium	SW-846 6010B	28 Days	500-ml plastic; HNO3
Total Cadmium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Lead	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Mercury	SW-846 7470A	28 Days	500-ml plastic; HNO3
Total Selenium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Silver	SW-846 6010B	6 Months	500-ml plastic; HNO3
Carbonate	SM2320B	14 Days	1-Liter; Neat
Bicarbonate	SM2320B	14 Days	1-Liter; Neat
Total Alkalinity	SM2320B	14 Days	1-Liter; Neat
Total Dissolved Solids	EPA 160.1	7 Days	1-Liter; Neat
Sulfate	EPA 300.0	28 days	1-Liter; Neat
Chlorides	EPA 300.0	28 days	1-Liter; Neat
Calcium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Sodium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Magnesium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Potassium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Manganese	SW-846 6010B	6 Months	500-ml plastic; HNO3
Dissolved Manganese	SW-846 6010B	6 Months	500-ml plastic; HNO3

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Table 9
Miscellaneous Analytical Data
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	Field Sample ID	Date	Total Cr	Total Cr (Dissolved)	Hex Cr	Hex Cr (Dissolved)
MW008	Casing Volume Purge	8/20/97	5.2	5.4		
MW008	Casing Volume Purge	10/28/97		4.6	6.46	
MW008	Casing Volume Purge	1/22/99		4.4		
MW008	Casing Volume Purge	11/18/99		6.1		
MW008	Low-Flow Purge	5/31/01	5.66		9.0	
MW008	Low-Flow Purge	8/29/01	0.68		0.8	
MW008	Low-Flow Purge	8/29/01		0.52		<0.5
MW008	Low-Flow Purge	8/29/01		0.44		<0.5
MW008	Low-Flow Purge	8/29/01	0.79		0.6	
MW008	Casing Volume Purge	9/27/01		1.75		1.8
MW008	Low-Flow Purge	2/4/02		3.54		2.8
MW008	Low-Flow Purge	9/18/02		4.99		3.1
MW008	Low-Flow Purge	1/6/03				2.3
MW008	Low-Flow Purge	3/26/03				2.8
MW008	Low-Flow Purge	6/5/03				4.00
MW008M	Casing Volume Purge	10/1/01		4.65	2.8	
MW008M	Low-Flow Purge	2/4/02		3.51		2.7
MW008M	Low-Flow Purge	2/4/02		5.69		4.2
MW009A	Casing Volume Purge	10/22/97	1.5			
MW009A	Casing Volume Purge	1/21/99		1.0		
MW009A	Low-Flow Purge	5/24/01	<0.05		1.4	
MW009A	Casing Volume Purge	9/27/01		1.40		1.3
MW009A	Low-Flow Purge	1/28/02		1.36		1.2
MW009A	Low-Flow Purge	9/18/02		1.31		0.7
MW009A	Low-Flow Purge	9/18/02		1.31		0.9
MW009A	Low-Flow Purge	1/6/03				0.85
MW009A	Low-Flow Purge	1/6/03				0.76
MW009A	Low-Flow Purge	3/20/03				0.8
MW009A	Low-Flow Purge	3/20/03				0.65
MW009A	Low-Flow Purge	6/4/03				1.1
MW009A	Low-Flow Purge	6/4/03				1.15
MW011M	Casing Volume Purge	10/1/01		1.84	1.7	
MW011M	Low-Flow Purge	2/4/02		2.43		2.2
MW023	Casing Volume Purge	6/23/99		2.0		
MW023	Casing Volume Purge	11/18/99		2.56		
MW023	Low-Flow Purge	5/29/01	2.73		<0.005	
MW023	Low-Flow Purge	5/29/01	2.76		<0.005	
MW023	Low-Flow Purge	5/29/01	2.55		0.015	
MW023	Low-Flow Purge	8/30/01	2.29		2.5	
MW023	Low-Flow Purge	8/30/01		2.50		1.5
MW023	Low-Flow Purge	8/30/01		2.39		1.8
MW023	Low-Flow Purge	8/30/01	2.30		2.0	
MW023	Casing Volume Purge	9/27/01		2.52		1.9
MW023	Low-Flow Purge	2/7/02		2.96		1.9
MW023	Low-Flow Purge	9/18/02		2.41		1.3
MW023	Low-Flow Purge	12/16/02				2.0
MW023	Low-Flow Purge	12/16/02				1.9
MW023	Low-Flow Purge	3/26/03				1.4
MW023	Low-Flow Purge	3/26/03				1.4
MW023	Low-Flow Purge	5/28/03				2.00
MW025	Casing Volume Purge	5/19/99		4.5		

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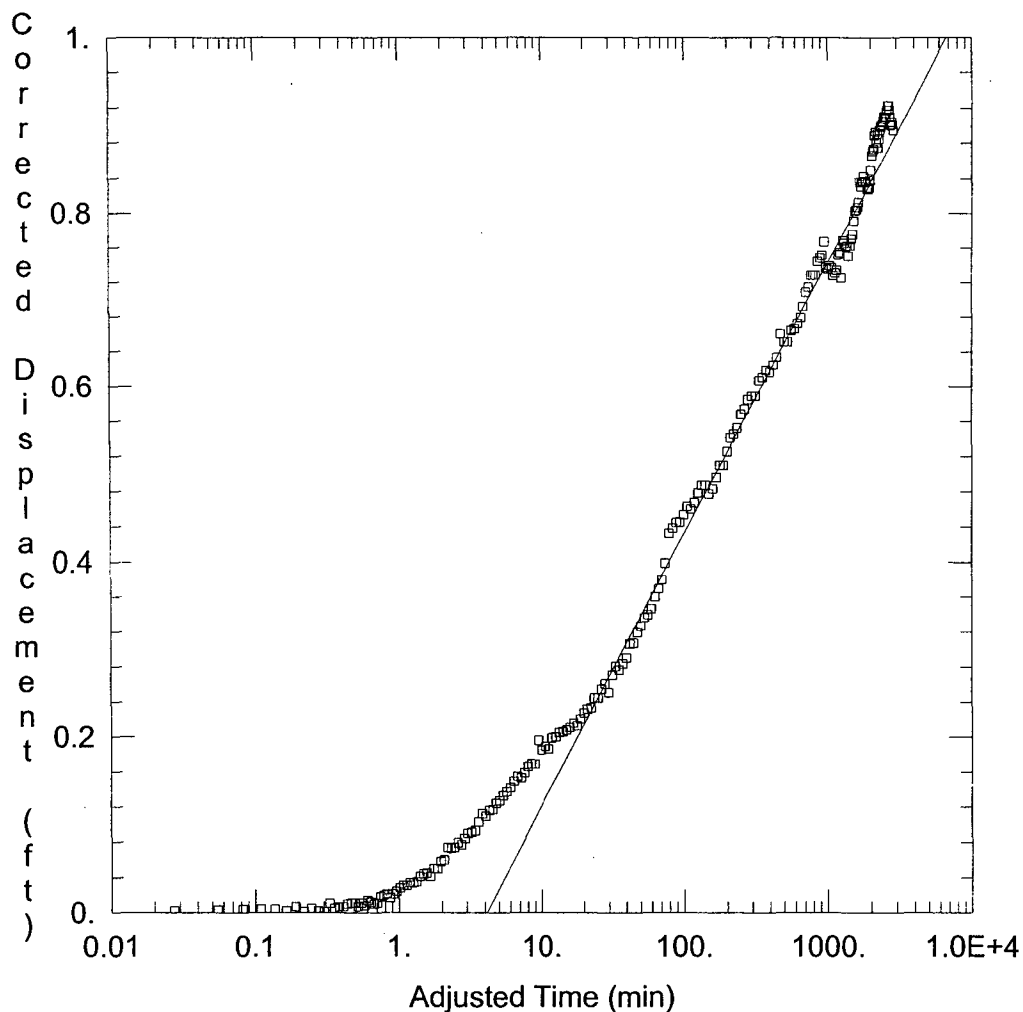
Table 9
Miscellaneous Analytical Data
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L)

Station Name	Field Sample ID	Date	Total Cr	Total Cr (Dissolved)	Hex Cr	Hex Cr (Dissolved)
MW025	Casing Volume Purge	11/18/99		4.4		
MW025	Low-Flow Purge	5/29/01	4.18		<0.005	
MW025	Low-Flow Purge	8/27/01	<0.05		0.037	
MW025	Low-Flow Purge	8/27/01		<0.05		0.038
MW025	Low-Flow Purge	8/27/01		<0.05		0.043
MW025	Low-Flow Purge	8/27/01	<0.05		0.030	
MW025	Casing Volume Purge	9/27/01		0.33		0.41
MW025	Low-Flow Purge	1/31/02		0.53		0.42
MW025	Low-Flow Purge	9/17/02		0.4		0.26
MW025	Low-Flow Purge	9/17/02		0.43		0.21
MW025	Low-Flow Purge	1/2/03				0.006
MW025	Low-Flow Purge	3/11/03				0.024
MW025	Low-Flow Purge	5/29/03				0.011
MW025	Casing Volume Purge	6/3/03				0.216
MW061	Casing Volume Purge	1/8/03		4.02		2.6
MW061	Low-Flow Purge	3/24/03				0.53
MW061	Low-Flow Purge	3/24/03				0.34
MW061	Low-Flow Purge	6/4/03				0.725
MW061	Casing Volume Purge	6/4/03				3.04
RW002	Casing Volume Purge	10/1/01		3.08	2.6	
RW002	Casing Volume Purge	12/11/01	4.20		3.6	
RW002	Casing Volume Purge	12/12/01	4.15		4.1	
RW002	Casing Volume Purge	12/13/01	4.09		3.5	
RW002	Casing Volume Purge	12/13/01	4.09		3.6	
RW002	Low-Flow Purge	2/4/02		4.20		3.2
RW003	Casing Volume Purge	12/18/01	3.55		2.4	
RW003	Casing Volume Purge	12/20/01	3.08		2.4	
RW003	Low-Flow Purge	2/4/02		4.44		0.064
RW004A	Casing Volume Purge	10/1/01		3.11	2.0	
RW004A	Casing Volume Purge	12/6/01	4.26		2.0	
RW004A	Casing Volume Purge	12/6/01	4.19		1.9	
RW004A	Casing Volume Purge	12/7/01	4.17			
RW004A	Casing Volume Purge	12/8/01	4.28			
RW004A	Low-Flow Purge	2/4/02		4.33		3.5
RW004A	Low-Flow Purge	9/18/02		3.63		3

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Appendix A

Pump Test Data



MW011 DRAWDOWN

Data Set: G:\...MW011 Cooper-Jacob Early.aqt

Date: 10/01/03

Time: 08:44:47

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW002

AQUIFER DATA

Saturated Thickness: 64.22 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW002	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW011	23	0

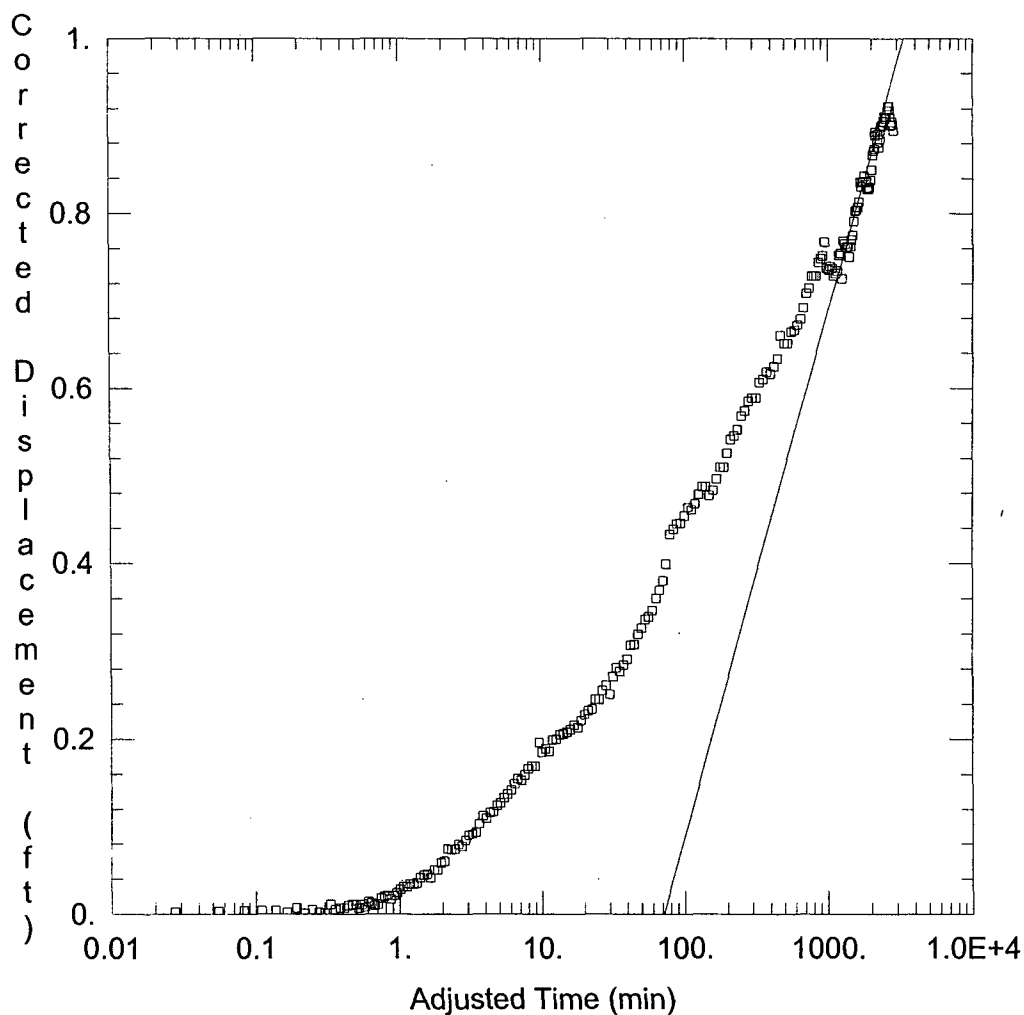
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 7846.9 gal/day/ft

S = 0.01267



MW011 DRAWDOWN

Data Set: G:\...MW011 Cooper-Jacob Late.aqt

Date: 10/01/03

Time: 08:59:21

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW002

AQUIFER DATA

Saturated Thickness: 64.22 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW002	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW011	23	0

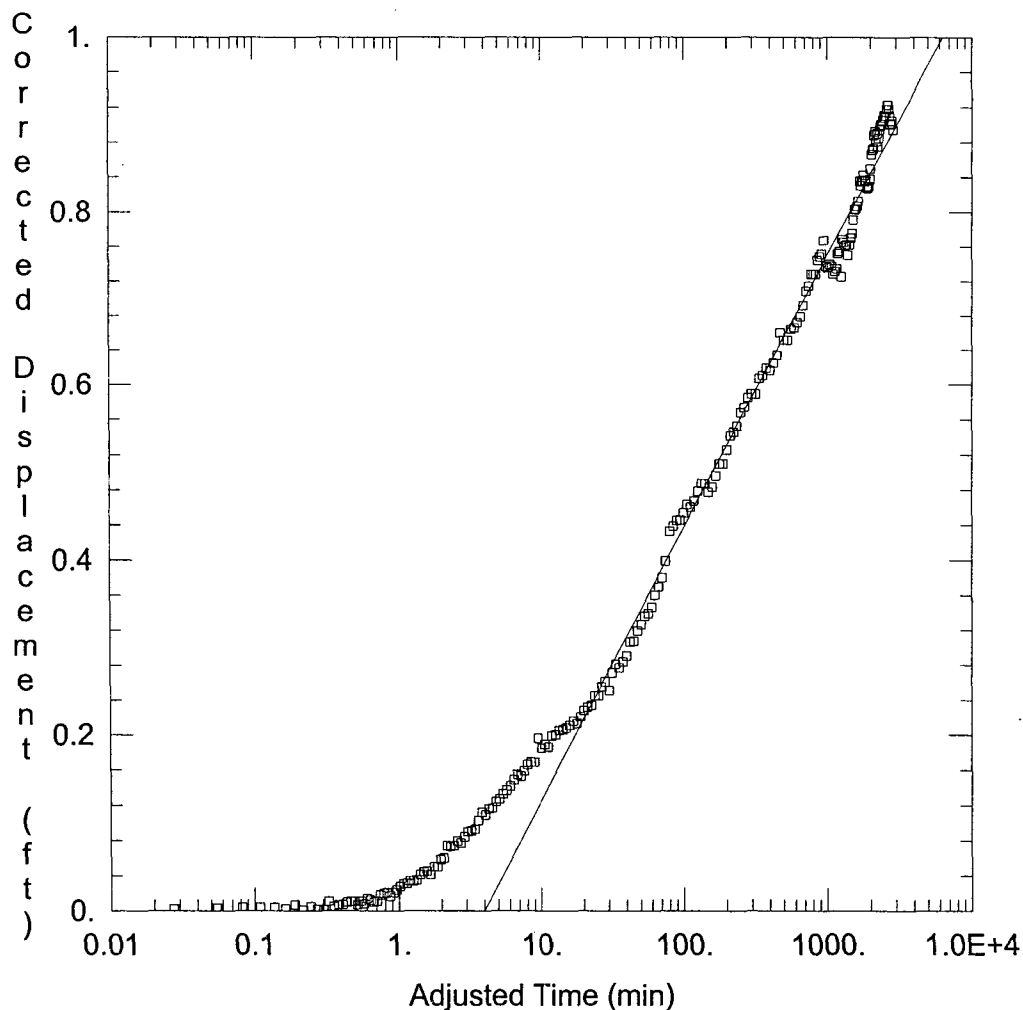
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 4068.8 gal/day/ft

S = 0.1145



MW011 DRAWDOWN

Data Set: G:\...\MW011 Cooper-Jacob Whole.agt

Date: 10/01/03

Time: 09:00:19

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW002

AQUIFER DATA

Saturated Thickness: 64.22 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW002	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW011	23	0

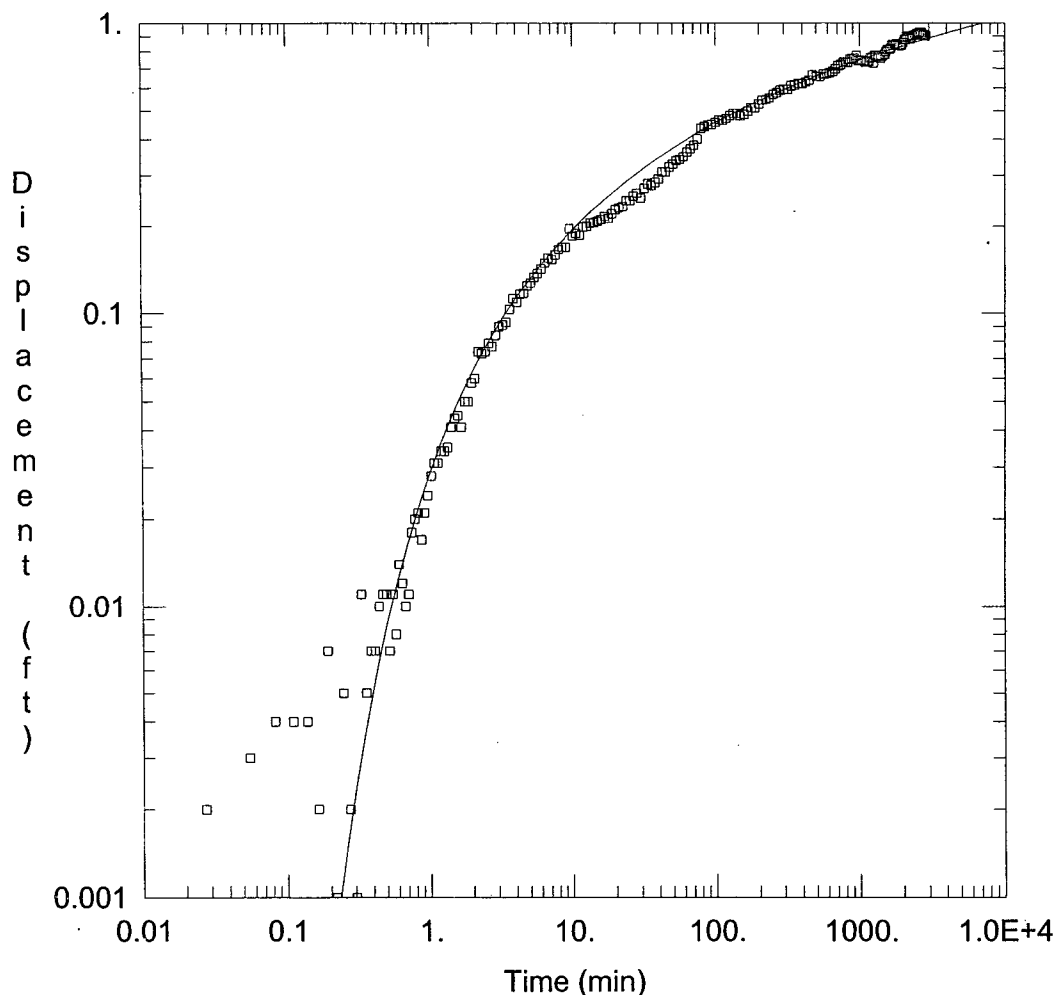
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 7804.9 gal/day/ft

S = 0.01228



MW011 DRAWDOWN

Data Set: G:\APROJECT\TEXACO\NorthEunice\General\Report Aqtesolv\MW011 Hantush Leaky.aqt

Date: 10/01/03

Time: 09:05:38

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW002

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW002	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW011	23	0

SOLUTION

Aquifer Model: Leaky

Solution Method: Hantush

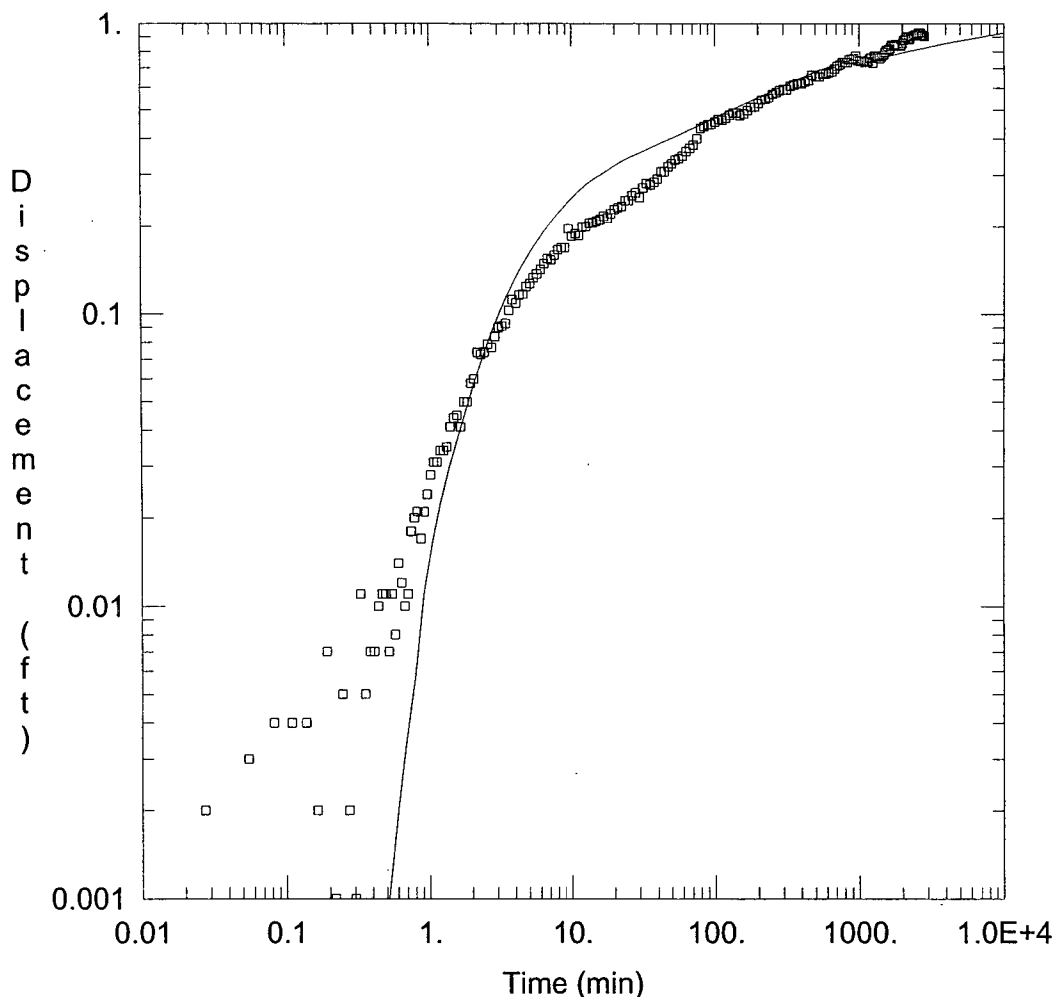
T = 4068.8 gal/day/ft

S = 0.001927

β = 1.

Kz/Kr = 0.07796

b = 30. ft



MW011 DRAWDOWN

Data Set: G:\...\MW011 Quick Neuman Early.aqt

Date: 10/01/03

Time: 09:08:24

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW002

AQUIFER DATA

Saturated Thickness: 64.22 ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW002	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW011	23	0

SOLUTION

Aquifer Model: Unconfined

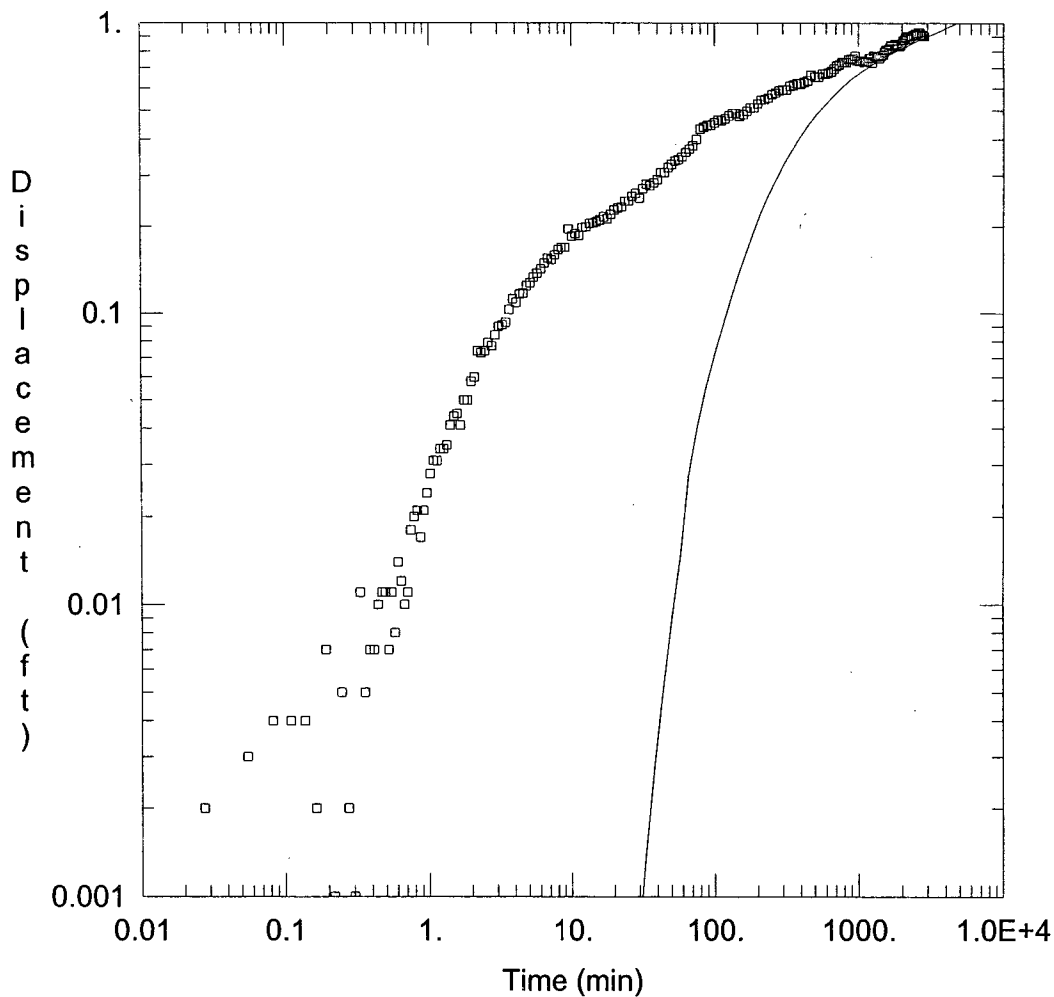
Solution Method: Quick Neuman

T = 1.391E+4 gal/day/ft

S = 0.02032

Sy = 0.02438

β = 0.01



MW011 DRAWDOWN

Data Set: G:\...\MW011 Quick Neuman Late.aqt

Date: 10/01/03

Time: 09:09:39

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW002

AQUIFER DATA

Saturated Thickness: 64.22 ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW002	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW011	23	0

SOLUTION

Aquifer Model: Unconfined

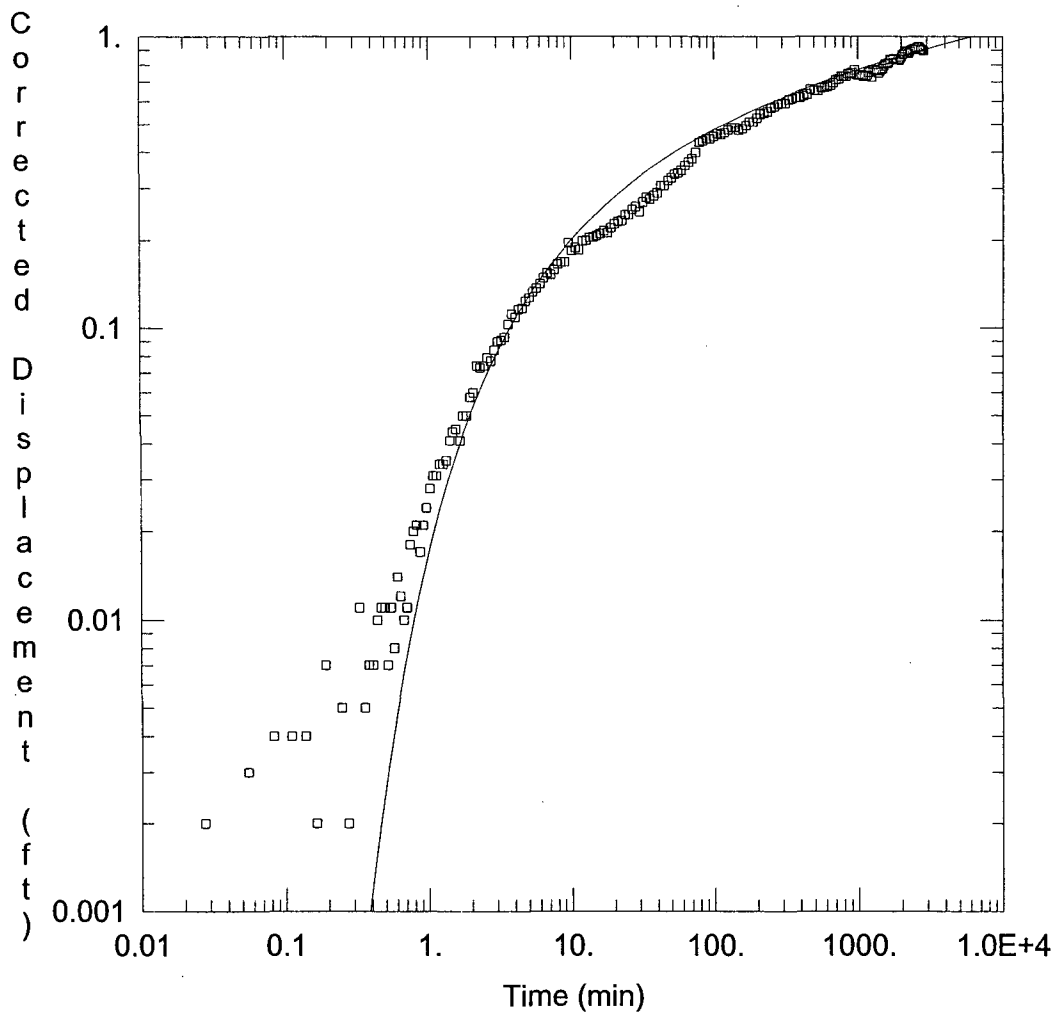
Solution Method: Quick Neuman

T = 5999.3 gal/day/ft

S = 0.6203

Sy = 0.7369

β = 0.01



MW011 DRAWDOWN

Data Set: G:\APROJECT\TEXACO\NorthEunice\General\Report Aqtesolv\MW011 Theis Whole.aqt
 Date: 10/01/03 Time: 09:28:15

PROJECT INFORMATION

Company: Arcadis
 Client: Texaco
 Project: MT000700.0001
 Location: Eunice, NM
 Test Well: RW002

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW002	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW011	23	0

SOLUTION

Aquifer Model: Unconfined

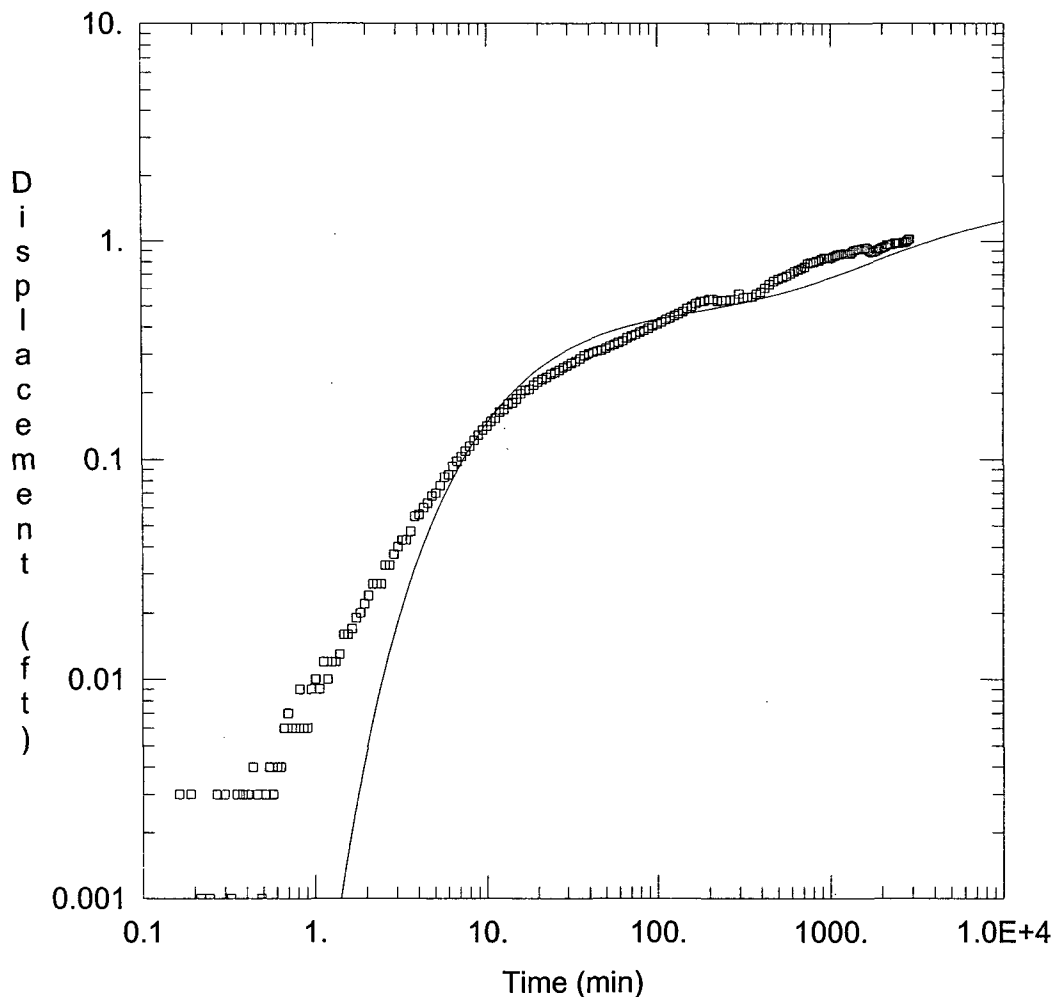
Solution Method: Theis

T = 8365.8 gal/day/ft

S = 0.00767

Kz/Kr = 0.1

b = 64.22 ft



MW012 DRAWDOWN

Data Set: G:\APROJECT\TEXACO\NorthEunice\General\Report Aqtesolv\MW012 Neuman Early.aqt
 Date: 10/01/03 Time: 09:31:06

PROJECT INFORMATION

Company: Arcadis
 Client: Texaco
 Project: MT000700.0001
 Location: Eunice, NM
 Test Well: RW003

AQUIFER DATA

Saturated Thickness: 65.3 ft

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
RW003	0	0

Well Name	X (ft)	Y (ft)
□ MW012	19.16	0

SOLUTION

Aquifer Model: Unconfined

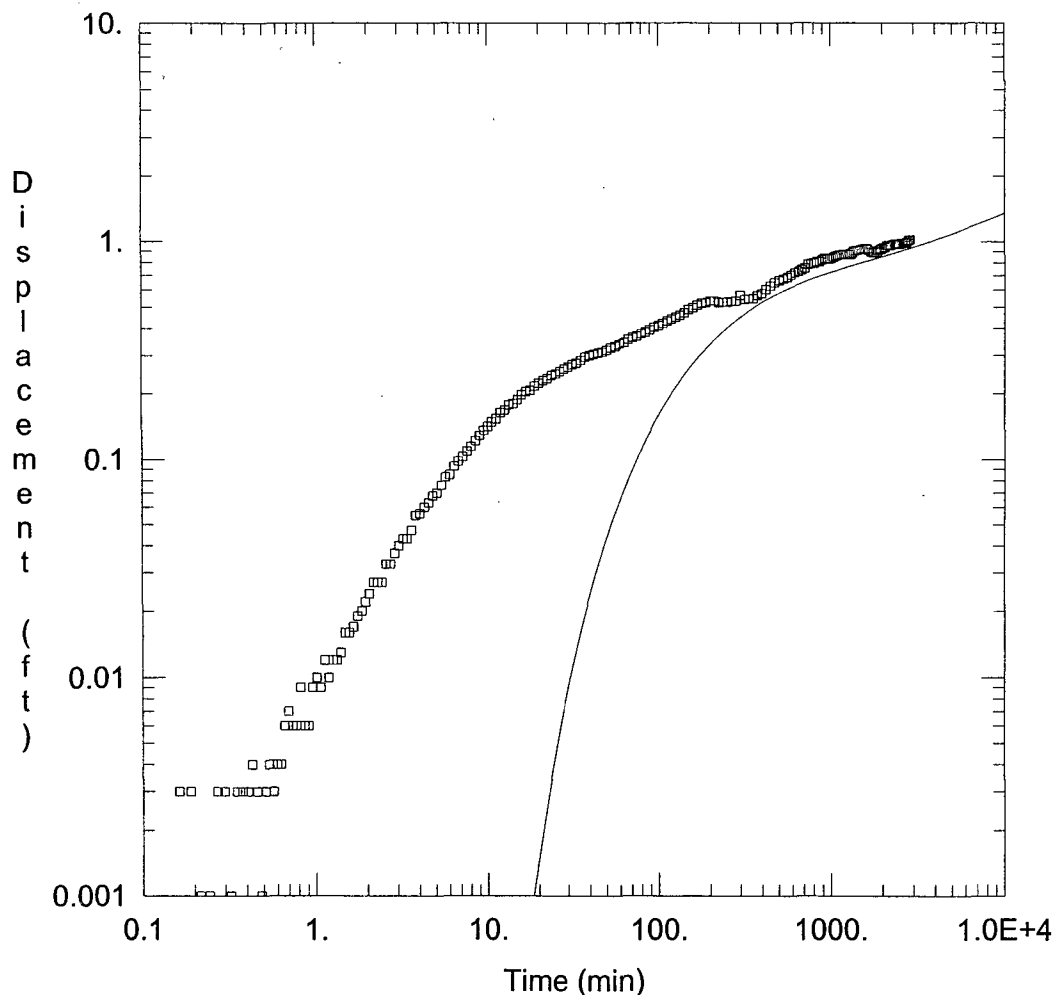
Solution Method: Neuman

T = 6532. gal/day/ft

S = 0.0407

Sy = 0.2183

B = 0.01



MW012 DRAWDOWN

Data Set: G:\APROJECT\TEXACO\NorthEunice\General\Report Aqtesolv\MW012 Neuman Late.aqt
 Date: 10/01/03 Time: 09:32:07

PROJECT INFORMATION

Company: Arcadis
 Client: Texaco
 Project: MT000700.0001
 Location: Eunice, NM
 Test Well: RW003

AQUIFER DATA

Saturated Thickness: 65.3 ft

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
RW003	0	0	MW012	19.16	0

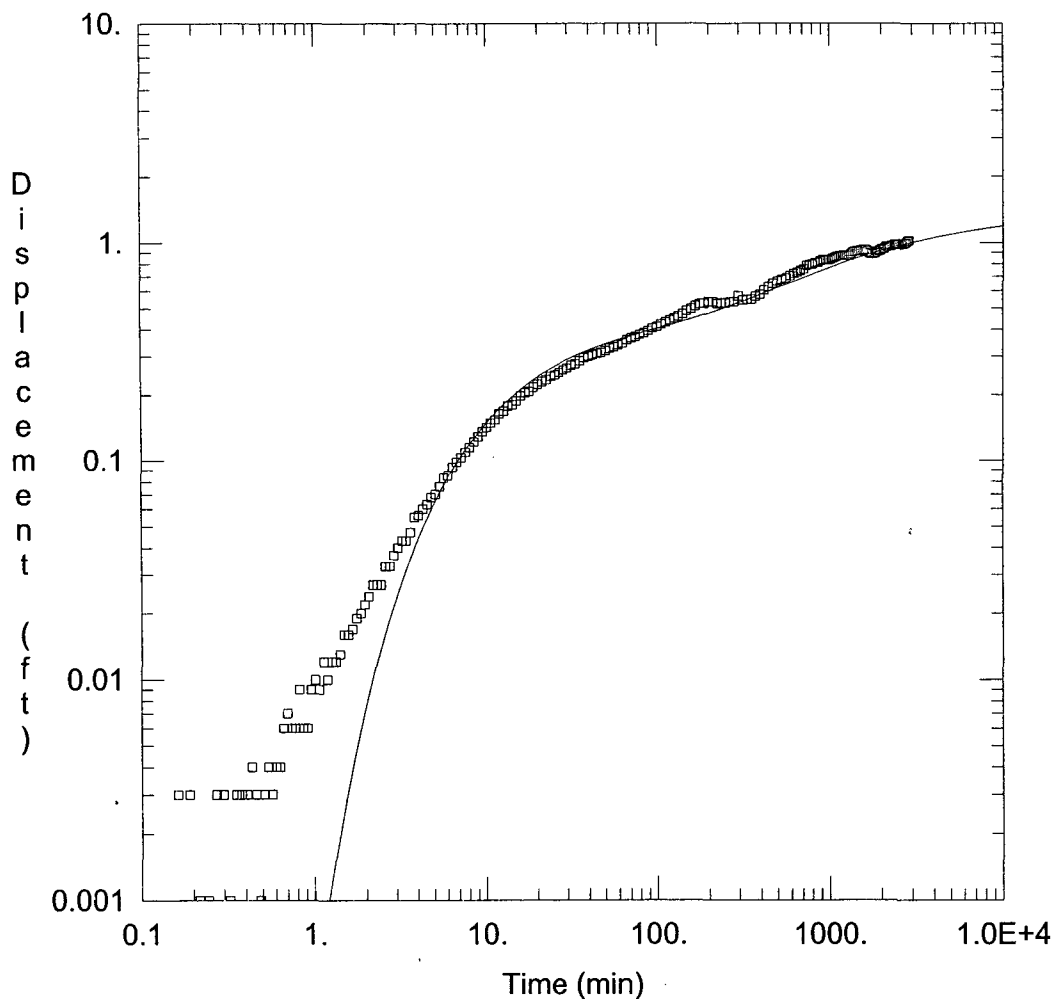
SOLUTION

Aquifer Model: Unconfined

Solution Method: Neuman

T = 3804.2 gal/day/ft
 Sy = 0.6836

S = 0.3433
 β = 0.01



MW012 DRAWDOWN

Data Set: G:\APROJECT\TEXACO\NorthEunice\General\Report Aqtesolv\MW012 Neuman Whole.aqt
 Date: 10/01/03 Time: 09:35:40

PROJECT INFORMATION

Company: Arcadis
 Client: Texaco
 Project: MT000700.0001
 Location: Eunice, NM
 Test Well: RW003

AQUIFER DATA

Saturated Thickness: 65.3 ft

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
RW003	0	0	MW012	19.16	0

SOLUTION

Aquifer Model: Unconfined

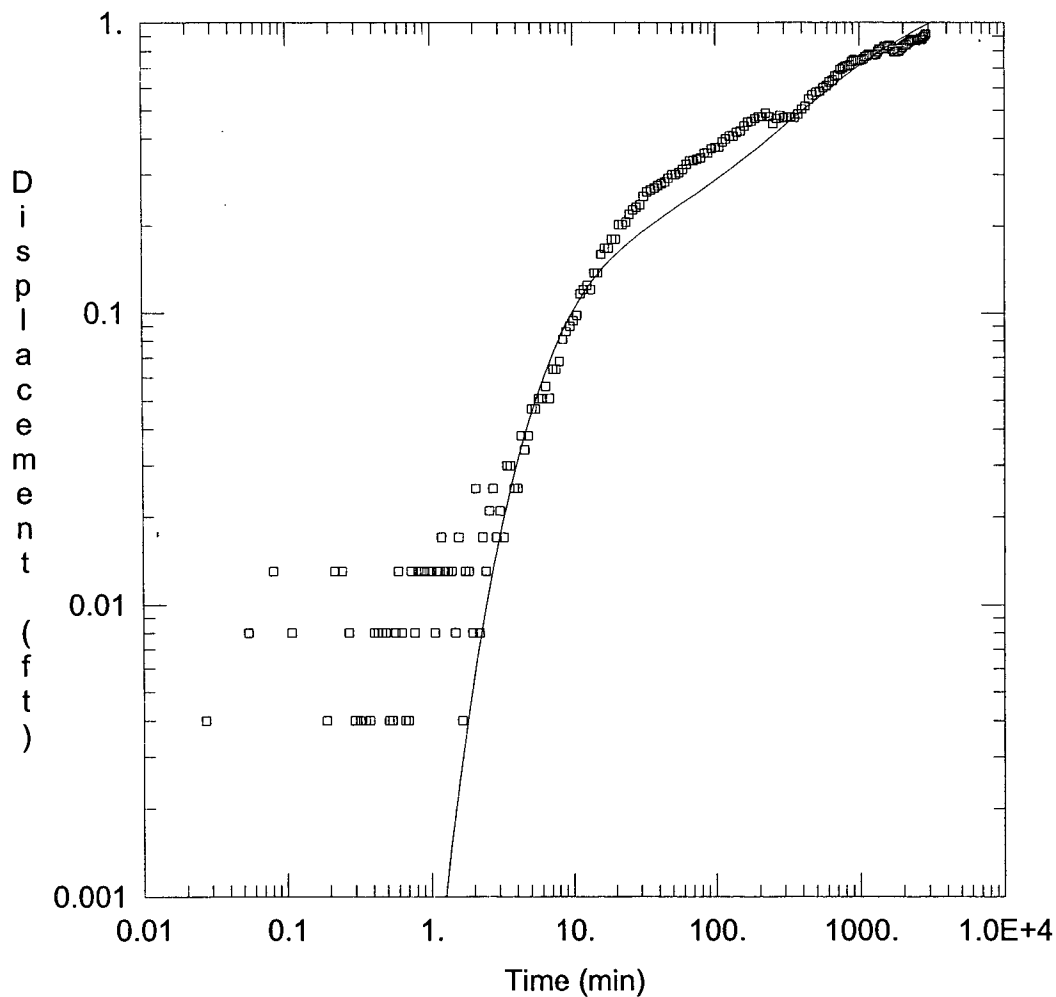
Solution Method: Neuman

T = 7701.9 gal/day/ft

S = 0.03985

Sy = 0.08868

β = 0.01



MW012M DRAWDOWN

Data Set: G:\...\MW012M Neuman Whole.aqt

Date: 10/01/03

Time: 09:37:06

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW003

AQUIFER DATA

Saturated Thickness: 65.3 ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW003	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW012M	20.58	0

SOLUTION

Aquifer Model: Unconfined

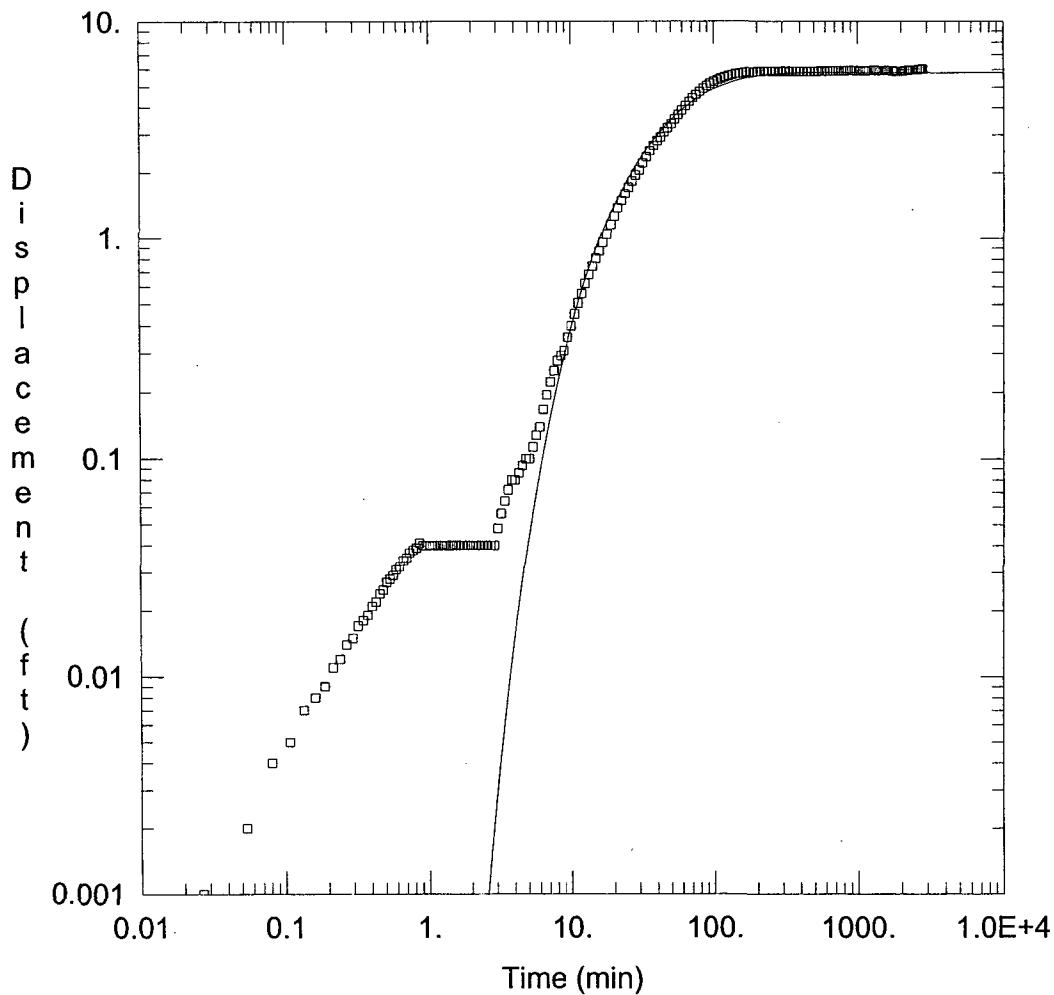
Solution Method: Neuman

T = 3425.3 gal/day/ft

S = 0.001419

Sy = 0.007555

β = 0.01



MW008A DRAWDOWN

Data Set: G:\...\MW008A Hantush-Jacob Leaky.aqt

Date: 10/01/03

Time: 09:38:01

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW004A

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW004A	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW008A	25	0

SOLUTION

Aquifer Model: Leaky

Solution Method: Hantush-Jacob

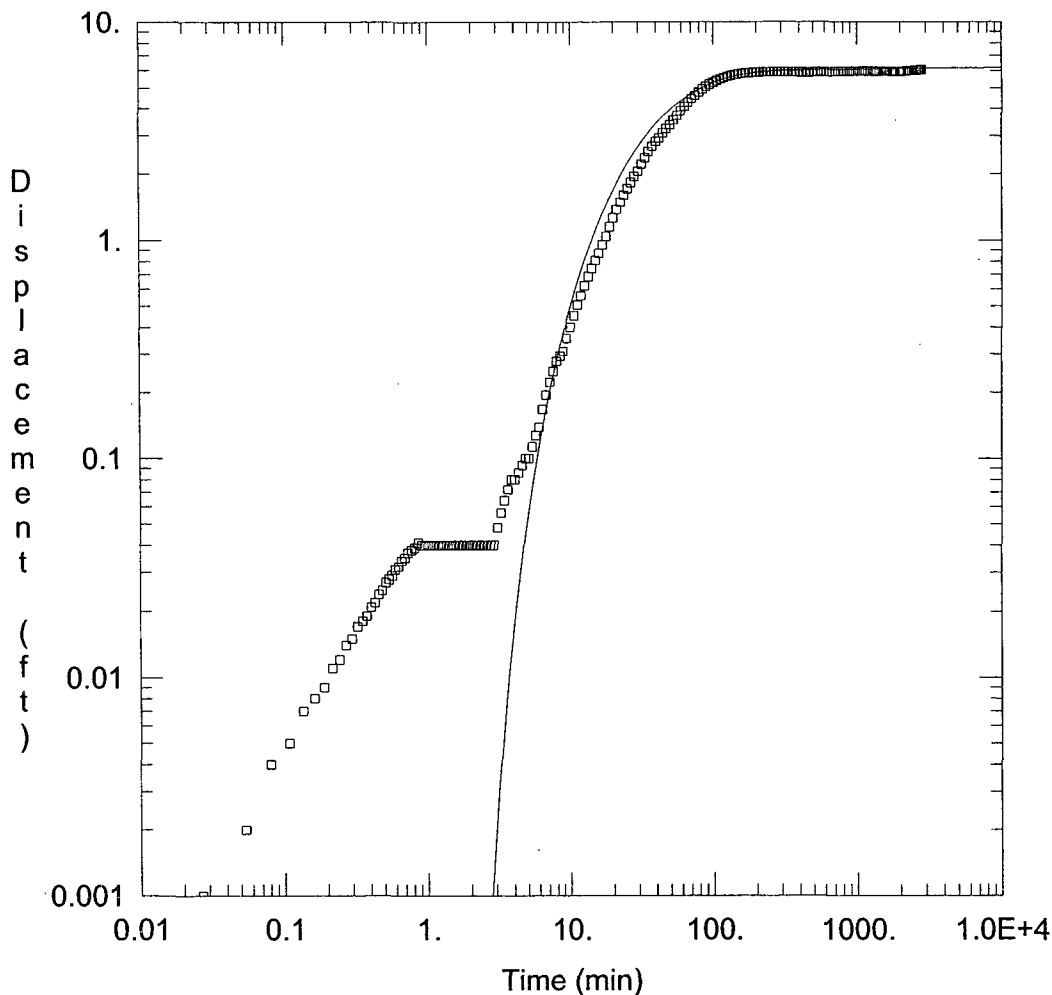
T = 100.4 gal/day/ft

S = 0.001013

r/B = 0.8

Kz/Kr = 0.1

b = 30. ft



MW008A DRAWDOWN

Data Set: G:\...MW008A Neuman-Witherspoon Leaky.aqt

Date: 10/01/03

Time: 09:38:53

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW004A

AQUIFER DATA

Saturated Thickness: 30. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW004A	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW008A	25	0

SOLUTION

Aquifer Model: Leaky

Solution Method: Neuman-Witherspoon

$T = 55.07$ gal/day/ft

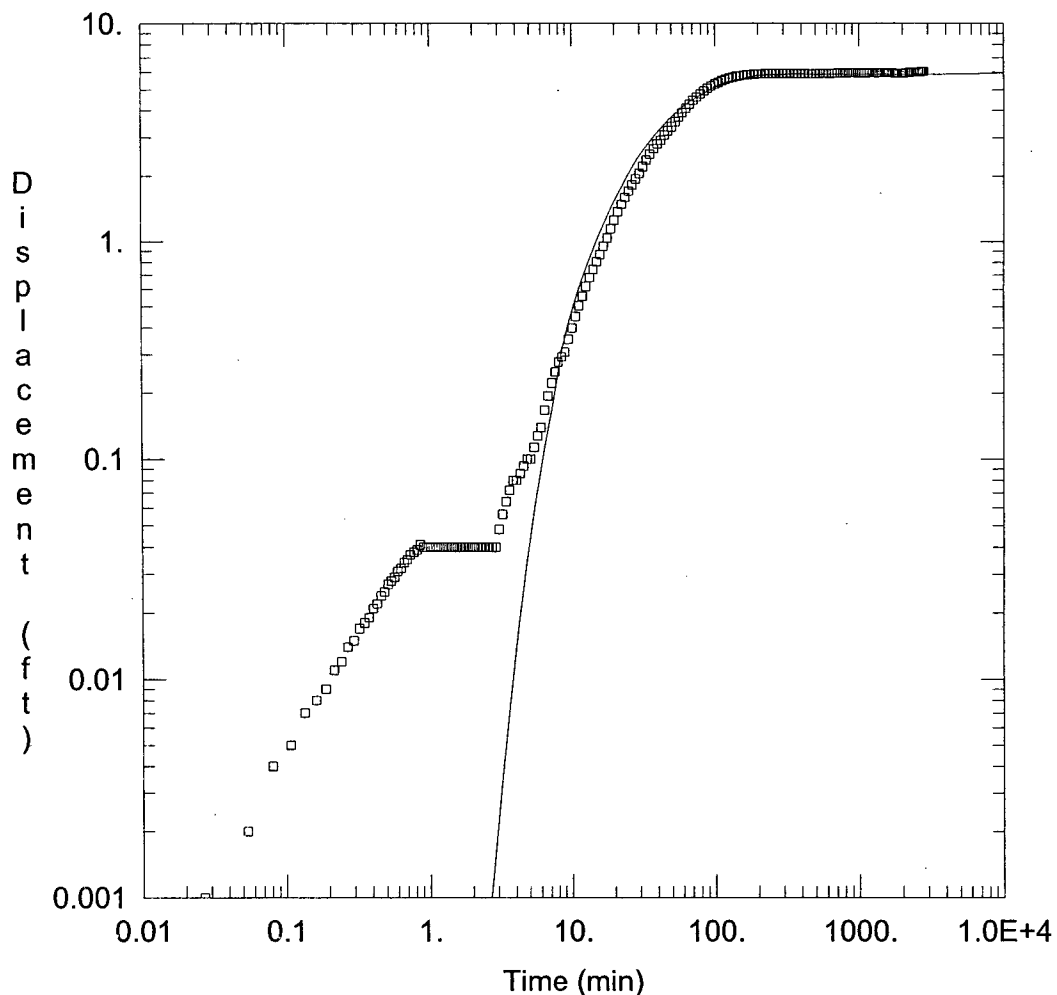
$S = 0.0005393$

$r/B = 1.$

$\beta = 0.01$

$T' = 8600.$ gal/day/ft

$S' = 6.154E-6$



MW008A DRAWDOWN

Data Set: G:\APROJECT\TEXACO\NorthEunice\General\Report Aqtesolv\MW008A Quick Neuman.agt

Date: 10/01/03

Time: 09:40:25

PROJECT INFORMATION

Company: Arcadis

Client: Texaco

Project: MT000700.0001

Location: Eunice, NM

Test Well: RW004A

AQUIFER DATA

Saturated Thickness: 65.42 ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
RW004A	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ MW008A	25	0

SOLUTION

Aquifer Model: Unconfined

Solution Method: Quick Neuman

T = 110.1 gal/day/ft

S = 0.001244

Sy = 2.077

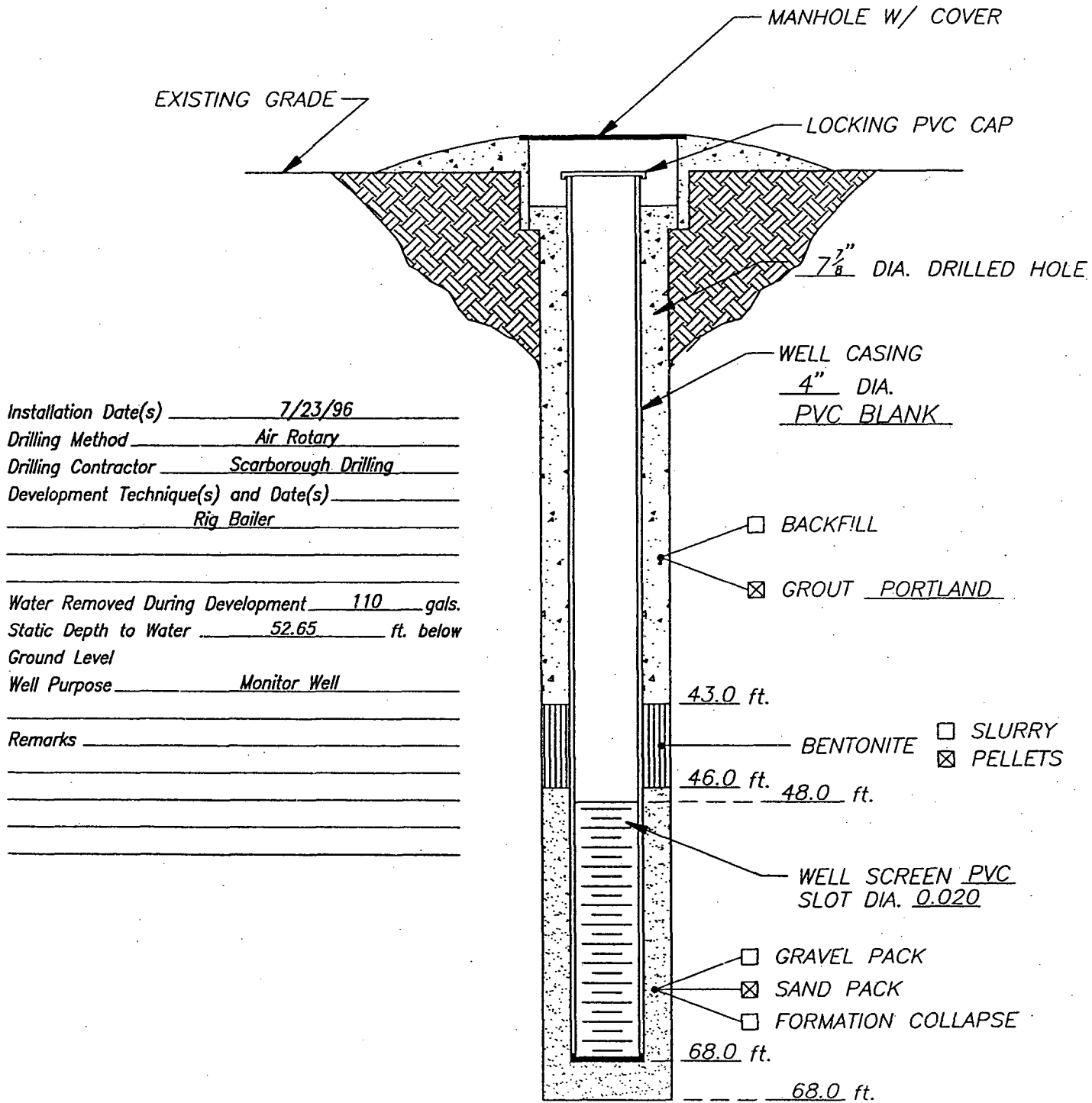
β = 0.4

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Appendix B

Monitoring Well and Boring
Logs

WELL CONSTRUCTION LOG



DATE: 7/23/96

*Highlander
Environmental*

CLIENT: *Texaco Exploration & Production, Inc.*

PROJECT: Eunice #1 (North) Plant

LOCATION: *Lea County, New Mexico*

WELL NO.

MW-1

SAMPLE LOG

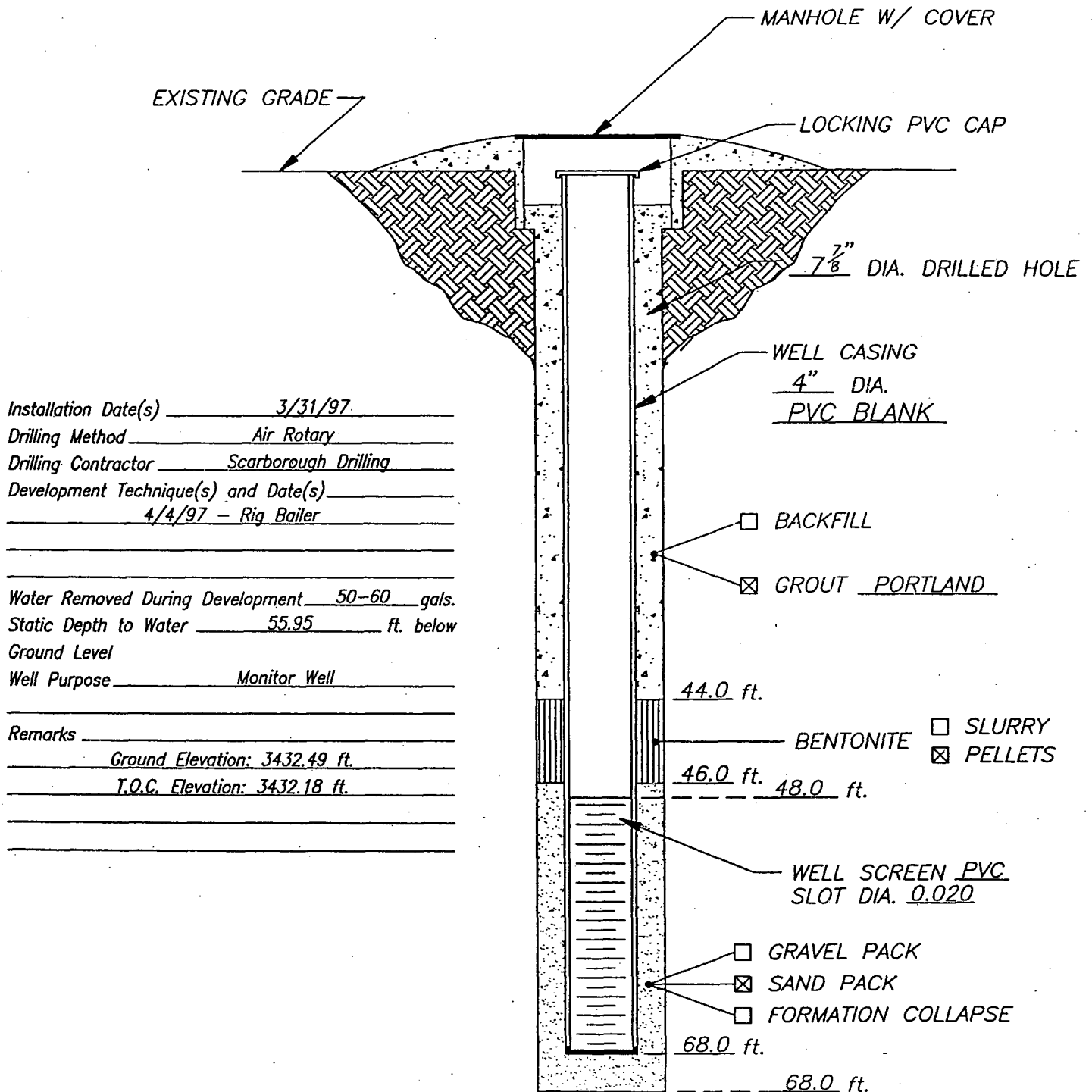
Boring/Well: MW-1 (BH-1)
Site Location: Texaco E & P Eunice #1 (North) Gas Plant
Sample Location: Monitor Well (south of compressor)
Total Depth: 57'
Date Installed: 7/22/96

Depth (Ft)	OVM	SAMPLE DESCRIPTION
0-5	6	Reddish fine grain sand and clay, no odor or staining
6-10	-	White and tan caliche layer, friable layer, trace fine grain sand
10-12	2	Brown, fine grain sand, clean, loose, well sorted
15-17	3	Brown, fine grain sand, clean, loose, encountered layers of dense caliche and sandstone
20-22	2	White, caliche, dense layer, some sandstone (lost 95% of splitspoon sample)
25-27	4	*Tan, fine grain sand, trace of white caliche
30-32	7	Tan, fine grain sand, trace of white caliche, no staining
35-37	1	Tan, fine grain sand, trace of white caliche, no staining, damp
40-42	2	Tan, fine grain sand, trace of white caliche, no staining, damp
45-47	2	Tan, fine grain sand, trace of white caliche, no staining, damp
50-52	2	Tan, fine grain sand, trace of white caliche, no staining, damp
55-57	414	*Tan, fine grain sand, loose, trace grayish staining, encountered ground water
		TD- 57'

NOTE:

- * Selected for analysis
- BH - Borehole (rig-splitspoon sampling)

WELL CONSTRUCTION LOG



DATE: 4/14/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-2

SAMPLE LOG

Boring/Well:	MW-2
Site Location:	Texaco E & P Eunice (North) Gas Plant
Location:	Eunice, New Mexico
Total Depth:	68 feet
Date Installed:	3/31/97

[illegible]



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WELL LOG

WELL NO.

MW002A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 3

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 12/04/02 DATE COMPLETED: 12/04/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,432.62'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,432.30'

FILE NAME: MW002A.dat UNIQUE NUMBER: 31-014-00458

STATIC WATER LEVEL: -54.03' MEAS. PT.: T.O.C.

DATE: 01/07/03

HOLE SIZE(S): 8"

TOTAL DEPTH: -123.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES		DEPTHS
GROUT TYPE:	Portland Cement w/5% Bentonite	-94.0' to Surface
SEAL TYPE:	Bentonite	-99.0' to -94.0'
SCREEN PACK:	8/16 Sand	-123.0' to -99.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-103.0' to Surface

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -123.0' to -103.0'

PLUG BACK: 8/16 Sand -125.0' to -123.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									CLAYEY SAND 5 YR 4/4 reddish brown, 75% very fine-grained to fine-grained SAND, 25% CLAY, loose to compactable.	
-5		Shovel			100%				CALICHE 7.5 YR 6/4 light brown, 30-40% very fine-grained to fine-grained SAND, 5-10% CLAY, soft to friable.	
-10		Shovel			100%				SAND 5 YR 4/6 yellowish red, very fine-grained to fine-grained, consolidated, soft to very friable.	
-15		Shovel			100%				CALICHE 7.5 YR 7/4 pink, 30-40% very fine-grained to fine-grained SAND, soft to firm.	
-20		Shovel			100%				SANDSTONE 7.5 YR 6/4 light brown and 7.5 YR 4/6 strong brown, fine-grained to medium-grained, interbedded soft and firm layers.	
-25		Shovel			100%					
-30		Shovel			100%					
-35		Shovel			100%					
-40		Shovel			100%					



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WELL LOG

WELL NO.

MW002A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 3

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 12/04/02 DATE COMPLETED: 12/04/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,432.62'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,432.30'

FILE NAME: MW002A.dat UNIQUE NUMBER: 31-014-00458

STATIC WATER LEVEL: -54.03' MEAS. PT.: T.O.C.

DATE: 01/07/03

HOLE SIZE(S): 8"

TOTAL DEPTH: -123.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES		DEPTHS
GROUT TYPE:	Portland Cement w/5% Bentonite	-94.0' to Surface
SEAL TYPE:	Bentonite	-99.0' to -94.0'
SCREEN PACK:	8/16 Sand	-123.0' to -99.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-103.0' to Surface
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-123.0' to -103.0'
PLUG BACK:	8/16 Sand	-125.0' to -123.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-50		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-55		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-60		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-65		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-70		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-75		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-80		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-85		Shovel			100%					



WELL NO. _____

MW002A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 3 of 3

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -54.03' MEAS. PT.: T.O.C.

DATE: 01/07/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -123.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-94.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite

-99.0' to -94.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-123.0' to -99.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-103.0' to Surface

DATE BEGUN: 12/04/02

DATE COMPLETED: 12/04/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,432.62'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-123.0' to -103.0'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,432.30'

WELL SCREEN: 4" Diameter

-123.0' to -103.0'

FILE NAME: MW002A.dat

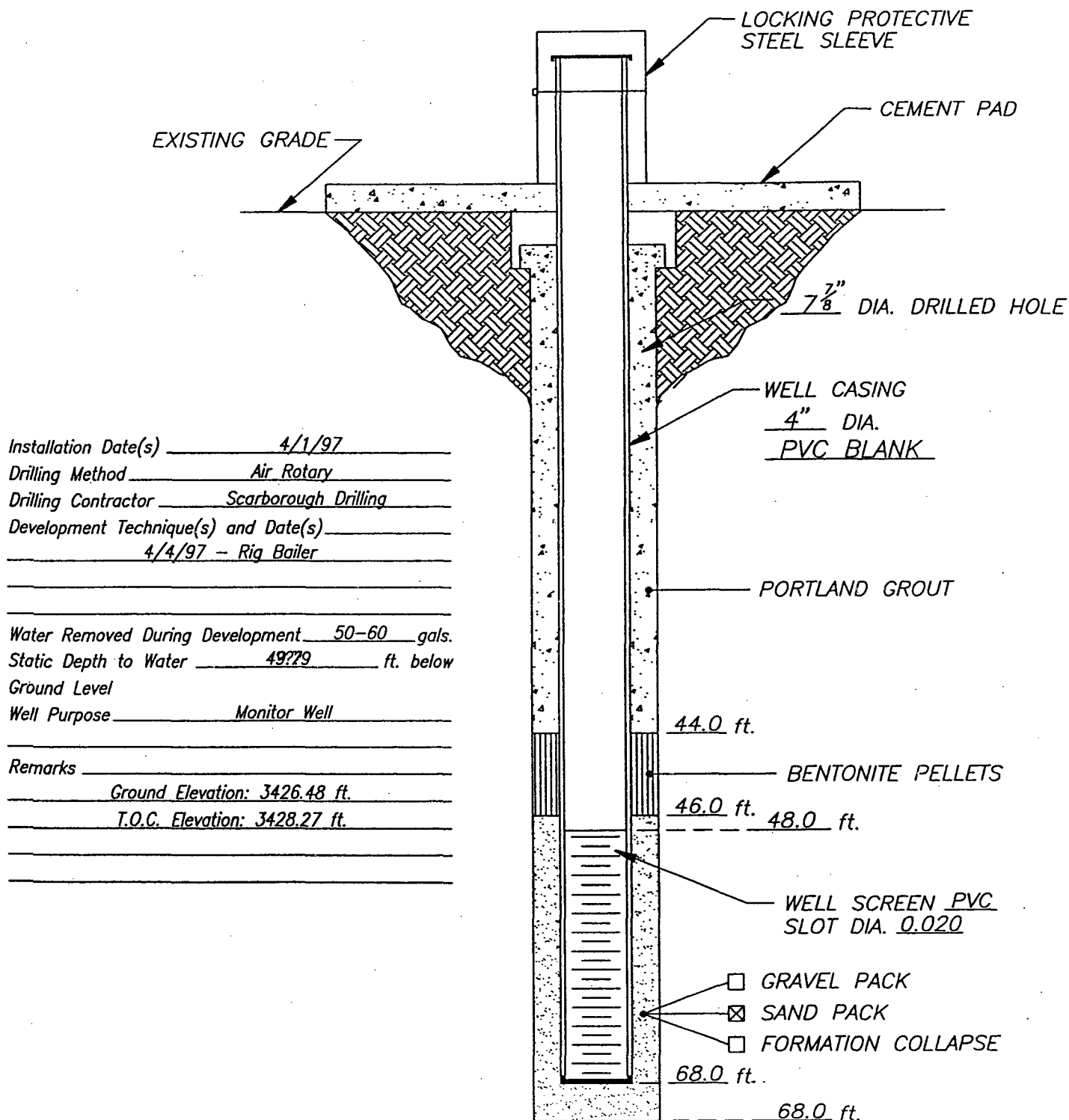
UNIQUE NUMBER: 31-014-00458

PLUG BACK: 8/16 Sand

-125.0' to -123.0'

[illegible]

WELL CONSTRUCTION LOG



DATE: 4/14/97.

*Highlander
Environmental*

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

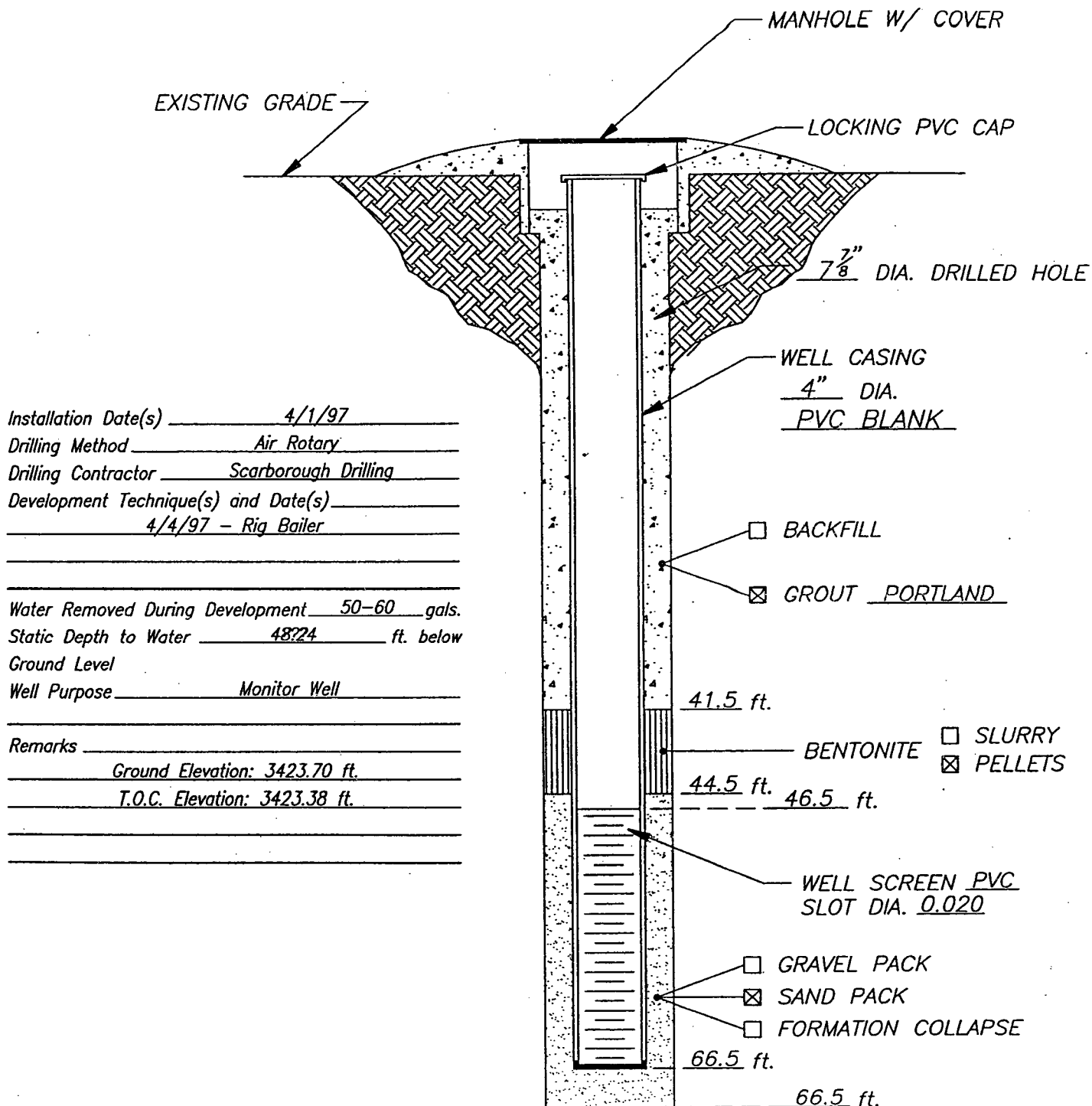
MW-3

SAMPLE LOG

Boring/Well: MW-3
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 68 feet
Date Installed: 4/1/97

[illegible]

WELL CONSTRUCTION LOG



DATE: 4/14/97

**Highlander
Environmental**

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

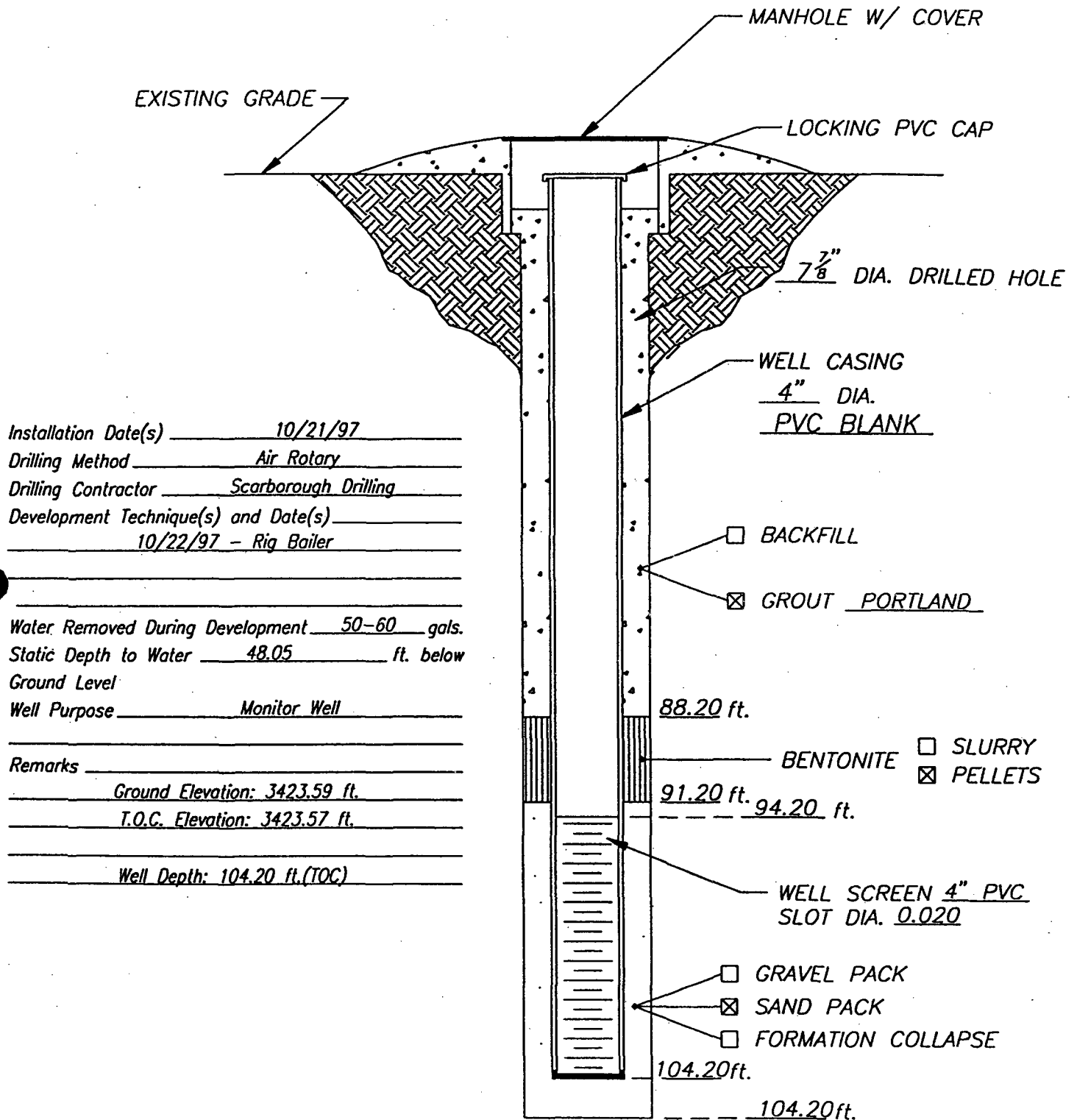
MW-4

SAMPLE LOG

Boring/Well: MW-4
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 66.5 feet
Date Installed: 4/1/97

[illegible]

WELL CONSTRUCTION LOG



D. 12/5/97

*Highlander
Environmental*

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

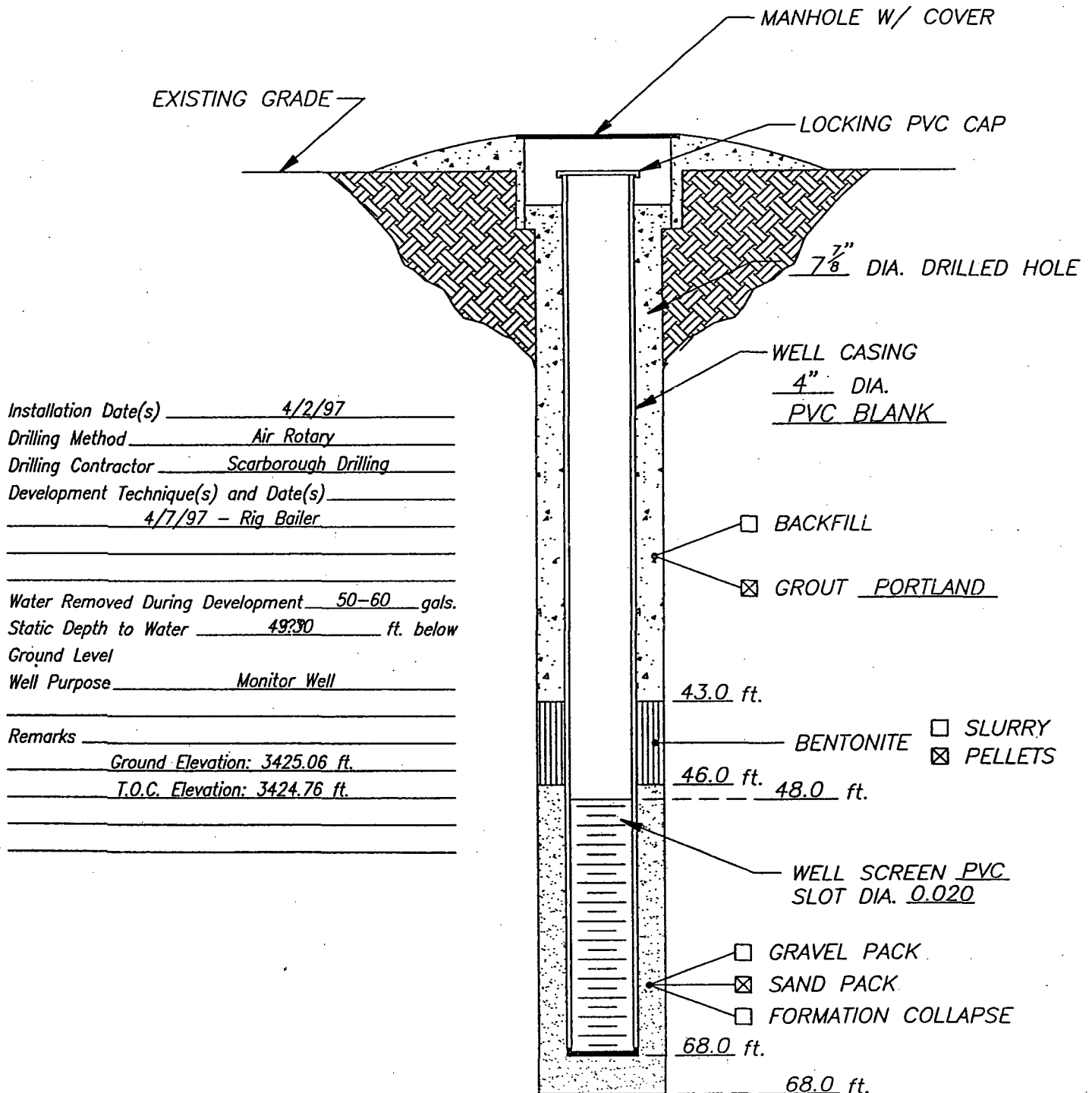
MW-4A

SAMPLE LOG

Boring/Well: MW-4A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 104 feet
Date Installed: 10/21/97

[illegible]

WELL CONSTRUCTION LOG



DATE: 4/14/97

**Highlander
Environmental**

CLIENT: *Texaco Exploration & Production, Inc.*
 PROJECT: *Eunice #1 (North) Plant*
 LOCATION: *Lea County, New Mexico*

WELL NO.

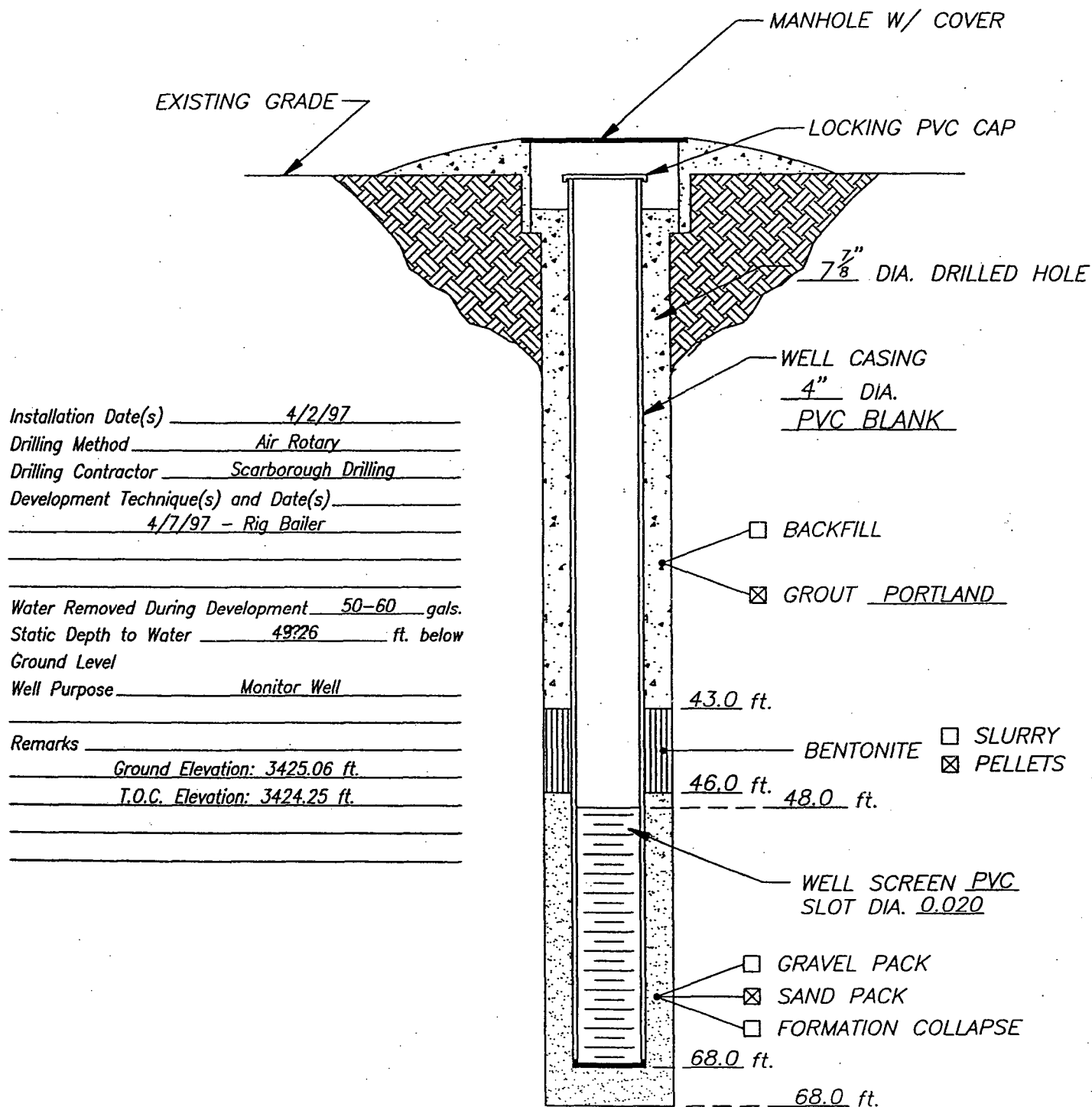
MW-5

SAMPLE LOG

Boring/Well: MW-5
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 68 feet
Date Installed: 4/2/97

[illegible]

WELL CONSTRUCTION LOG



DATE: 4/14/97

**Highlander
Environmental**

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

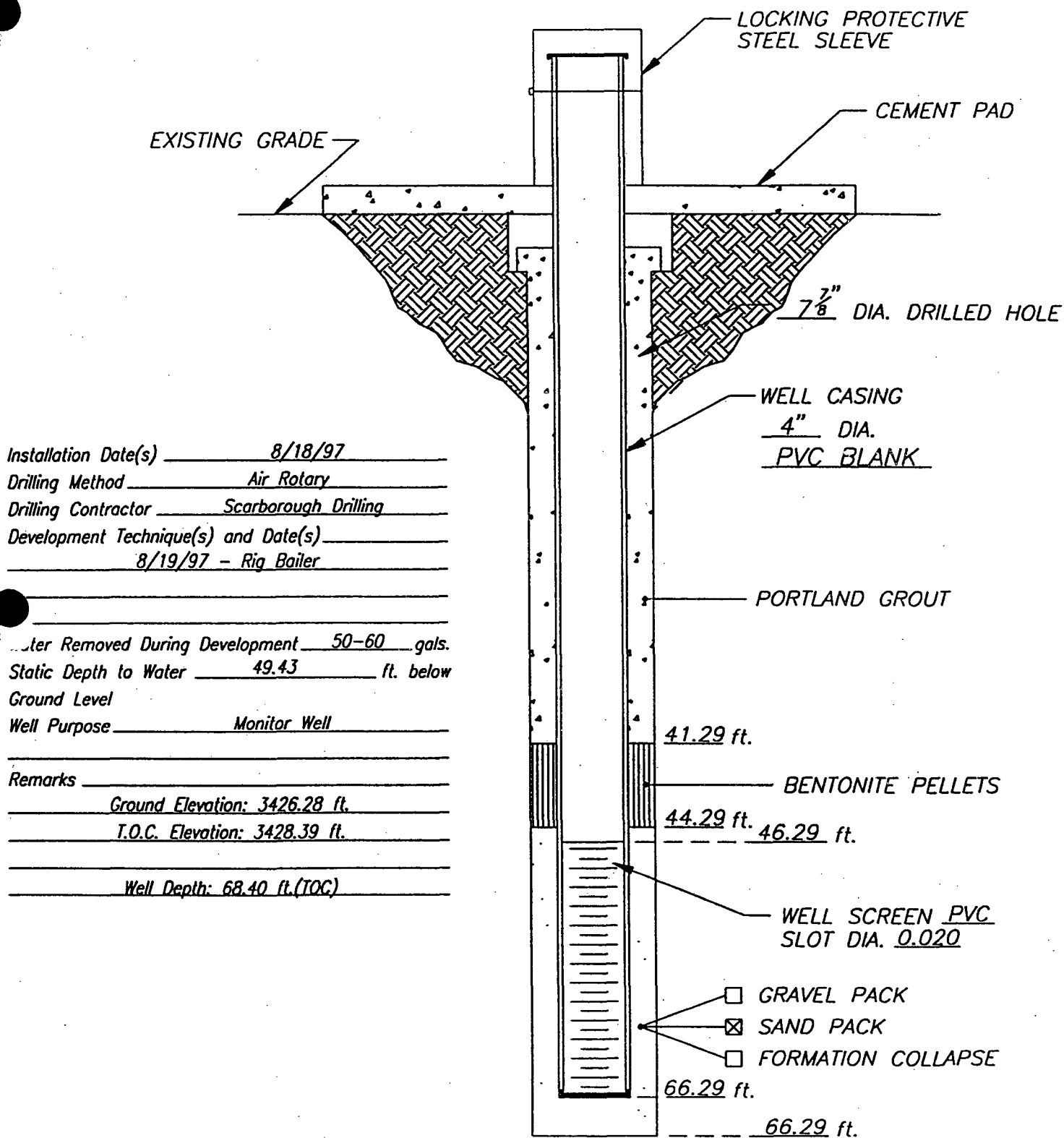
MW-6

SAMPLE LOG

Boring/Well: MW-6
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 68 feet
Date Installed: 4/2/97

[illegible]

WELL CONSTRUCTION LOG



D 8/18/97

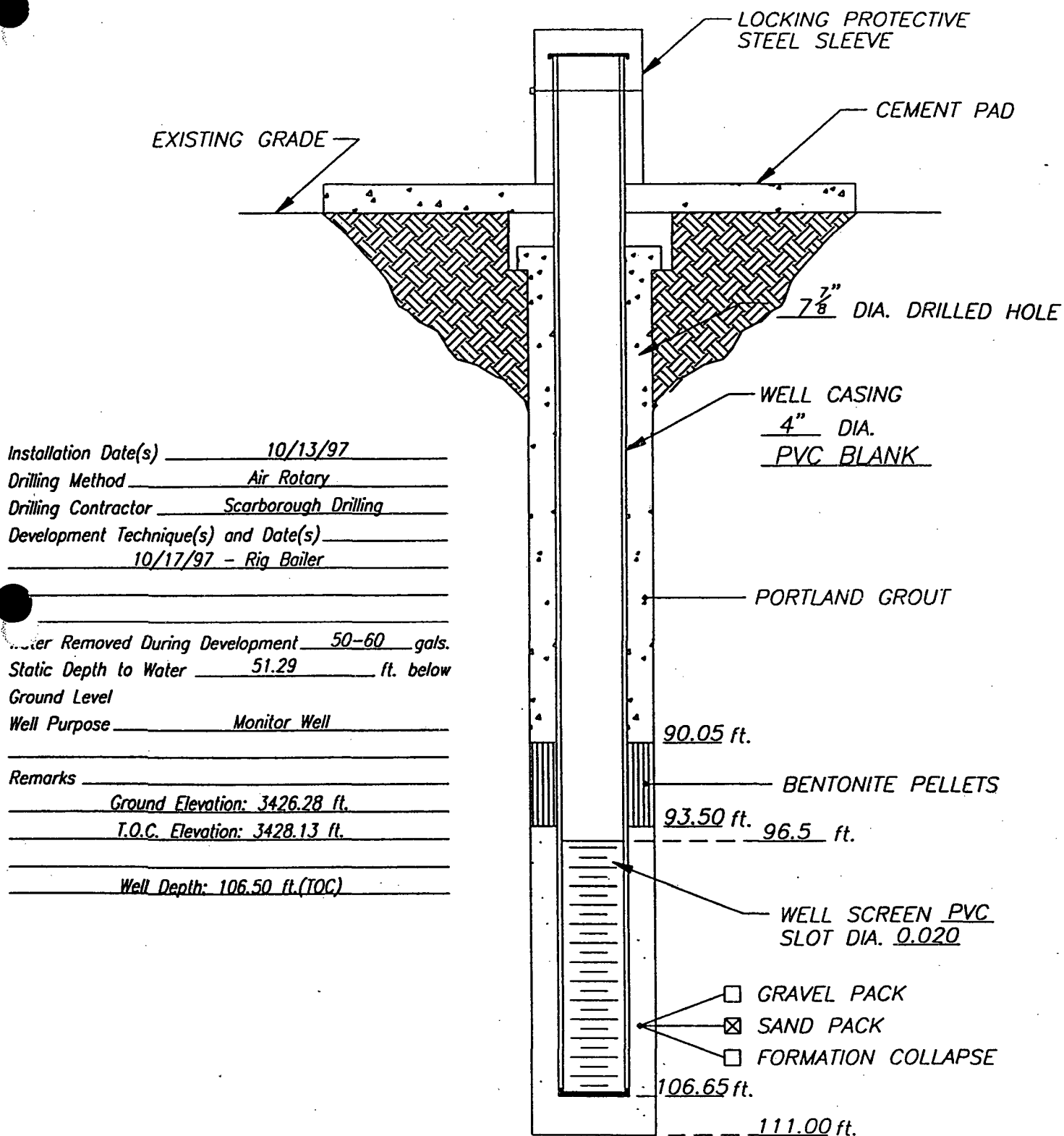
Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-7

WELL CONSTRUCTION LOG



D. 12/5/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

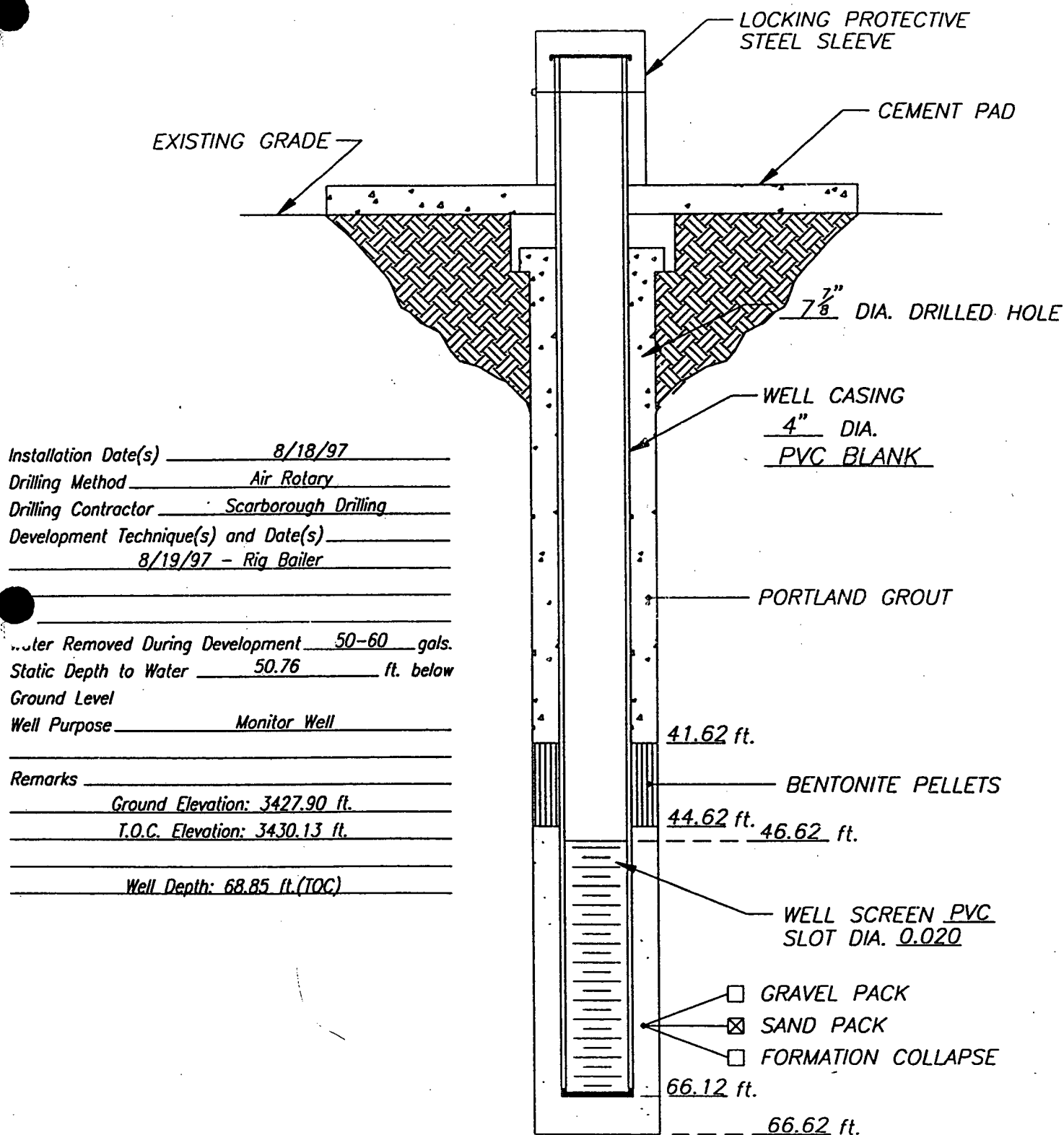
MW-7A

SAMPLE LOG

Boring/Well: MW-7/MW-7A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 111 feet
Date Installed: 10/13/97

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan and brown, fine grain sand, some traces of caliche at 7'-10'
10-20	Fine grain sand, dense caliche and sandstone layers
20-30	Tan, fine grain sand, traces of white caliche
30-40	Tan, fine grain sand, loose, dense layer of cemented sandstone at 38'-40'
40-50	Tan, fine grain sand, loose
50-60	Brown, fine grain sand, some layers of sandstone, dense
60-70	Brown, fine grain sand, well sorted, and loose
70-80	Brown, fine grain sand, some layers of sandstone, dense
80-85	Brown, fine grain sand, some layers of sandstone, dense, traces of red clay
85-90	Brown, fine grain sand, some layers of sandstone, dense
90-95	Brown, fine grain sand, some layers of sandstone, dense
95-100	Gravel and fine grain sand
100-105	80% fine grain sand, well sorted and 20% gravel
105-110	60% fine grain sand, well sorted and 20% gravel and brown clay
110-111	Redbed - clay
	TD - 111'

WELL CONSTRUCTION LOG



8/18/97

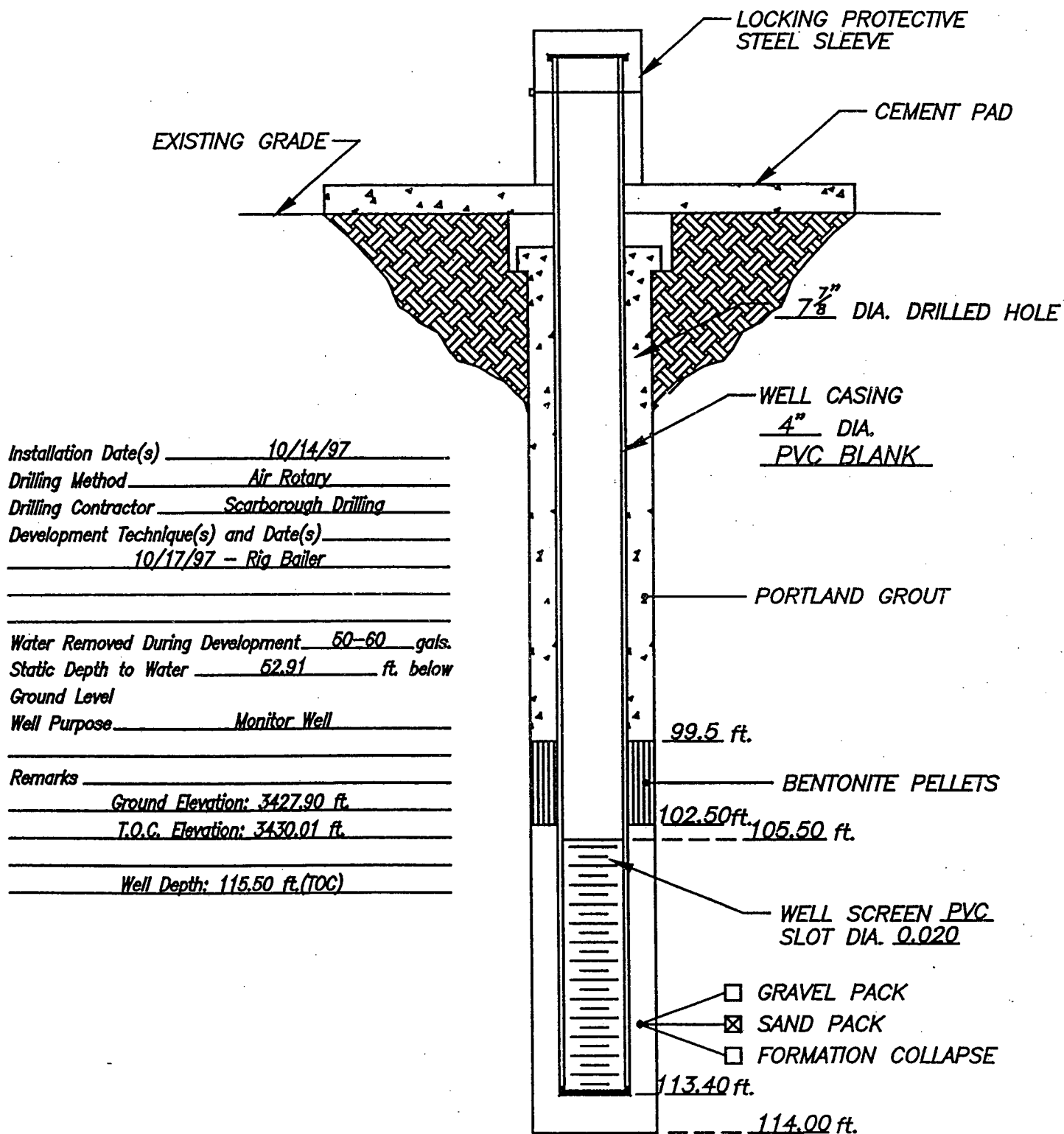
Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-8

WELL CONSTRUCTION LOG



DATE: 12/5/97

*Highlander
Environmental*

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.
MW-8A

SAMPLE LOG

Boring/Well: MW-8/MW-8A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 114 feet
Date Installed: 10/14/97

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan and brown, fine grain sand, some traces of caliche at 7'-10'
10-20	Fine grain sand, dense caliche and sandstone layers,
20-30	Tan, fine grain sand, cemented sandstone layers, traces of white caliche
30-40	Tan, fine grain sand, loose, dense layer of cemented sandstone at 38'-40'
40-50	Tan, fine grain sand, loose, some cemented sandstone
50-60	Tan, fine grain sand, some layers of sandstone, dense
60-70	Tan, fine grain sand, well sorted, and loose
70-80	Tan, fine grain sand, some layers of sandstone, dense
80-90	Tan, fine grain sand, some layers of sandstone, dense
90-100	Tan, fine grain sand, some layers of sandstone, dense
100-110	Tan, fine grain sand, some layers of sandstone, dense
110-112	Tan, fine grain sand, layers of cemented sandstone
112-113	Gravel and fine grain sand, well sorted, some brown clay
113-114	Redbed - clay
	TD - 114'



ARCADIS

WELL LOG

WELL NO.

MW008M

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary

SAMPLE METHOD: Shovel

DATE BEGUN: 8/20/01

DATE COMPLETED: 8/20/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.95'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,430.27'

FILE NAME: MW008M.dat

UNIQUE NUMBER: 31-014-00263

STATIC WATER LEVEL: -51.71' MEAS. PT.: T.O.C.

DATE: 10/01/01

HOLE SIZE(S): 8"

TOTAL DEPTH: -85.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Cement w/5% Bentonite

-65.0' to Surface

SEAL TYPE: Bentonite

-70.0' to -65.0'

SCREEN PACK: 8/16 Ind. Quartz

-85.0' to -70.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-75.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-85.0' to -75.0'

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel							SAND 5 YR 4/6 yellow red, fine-grained to medium-grained.	
-5		Shovel							SAND 7.5 YR 7/4 pink, 50% SAND, fine-grained to medium-grained, 40% CALICHE, 10% CLAY.	
-10		Shovel							CALICHE 7.5 YR 8/4 pink, 70% CALICHE, 30% SAND. fine-grained to medium-grained, soft to firm.	
-15		Shovel							SANDSTONE 7.5 YR 5/6 strong brown, 70% SANDSTONE, 30% CALICHE, 7.5 YR 7/4 pink, fine-grained to medium-grained, soft.	
-20		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, 25% SANDSTONE, 7.5 YR 6/4 light brown, interbeds, fine-grained to medium-grained, soft to firm.	
-25		Shovel								
-30		Shovel								
-35		Shovel								
-40		Shovel								



ARCADIS

WELL LOG

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

WELL NO.

MW008M

Page 2 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

DRILLING CO: Lea County, New Mexico

DRILLING METHOD: Rotary

SAMPLE METHOD: Shovel

DATE BEGUN: 8/20/01

DRILLER: S. Scarborough

LOGGER: L. Markham

FILE NAME: MW008M.dat

DATE COMPLETED: 8/20/01

ELEVATION (SURF.): 3,427.95'

ELEVATION (T.O.C.): 3,430.27'

UNIQUE NUMBER: 31-014-00263

STATIC WATER LEVEL: -51.71' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Cement w/5% Bentonite

SEAL TYPE: Bentonite

SCREEN PACK: 8/16 Ind. Quartz

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: —

-65.0' to Surface

-70.0' to -65.0'

-85.0' to -70.0'

-75.0' to 2.0'

—

—

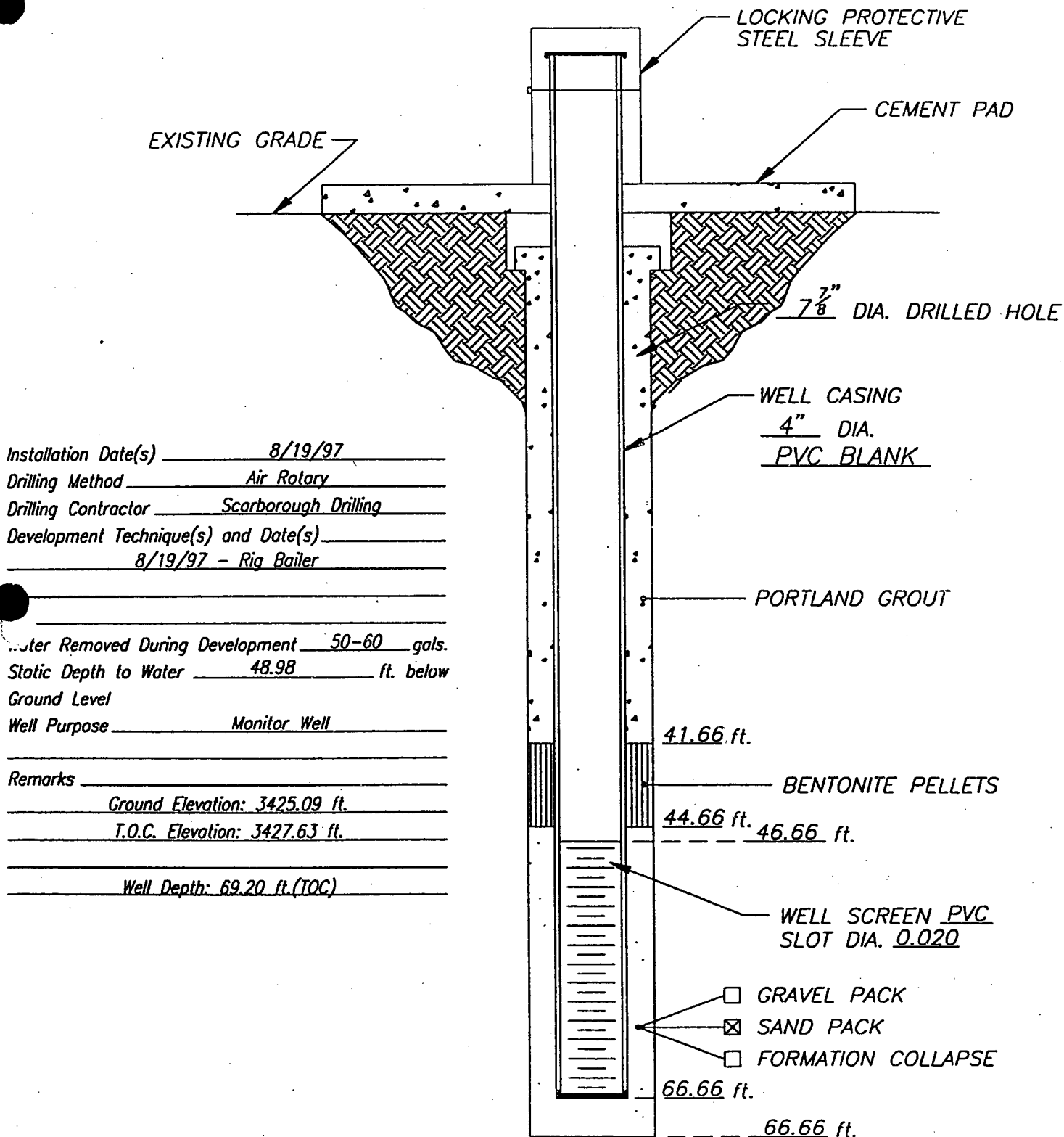
-85.0' to -75.0'

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45		Shovel								
		Shovel								
		Shovel								
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel								
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								
		Shovel								
		Shovel								
-80		Shovel								
		Shovel								
		Shovel								
-85		Shovel								

SANDSTONE 7.5 YR 4/6 strong brown, 5% SANDSTONE, 7.5 YR 6/4 light brown, interbeds, fine-grained to medium-grained, soft.

WELL CONSTRUCTION LOG



DATE 8/19/97

**Highlander
Environmental**

CLIENT: *Texaco Exploration & Production, Inc.*

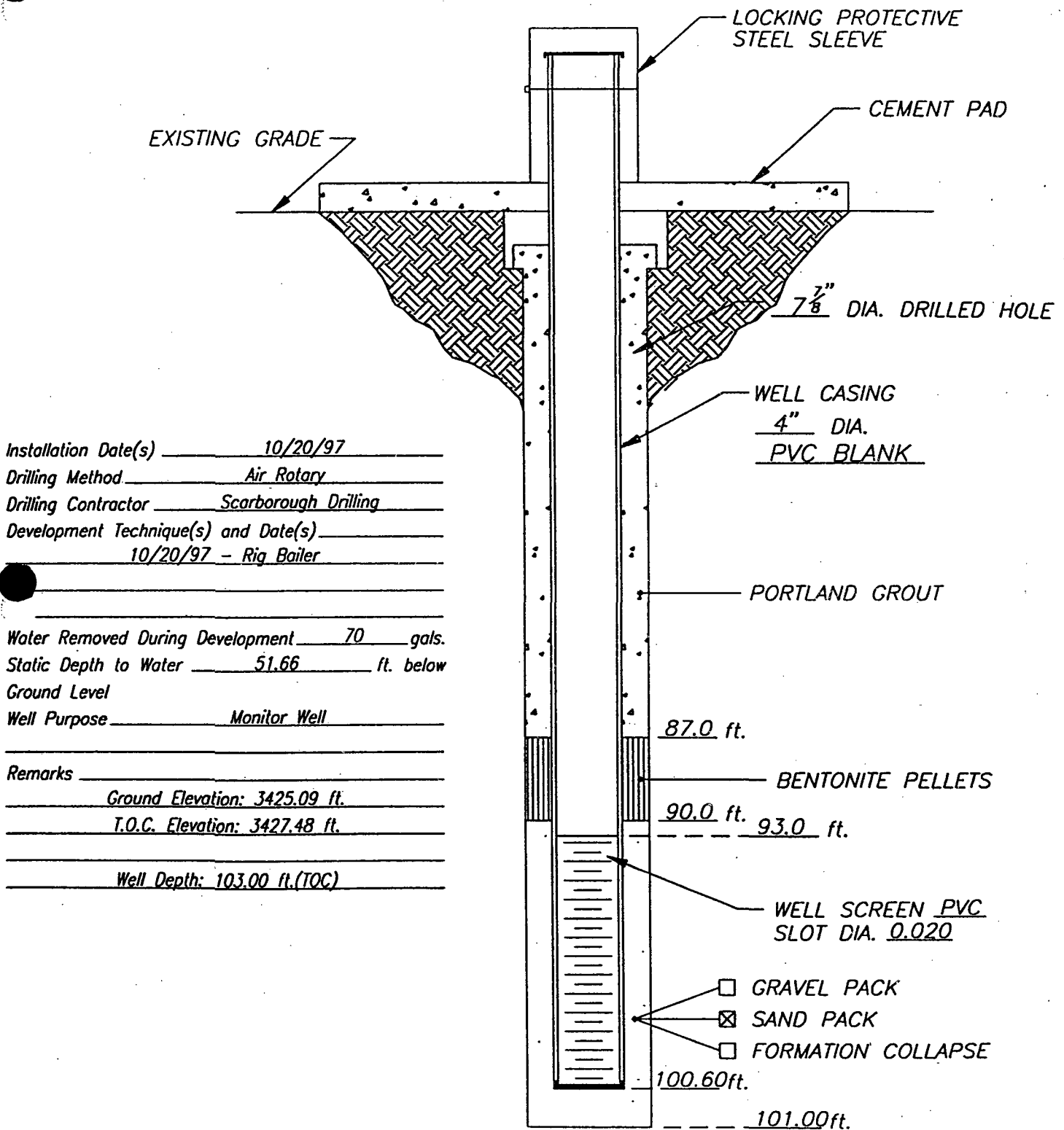
PROJECT: *Eunice #1 (North) Plant*

LOCATION: *Lea County, New Mexico*

WELL NO.

MW-9

WELL CONSTRUCTION LOG



DA 12/5/97

**Highlander
Environmental**

CLIENT: *Texaco Exploration & Production, Inc.*
 PROJECT: *Eunice #1 (North) Plant*
 LOCATION: *Lea County, New Mexico*

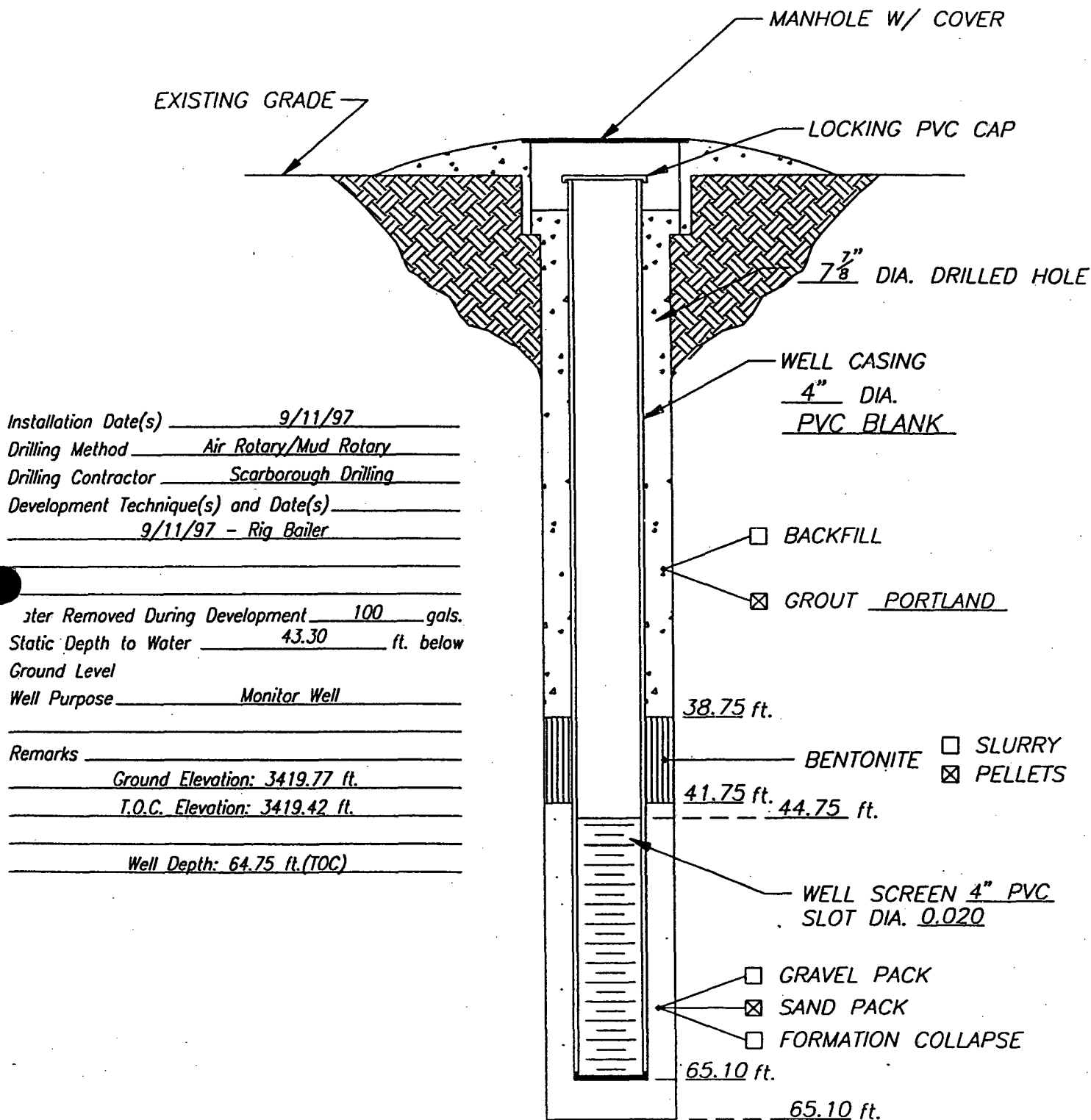
WELL NO.
MW-9A

SAMPLE LOG

Boring/Well: MW-9/MW-9A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 100 feet
Date Installed: 10/20/97

[illegible]

WELL CONSTRUCTION LOG



12/5/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-10

SAMPLE LOG

Boring/Well: MW-10
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 65 feet
Date Installed: 9/11/97

[illegible]

Project No: 787

Well ID: MW-11

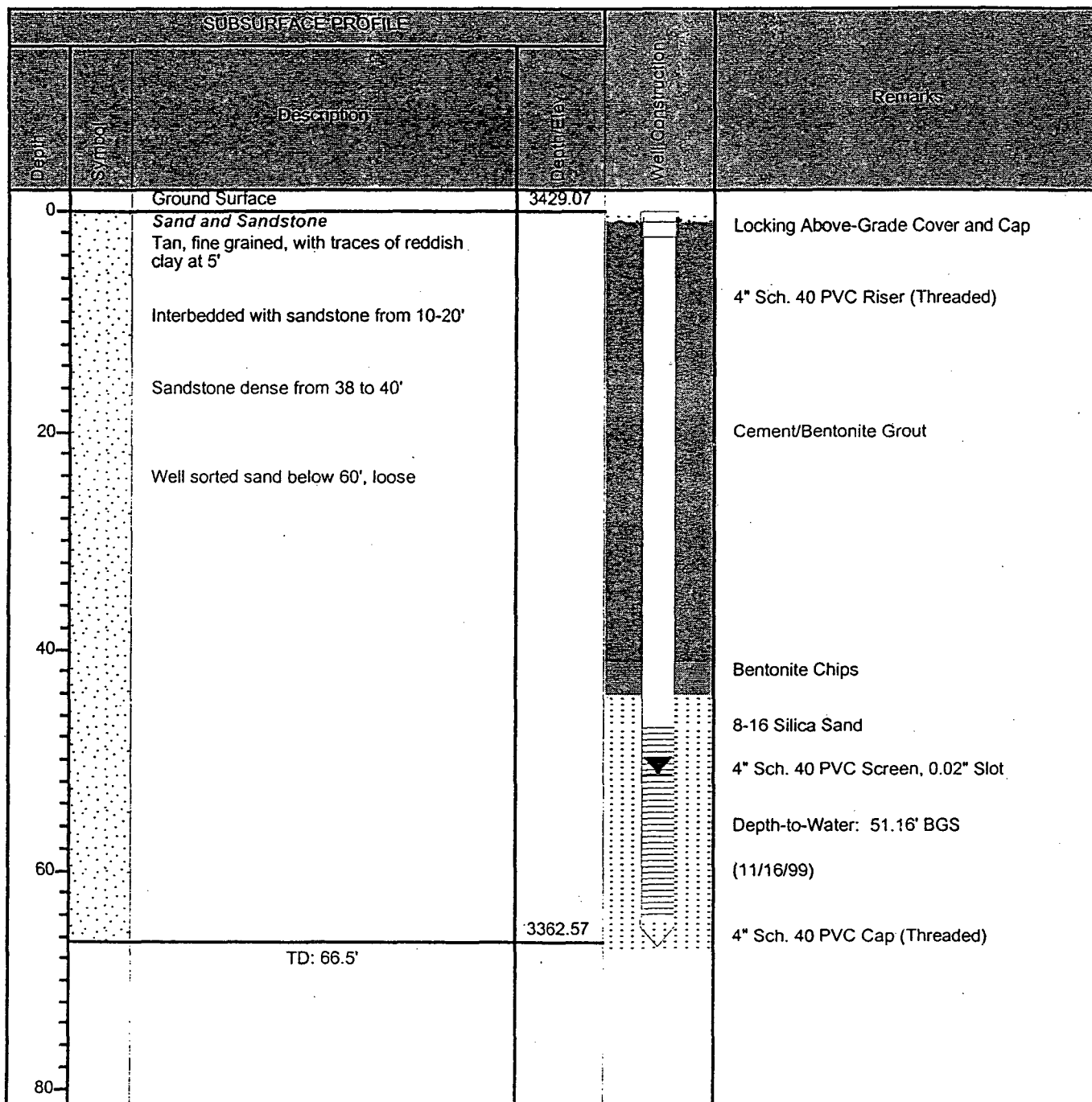
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

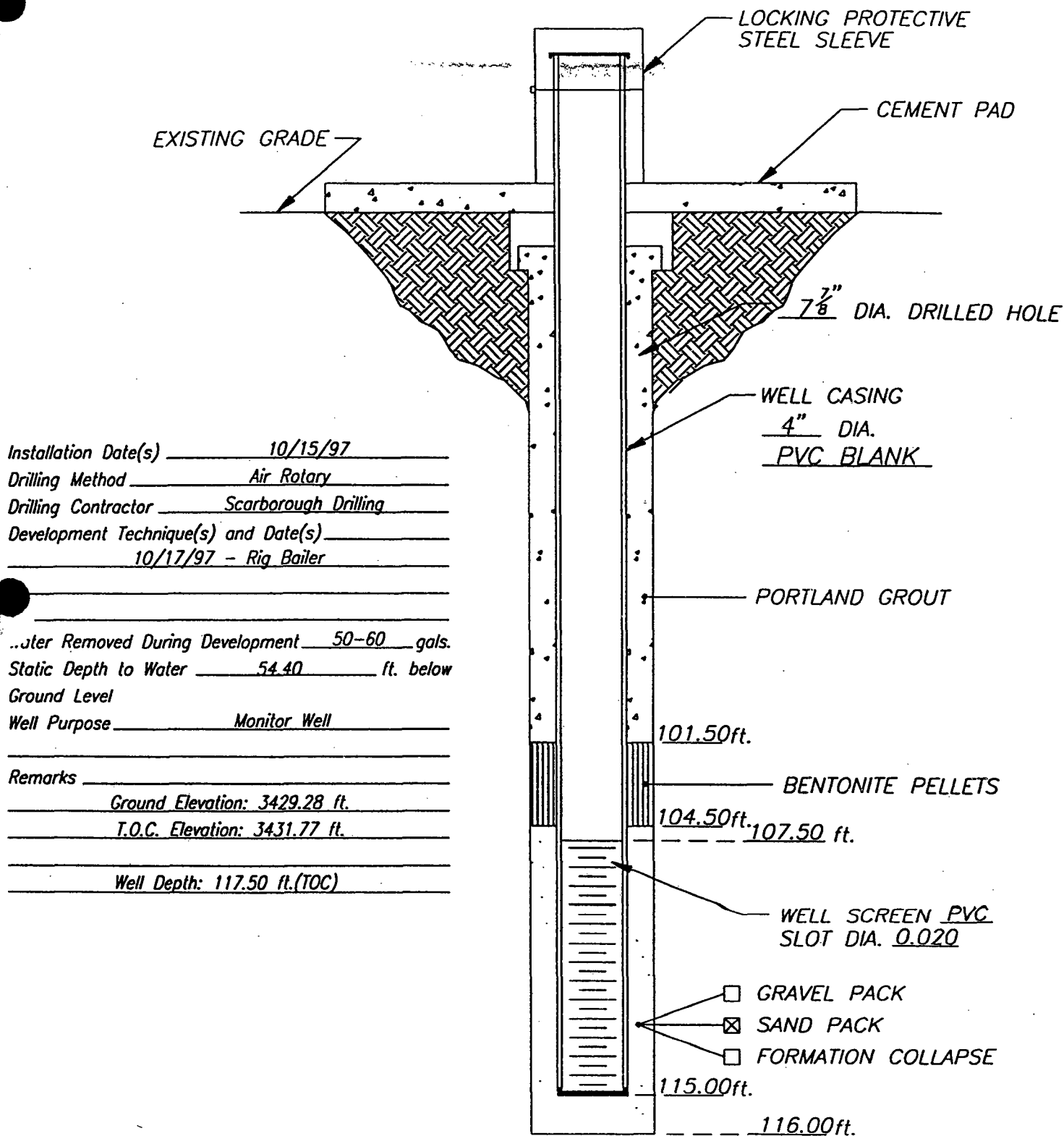
Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 06-Jan-99

Sheet: 1 of 1

WELL CONSTRUCTION LOG



12/5/97

*Highlander
Environmental*

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-11A

SAMPLE LOG

Boring/Well: MW-11A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 116 feet
Date Installed: 10/15/97

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan and brown, fine grain sand, some traces reddish clay at 5.0'
10-20	Fine grain sand, dense caliche and sandstone layers
20-30	Tan, fine grain sand, cemented sandstone layers, traces of white caliche
30-40	Tan, fine grain sand, loose, dense layer of cemented sandstone at 38'-40'
40-50	Tan, fine grain sand, loose, some cemented sandstone
50-60	Tan, fine grain sand, some layers of sandstone, dense
60-70	Tan, fine grain sand, well sorted, and loose
70-80	Tan, fine grain sand, some layers of sandstone, dense
80-90	Tan, fine grain sand, some layers of sandstone, dense at 85.0' to 86.0'
90-100	Tan, fine grain sand, some traces of sandstone
100-115	Tan, fine grain sand and gravel, some traces of clay
115-116	Tan, fine grain sand and gravel
116	Redbed - clay
	TD - 116'



ARCADIS

WELL LOG

WELL NO.

MW011M

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 3

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -52.68' MEAS. PT.: T.O.C.

DATE: 10/01/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -90.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Cement w/5% Bentonite

-70.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite

-75.0' to -70.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Ind. Quartz

-90.0' to -75.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-80.0' to 2.0'

DATE BEGUN: 8/21/01

DATE COMPLETED: 8/21/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.38'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,431.21'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-90.0' to -80.0'

FILE NAME: MW011M.dat

UNIQUE NUMBER: 31-014-00264

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel							CLAY 7.5 YR 4/6 strong brown, 60% CLAY, sticky, 35% SAND, very fine-grained, 5% SILT.	
-5		Shovel							CLAY 7.5 YR 4/6 strong brown, 80% CLAY, sticky, 10% SAND, very fine-grained, 10% SILT.	
-10		Shovel							SANDSTONE 7.5 YR 5/6 strong brown, SAND fine-grained to medium-grained, 20% CLAY, 5% CALICHE, soft to firm.	
-15		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, 20% CALICHE interbeds, 7.5 YR 8/3 pink, SANDSTONE, fine-grained to medium-grained, soft to firm.	
-20		Shovel							SANDSTONE 10 YR 7/3 very pale brown, with 10% CALICHE interbeds, 10 YR 8/3 very pale brown, SANDSTONE, fine-grained to medium-grained.	
-25		Shovel								
-30		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, with 10% SANDSTONE, 10 YR 7/3 very pale brown, interbeds, fine-grained to medium-grained, soft.	
-35		Shovel								
-40		Shovel								



WELL NO.

MW011M

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 3

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -52.68' MEAS. PT.: T.O.C.

DATE: 10/01/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -90.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Cement w/5% Bentonite

-70.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite

-75.0' to -70.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Ind. Quartz

-90.0' to -75.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-80.0' to 2.0'

DATE BEGUN: 8/21/01

DATE COMPLETED: 8/21/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.38'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,431.21'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-90.0' to -80.0'

FILE NAME: MW011M.dat

UNIQUE NUMBER: 31-014-00264

PLUG BACK:

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OWM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45		Shovel								
		Shovel								
		Shovel								
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, with 50% SANDSTONE, 10 YR 7/3 very pale-brown, interbeds, fine-grained to medium-grained, soft.	
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								
		Shovel								
		Shovel								
-80		Shovel								
		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, with 25% CLAY, 7.5 YR 5/6 CLAY, SANDSTONE, fine-grained to medium-grained, soft.	
		Shovel								
-85		Shovel								
		Shovel								
		Shovel							SAND 7.5 YR 4/6 strong brown, SAND, very coarse-grained, subangular to angular, 20% CLAY.	



WELL NO.

MW011M

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 3 of 3

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -52.68' MEAS. PT.: T.O.C.

DATE: 10/01/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -90.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Cement w/5% Bentonite

-70.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite

-75.0' to -70.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Ind. Quartz

-90.0' to -75.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-80.0' to 2.0'

DATE BEGUN: 8/21/01

DATE COMPLETED: 8/21/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.38'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,431.21'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-90.0' to -80.0'

FILE NAME: MW011M.dat

UNIQUE NUMBER: 31-014-00264

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
90										

Project No: 787

Well ID: MW-12

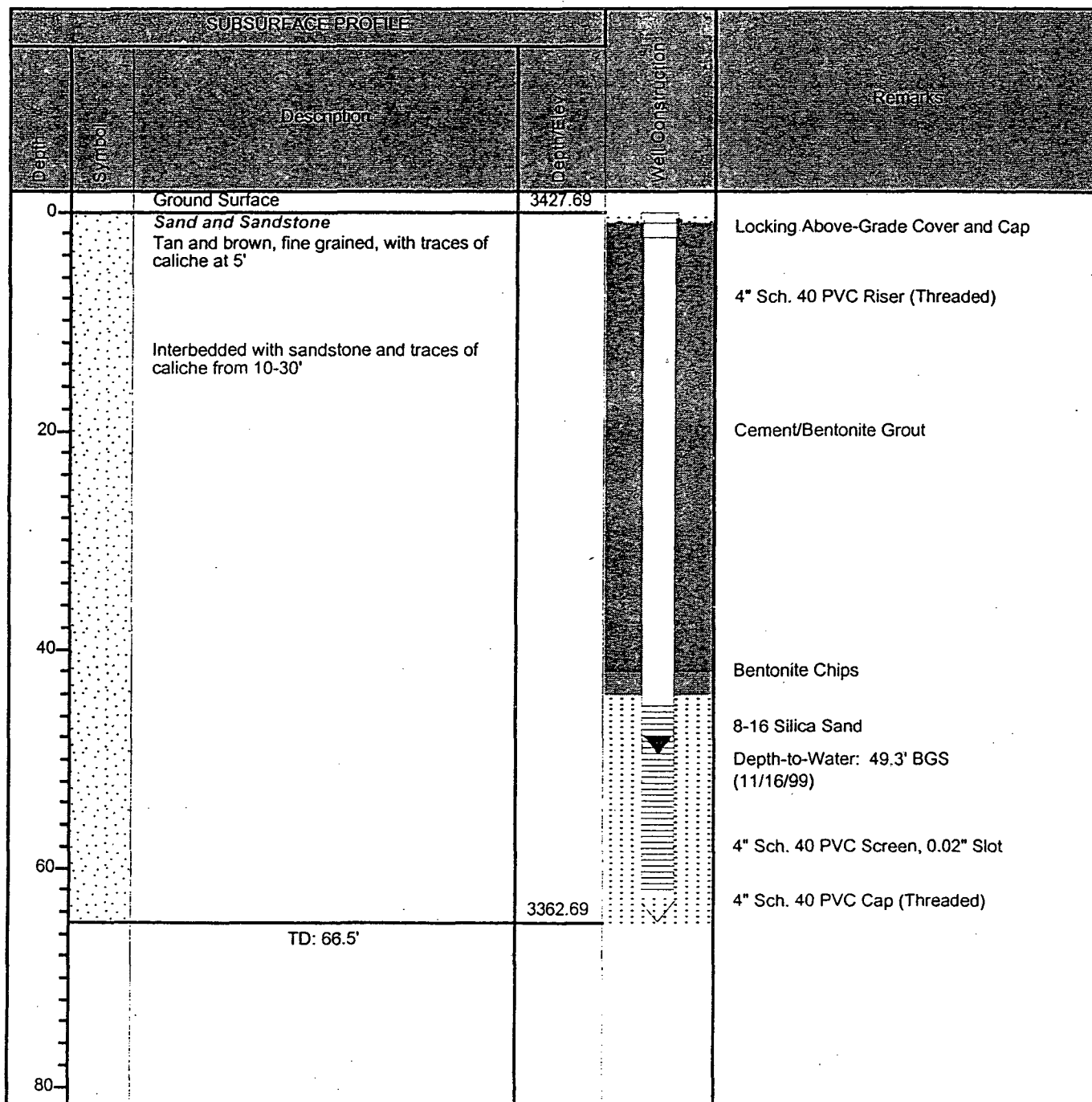
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

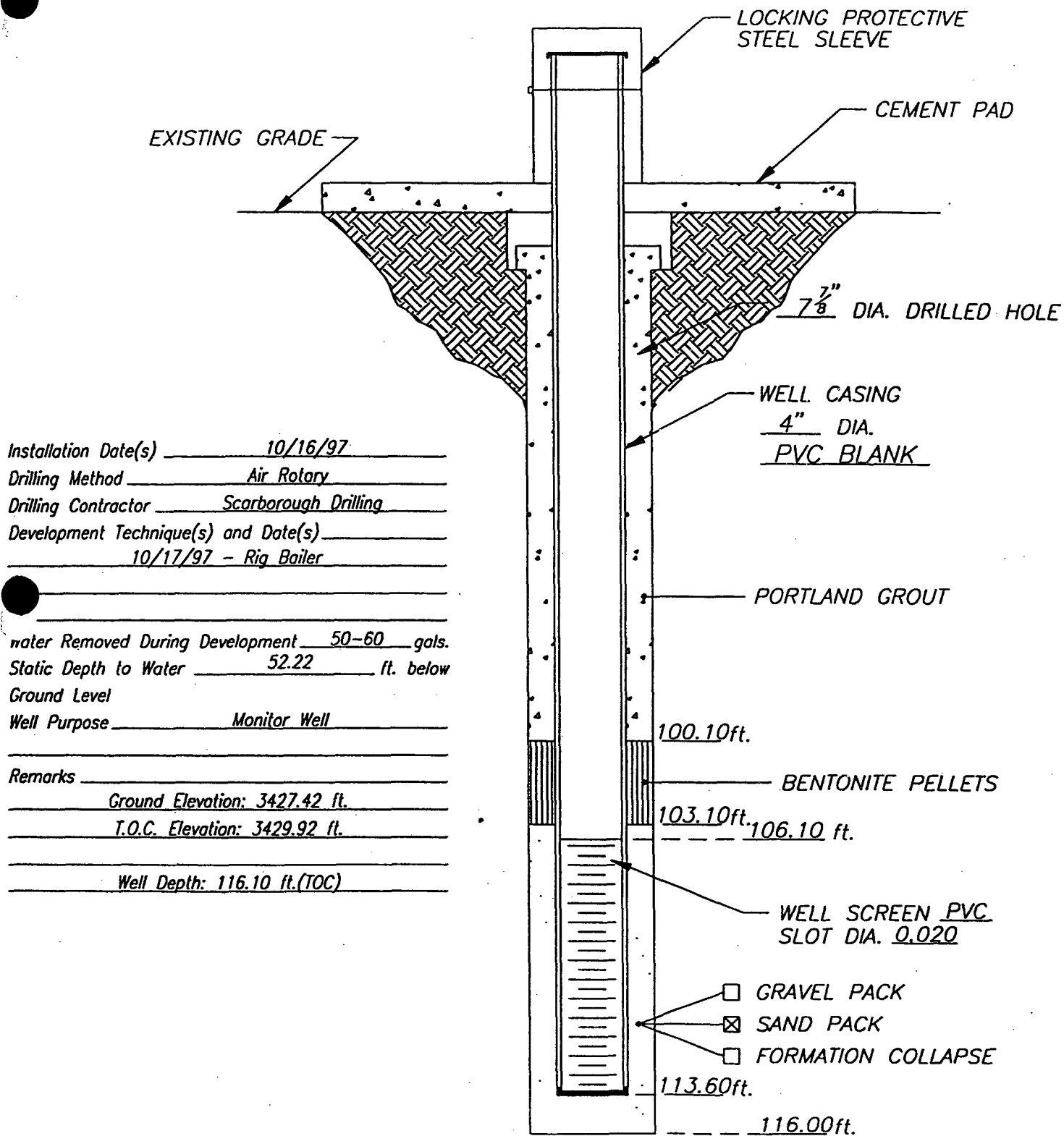
Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 11-Feb-99

Sheet: 1 of 1

WELL CONSTRUCTION LOG



0. : 12/5/97

*Highlander
Environmental*

CLIENT: *Texaco Exploration & Production, Inc.*

PROJECT: Eunice #1 (North) Plant

LOCATION: *Lea County, New Mexico*

WELL NO.

MW-12A

SAMPLE LOG

Boring/Well:	MW-12A
Site Location:	Texaco E & P Eunice (North) Gas Plant
Location:	Eunice, New Mexico
Total Depth:	116 feet
Date Installed:	10/16/97

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan and brown, fine grain sand, some traces of caliche
10-20	Fine grain sand, dense caliche and sandstone layers
20-30	Tan, fine grain sand, cemented sandstone layers, traces of white caliche
30-40	Tan, fine grain sand, loose, dense layer of cemented sandstone
40-50	Tan, fine grain sand, loose, some cemented sandstone
50-60	Tan, fine grain sand, some layers of sandstone, dense
60-70	Tan, fine grain sand, well sorted, and loose
70-80	Tan, fine grain sand, some layers of sandstone, dense
80-90	Tan, fine grain sand, some layers of sandstone, dense at 85.0' to 86.0'
90-100	Tan, fine grain sand, traces of cemented sandstone layers
100-105	Tan, fine grain sand and gravel, traces of clay
105-113	Gravel and fine grain sand, traces of brown clay
113-116	Tan, fine grain sand and gravel, traces of red clay
116	Redbed - clay
	TD - 116'



ARCADIS

WELL LOG

WELL NO.

MW012M

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 11/13/01

DATE COMPLETED: 11/13/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.77'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,430.06'

FILE NAME: MW012M.dat

UNIQUE NUMBER: 31-014-00400

STATIC WATER LEVEL: -50.95' MEAS. PT.: T.O.C.

DATE: 01/21/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -90.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-74.0' to Surface

SEAL TYPE: Bentonite Chips

-77.0' to -74.0'

SCREEN PACK: 8/16 Sand

-90.0' to -77.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-80.0' to 2.0'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-90.0' to -80.0'

PLUG BACK: 8/16 Sand

-93.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SANDY CLAY 2.5 YR 4/6 red, 40% fine-grained to medium-grained SAND, well rounded, soft.	
-5		Shovel								
-10		Shovel							CALICHE 7.5 YR 8/3 pink, very fine-grained to medium-grained, 30% SAND, 20% CLAY, soft.	
-15		Shovel							CALICHE 7.5 YR 8/3 pink, very fine to fine grained, 30-40% SAND, soft to friable.	
-20		Shovel								
-25		Shovel								
-30		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, fine-grained to medium-grained, 20-40% SANDSTONE, 7.5 YR 6/4 light brown, interbeds, soft to firm.	
-35		Shovel								
-40		Shovel								
-45		Shovel								



WELL NO.

MW012M

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -50.95' MEAS. PT.: T.O.C.

DATE: 01/21/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -90.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 11/13/01

DATE COMPLETED: 11/13/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.77'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,430.06'

FILE NAME: MW012M.dat

UNIQUE NUMBER: 31-014-00400

GROUT TYPE: Portland Cement w/5% Bentonite

DEPTHS

SEAL TYPE: Bentonite Chips

-74.0' to Surface

SCREEN PACK: 8/16 Sand

-77.0' to -74.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-90.0' to -77.0'

-80.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

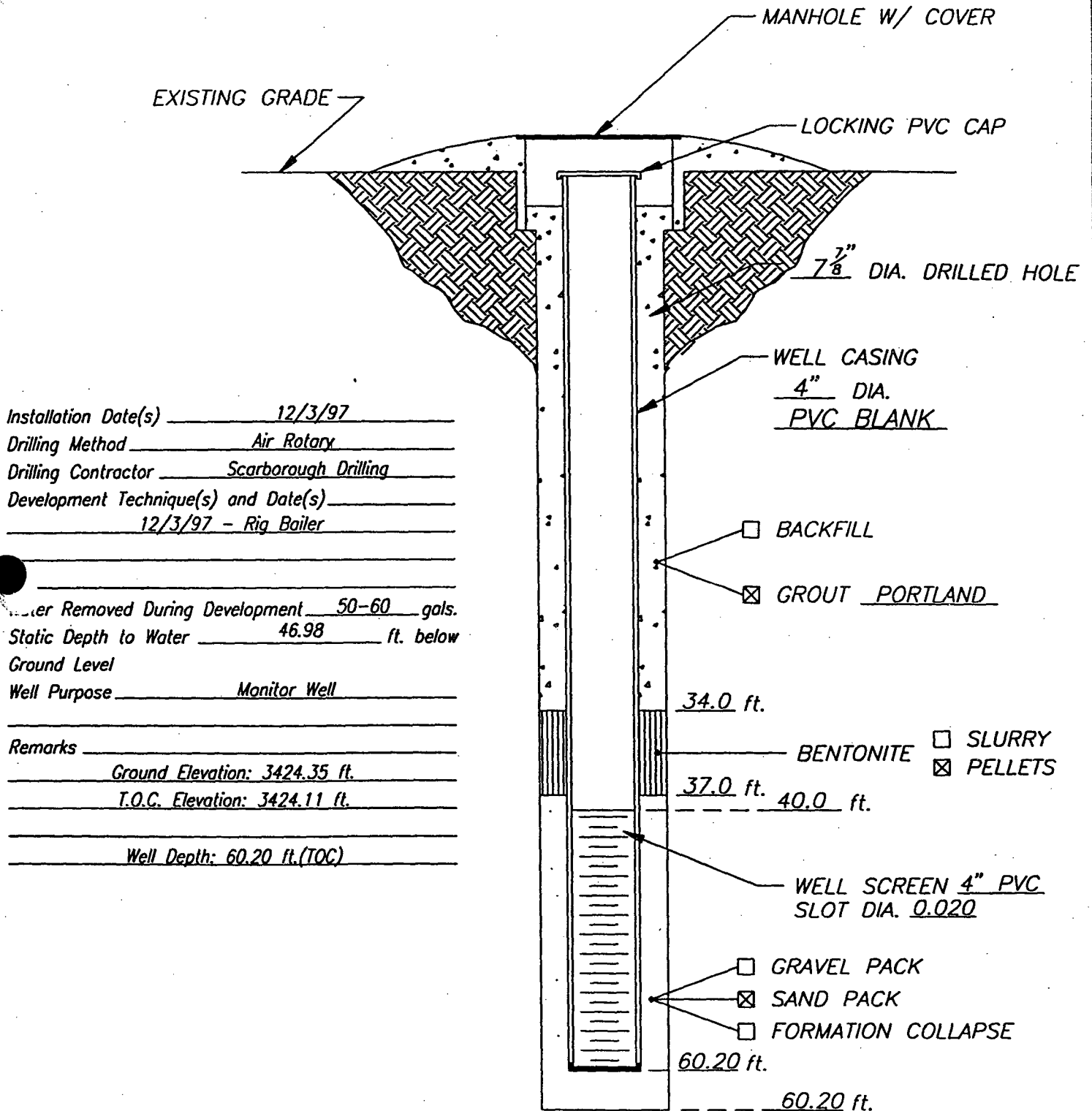
-90.0' to -80.0'

PLUG BACK: 8/16 Sand

-93.0' to -90.0'

[illegible]

WELL CONSTRUCTION LOG



DATE 12/9/97

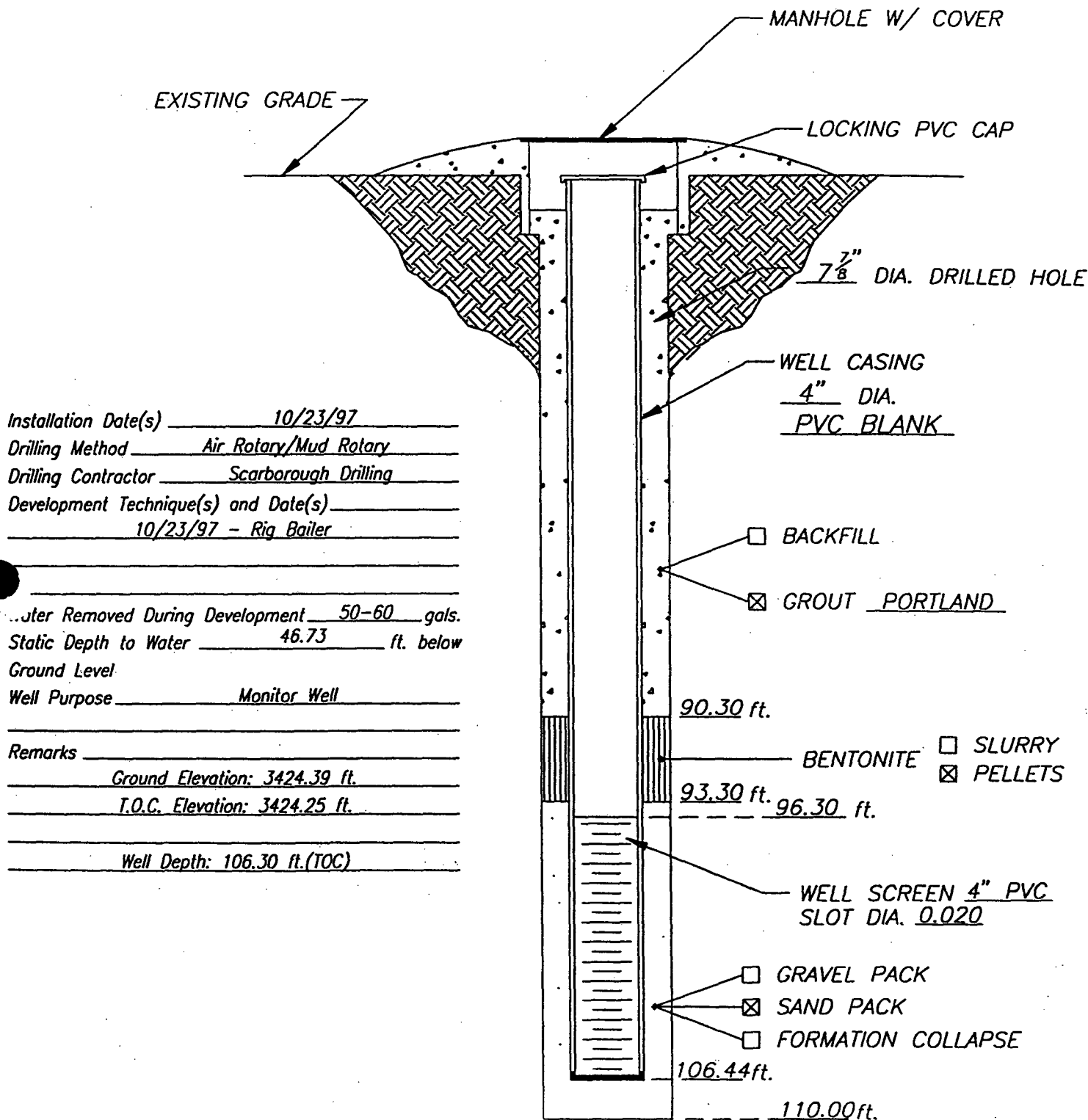
**Highlander
Environmental**

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-13

WELL CONSTRUCTION LOG



12/5/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-13A

SAMPLE LOG

Boring/Well: MW-13/MW-13A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 110 feet
Date Installed: 10/23/97

[illegible]

Project No: 787

Well ID: MW-14

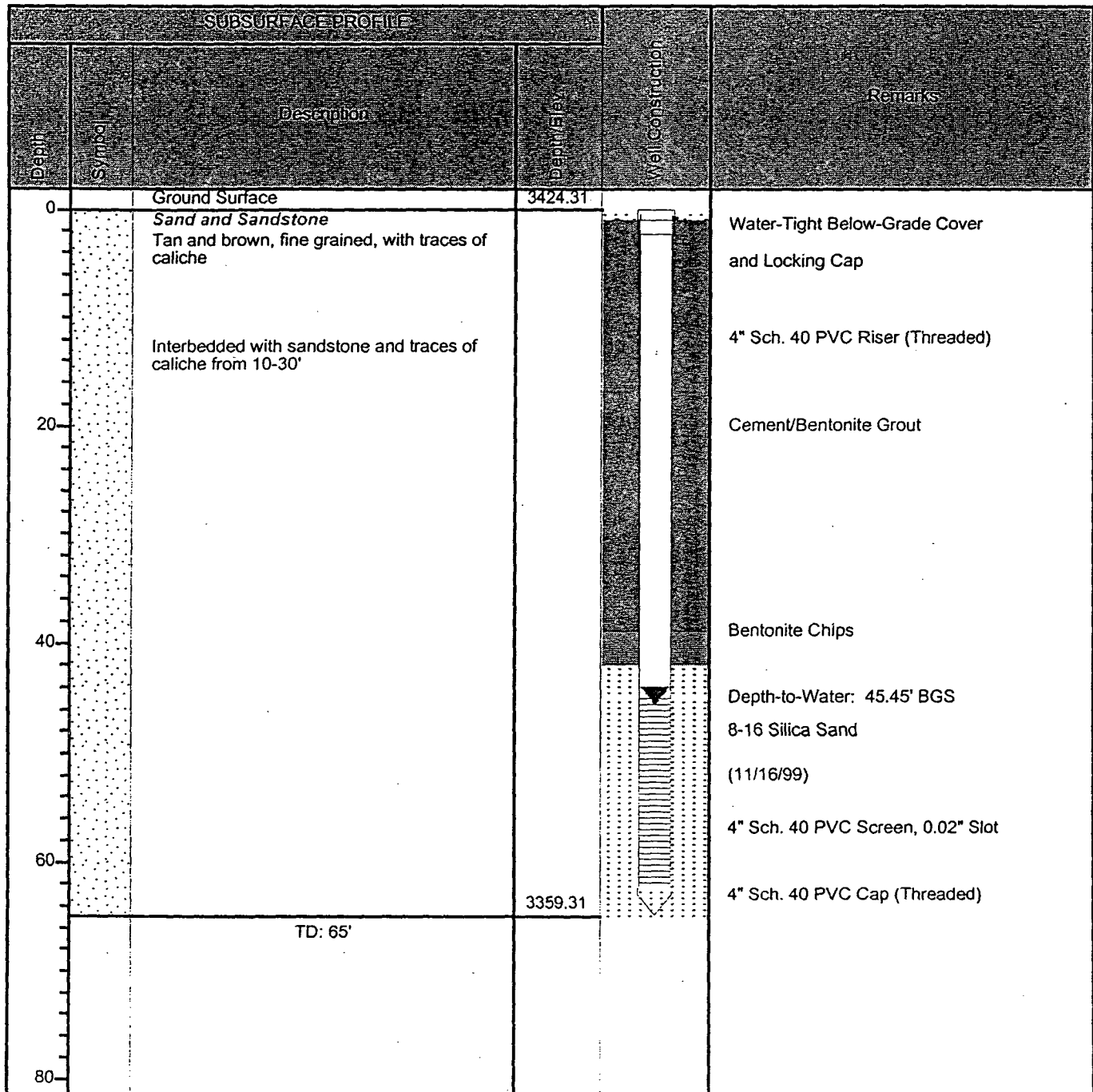
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

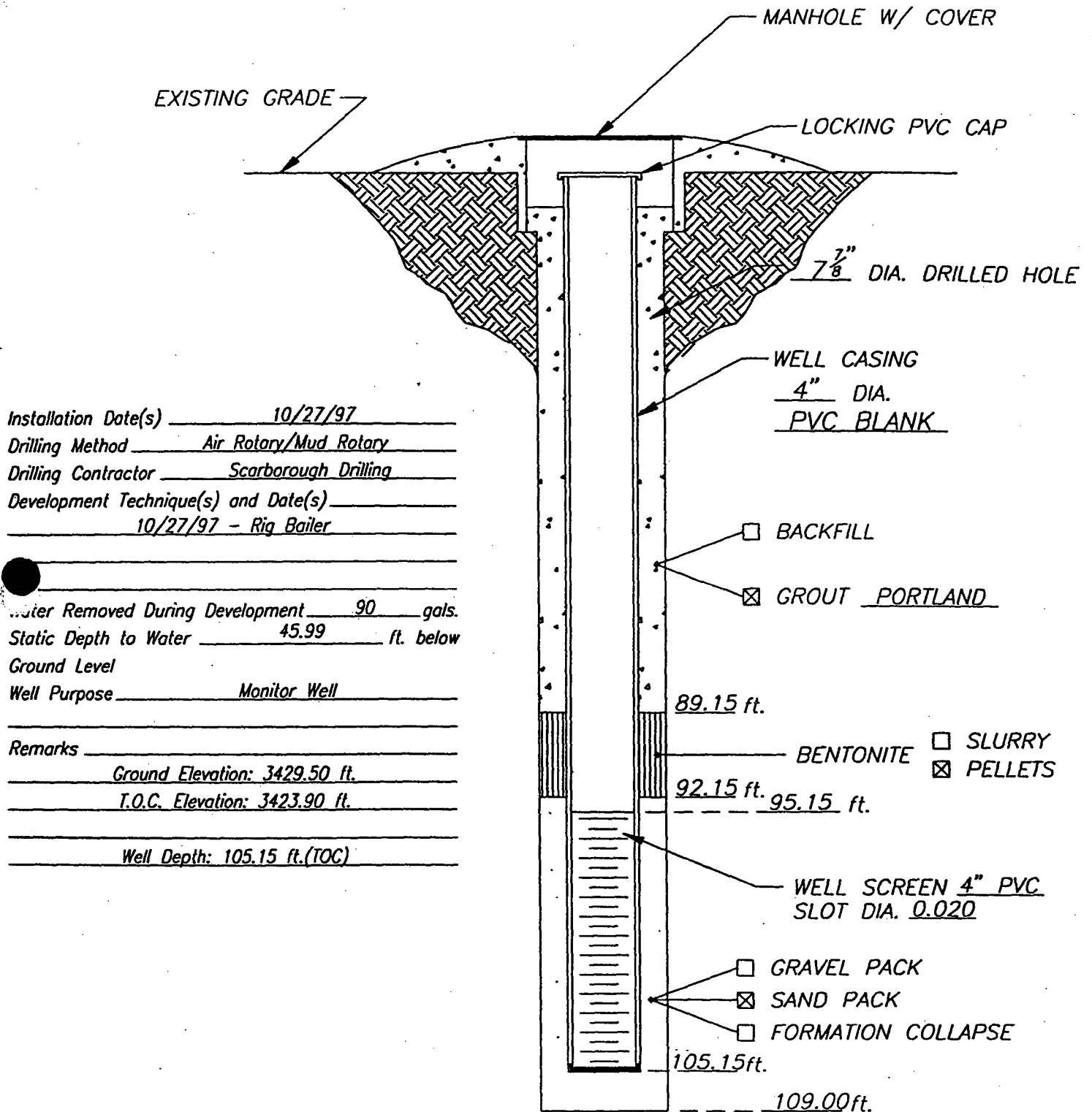
Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 06-May-99

Sheet: 1 of 1

WELL CONSTRUCTION LOG



12/5/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-14A

SAMPLE LOG

Boring/Well: MW-14A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 109 feet
Date Installed: 10/27/97

[illegible]

Project No: 787

Well ID: MW-15

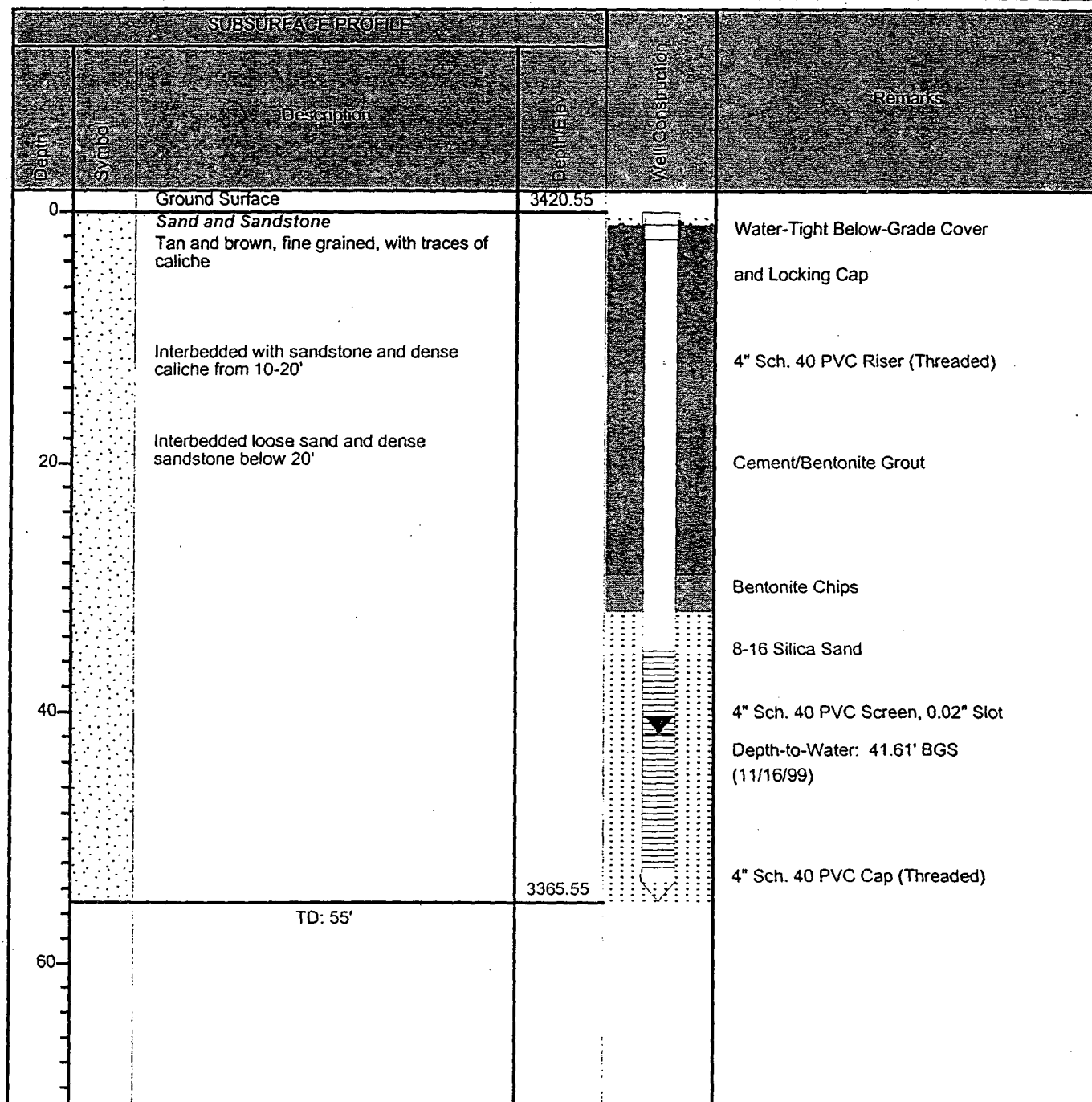
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

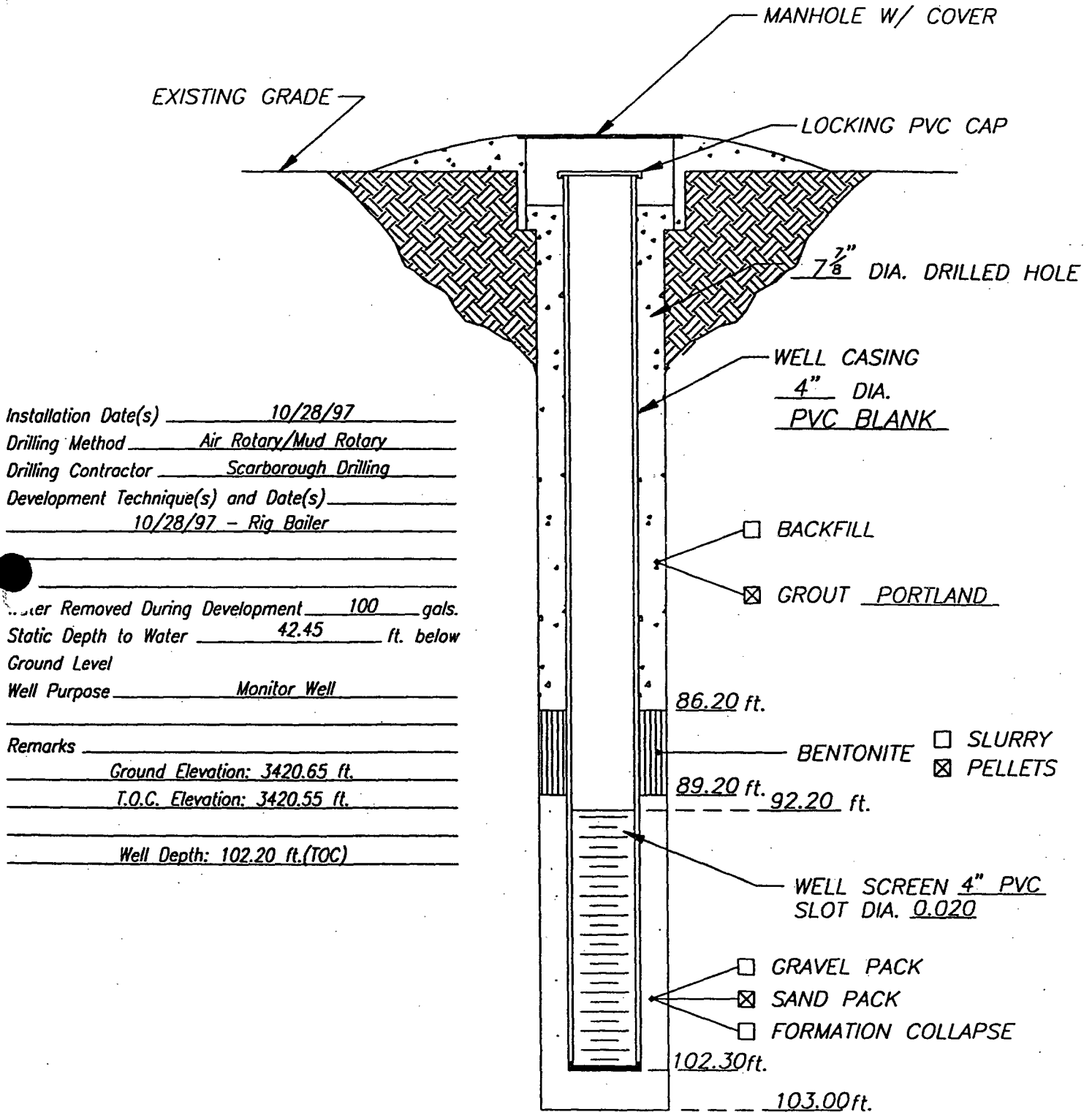
Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 06-Jan-99

Sheet: 1 of 1

WELL CONSTRUCTION LOG



12/5/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

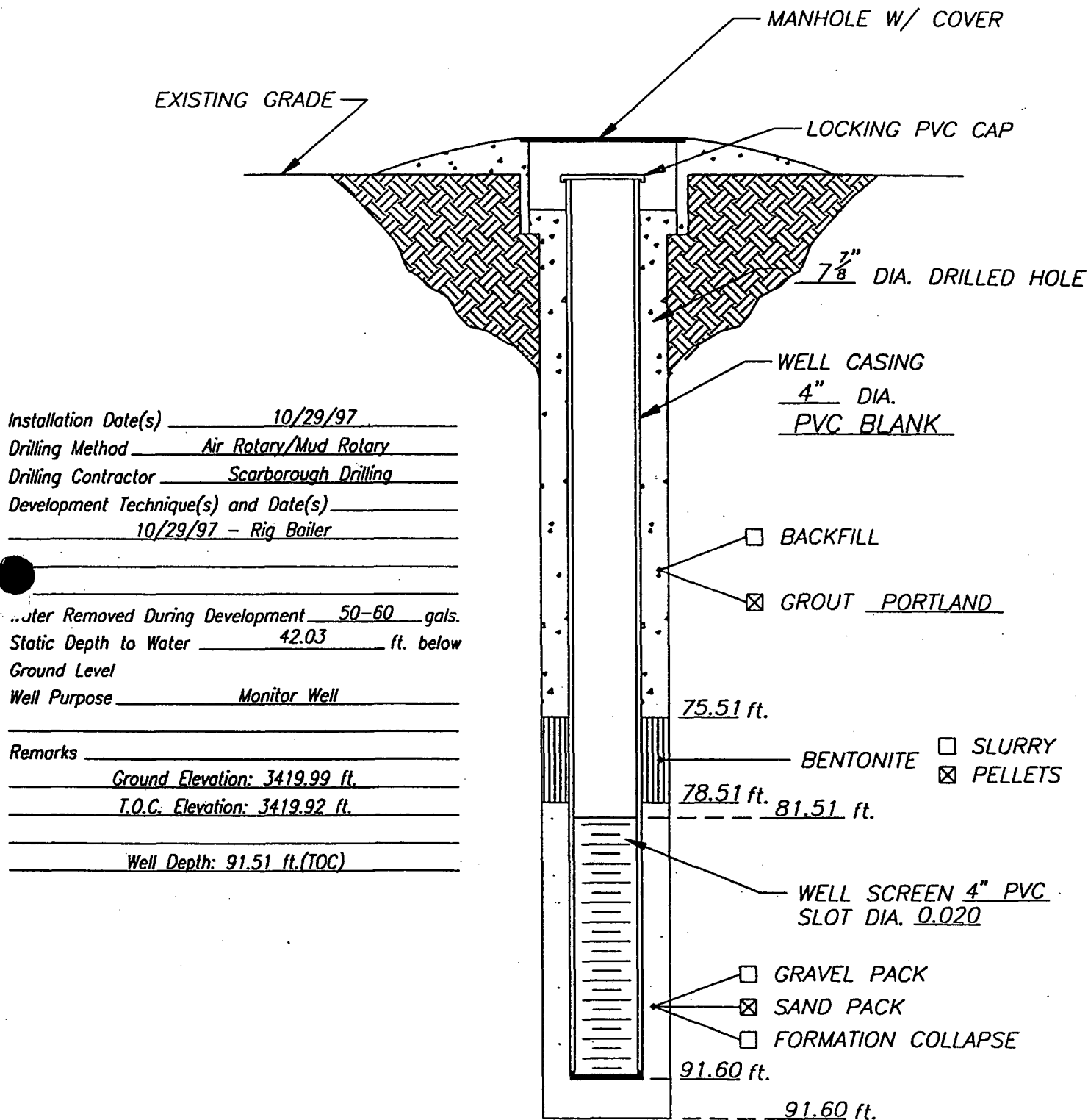
MW-15A

SAMPLE LOG

Boring/Well:	MW-15A
Site Location:	Texaco E & P Eunice (North) Gas Plant
Location:	Eunice, New Mexico
Total Depth:	103 feet
Date Installed:	10/28/97

[illegible]

WELL CONSTRUCTION LOG



12/5/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

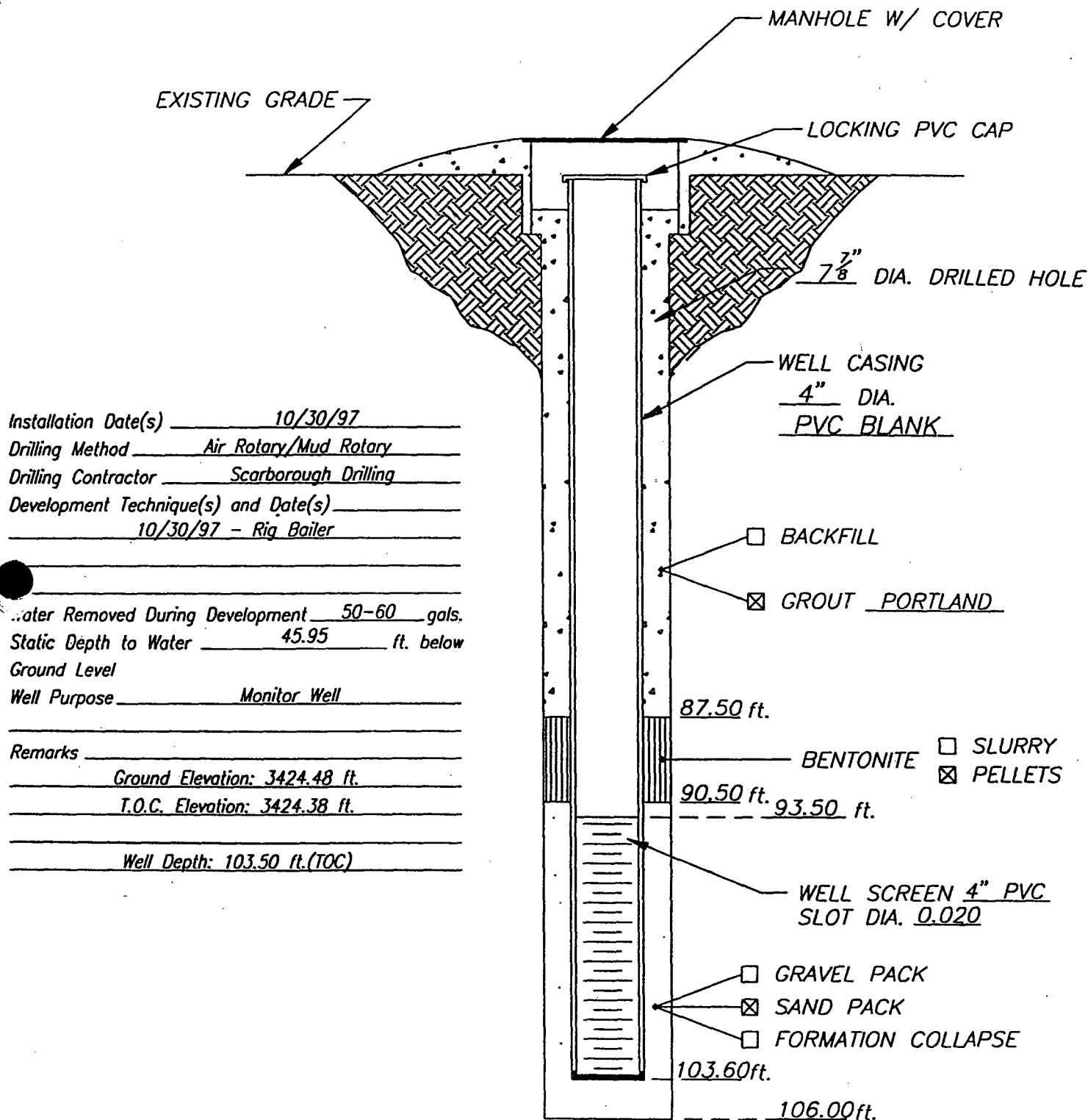
WELL NO.
MW-16A

SAMPLE LOG

Boring/Well: MW-16A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 91 feet
Date Installed: 10/29/97

[illegible]

WELL CONSTRUCTION LOG



12/5/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

MW-17A

SAMPLE LOG

Boring/Well: MW-17A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 106 feet
Date Installed: 10/30/97

[illegible]

Project No: 787

Well ID: MW-18

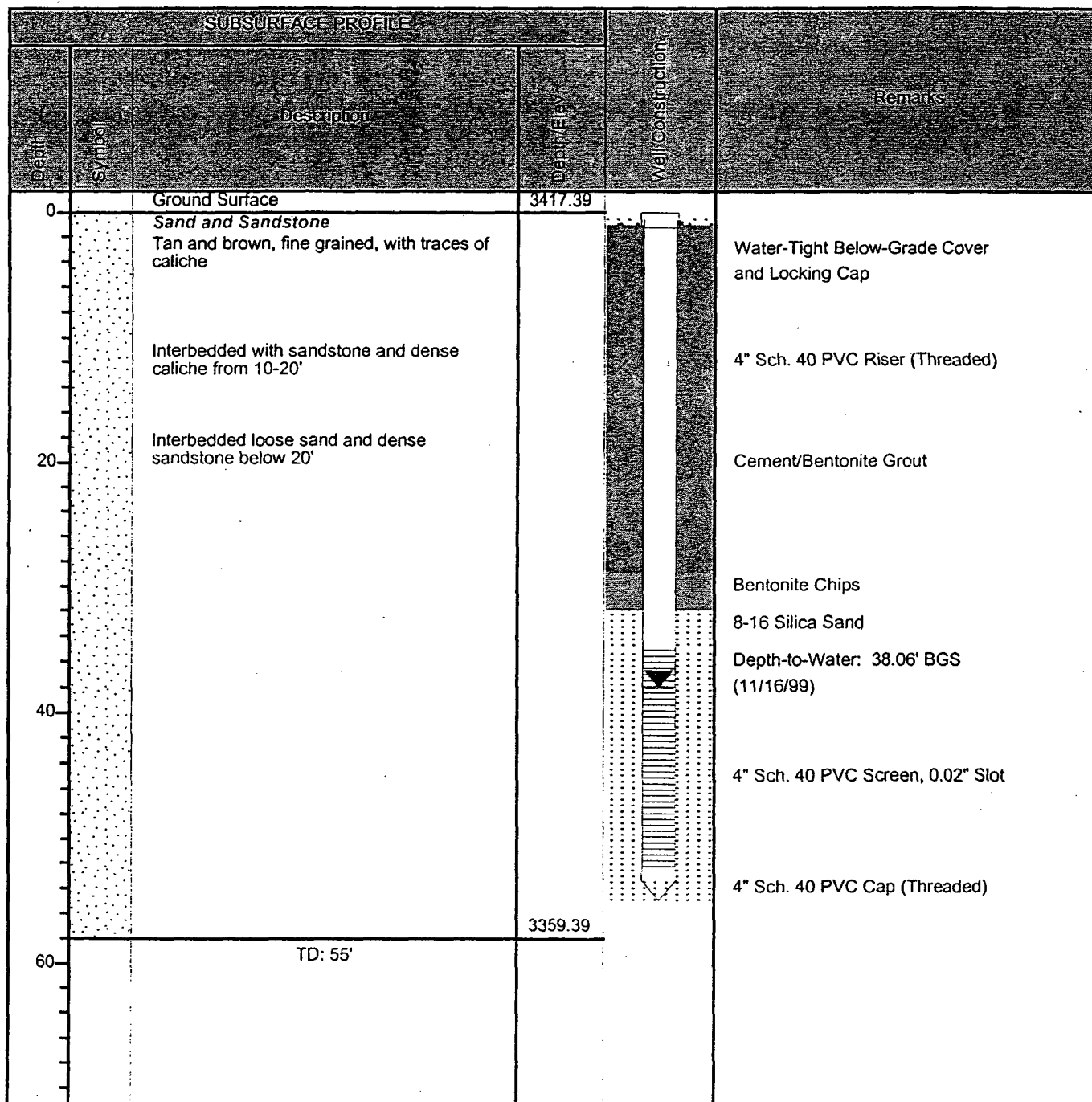
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

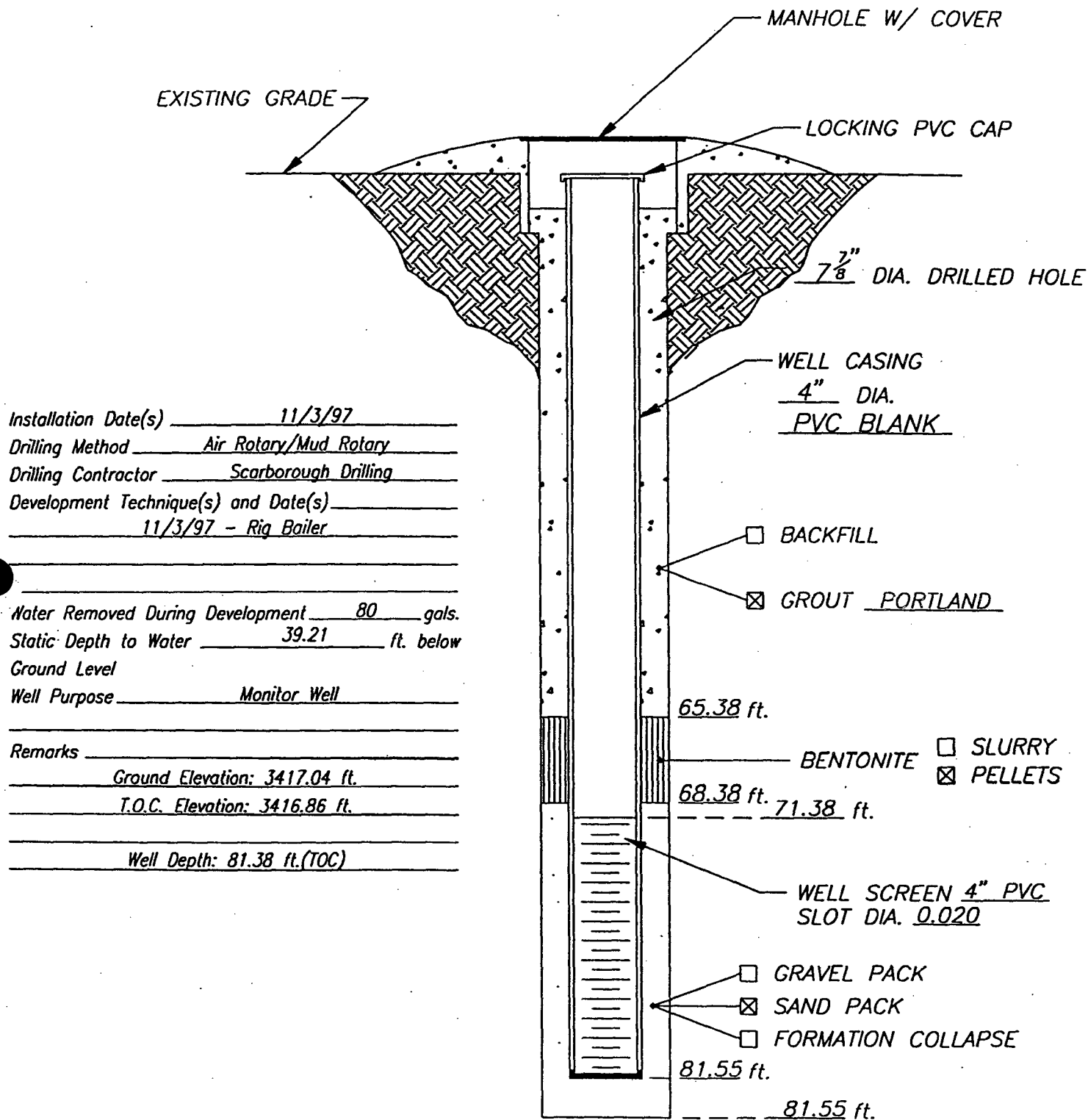
Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 06-May-99

Sheet: 1 of 1

WELL CONSTRUCTION LOG



E: 12/5/97

Highlander
Environmental

CLIENT: *Texaco Exploration & Production, Inc.*
PROJECT: *Eunice #1 (North) Plant*
LOCATION: *Lea County, New Mexico*

WELL NO.

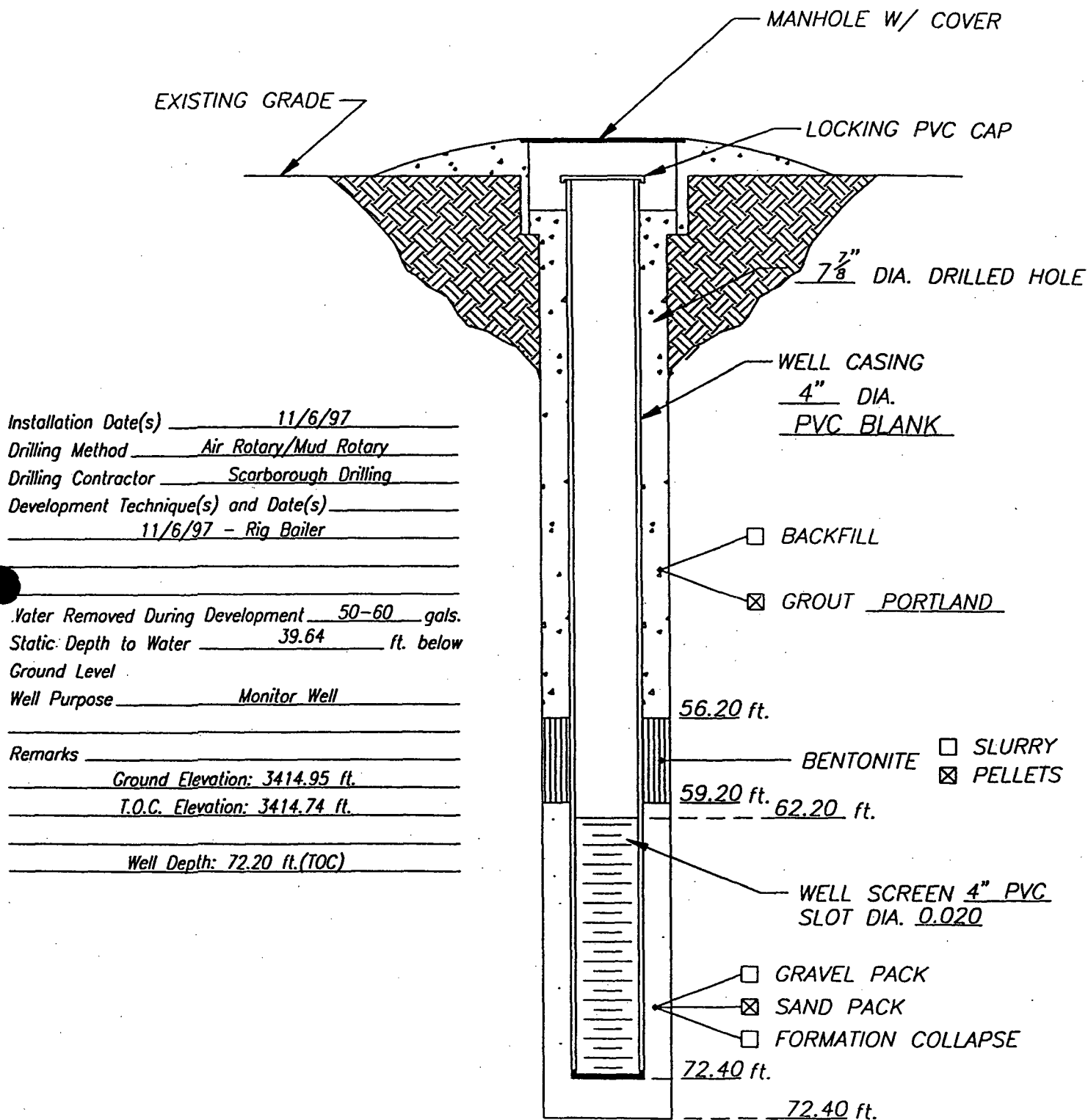
MW-18A

SAMPLE LOG

Boring/Well: MW-18A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 81 feet
Date Installed: 11/3/97

[illegible]

WELL CONSTRUCTION LOG



12/5/97

**Highlander
Environmental**

CLIENT: *Texaco Exploration & Production, Inc.*

PROJECT: *Eunice #1 (North) Plant*

LOCATION: *Lea County, New Mexico*

WELL NO.

MW-19A

SAMPLE LOG

Boring/Well: MW-19A
Site Location: Texaco E & P Eunice (North) Gas Plant
Location: Eunice, New Mexico
Total Depth: 81 feet
Date Installed: 11/3/97

[illegible]

Project No: 787

Well ID: MW-20

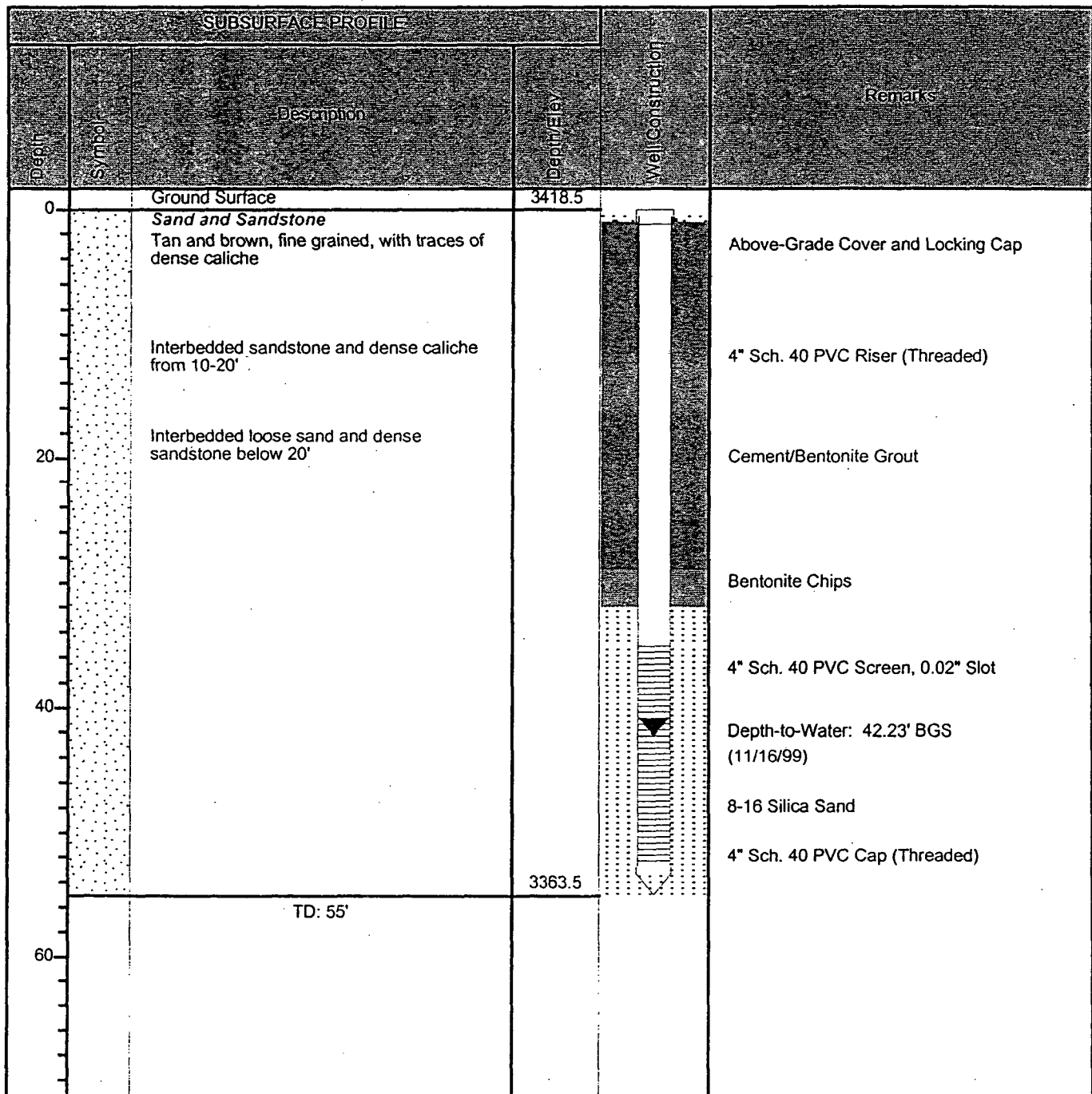
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 05-Jan-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-20A

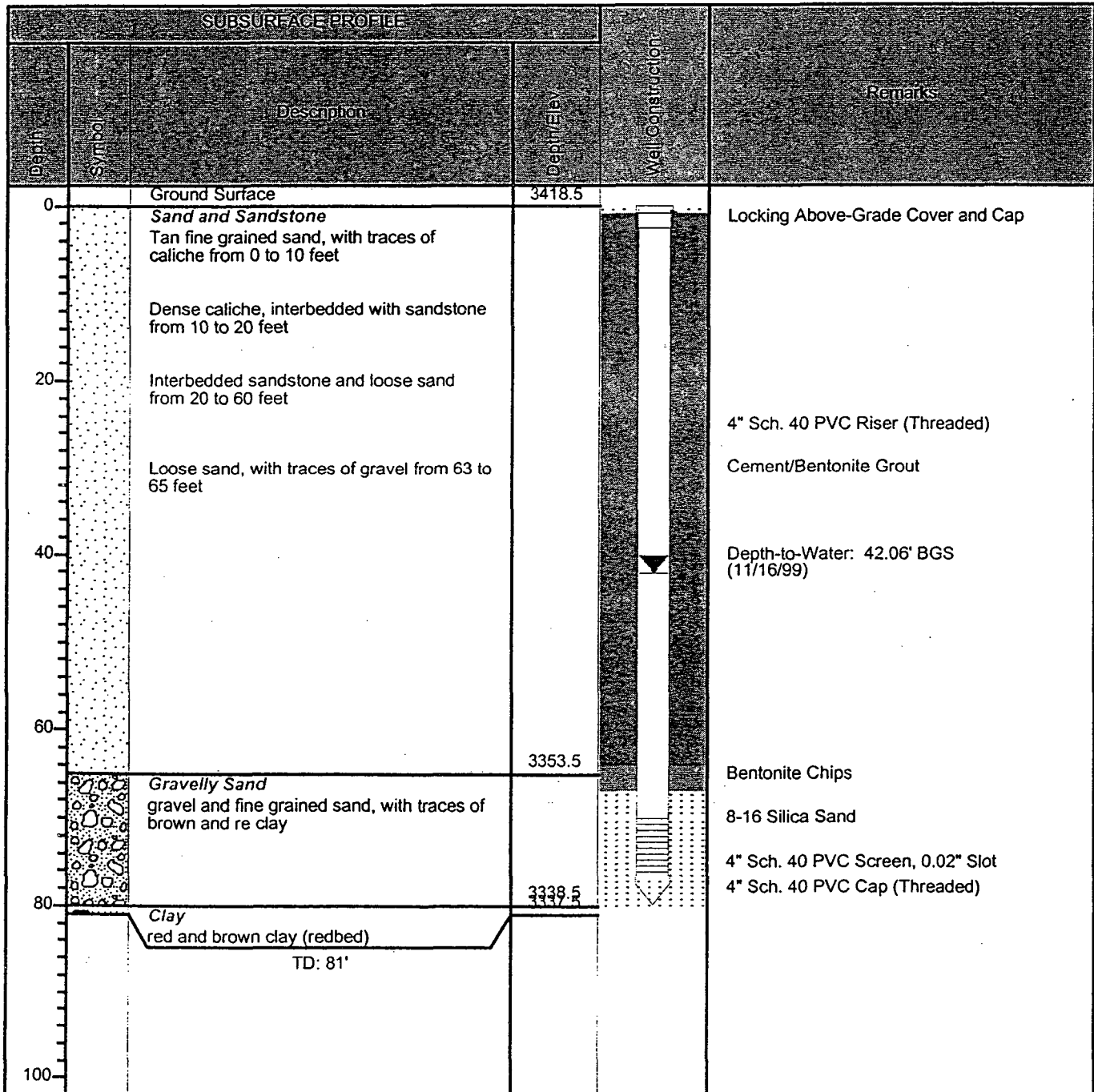
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 05-Jan-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-21

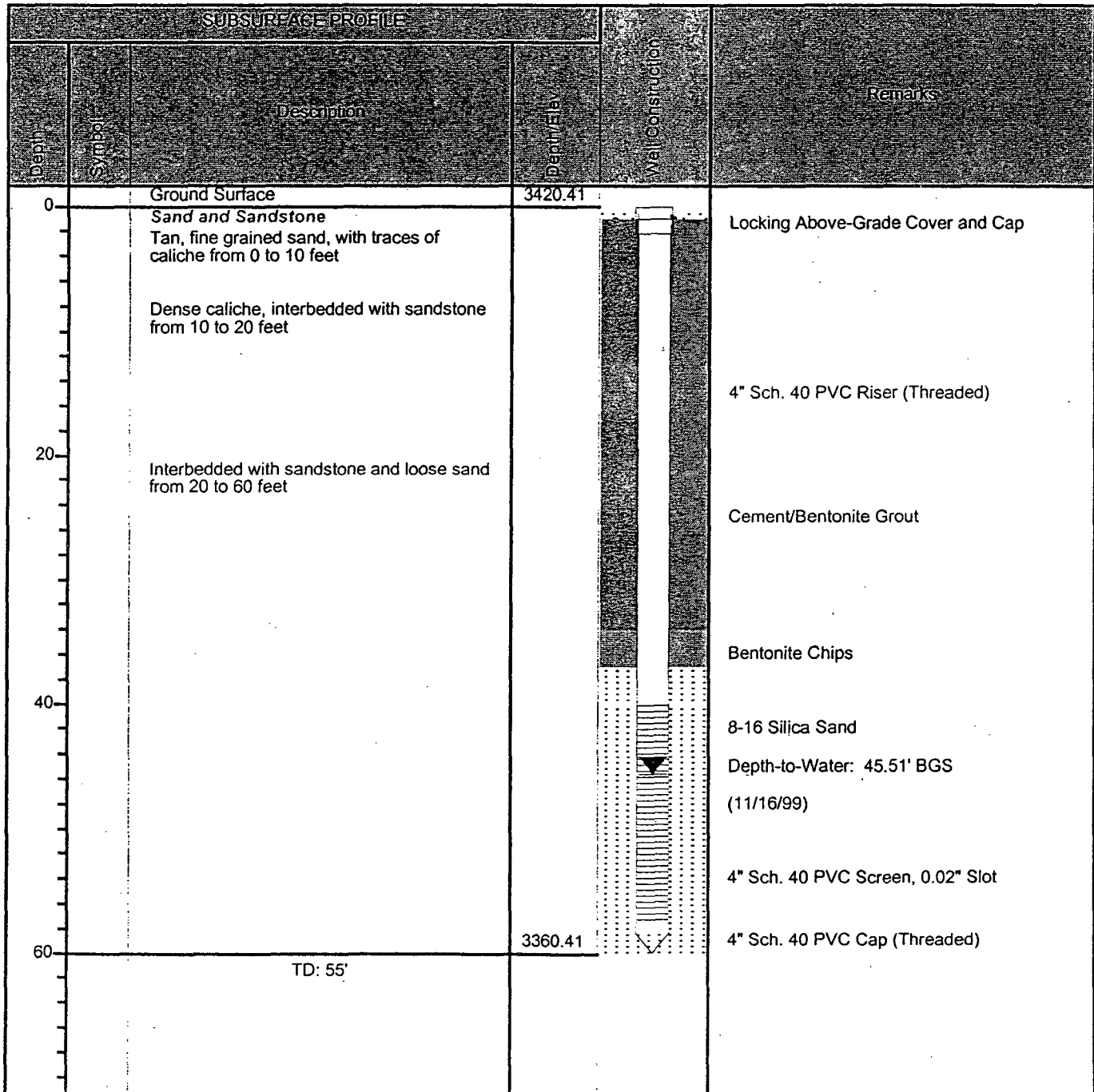
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 07-Jan-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-21A

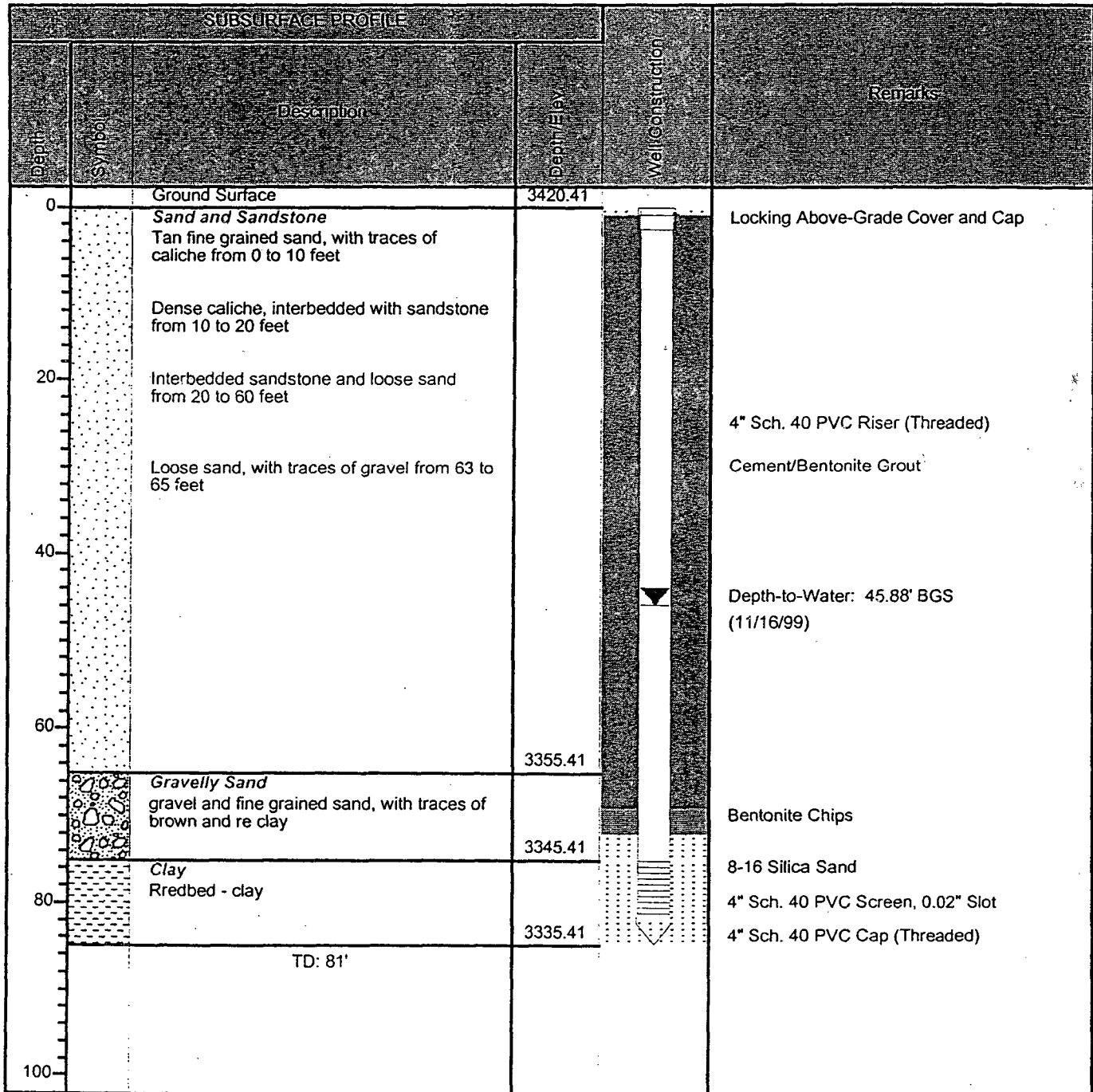
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 06-Jan-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-22A

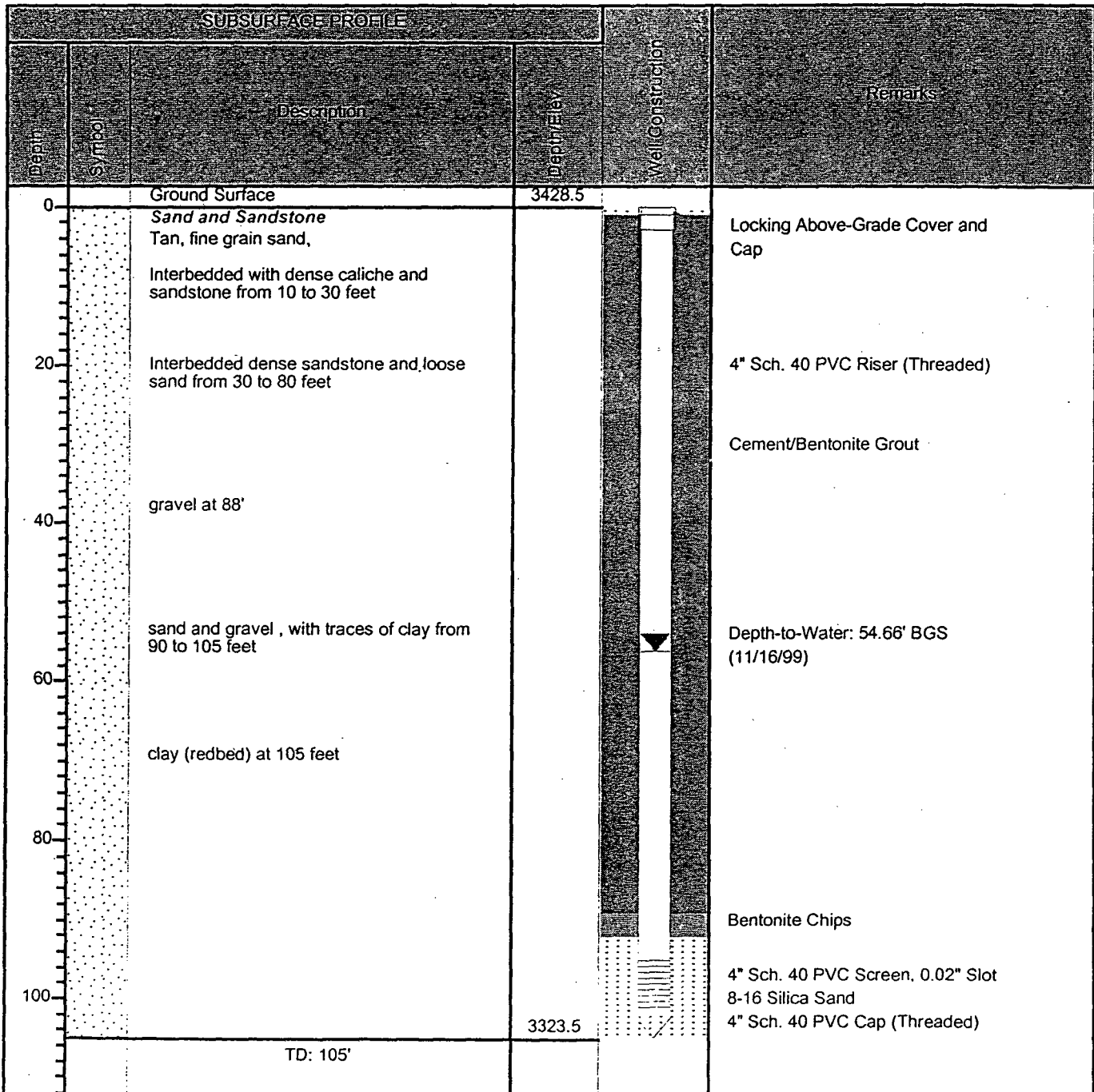
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 06-Jan-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-23

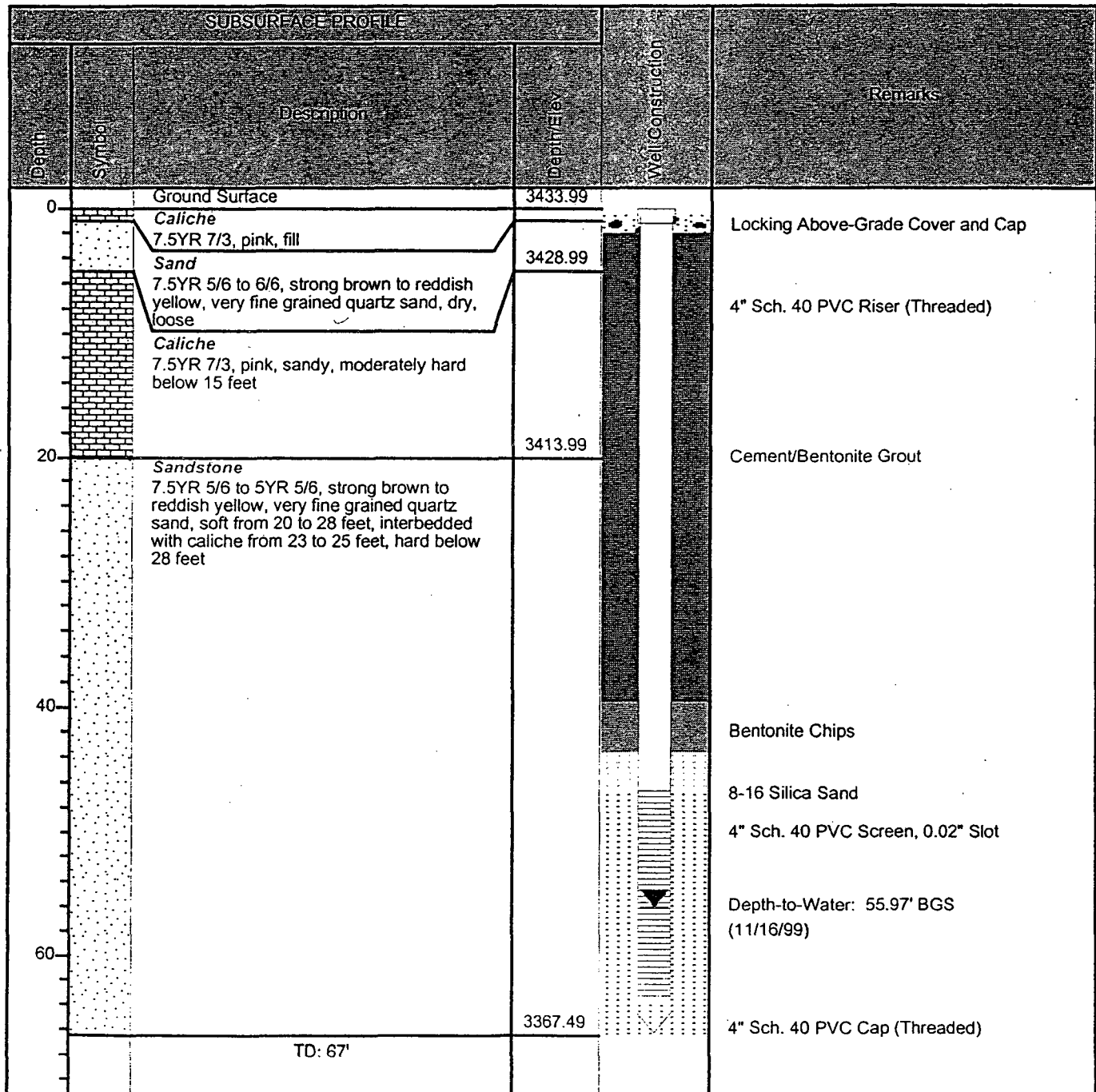
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: MJL



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 16-June-99

Sheet: 1 of 1



ARCADIS

WELL LOG

WELL NO.

MW023A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 3

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 01/02/03

DATE COMPLETED: 01/02/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,434.31'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,436.26'

FILE NAME: MW023A.dat

UNIQUE NUMBER: 31-014-00459

STATIC WATER LEVEL: -57.70' MEAS. PT.: T.O.C.

DATE: 01/09/03

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -120.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-100.0' to Surface

SEAL TYPE: Bentonite Chips

-108.0' to -100.0'

SCREEN PACK: 8/16 Sand

-120.0' to -108.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-110.0' to 2.0'

—

—

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-120.0' to -110.0'

PLUG BACK: —

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5 YR reddish yellow, very fine-grained SAND to SILT, subrounded to well rounded grains, well sorted, loose.	
-5		Shovel								
-10		Shovel							CALICHE 5 YR 8/3 pink, friable, arenaceous.	
-15		Shovel								
-20		Shovel							SAND 5 YR 7/4 pink, 70% fine-grained SAND to SILT, well rounded, frosted, good sorting, loose, 30% CALICHE, 5YR 8/3 pink as interbeds.	
-25		Shovel								
-30		Shovel								
-35		Shovel								
-40		Shovel								



WELL LOG

WELL NO.

MW023A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 3

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -57.70' MEAS. PT.: T.O.C.

DATE: 01/09/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -120.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-100.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-108.0' to -100.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-120.0' to -108.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-110.0' to 2.0'

DATE BEGUN: 01/02/03

DATE COMPLETED: 01/02/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,434.31'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,436.26'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-120.0' to -110.0'

FILE NAME: MW023A.dat

UNIQUE NUMBER: 31-014-00459

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45		Shovel								
-50		Shovel								
-55		Shovel								
-60		Shovel								
-65		Shovel								
-70		Shovel								
-75		Shovel								
-80		Shovel								
-85		Shovel								
									SAND 2.5 YR 7/6 red, very fine-grained to SILT, loose, well sorted.	

**ARCADIS**

WELL LOG

WELL NO.

MW024

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 3

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -53.76' MEAS. PT.: T.O.C.

DATE: 01/09/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -86.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-22.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-26.0' to -22.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-86.0' to -26.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-36.0' to 2.0'

DATE BEGUN: 12/31/02

DATE COMPLETED: 12/31/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.07'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,431.32'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-86.0' to -36.0'

FILE NAME: MW024.dat

UNIQUE NUMBER: 31-014-00460

PLUG BACK: Bentonite

-97.0' to -86.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5 YR 4/8 red, very fine-grained to SILT, well rounded, frosted, well sorted, loose.	
-5		Shovel							CALICHE 5 YR 7/4 pink, friable, arenaceous.	
-10		Shovel								
-15		Shovel								
-20		Shovel							SAND 2.5 YR 6/6 light red, very fine-grained SAND to SILT, well rounded grains, loose to weakly cemented with CALICHE.	
-25		Shovel								
-30		Shovel								



WELL NO.

MW024

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 3

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -53.76' MEAS. PT.: T.O.C.

DATE: 01/09/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -86.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

COVERAGE CONSIDERATION: 5 EBOOKING TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-22.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-26.0' to -22.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-86.0' to -26.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-36.0' to 2.0'

DATE BEGUN: 12/31/02

DATE COMPLETED: 12/31/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.07'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,431.32'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-86.0' to -36.0'

FILE NAME: MW024.dat

UNIQUE NUMBER: 31-014-00460

PLUG BACK: Bentonite

-97.0' to -86.0'

[illegible]



WELL NO.

MW024

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 3 of 3

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -53.76' MEAS. PT.: T.O.C.

DATE: 01/09/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -86.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

LOOKING FOR TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-22.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-26.0' to -22.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-86.0' to -26.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-36.0' to 2.0'

DATE BEGUN: 12/31/0

DATE COMPLETED: 12/31/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.07'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,431.32'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-86.0' to -36.0'

FILE NAME: MW024.dat

UNIQUE NUMBER: 31-014-00460

PLUG BACK: Bentonite

-97.0' to -86.0'

[illegible]

Project No: 787

Well ID: MW-24A

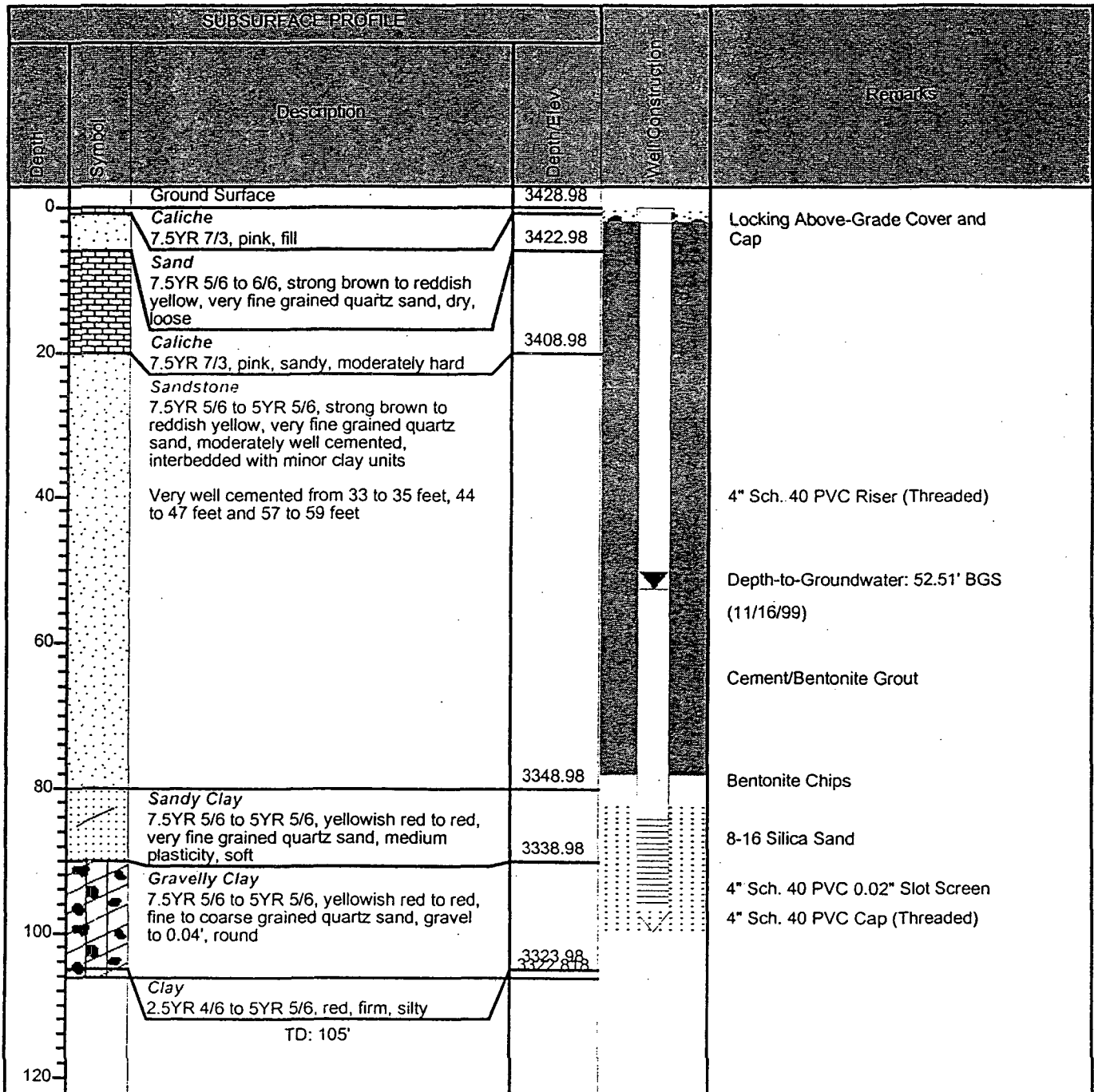
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: MJL



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 16-June-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-25

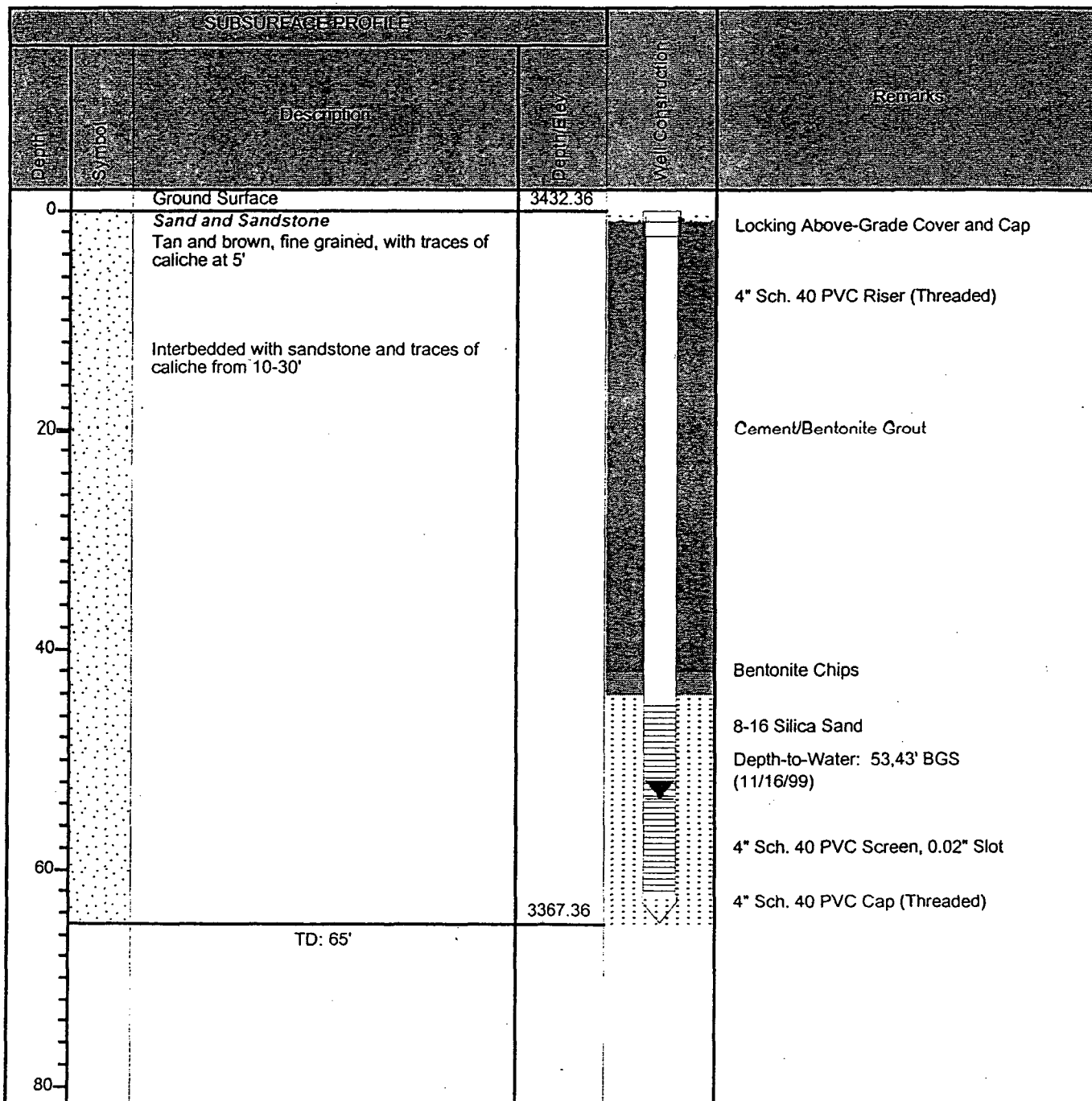
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: IT



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 07-May-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-26

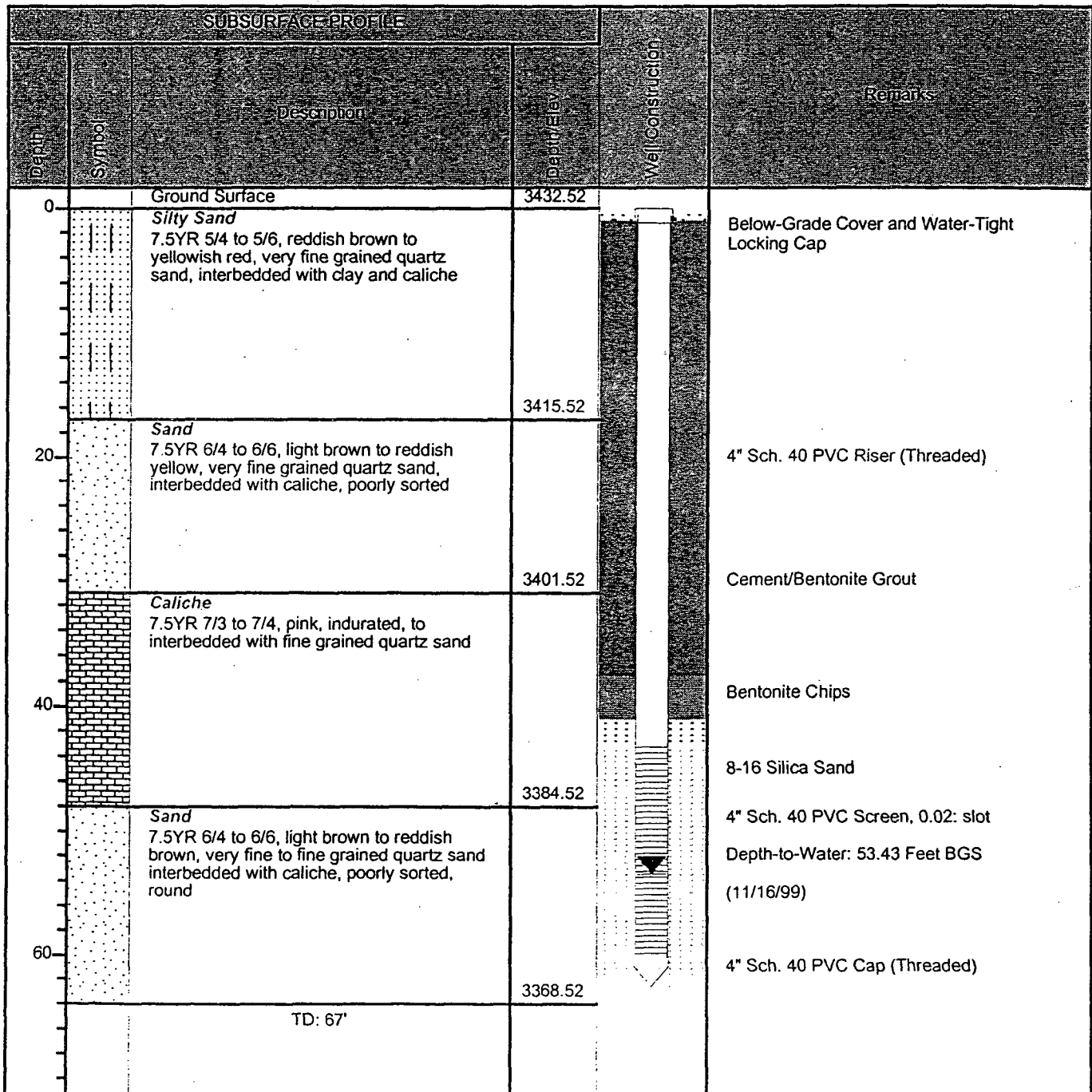
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: MJL



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 27-Oct-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-27

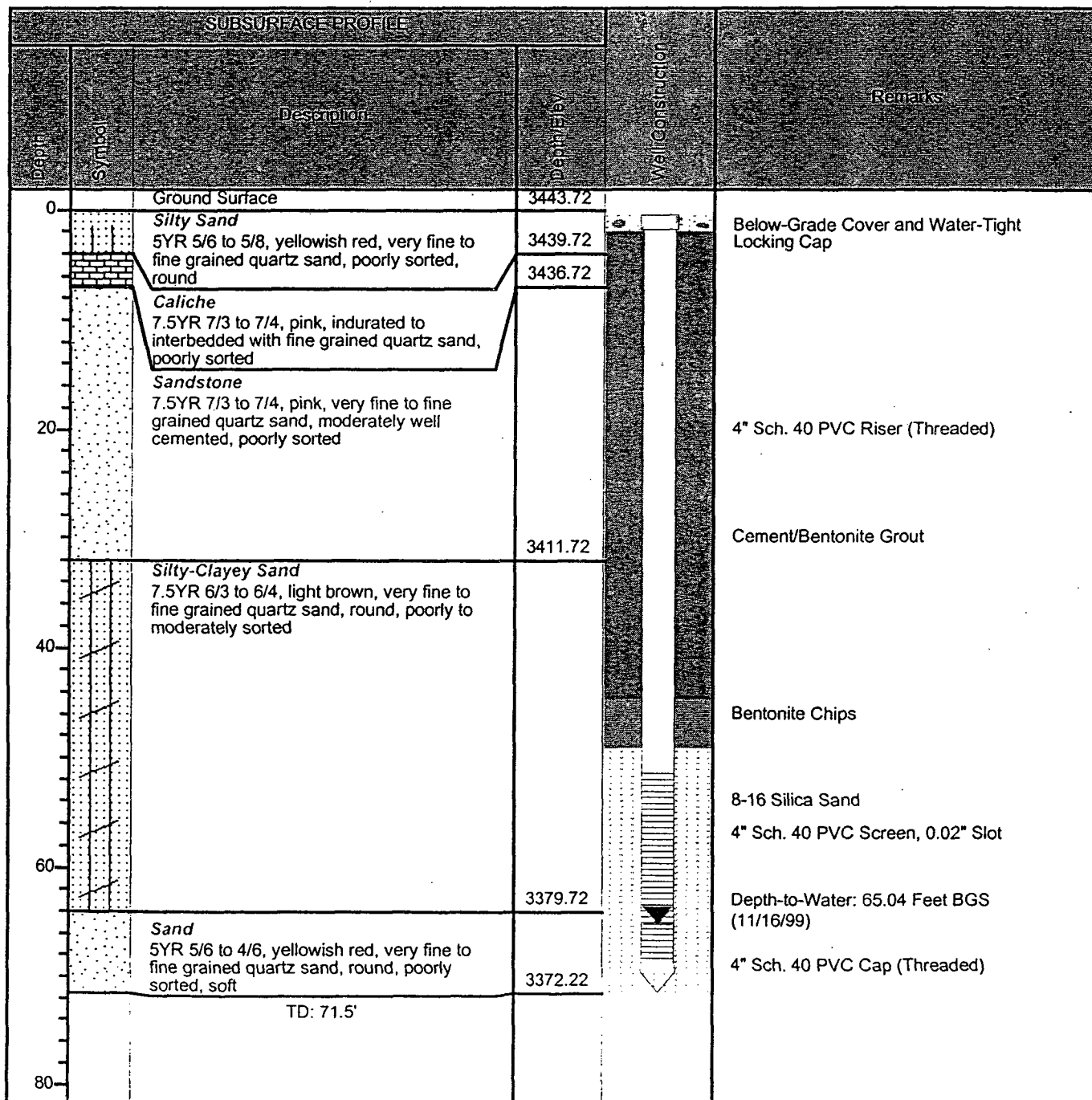
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: MJL



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 27-Oct-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-28

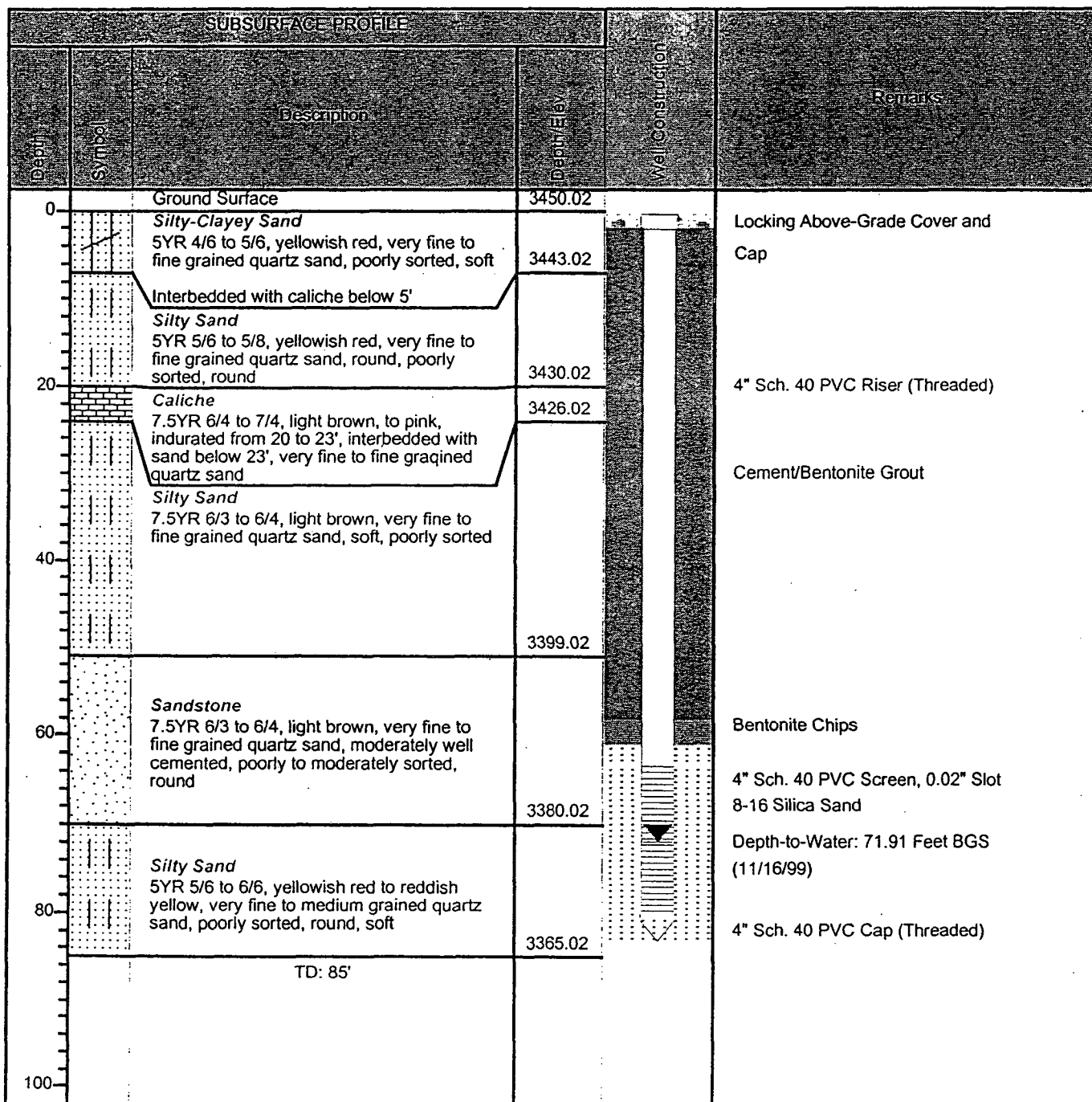
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: MJL



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 02-Nov-99

Sheet: 1 of 1

Project No: 787

Well ID: MW-29

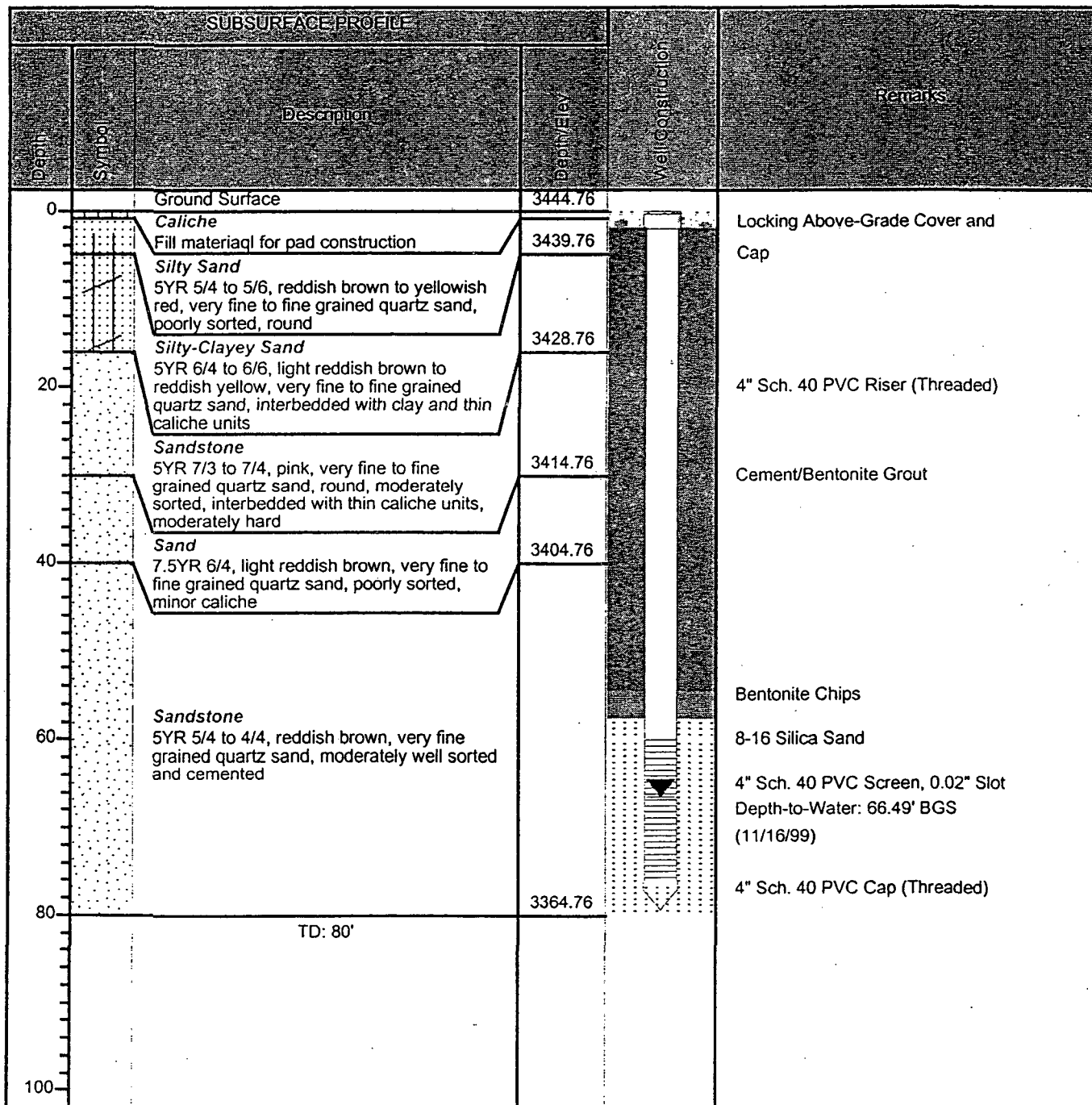
Project: Eunice # 2 (North) Gas Plant

Client: Texaco Exploration and Production Inc.

Enclosure: 1 of 1

Location: Lea County, New Mexico

Engineer: MJL



Drilled By: Scarborough Drilling, Inc.

Highlander Environmental
1910 N. Big Spring
Midland, Texas 79705
(915) 682-4559

Hole Size: 7 7/8"

Drill Method: Rotary (Water)

Datum: Mean Sea Level

Drill Date: 11-Nov-99

Sheet: 1 of 1



WELL NO.

MW030

Page 1 of 2

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -61.30' MEAS. PT.: T.O.C.

DATE: 05/07/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -75.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-49.0' to Surface

Scarborough Drilling Co.

SEAL TYPE: Bentonite

-52.0' to -49.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-75.0' to -52.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-55.0' to 2.0'

DATE BEGUN: 4/18/02

DATE COMPLETED: 4/18/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,437.66'

LOGGER: R. Reina

ELEVATION (T.O.C.): 3,439.84'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-75.0' to -55.0'

FILE NAME: MW030.dat

UNIQUE NUMBER: 31-014-00388

PLUG BACK: 8/16 Sand

-77.0' to -75.0'

[illegible]



WELL NO.

MW030

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-77.0' to -75.0'

[illegible]



ARCADIS

WELL LOG

WELL NO.

MW031

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 4/17/02

DATE COMPLETED: 4/17/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,438.47'

LOGGER: R. Reina

ELEVATION (T.O.C.): 3,440.68'

FILE NAME: MW031.dat

UNIQUE NUMBER: 31-014-00389

STATIC WATER LEVEL: -61.85' MEAS. PT.: T.O.C.

DATE: 05/07/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -74.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-48.0' to Surface

SEAL TYPE: Bentonite Chips

-51.0' to -48.0'

SCREEN PACK: 8/16 Sand

-74.0' to -51.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-54.0' to 2.4'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-74.0' to -54.0'

PLUG BACK: 8/16 Sand

-76.0' to -74.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0						0.0			CLAYEY SAND 7.5 YR 4/6 strong brown, 80% very fine-grained to fine-grained SAND, 20% CLAY.	
-5						0.0			CALICHE 7.5 YR 8/2 pinkish white, 30% very fine-grained to fine-grained SAND, friable.	
-10						1.6				
-15						1.4				
-20						0.7				
-25						0.5				
-30						0.0				
-35						0.0				
						0.2			SANDSTONE 7.5 YR 4/8 red, very fine-grained to medium-grained, angular to fragmented.	
						0.4				
						0.4				
						0.0				
						0.0				
						0.2				
						0.4				
						0.2				
						0.7				
						0.6				



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WELL LOG

WELL NO.

MW031

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 4/17/02

DATE COMPLETED: 4/17/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,438.47'

LOGGER: R. Reina

ELEVATION (T.O.C.): 3,440.68'

FILE NAME: MW031.dat

UNIQUE NUMBER: 31-014-00389

STATIC WATER LEVEL: -61.85' MEAS. PT.: T.O.C.

DATE: 05/07/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -74.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-48.0' to Surface

SEAL TYPE: Bentonite Chips

-51.0' to -48.0'

SCREEN PACK: 8/16 Sand

-74.0' to -51.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-54.0' to 2.4'

—

—

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-74.0' to -54.0'

PLUG BACK: 8/16 Sand

-76.0' to -74.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40						0.2				
-45						0.1				
-50						0.0				
-55						0.7				
-60						0.7				
-65						0.7				
-70						0.4				
-75						0.2				
						1.0				
						1.0				
						0.9				
						0.7				
						0.4				
						0.0				
						0.0				
						0.2				
						0.4				
						0.2				
						0.2				



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WELL LOG

WELL NO.

MW032

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon/Shovel

DATE BEGUN: 3/12/02

DATE COMPLETED: 3/12/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,442.52'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,442.22'

FILE NAME: MW032.dat

UNIQUE NUMBER: 31-014-00390

STATIC WATER LEVEL: -62.71' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush 3'x3'x6" Conc. Slab

DATE: 04/04/02

TOTAL DEPTH: -68.0'

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement w/5% Bentonite	-40.0' to Surface
SEAL TYPE:	Bentonite Chips	-43.0' to -40.0'
SCREEN PACK:	8/16 Sand	-68.0' to -43.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-48.0' to Surface

WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-68.0' to -48.0'
PLUG BACK:	—	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Split Spoon			100%				CLAYEY SAND 5 YR 4/6 yellowish red, very fine-grained to medium-grained SAND, 10-20% CLAY, loose, compactable.	
		Split Spoon			100%					
-5		Shovel								
		Shovel								
-10		Shovel							CALICHE 10 YR 8/2 very pale brown, 30% very fine-grained to fine-grained SAND, soft, friable.	
		Shovel								
-15		Shovel							SAND 7.5 YR 6/4 light brown, fine-grained, 10-20% CALICHE, loose, friable.	
		Shovel								
-20		Shovel							CALICHE 10 YR 8/2 very pale brown, very fine-grained, soft to firm.	
		Shovel								
-25		Shovel								
		Shovel								
-30		Shovel							SANDSTONE 7.5 YR 6/4 light brown, and 5 YR 5/4 brown layers, fine-grained to medium-grained, interbedded soft and firm layers.	
		Shovel								
		Shovel								



WELL NO.

MW032

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -62.71' MEAS. PT.: T.O.C.

DATE: 04/04/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -68.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: Flush 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon/Shovel

DATE BEGUN: 3/12/02

DATE COMPLETED: 3/12/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,442.52'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,442.22'

FILE NAME: MW032.dat

UNIQUE NUMBER: 31-014-00390

GROUT TYPE: Portland Cement w/5% Bentonite

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

WELL SCREEN: 4" Diameter Sch. 40 PVC. 0.020" slots

PLUG BACK:

DEPTHS

-40.0' to Surface

-43.0' to -40.0'

-68.0' to -43.0'

-48.0' to Surface

-68.0' to -48.0'

[illegible]



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WELL LOG

WELL NO.

MW033

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Split Spoon/Shovel

DATE BEGUN: 3/13/02

DATE COMPLETED: 3/13/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.06'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,428.86'

FILE NAME: MW033.dat

UNIQUE NUMBER: 31-014-00391

STATIC WATER LEVEL: -48.95' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush 3'x3'x6" Conc. Slab

DATE: 04/04/02

TOTAL DEPTH: -62.0'

TYPES		DEPTHS
GROUT TYPE:	Portland Cement w/5% Bentonite	-24.0' to Surface
SEAL TYPE:	Bentonite Chips	-27.0' to -24.0'
SCREEN PACK:	8/16 Sand	-62.0' to -27.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-32.0' to Surface
	—	—
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-62.0' to -32.0'
PLUG BACK:	—	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Split Spoon			100%				CLAYEY SAND 5 YR 4/6 yellowish red, fine-grained to medium-grained SAND, 10-20% CLAY, loose to compacted.	
		Split Spoon			100%					
-5		Shovel							CALICHE 7.5 YR 7/4 pink, 30% very fine-grained to fine-grained SAND, soft to friable.	
		Shovel								
		Shovel								
-10		Shovel							SAND 5 YR 4/6 yellowish red, fine-grained, 10-20% CALICHE, loose to friable.	
		Shovel								
		Shovel								
-15		Shovel							CALICHE 10 YR 8/3 very pale brown, 30% very fine-grained to fine-grained SAND, soft to firm.	
		Shovel								
		Shovel								
-20		Shovel								
		Shovel								
		Shovel								
-25		Shovel							SANDSTONE 7.5 YR 6/4 light brown, and 7.5 YR 5/4 brown layers, fine-grained to medium-grained, interbedded soft and firm layers. At approximately -60' visual staining and odor were encountered, a slight sheen was also observed in the pit.	
		Shovel								
		Shovel								
-30		Shovel								



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WELL LOG

WELL NO.

MW034

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon/Shovel

DATE BEGUN: 3/18/02 DATE COMPLETED: 3/18/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,419.00'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,418.76'

FILE NAME: MW034.dat UNIQUE NUMBER: 31-014-00392

STATIC WATER LEVEL: -43.49' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush 3'x3'x6" Conc. Slab

TYPES

GROUT TYPE: Portland Cement w/5% Bentonite

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: —

DATE: 04/04/02

TOTAL DEPTH: -62.0'

DEPTHS

-34.0' to Surface

-37.0' to -34.0'

-62.0' to -37.0'

-42.0' to Surface

-62.0' to -42.0'

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Split Spoon		100%					CLAYEY SAND 5 YR 4/6 yellowish red, 80% very fine-grained to medium-grained SAND, loose.	
		Split Spoon		100%						
-5		Shovel								
		Shovel								
		Shovel								
-10		Shovel							SANDY CLAY 7.5 YR 4/6 strong brown, 20-30% fine-grained SAND, 10-20% CALICHE, soft, compactable.	
		Shovel								
		Shovel								
-15		Shovel							CALICHE 7.5 YR 8/3 pink, 30% very fine-grained to fine-grained SAND, soft to firm.	
		Shovel								
		Shovel								
-20		Shovel								
		Shovel								
		Shovel								
-25		Shovel								
		Shovel								
		Shovel								
-30		Shovel							SANDSTONE 7.5 YR 6/4 light brown, and 7.5 YR 5/6 strong brown layers, fine-grained to medium-grained, interbedded soft and firm layers.	

**ARCADIS**

WELL LOG

WELL NO.

MW035

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 08/09/01 DATE COMPLETED: 08/09/01

DRILLER: S. Scarborough ELEVATION (SURF.): 3,424.98'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,427.39'

FILE NAME: MW035.dat UNIQUE NUMBER: 31-014-00265

STATIC WATER LEVEL: -50.45' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

GROUT TYPE: Portland Cement

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: —

DATE: 08/23/01

TOTAL DEPTH: -62.0'

TYPES

DEPTHS

-34.0' to Surface

-37.0' to -34.0'

-62.0' to -37.0'

-42.0' to 2.0'

—

—

-62.0' to -42.0'

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									CLAY and SILTY SAND: 2.5 YR 4/4 reddish brown, 75% SAND, fine-grained to medium-grained, 20% CLAY, 5% SILT.	
-5		Shovel								
-10		Shovel							CALICHE 5 YR 5/4 reddish brown, 50% CALICHE, 30% SAND, very fine-grained to fine-grained, 20% CLAY.	
-15		Shovel							CALICHE 10 YR 7/3 very pale brown, 75% CALICHE, 25% SAND, very fine-grained to fine-grained.	
-20		Shovel							CALICHE 7.5 YR 8/3 pink, 80% CALICHE, 20% SAND, very fine-grained to fine-grained.	
-25		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, with SANDSTONE 7.5 YR 6/4 light brown, interbeds, fine-grained to medium-grained.	
-30		Shovel								



WELL NO.

MW035

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -50.45' MEAS. PT.: T.O.C.

DATE: 08/23/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-34.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-37.0' to -34.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-62.0' to -37.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-42.0' to 2.0'

DATE BEGUN: 08/09/01

DATE COMPLETED: 08/09/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,424.98'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,427.39'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-62.0' to -42.0'

FILE NAME: MW035.dat

UNIQUE NUMBER: 31-014-00265

PLUG BACK: —

[illegible]



WELL LOG

WELL NO.

MW036

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -48.22' MEAS. PT.: T.O.C.

DATE: 08/23/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 3'x3'x6" Conc. Slab ground level

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-34.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-37.0' to -34.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-62.0' to -37.0'

SAMPLE METHOD: Split Spoon/Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-42.0' to -0.5'

DATE BEGUN: 08/02/01

DATE COMPLETED: 08/02/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,425.80'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,425.49'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-62.0' to -42.0'

FILE NAME: MW036.dat

UNIQUE NUMBER: 31-014-00266

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel				39.6			CLAYEY SAND 7.5 YR 4/4 brown, SAND 70%, CLAY 25%, SILT 5%, fine-grained to medium-grained, visual staining, odor present.	
		Shovel				4.5			CLAYEY SAND 7.5 YR 4/6 strong brown, SAND 80%, CLAY 20%, fine-grained to medium-grained, very little staining and no distinct odor.	
-5		Split Spoon			2.0	2.4			CALICHE 7.5 Y 7/4 pink, CALICHE 80%, SAND 20%, very fine-grained soft.	
		Shovel				3.0				
		Split Spoon			2.0	2.9				
-10		Shovel				2.5				
		Shovel				2.7				
-15		Split Spoon			2.0	2.5				
		Shovel				3.0			CALICHE 7.5 YR 8/3 pink CALICHE 75%, SAND 25%, very fine-grained to fine-grained, soft, very friable.	
-20		Split Spoon			2.0	4.7				
		Shovel				2.9			SANDSTONE 10 YR 7/3 very pale brown, very fine-grained to fine-grained, soft.	
		Shovel				3.0				
-25		Split Spoon			2.0	3.1				
		Shovel				1.2			SANDSTONE 7.5 YR 6/4 light brown, fine-grained to medium-grained, soft to firm.	
-30		Split Spoon			2.0	2.2				
		Shovel				1.2				



ARCADIS

WELL LOG

WELL NO.

MW036

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -48.22' MEAS. PT.: T.O.C.

DATE: 08/23/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 3'x3'x6" Conc. Slab ground level

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon/Shovel

DATE BEGUN: 08/02/01 DATE COMPLETED: 08/02/01

DRILLER: S. Scarborough ELEVATION (SURF.): 3,425.80'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,425.49'

FILE NAME: MW036.dat UNIQUE NUMBER: 31-014-00266

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-34.0' to Surface
SEAL TYPE:	Bentonite Chips	-37.0' to -34.0'
SCREEN PACK:	8/16 Sand	-62.0' to -37.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-42.0' to -0.5'

—	—
WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots	-62.0' to -42.0'
PLUG BACK: —	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Shovel				1.3				
		Split Spoon			2.0	1.7				
		Shovel				1.5				
-40		Split Spoon			2.0	1.2				
		Shovel				1.1				
		Shovel				1.2				
-45		Split Spoon			2.0	1.2				
-50										
-55										
-60										
-65										

SANDSTONE 7.5 YR 6/4 light brown, fine-grained to medium-grained, soft to firm, with traces of GRAVEL 10%, fine to medium pebble, subangular.



WELL LOG

WELL NO.

MW037

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon/Shovel

DATE BEGUN: 07/31/01

DATE COMPLETED: 08/01/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,424.07'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,423.71'

FILE NAME: MW037.dat

UNIQUE NUMBER: 31-014-00267

STATIC WATER LEVEL: -46.91' MEAS. PT.: T.O.C.

DATE: 8/01/01

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

SURFACE COMPLETION: 3'x3'x6" Conc. Slab ground level

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-34.0' to Surface

SEAL TYPE: Bentonite

-37.0' to -34.0'

SCREEN PACK: 8/16 Sand

-62.0' to -37.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-42.0' to -0.5'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-62.0' to -42.0'

PLUG BACK: —

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel				1.2			SILTY SAND 10 YR 6/3 pale brown, SAND 60%, SILT 30%, CALICHE 10%, very fine-grained.	
		Shovel				1.1			SILTY SAND 7.5 YR 5/4 brown, SAND 60%, SILT 30%, CALICHE 10%, very fine-grained.	
-5		Split Spoon			2.0	0.9			SANDY CLAY 2.5 YR 3/6 dark red, CLAY 80% SAND 15%, CALICHE 5%, fine-grained.	
		Shovel				1.0			CALICHE 10 YR 8/3 very pale brown, CALICHE 90%, SAND 10%, fine-grained, soft.	
-10		Shovel				1.1				
		Split Spoon			2.0	1.0			CLAYEY SAND 7.5 YR 5/6 strong brown, SAND 70%, very fine-grained to fine-grained, CLAY 30%, trace of soft CALICHE.	
		Shovel				1.0				
-15		Split Spoon			2.0	1.0			CALICHE 10 YR 7/4 very pale brown, CALICHE 70%, SAND 30%, fine-grained.	
		Shovel				1.0				
-20		Shovel				1.0				
		Split Spoon			2.0	1.0				
		Shovel				1.0				
-25		Split Spoon			2.0	1.0				
		Shovel				1.0			SANDSTONE 7.5 YR 5/6 strong brown, very fine-grained to fine-grained, soft to moderately hard.	
-30		Split Spoon			2.0	1.0				
		Shovel				1.0				



WELL NO.

MW037

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -46.91' MEAS. PT.: T.O.C.

DATE: 8/01/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 3'x3'x6" Conc. Slab ground level

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-34.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite

-37.0' to -34.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-62.0' to -37.0'

SAMPLE METHOD: Split Spoon/Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-42.0' to -0.5'

DATE BEGUN: 07/31/01

DATE COMPLETED: 08/01/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,424.07'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,423.71'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-62.0' to -42.0'

FILE NAME: MW037.dat

UNIQUE NUMBER: 31-014-00267

PLUG BACK: —

[illegible]



ARCADIS

WELL LOG

WELL NO.

MW038

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -47.69' MEAS. PT.: T.O.C.

DATE: 08/29/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 3'x3'x6" Conc. Slab ground level

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-34.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite

-37.0' to -34.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-62.0' to -37.0'

SAMPLE METHOD: Split Spoon/Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-42.0' to -0.5'

DATE BEGUN: 08/01/01

DATE COMPLETED: 08/01/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,425.58'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,425.23'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-62.0' to -42.0'

FILE NAME: MW038.dat

UNIQUE NUMBER: 31-014-00268

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Split Spoon				0.9			CLAYEY SAND 7.5 YR 4/4 brown, SAND 70%, fine-grained, CLAY 30%.	
		Shovel				0.9				
-5		Split Spoon				1.2			SANDY CLAY 7.5 YR 4/4 brown, CLAY 70%, SAND 20%, fine-grained, CALICHE 10%.	
		Shovel				1.0			CALICHE 7.5 YR 3/4 dark brown, CALICHE 70%, CLAY 25%, SAND 5%, very fine-grained to fine-grained, soft.	
		Shovel				1.0			CALICHE 7.5 YR 7/4 pink, CALICHE 90%, SAND 10%, very fine-grained, soft.	
-10		Split Spoon				0.9				
		Shovel				0.9				
		Shovel				1.0				
-15		Split Spoon				1.0				
		Shovel				1.2			CALICHE 7.5 YR 3/4 dark brown, CALICHE 70%, SAND 20%, very fine-grained to fine-grained, CLAY 10%, soft, friable.	
-20		Split Spoon				1.1				
		Shovel				1.3				
		Shovel				0.9			SANDSTONE 7.5 YR 6/4 light brown, fine-grained to medium-grained, very soft, friable.	
-25		Split Spoon				1.0				
		Shovel				0.9				
-30		Split Spoon				1.4				
		Shovel				1.0				



WELL NO.

MW038

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1004 N. Big Spring St. Suite 300. Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

STATIC WATER LEVEL: -47.69' MEAS. PT.: T.O.C.

DATE: 08/29/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 3'x3'x6" Conc. Slab ground level

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-34.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite

-37.0' to -34.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-62.0' to -37.0'

SAMPLE METHOD: Split Spoon/Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-42.0' to -0.5'

DATE BEGUN: 08/01/01

DATE COMPLETED: 08/01/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,425.58'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,425.23'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-62.0' to -42.0'

FILE NAME: MW038.dat

UNIQUE NUMBER: 31-014-00268

PLUG BACK: —

[illegible]



ARCADIS

WELL LOG

WELL NO.

MW039A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 3

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 08/10/01

DATE COMPLETED: 08/10/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,433.36'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,435.71'

FILE NAME: MW0039A.dat

UNIQUE NUMBER: 31-014-00269

STATIC WATER LEVEL: -57.62' MEAS. PT.: T.O.C.

DATE: 08/23/01

HOLE SIZE(S): 8"

TOTAL DEPTH: -117.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-97.0' to Surface

SEAL TYPE: Bentonite Chips

-102.0' to -97.0'

SCREEN PACK: 8/16 Sand

-118.0' to -102.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-107.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-117.0' to -107.0'

PLUG BACK: 8/16 Sand

-118.0' to -117.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel							CLAY and SILTY SAND: 2.5 YR 4/4 reddish brown, 80% SAND, very fine-grained to fine-grained, 10% CLAY, 10% SILT.	
-5		Shovel							SAND, CLAY and CALICHE: 7.5 YR 8/4 pink, 40% CALICHE, 40% CLAY, 7.5 YR 4/6 strong brown, SAND, very fine-grained to fine-grained.	
-10		Shovel							SAND 7.5 YR 5/6 strong brown, 60% SAND, fine-grained, 20% CALICHE, 20% CLAY.	
-15		Shovel							SANDY CALICHE 7.5 YR 7/4 pink, 75% CALICHE, 25% SAND, very fine-grained to fine-grained.	
-20		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, interbedded with SANDSTONE 7.5 YR 6/4 light brown, fine-grained to medium-grained, soft.	
-25		Shovel								
-30		Shovel								
-35		Shovel								



ARCADIS

WELL LOG

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

WELL NO.

MW039A

Page 2 of 3

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 08/10/01 DATE COMPLETED: 08/10/01

DRILLER: S. Scarborough ELEVATION (SURF.): 3,433.36'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,435.71'

FILE NAME: MW0039A.dat UNIQUE NUMBER: 31-014-00269

STATIC WATER LEVEL: -57.62' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3"x3"x6" Conc. Slab

TYPES DEPTHS

GROUT TYPE: Portland Cement -97.0' to Surface

SEAL TYPE: Bentonite Chips -102.0' to -97.0'

SCREEN PACK: 8/16 Sand -118.0' to -102.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank -107.0' to 2.0'

— —

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -117.0' to -107.0'

PLUG BACK: 8/16 Sand -118.0' to -117.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
		Shovel								
		Shovel								
-45		Shovel								
		Shovel								
		Shovel								
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel								
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								
		Shovel								
		Shovel								
-80		Shovel								



WELL NO.

MW039A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 3 of 3

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -57.62' MEAS. PT.: T.O.C.

DATE: 08/23/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -117.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

LOOKING TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-97.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-102.0' to -97.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-118.0' to -102.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-107.0' to 2.0'

DATE BEGUN: 08/10/01

DATE COMPLETED: 08/10/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,433.36'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,435.71'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-117.0' to -107.0'

FILE NAME: MW0039A.dat

UNIQUE NUMBER: 31-014-00269

PLUG BACK: 8/16 Sand

-118.0' to -117.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OWM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-85	Shovel									
-90	Shovel								SANDSTONE 7.5 YR 4/6 red, 75% SANDSTONE fine-grained to medium-grained, 25% CLAY 7.5 YR 5/4 brown, very soft.	
-95	Shovel									
-100	Shovel								SANDY GRAVEL 75% GRAVEL, small to medium pebbles, 25% SAND, fine-grained to medium-grained, well rounded to subangular, poorly sorted.	
-105	Shovel									
-110	Shovel									
-115	Shovel								GRAVELLY CLAY 2.5 YR 5/6 red, 80% CLAY, 20% GRAVEL, small to medium pebbles, well rounded to subangular, poorly sorted, elastic and sticky CLAY.	
-120	Shovel								CLAY 2.5 YR 5/6 red, elastic, sticky.	



WELL LOG

WELL NO.

MW040A

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon/Shovel

DATE BEGUN: 03/20/02 DATE COMPLETED: 03/20/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,423.25'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,422.92'

FILE NAME: MW040A.dat UNIQUE NUMBER: 31-014-00393

STATIC WATER LEVEL: -43.70' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

TYPES

DATE: 04/04/02

TOTAL DEPTH: -110.0'

DEPTHS

GROUT TYPE: Portland Cement w/15% Bentonite -90.0' to Surface

SEAL TYPE: Bentonite Chips -95.0' to -90.0'

SCREEN PACK: 8/16 Sand -110.0' to -95.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank -100.0' to -.2'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -110.0' to -100.0'

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVN READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
		Shovel								
		Shovel								
		Shovel								
-45		Shovel								
		Shovel								
		Shovel								
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel								
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								



WELL NO.

MW040A

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -43.70' MEAS. PT.: T.O.C.

DATE: 04/04/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -110.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/15% Bentonite

-90.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-95.0' to -90.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-110.0' to -95.0'

SAMPLE METHOD: Split Spoon/Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-100.0' to -.2'

DATE BEGUN: 03/20/02 DATE COMPLETED: 03/20/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,423.25'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,422.92'

FILE NAME: MW040A.dat UNIQUE NUMBER: 31-014-00393

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK:

[illegible]



WELL NO.

MW041A

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -43.12' MEAS. PT.: T.O.C.

DATE: 05/07/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -88.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement/Bentonite

-72.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-75.0' to -72.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-88.0' to -75.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-78.0' to 2.0'

DATE BEGUN: 04/15/02

DATE COMPLETED: 04/15/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,418.12'

LOGGER: R. Reina

ELEVATION (T.O.C.): 3,418.42'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-88.0' to -78.0'

FILE NAME: MW041A.dat

UNIQUE NUMBER: 31-014-00394

PLUG BACK: 8/16 Sand

-90.0' to -88.0'

[illegible]



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WELL LOG

WELL NO.

MW041A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 04/15/02

DATE COMPLETED: 04/15/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,418.12'

LOGGER: R. Reina

ELEVATION (T.O.C.): 3,418.42'

FILE NAME: MW041A.dat

UNIQUE NUMBER: 31-014-00394

STATIC WATER LEVEL: -43.12' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

TYPES

DATE: 05/07/02

TOTAL DEPTH: -88.0'

DEPTHS

GROUT TYPE: Portland Cement/Bentonite

-72.0' to Surface

SEAL TYPE: Bentonite Chips

-75.0' to -72.0'

SCREEN PACK: 8/16 Sand

-88.0' to -75.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-78.0' to 2.0'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-88.0' to -78.0'

PLUG BACK: 8/16 Sand

-90.0' to -88.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35						0.3				
						0.3				
						0.4			SANDSTONE 7.5 YR 5/4 brown, very fine-grained to medium-grained.	
-40						0.7				
						0.5				
						0.1				
						0.8				
-45						0.7				
						0.4				
						0.0				
-50						0.0				
						1.1				
-55						1.4				
						0.7				
-60						0.4				
						0.2				
						0.1				
-65						0.1				



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WELL LOG

WELL NO.

MW041A

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 04/15/02 DATE COMPLETED: 04/15/02

DRILLER: S. Scarborough

LOGGER: R. Reina ELEVATION (SURF.): 3,418.12'

FILE NAME: MW041A.dat ELEVATION (T.O.C.): 3,418.42'

UNIQUE NUMBER: 31-014-00394

STATIC WATER LEVEL: -43.12' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

TYPES

GROUT TYPE: Portland Cement/Bentonite

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: 8/16 Sand

DATE: 05/07/02

TOTAL DEPTH: -88.0'

DEPTHS

-72.0' to Surface

-75.0' to -72.0'

-88.0' to -75.0'

-78.0' to 2.0'

—

-88.0' to -78.0'

-90.0' to -88.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-70						0.7				
						0.8				
						0.7				
						0.5				
-75						0.3				
						0.2				
-80						0.0				
						0.0				
-85						0.0				
						0.1			CLAYEY GRAVEL 2.5 YR 4/6 red, 50% rounded to subangular pebbled GRAVEL, 30% CLAY, 20% fine-grained to medium-grained SAND.	
						0.4			CLAY 2.5 YR 4/6 red, very fine-grained.	
-90						0.0				



WELL LOG

WELL NO.

MW042A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 08/09/01

DATE COMPLETED: 08/09/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,425.07'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,424.75'

FILE NAME: MW042A.dat

UNIQUE NUMBER: 31-014-00270

STATIC WATER LEVEL: -48.30' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

TYPES

DATE: 08/23/01

TOTAL DEPTH: -102.0'

DEPTHS

GROUT TYPE: Portland Cement

-82.0' to Surface

SEAL TYPE: Bentonite Chips

-87.0' to -82.0'

SCREEN PACK: 8/16 Sand

-102.0' to -87.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-92.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-102.0' to -92.0'

PLUG BACK: 8/16 Sand

-104.0' to -102.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel							CLAY and SILTY SAND: 2.5 YR 4/4 reddish brown, 70% SAND, very fine-grained to medium-grained, 20% CLAY, 5% SILT.	
-5		Shovel								
-10		Shovel							CALICHE 5 YR 5/4 reddish brown, 60% CALICHE, 20% SAND, very fine-grained to fine-grained 20% CLAY.	
-15		Shovel								
-20		Shovel							CALICHE 7.5 YR 8/3 pink, 80% CALICHE, 20% SAND, very fine-grained to fine-grained.	
-25		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, with 7.5 YR 6/4 light brown, fine-grained to medium-grained, soft.	
-30		Shovel								
-35		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW042A

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 08/09/01

DATE COMPLETED: 08/09/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,425.07'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,424.75'

FILE NAME: MW042A.dat

UNIQUE NUMBER: 31-014-00270

STATIC WATER LEVEL: -48.30' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

TYPES

DATE: 08/23/01

TOTAL DEPTH: -102.0'

DEPTHS

GROUT TYPE: Portland Cement

-82.0' to Surface

SEAL TYPE: Bentonite Chips

-87.0' to -82.0'

SCREEN PACK: 8/16 Sand

-102.0' to -87.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-92.0' to 2.0'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-102.0' to -92.0'

PLUG BACK: 8/16 Sand

-104.0' to -102.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OWM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
		Shovel								
		Shovel								
		Shovel								
-45		Shovel								
		Shovel								
		Shovel								
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel								
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								



WELL NO.

MW042A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -48.30' MEAS. PT.: T.O.C.

DATE: 08/23/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -102.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-82.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-87.0' to -82.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-102.0' to -87.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-92.0' to 2.0'

DATE BEGUN: 08/09/01

DATE COMPLETED: 08/09/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,425.07'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,424.75'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-102.0' to -92.0'

FILE NAME: MW042A.dat

UNIQUE NUMBER: 31-014-00270

PLUG BACK: 8/16 Sand

-104.0' to -102.0'

[illegible]



WELL LOG

WELL NO.

MW043

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -47.61' MEAS. PT.: T.O.C.

DATE: 05/07/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-36.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-39.0' to -36.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-62.0' to -39.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-42.0' to 2.0'

DATE BEGUN: 04/17/02

DATE COMPLETED: 04/17/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,422.55'

LOGGER: R. Reina

ELEVATION (T.O.C.): 3,423.57'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-62.0' to -42.0'

FILE NAME: MW043.dat

UNIQUE NUMBER: 31-014-00395

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel				0.0			CLAYEY SAND 5 YR 4/6 yellowish red, 80% very fine-grained to fine-grained SAND, 20% CLAY, loose.	
-5		Shovel				0.0				
		Shovel				0.0				
		Shovel				0.1				
-10		Shovel				0.8			CALICHE 10 YR 8/2 very pale brown, 35-40% very fine-grained to fine-grained SAND, friable.	
		Shovel				1.6				
		Shovel				0.7				
-15		Shovel				1.3				
		Shovel				1.3				
-20		Shovel				1.0			SILTY SAND 7.5 YR 6/4 light brown, very fine-grained to fine-grained, <20% CALICHE, friable.	
		Shovel				1.0				
		Shovel				0.7				
-25		Shovel				1.1			SANDSTONE 7.5 YR 6/4 light brown and 7.5 YR 5/4 brown, very fine-grained to fine-grained.	
		Shovel				0.5				
-30		Shovel				0.2				



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WELL LOG

WELL NO.

MW043

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 04/17/02

DATE COMPLETED: 04/17/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,422.55'

LOGGER: R. Reina

ELEVATION (T.O.C.): 3,423.57'

FILE NAME: MW043.dat

UNIQUE NUMBER: 31-014-00395

STATIC WATER LEVEL: -47.61' MEAS. PT.: T.O.C.

DATE: 05/07/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -62.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-36.0' to Surface

SEAL TYPE: Bentonite Chips

-39.0' to -36.0'

SCREEN PACK: 8/16 Sand

-62.0' to -39.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-42.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-62.0' to -42.0'

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35	X	Shovel				0.2				
	X	Shovel				0.3				
	X	Shovel				0.5				
	X	Shovel				0.6				
-40	X	Shovel				0.9				
	X	Shovel				0.1				
	X	Shovel				0.7				
-45	X	Shovel				0.7				
	X	Shovel				1.5				
-50	X	Shovel				0.8				
	X	Shovel				0.2				
	X	Shovel				0.4				
-55	X	Shovel				0.0				
	X	Shovel				0.2				
-60	X	Shovel				0.4				
	X	Shovel				0.1				

**ARCADIS**

WELL LOG

WELL NO.

MW044

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon, Pig Foot, Shovel

DATE BEGUN: 03/18/02 DATE COMPLETED: 03/18/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,420.63'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,420.41'

FILE NAME: MW044.dat UNIQUE NUMBER: 31-014-00396

STATIC WATER LEVEL: -43.86' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

DATE: 04/04/02

TOTAL DEPTH: -60.0'

TYPES**DEPTHS**

GROUT TYPE: Portland Cement w/15% Bentonite

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-32.0' to Surface

-35.0' to -32.0'

-60.0' to -35.0'

-40.0' to -2'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: —

-60.0' to -40.0'

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Split Spoon			100%	1.6			CLAYEY SAND 7.5 YR 4/6 strong brown, 60% very fine-grained to medium-grained SAND, dry to damp, loose to compactable.	
-5		Split Spoon			100%	1.4			CALICHE 7.5 YR 8/2 pinkish white, 30% very fine-grained to fine-grained SAND, soft to firm.	
-10		Split Spoon			75%	2.3				
-15		Pig Foot			100%	2.7				
-20		Pig Foot			100%	2.5				
-25		Pig Foot			100%	3.2				
-30		Pig Foot			100%	4.4			SANDSTONE 7.5 YR 6/4 light brown and 7.5 YR 5/6 strong brown layers, fine-grained to medium-grained, interbedded soft and firm layers.	



ARCADIS

WELL LOG

WELL NO.

MW044

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon, Pig Foot, Shovel

DATE BEGUN: 03/18/02 DATE COMPLETED: 03/18/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,420.63'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,420.41'

FILE NAME: MW044.dat

UNIQUE NUMBER: 31-014-00396

STATIC WATER LEVEL: -43.86' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

DATE: 04/04/02

TOTAL DEPTH: -60.0'

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/15% Bentonite

-32.0' to Surface

SEAL TYPE: Bentonite Chips

-35.0' to -32.0'

SCREEN PACK: 8/16 Sand

-60.0' to -35.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-40.0' to -.2'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-60.0' to -40.0'

PLUG BACK: —

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Pig Foot			100%	3.2				
-40		Split Spoon			75%	3.5				
-45		Split Spoon Shovel			50%	3.5				
-50		Shovel								
-55		Shovel								
-60		Shovel								



WELL LOG

WELL NO.

MW045

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -48.57' MEAS. PT.: T.O.C.

DATE: 04/04/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -66.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/15% Bentonite

-38.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-41.0' to -38.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-66.0' to -41.0'

SAMPLE METHOD: Split Spoon, Pig Foot, Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-46.0' to -2'

DATE BEGUN: 03/14/02 DATE COMPLETED: 03/14/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,425.33'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,425.53'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-66.0' to -46.0'

FILE NAME: MW045.dat UNIQUE NUMBER: 31-014-00397

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									CLAYEY SAND 7.5 YR 4/6 strong brown, 60% very fine-grained to fine-grained SAND, dry to damp, compactable to loose.	
-5		Split Spoon			100%	2.0				
-10		Split Spoon			100%	4.0				
-15		Split Spoon			75%	1.0			CALICHE 7.5 YR 8/3 pink, 20-30% very fine-grained to fine-grained SAND, soft to firm.	
-20		Pig Foot			100%	1.0				
-25		Pig Foot			100%	1.0				
-30		Pig Foot			100%	2.0			SANDSTONE 7.5 YR 6/4 light brown and 7.5 YR 5/6 strong brown, fine-grained to medium-grained SAND, interbedded layers of soft and firm SANDSTONE.	
-35		Pig Foot			100%	3.0				



ARCADIS

WELL LOG

WELL NO.

MW045

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon, Pig Foot, Shovel

DATE BEGUN: 03/14/02 DATE COMPLETED: 03/14/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,425.33'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,425.53'

FILE NAME: MW045.dat UNIQUE NUMBER: 31-014-00397

STATIC WATER LEVEL: -48.57' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

DATE: 04/04/02

TOTAL DEPTH: -66.0'

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/15% Bentonite

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: —

-38.0' to Surface

-41.0' to -38.0'

-66.0' to -41.0'

-46.0' to -.2'

—

—

-66.0' to -46.0'

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Pig Foot			100%	2.0				
-40		Pig Foot			100%	2.0				
-45		Split Spoon			75%	2.0				
-50		Split Spoon			50%	3.0				
-55		Shovel								
-55		Shovel								
-55		Shovel								
-55		Shovel								
-60		Shovel								
-60		Shovel								
-60		Shovel								
-65		Shovel								
-65		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW046

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon, Pig Foot, Shovel

DATE BEGUN: 03/15/02 DATE COMPLETED: 03/15/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,426.51'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,426.81'

FILE NAME: MW046.dat UNIQUE NUMBER: 31-014-00398

STATIC WATER LEVEL: -49.93' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

DATE: 04/04/02

TOTAL DEPTH: -66.0'

TYPES		DEPTHS
GROUT TYPE:	Portland Cement w/15% Bentonite	-38.0' to Surface
SEAL TYPE:	Bentonite Chips	-41.0' to -38.0'
SCREEN PACK:	8/16 Ind. Quartz	-66.0' to -41.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-46.0' to -.2'
	—	—
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-66.0' to -46.0'
PLUG BACK:	—	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									CLAYEY SAND 7.5 YR 4/6 strong brown, 60% very fine-grained to fine-grained SAND, dry to damp, loose to compactable.	
-5		Split Spoon			100%	0.0				
-10		Split Spoon			100%	0.0				
-15		Split Spoon			70%	0.0			CALICHE 7.5 YR 8/3 pink, 20-30% very fine-grained to fine-grained SAND, soft to firm.	
-20		Pig Foot			100%	2.0				
-25		Pig Foot			100%	1.0				
-30		Pig Foot			100%	1.0			SANDSTONE layers of 7.5 YR 6/4 light brown and 7.5 YR 5/6 strong brown, fine-grained to medium-grained SAND, interbedded layer of soft and firm SANDSTONE.	
-35		Pig Foot			100%	1.0				

**ARCADIS**

WELL LOG

WELL NO.

MW046

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon, Pig Foot, Shovel

DATE BEGUN: 03/15/02 DATE COMPLETED: 03/15/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,426.51'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,426.81'

FILE NAME: MW046.dat UNIQUE NUMBER: 31-014-00398

STATIC WATER LEVEL: -49.93' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

TYPES

GROUT TYPE: Portland Cement w/15% Bentonite

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Ind. Quartz

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: —

DATE: 04/04/02

TOTAL DEPTH: -66.0'

DEPTHS

-38.0' to Surface

-41.0' to -38.0'

-66.0' to -41.0'

-46.0' to -2'

—

—

-66.0' to -46.0'

—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Pig Foot			100%	0.0				
-40		Pig Foot			100%	1.0				
-45		Split Spoon			50%	1.0				
-50		Split Spoon			50%	0.0				
-55		Shovel								
-60		Shovel								
-65		Shovel								



WELL LOG

WELL NO.

MW046A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -50.09' MEAS. PT.: T.O.C.

DATE: 01/07/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -107.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-79.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-84.0' to -79.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-107.0' to -84.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-87.0' to 2.0'

DATE BEGUN: 12/05/02

DATE COMPLETED: 12/05/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,426.94'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,426.45'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-107.0' to -87.0'

FILE NAME: MW046A.dat

UNIQUE NUMBER: 31-014-00461

PLUG BACK: 8/16 Sand

-108.0' to -107.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									CLAYEY SAND 5 YR 5/6 yellowish red, 60% very fine grained to fine grained SAND, compactable.	
-5		Shovel			100%					
-10		Shovel			100%					
-15		Shovel			100%					
-20		Shovel			100%					
-25		Shovel			100%					
-30		Shovel			100%					
-35		Shovel			100%					



WELL NO.

MW046A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 3

STATIC WATER LEVEL: -50.09' MEAS. PT.: T.O.C.

DATE: 01/07/03

HOLE SIZE(S): 8"

TOTAL DEPTH: -107.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-79.0' to Surface

SEAL TYPE: Bentonite Chips

-84.0' to -79.0'

SCREEN PACK: 8/16 Sand

-107.0' to -84.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-87.0' to 2.0'

DATE COMPLETED: 12/05/02

ELEVATION (SURF.): 3,426.94'

ELEVATION (T.O.C.): 3,426.45'

UNIQUE NUMBER: 31-014-00461

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-107.0' to -87.0'

PLUG BACK: 8/16 Sand

-108.0' to -107.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVN READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
		Shovel			100%					
		Shovel			100%					
-40		Shovel			100%					
		Shovel			100%					
-45		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-50		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-55		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-60		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-65		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-70		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					



WELL NO.

MW046A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -50.09' MEAS. PT.: T.O.C.

DATE: 01/07/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -107.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-79.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-84.0' to -79.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-107.0' to -84.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-87.0' to 2.0'

DATE BEGUN: 12/05/02

DATE COMPLETED: 12/05/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,426.94'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,426.45'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-107.0' to -87.0'

FILE NAME: MW046A.dat

UNIQUE NUMBER: 31-014-00461

PLUG BACK: 8/16 Sand

-108.0' to -107.0'

[illegible]



ARCADIS

WELL LOG

WELL NO.

MW047

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Split Spoon, Pig Foot, Shovel

DATE BEGUN: 03/21/02 DATE COMPLETED: 03/21/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,427.96'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,427.65'

FILE NAME: MW047.dat UNIQUE NUMBER: 31-014-00399

STATIC WATER LEVEL: -49.54' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

DATE: 04/04/02

TOTAL DEPTH: -66.0'

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement w/5% Bentonite	-38.0' to Surface
SEAL TYPE:	Bentonite Chips	-41.0' to -38.0'
SCREEN PACK:	8/16 Sand	-66.0' to -41.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-46.0' to -.2'

WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-66.0' to -46.0'
PLUG BACK:	—	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									CLAYEY SAND 7.5 YR 4/6 strong brown, 60% fine-grained to medium-grained SAND, 40% CLAY, loose to compactable, damp.	
-1		Split Spoon			100%	1.1				
-3		Split Spoon			100%	3.8			CALICHE 7.5 YR 8/3 pink, 30-40% very fine-grained to fine-grained SAND, soft to firm.	
-7		Split Spoon			75%	3.6				
-13		Pig Foot			50%	2.8				
-18		Pig Foot			100%	2.3				
-23		Pig Foot			100%	4.6				
-28		Pig Foot			100%	3.3			SANDSTONE 7.5 YR 4/6 strong brown, fine-grained to medium-grained SAND, interbedded soft and firm layers.	

WELL LOG

WELL NO.

MW047

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1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -49.54' MEAS. PT.: T.O.C.

DATE: 04/04/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -66.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: Flush, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-38.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-41.0' to -38.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-66.0' to -41.0'

SAMPLE METHOD: Split Spoon, Pig Foot, Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-46.0' to -.2'

DATE BEGUN: 03/21/02 DATE COMPLETED: 03/21/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,427.96'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,427.65'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-66.0' to -46.0'

FILE NAME: MW047.dat UNIQUE NUMBER: 31-014-00399

PLUG BACK: —

[illegible]



ARCADIS

WELL LOG

WELL NO.

MW048SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 7/23/02

DATE COMPLETED: 7/23/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,418.78'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,421.10'

FILE NAME: MW048SA.dat

UNIQUE NUMBER: 31-014-00425

STATIC WATER LEVEL: -46.45' MEAS. PT.: T.O.C.

DATE: 8/01/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -82.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-19.0' to Surface

SEAL TYPE: Bentonite Chips

-22.0' to -19.0'

SCREEN PACK: 8/16 Sand

-82.0' to -22.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-27.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-82.0' to -27.0'

PLUG BACK: 8/16 Sand

-84.0' to -82.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel			100%				CLAYEY SAND 5 YR 5/6 yellowish red, 70% very fine-grained to fine-grained SAND, 30% CLAY, loose.	
		Shovel			100%					
-5		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-10		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-15		Shovel			100%					
		Shovel			100%				CALICHE 7.5 YR 8/3 pink, 30-40% very fine-grained to fine-grained SAND, friable to firm.	
		Shovel			100%					
		Shovel			100%					
-20		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-25		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-30		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-35		Shovel			100%				SANDSTONE 7.5 YR 5/6 strong brown and 7.5 YR 6/4 light brown, fine-grained to medium-grained, interbedded soft and firm layers, -61' to -66' hard.	
		Shovel			100%					
		Shovel			100%					
-40		Shovel			100%					
		Shovel			100%					



ARCADIS

WELL LOG

WELL NO.

MW048SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 7/23/02

DATE COMPLETED: 7/23/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,418.78'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,421.10'

FILE NAME: MW048SA.dat UNIQUE NUMBER: 31-014-00425

STATIC WATER LEVEL: -46.45' MEAS. PT.: T.O.C.

DATE: 8/01/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -82.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-19.0' to Surface

SEAL TYPE: Bentonite Chips

-22.0' to -19.0'

SCREEN PACK: 8/16 Sand

-82.0' to -22.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-27.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-82.0' to -27.0'

PLUG BACK: 8/16 Sand

-84.0' to -82.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-50	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-55	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-60	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-65	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-70	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-75	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-80	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-85	X	Shovel			100%					

SANDSTONE 7.5 YR 5/6 strong brown, 70% fine-grained to coarse-grained SAND, soft to firm, 30-40% fine-grained to medium pebble GRAVEL, rounded to subangular, poorly sorted.

SANDY GRAVEL 70% fine-grained to medium-pebble GRAVEL, rounded to subangular, poorly sorted, 20% fine-grained to coarse-grained SAND, 10% CLAY, 2.5 YR 4/6 red, elastic.

CLAY 2.5 YR 4/6 red, very fine-grained, elastic.



WELL LOG

WELL NO.

MW049SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 7/23/02

DATE COMPLETED: 7/23/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,420.15'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,422.46'

FILE NAME: MW049SA.dat

UNIQUE NUMBER: 31-014-00424

STATIC WATER LEVEL: -49.31' MEAS. PT.: T.O.C.

DATE: 7/30/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -84.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-29.0' to Surface

SEAL TYPE: Bentonite

-32.0' to -29.0'

SCREEN PACK: 8/16 Sand

-82.0' to -32.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-37.0' to 2.0'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-82.0' to -37.0'

PLUG BACK: 8/16 Sand

-84.0' to -82.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel			100%				CLAYEY SAND 5 YR 5/6 yellowish red, 70% very fine-grained to fine-grained SAND, 30% CLAY, loose.	
-10		Shovel			100%					
-15		Shovel			100%					
-20		Shovel			100%					
-25		Shovel			100%					
-30		Shovel			100%					
-35		Shovel			100%					
-40		Shovel			100%					



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WELL LOG

WELL NO.

MW049SA

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 7/23/02

DATE COMPLETED: 7/23/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,420.15'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,422.46'

FILE NAME: MW049SA.dat

UNIQUE NUMBER: 31-014-00424

STATIC WATER LEVEL: -49.31' MEAS. PT.: T.O.C.

DATE: 7/30/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -84.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-29.0' to Surface

SEAL TYPE: Bentonite

-32.0' to -29.0'

SCREEN PACK: 8/16 Sand

-82.0' to -32.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-37.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-82.0' to -37.0'

PLUG BACK: 8/16 Sand

-84.0' to -82.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
-50	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
-55	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
-60	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
-65	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
-70	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
-75	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
-80	Shovel				100%					
	Shovel				100%					
	Shovel				100%					
-85	Shovel				100%					



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WELL LOG

WELL NO.

MW050SA

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 7/22/02

DATE COMPLETED: 7/22/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,417.61'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,419.31'

FILE NAME: MW050SA.dat

UNIQUE NUMBER: 31-014-00423

STATIC WATER LEVEL: -46.30' MEAS. PT.: T.O.C.

DATE: 7/30/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -78.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-30.0' to Surface

SEAL TYPE: Bentonite Chips

-33.0' to -30.0'

SCREEN PACK: 8/16 Sand

-78.0' to -33.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-38.0' to 2.0'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-78.0' to -38.0'

PLUG BACK: 8/16 Sand

-80.0' to -78.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel			100%				CLAYEY SAND 5 YR 5/6 yellowish red, 80% very fine-grained to fine-grained SAND, 20% CLAY, loose.	
		Shovel			100%					
-5		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-10		Shovel			100%				CALICHE 7.5 YR 8/3 pink, 30-40% very fine-grained to fine-grained SAND, friable to firm.	
		Shovel			100%					
		Shovel			100%					
-15		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-20		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-25		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-30		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-35		Shovel			100%				SANDSTONE 7.5 YR 6/4 light brown and 7.5 YR 5/6 strong brown layers, fine-grained to medium-grained, interbedded friable and firm layers.	
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					



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WELL LOG

WELL NO.

MW050SA

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 7/22/02 DATE COMPLETED: 7/22/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,417.61'

LOGGER: L. Markham ELEVATION (T.O.C.): 3,419.31'

FILE NAME: MW050SA.dat UNIQUE NUMBER: 31-014-00423

STATIC WATER LEVEL: -46.30' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

DATE: 7/30/02

TOTAL DEPTH: -78.0'

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite -30.0' to Surface

SEAL TYPE: Bentonite Chips -33.0' to -30.0'

SCREEN PACK: 8/16 Sand -78.0' to -33.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank -38.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -78.0' to -38.0'

PLUG BACK: 8/16 Sand -80.0' to -78.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45		Shovel			100%				SANDSTONE 7.5 YR 5/6 strong brown, fine-grained to medium-grained, friable to firm, 30-40% CALICHE, silicious, hard, with conchoidal fractures.	
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-50		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-55		Shovel			100%					
		Shovel			100%					
-60		Shovel			100%				SANDSTONE 7.5 YR 5/6 strong brown, fine-grained to medium-grained, hard.	
		Shovel			100%					
		Shovel			100%					
-65		Shovel			100%				SANDSTONE 7.5 YR 5/6 strong brown, 70% fine-grained to coarse-grained SAND, friable to firm, 30-40% GRAVEL, fine-grained to medium-pebble, rounded to subangular, poorly sorted.	
		Shovel			100%					
		Shovel			100%					
-70		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-75		Shovel			100%				CLAY 2.5 YR 4/6 red, very fine-grained, elastic.	
		Shovel			100%					
-80		Shovel			100%					



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WELL LOG

WELL NO.

MW051SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -44.50' MEAS. PT.: T.O.C.

DATE: 10/10/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -63.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-10.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-28.0' to -10.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-63.0' to -28.0'

SAMPLE METHOD: Shovel/Core

CASING TYPE: 4" Diameter Sch. 30 PVC Blank

-33.0' to 2.0'

DATE BEGUN: 10/03/02

DATE COMPLETED: 10/04/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,413.48'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,415.42'

WELL SCREEN: 4" Diameter Sch. 30 PVC, 0.020" slots

-63.0' to -33.0'

FILE NAME: MW051SA.dat

UNIQUE NUMBER: 31-014-00422

PLUG BACK: 8/16 Sand

-65.0' to -63.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel			100%				SAND 5 YR 5/6 yellowish red, very fine grained to fine grained, loose.	
		Shovel			100%					
-5		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-10		Shovel			100%				CALICHE 7.5 YR 8/3 pink, 30-40% very fine-grained to fine-grained SAND, friable to firm.	
		Shovel			100%					
		Shovel			100%					
-15		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-20		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-25		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-30		Shovel			100%				SANDSTONE 7.5 YR 6/4 light brown, fine-grained to medium-grained, interbedded soft and firm layers.	



WELL NO.

MW051SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -44.50' MEAS. PT.: T.O.C.

DATE: 10/10/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -63.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel/Core

DATE BEGUN: 10/03/02

DATE COMPLETED: 10/04/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3.413.48'

DRILLER: C. Scarborough
LOGGER: L. Markham

ELEVATION (T.O.C.): 3,415.42'

FILE NAME: MW051SA.dat

UNIQUE NUMBER: 31-014-00422

GROUT TYPE: Portland Cement

-10.0' to Surface

SEAL TYPE: Bentonite Chips

-28.0' to -10.0'

SCREEN PACK: 8/16 Sand

-63.0' to -28.0'

CASING TYPE: 4" Diameter Sch. 30 PVC Blank

-33.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 30 PVC, 0.020" slots

-63.0' to -33.0'

PLUG BACK: 8/16 Sand

-65.0' to -63.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35	Shovel				100%					
-35	Shovel				100%					
-35	Shovel				100%					
-40	Shovel				100%					
-40	Shovel				100%					
-40	Core				0.0					
-45	Core				0.0					
-50	Core				1.0					
-55	Core				0.0					
-60	Core				3.0				SANDSTONE 7.5 YR 5/6 strong brown, 50-60% fine-grained to coarse-grained SAND, friable to firm, 30-40% GRAVEL, fine-grained to medium-pebble, rounded to subangular, poorly sorted, 10% CLAY, 5 YR 6/6 reddish yellow, elastic.	
-65									CLAY 2.5 YR 4/6 red, very fine-grained, elastic.	



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WELL LOG

WELL NO.

MW052SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -45.45' MEAS. PT.: T.O.C.

DATE: 10/10/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -63.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-25.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-28.0' to -25.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-63.0' to -28.0'

SAMPLE METHOD: Shovel/Core

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-33.0' to 2.0'

DATE BEGUN: 10/02/02

DATE COMPLETED: 10/02/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,412.90'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,415.23'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-63.0' to -33.0'

FILE NAME: MW052SA.dat

UNIQUE NUMBER: 31-014-00421

PLUG BACK: 8/16 Sand

-65.0' to -63.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 10 R 4/8 red, very fine-grained to SILT, well rounded, well sorted, loose, dry.	
-10		Shovel								
-15		Shovel							SAND 10 R 4/8 red, very fine-grained to SILT, well rounded, well sorted, loose, dry, 70% SAND, 10% CALICHE, soft, crumbly.	
-20		Shovel								
-25		Shovel							CALICHE 10 R 8/3 pink, crumbly, soft, arenaceous.	
-30		Shovel								



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WELL LOG

WELL NO.

MW052SA

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel/Core

DATE BEGUN: 10/02/02 DATE COMPLETED: 10/02/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,412.90'

LOGGER: R. Lang ELEVATION (T.O.C.): 3,415.23'

FILE NAME: MW052SA.dat UNIQUE NUMBER: 31-014-00421

STATIC WATER LEVEL: -45.45' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

DATE: 10/10/02

TOTAL DEPTH: -63.0'

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite -25.0' to Surface

SEAL TYPE: Bentonite Chips -28.0' to -25.0'

SCREEN PACK: 8/16 Sand -63.0' to -28.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank -33.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -63.0' to -33.0'

PLUG BACK: 8/16 Sand -65.0' to -63.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Shovel								
-40		Shovel								
-40		Core			0.0				SAND 2.5 YR 7/6 light red, very fine-grained to SILT, well rounded, well sorted, loose, rare, fine GRAVEL, pebbles to 5mm, subangular.	
-45		Core			0.0					
-50		Core			1.0					
-55		Core			0.0				CONGLOMERATE 10 R 5/8 red, 90% very fine-grained SAND to SILT, well cemented with CALICHE cement, very hard 10% CHERT and LITHIC pebbles to 1 cm.	
-55		Core			0.0					
-60		Core			2.0				SAND 2.5 YR 7/6 light red, very fine-grained to SILT, well rounded, well sorted, loose, argillaceous.	
-65									CLAYSTONE 10 R 4/8 red, firm, massive, black carbon rich clasts, may be coal.	



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WELL LOG

WELL NO.

MW053SA

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 9/10/02

DATE COMPLETED: 9/10/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,411.52'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,413.86'

FILE NAME: MW053SA.dat

UNIQUE NUMBER: 31-014-00428

STATIC WATER LEVEL: -43.93' MEAS. PT.: T.O.C.

DATE: 9/18/02

HOLE SIZE(S): 8 7/8"

TOTAL DEPTH: -65.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-10.0' to Surface

SEAL TYPE: Bentonite Chips

-30.0' to -10.0'

SCREEN PACK: 8/16 Sand

-65.0' to -30.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-35.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-65.0' to -35.0'

PLUG BACK: 8/16 Sand

-68.0' to -65.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 10 R 4/8 red, fine-grained to very fine-grained, subrounded, loose, dry, argillaceous, frosted.	
-5		Shovel							SAND 10 R 4/8 red, fine-grained to very fine-grained, 70% SAND, 30% CALICHE, soft to firm.	
-10		Shovel								
-15		Shovel							CALICHE 2.5 YR 8/3 pink, firm, 60% CALICHE, 40% SAND 10 R 4/8 red, fine-grained to very fine-grained, loose.	
-20		Shovel								
-25		Shovel							CALICHE 2.5 YR 8/3 pink, firm to hard.	
-30		Shovel								
		Shovel							SAND 10 R 6/6 light red, very fine-grained, well sorted, loose, argillaceous.	

**ARCADIS**

WELL LOG

WELL NO.

MW053SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 9/10/02

DATE COMPLETED: 9/10/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,411.52'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,413.86'

FILE NAME: MW053SA.dat

UNIQUE NUMBER: 31-014-00428

STATIC WATER LEVEL: -43.93' MEAS. PT.: T.O.C.

DATE: 9/18/02

HOLE SIZE(S): 8 7/8"

TOTAL DEPTH: -65.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-10.0' to Surface

SEAL TYPE: Bentonite Chips

-30.0' to -10.0'

SCREEN PACK: 8/16 Sand

-65.0' to -30.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-35.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-65.0' to -35.0'

PLUG BACK: 8/16 Sand

-68.0' to -65.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35									CALICHE 7.5 YR 8/2 pinkish white, firm to hard.	
-40		Shovel								
-45		Shovel							SAND 10 R 5/4 weak red, very fine-grained, well sorted, loose, argillaceous.	
-50		Shovel								
-55		Shovel							SANDSTONE 2.5 YR 8/3 pink, fine-grained, hard, well cemented with CALICHE.	
-60		Shovel							SAND 10 R 5/4 weak red, very fine-grained, loose.	
-65		Shovel							GRAVEL 4/3 LITHIC GRAVEL, well rounded pebbles to 1 cm.	
-70		Shovel							CLAY 2.5 YR 6/6 light red, sticky, plastic.	

**ARCADIS**

WELL LOG

WELL NO.

MW054SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 01/20/03 DATE COMPLETED: 01/20/03

DRILLER: S. Scarborough ELEVATION (SURF.): 3,409.06'

LOGGER: Meeks/Markham ELEVATION (T.O.C.): 3,411.38'

FILE NAME: MW054SA.dat UNIQUE NUMBER: 31-014-00462

STATIC WATER LEVEL: -45.21' MEAS. PT.: T.O.C.

DATE: 01/30/03

HOLE SIZE(S): 8"

TOTAL DEPTH: -57.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/15% Bentonite

-24.0' to Surface

SEAL TYPE: Bentonite Chips

-28.0' to -24.0'

SCREEN PACK: 8/16 Sand

-57.0' to -28.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-32.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-57.0' to -32.0'

PLUG BACK: 8/16 Sand

-60.0' to -57.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel			100%				SAND 5 YR 4/6 yellowish red, very fine-grained to fine-grained, loose.	
		Shovel			100%					
-5		Shovel			100%					
		Shovel			100%					
-10		Shovel			100%					
		Shovel			100%					
-15		Shovel			100%				CALICHE 5 YR 6/6 reddish yellow, 30%-40% very fine-grained to fine-grained SAND, soft to firm.	
		Shovel			100%					
-20		Shovel			100%					
		Shovel			100%					
-25		Shovel			100%					
		Shovel			100%					
-30		Shovel			100%					



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WELL LOG

WELL NO.

MW054SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -45.21' MEAS. PT.: T.O.C.

DATE: 01/30/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -57.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/15% Bentonite

-24.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-28.0' to -24.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-57.0' to -28.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-32.0' to 2.0'

DATE BEGUN: 01/20/03

DATE COMPLETED: 01/20/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,409.06'

LOGGER: Meeks/Markham

ELEVATION (T.O.C.): 3,411.38'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-57.0' to -32.0'

FILE NAME: MW054SA.dat

UNIQUE NUMBER: 31-014-00462

PLUG BACK: 8/16 Sand

-60.0' to -57.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Shovel			100%				CALICHE 7.5 YR 8/4 pink, 30%-40% fine-grained to coarse grained SAND, 5%-10% CLAY, soft to firm.	
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-40		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-45		Shovel			100%				SANDSTONE 7.5 YR 8/4 pink, 20% fine-grained to coarse-grained, 20% siliceous SANDSTONE, indurated.	
		Shovel			100%					
		Shovel			100%					
-50		Shovel			100%				SANDSTONE and GRAVEL 2.5 YR 5/8 red, fine-grained to coarse-grained, very small to medium pebble, rounded to angular, poorly sorted, hard.	
		Shovel			100%					
		Shovel			100%					
-55		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%				CLAY 2.5 YR 4/6 red, elastic.	
-60		Shovel			100%					



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WELL LOG

WELL NO.

MW055SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

DRILLING CO: Lea County, New Mexico

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 12/23/02 DATE COMPLETED: 12/23/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,405.33'

LOGGER: R. Lang ELEVATION (T.O.C.): 3,407.43'

FILE NAME: MW055SA.dat UNIQUE NUMBER: 31-014-00463

STATIC WATER LEVEL: -41.20' MEAS. PT.: T.O.C.

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

GROUT TYPE: Portland Cement

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: 8/16 Sand

DATE: 01/06/03

TOTAL DEPTH: -50.0'

TYPES

DEPTHS

-22.0' to Surface

-25.0' to -22.0'

-50.0' to -25.0'

-30.0' to 2.0'

—

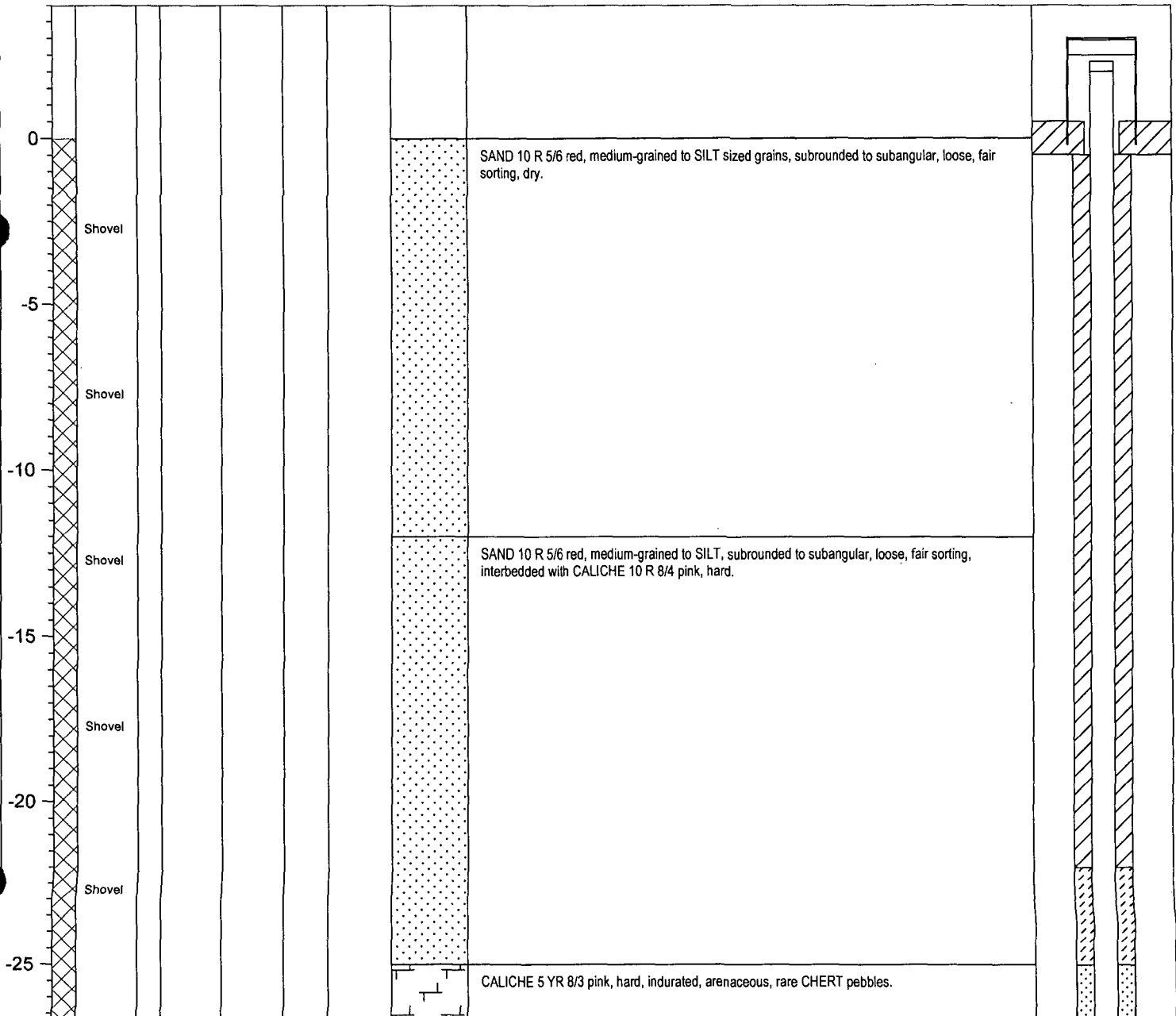
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-50.0' to -30.0'

-54.0' to -50.0'

DESCRIPTION

WELL INSTALLATION





WELL NO.

MW055SA

1004 N. Big Spring St. Suite 300. Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -41.20' MEAS. PT.: T.O.C.

DATE: 01/06/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -50.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-22.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-25.0' to -22.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-50.0' to -25.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-30.0' to 2.0'

DATE BEGUN: 12/23/02

DATE COMPLETED: 12/23/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,405.33'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,407.43'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-50.0' to -30.0'

FILE NAME: MW055SA.dat

UNIQUE NUMBER: 31-014-00463

PLUG BACK: 8/16 Sand

-54.0' to -50.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel								
-35		Shovel								
-40		Shovel							SANDSTONE 10 R 5/6 very fine-grained, well cemented, very hard.	
-45		Shovel							CLAY 10 R 5/6 light red, firm, arenaceous, plastic.	
-50		Shovel							GRAVEL 5 YR 5/4 reddish brown, CHERT GRAVEL, loose, well rounded.	
-55		Shovel							CLAY 10 R 6/8 light red, firm, plastic.	

WELL LOG

WELL NO.

MW056SA

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1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary

SAMPLE METHOD: Shovel

DATE BEGUN: 12/26/02

DATE COMPLETED: 12/26/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,408.51'

DRILLER: S. Gourd
LOGGER: R. Lang

ELEVATION (T.O.C.): 3,410.71'

FILE NAME: MW056SA.dat

UNIQUE NUMBER: 31-014-00464

STATIC WATER LEVEL: -46.32' MEAS. PT.: T.O.C.

DATE: 01/07/03

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -52.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

LOOKING TYPES

DEPTHS

GROUT TYPE: Portland Cement

-24.0' to Surface

SEAL TYPE: Bentonite Chips

-27.0' to -24.0'

SCREEN PACK: 8/16 Sand

-52.0' to -27.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-32.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-52.0' to -32.0'

PLUG BACK: 8/16 Sand

-53.0' to -52.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel							SAND 10 R 5/6 red, medium-grained to SILT sized grains, subrounded to subangular, loose, fair sorting, dry.	
-5		Shovel								
-10		Shovel							CALICHE 5 YR 8/4 pink, friable.	
-15		Shovel							SAND 2.5 YR 6/8 light red, SILT to fine-grained SAND, subrounded to subangular, fair sorting, argillaceous, some red grains.	
-20		Shovel								
-25		Shovel							CALICHE 2.5 YR 6/8 light red, soft, arenaceous.	



WELL NO.

MW056SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -46.32' MEAS. PT.: T.O.C.

DATE: 01/07/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -52.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-24.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-27.0' to -24.0'

DRILLING METHOD: Rotary

SCREEN PACK: 8/16 Sand

-52.0' to -27.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-32.0' to 2.0'

DATE BEGUN: 12/26/02

DATE COMPLETED: 12/26/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,408.51'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,410.71'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-52.0' to -32.0'

FILE NAME: MW056SA.dat

UNIQUE NUMBER: 31-014-00464

PLUG BACK: 8/16 Sand

-53.0' to -52.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel								
-35		Shovel								
-40		Shovel							SANDSTONE 10 R 5/8 red, very fine-grained to SILT, fair sorting, siliceous cement, very hard.	
-45		Shovel							CLAY 5 YR 6/8 reddish yellow, soft.	
-50		Shovel							GRAVEL 2.5 YR CHERT and LITHIC GRAVEL to 1 cm well rounded, color varies.	
									CLAY 10 R 6/6 light red, firm to sticky.	



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WELL LOG

WELL NO.

MW057SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 01/21/03 DATE COMPLETED: 01/21/03

DRILLER: S. Scarborough ELEVATION (SURF.): 3,415.38'

LOGGER: S. Meeks ELEVATION (T.O.C.): 3,417.74'

FILE NAME: MW057SA.dat UNIQUE NUMBER: 31-014-00465

STATIC WATER LEVEL: -46.33' MEAS. PT.: T.O.C.

DATE: 01/30/03

HOLE SIZE(S): 8"

TOTAL DEPTH: -68.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-25.0' to Surface

SEAL TYPE: Bentonite Chips

-29.0' to -25.0'

SCREEN PACK: 8/16 Sand

-68.0' to -29.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-33.0' to 2.0'

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WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-68.0' to -33.0'

PLUG BACK: 8/16 Sand

-70.0' to -68.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5 YR 4/6 red, fine-grained to very fine-grained, loose.	
		Shovel			100%					
		Shovel			100%					
-5		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-10		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-15		Shovel			100%				CALICHE 7.5 YR 8/4 pink, 30% to 40% very fine-grained to fine-grained SAND, soft to firm.	
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-20		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-25		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-30		Shovel			100%				CALICHE 7.5 YR 8/3 pink, 30% to 40% very fine-grained to fine-grained SAND, soft to firm.	
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					

**ARCADIS**

WELL LOG

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

WELL NO.

MW057SA

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 01/21/03 DATE COMPLETED: 01/21/03

DRILLER: S. Scarborough ELEVATION (SURF.): 3,415.38'

LOGGER: S. Meeks ELEVATION (T.O.C.): 3,417.74'

FILE NAME: MW057SA.dat UNIQUE NUMBER: 31-014-00465

STATIC WATER LEVEL: -46.33' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite -25.0' to Surface

SEAL TYPE: Bentonite Chips -29.0' to -25.0'

SCREEN PACK: 8/16 Sand -68.0' to -29.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank -33.0' to 2.0'

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WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -68.0' to -33.0'

PLUG BACK: 8/16 Sand -70.0' to -68.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Shovel			100%					
		Shovel			100%					
-40		Shovel			100%					
		Shovel			100%					
-45		Shovel			100%					
		Shovel			100%					
-50		Shovel			100%					
		Shovel			100%				SANDSTONE 7.5 YR 8/3 pink, fine-grained to coarse-grained, 20% siliceous SANDSTONE, indurated.	
-55		Shovel			100%					
		Shovel			100%				SANDSTONE 2.5 YR 6/6 light red, 80% fine-grained to coarse-grained SAND, 20% small pebble GRAVEL, rounded to angular, poorly sorted, hard.	
-60		Shovel			100%					
		Shovel			100%				GRAVEL very small to medium pebbles, round to angular, poorly sorted, hard.	
-65		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%				CLAY 5 YR 4/6 yellowish red, elastic.	
-70		Shovel			100%					



ARCADIS

WELL LOG

WELL NO.

MW058

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 01/22/03

DATE COMPLETED: 01/22/03

DRILLER: S. Scarborough ELEVATION (SURF.): 3,434.98'

LOGGER: S. Meeks ELEVATION (T.O.C.): 3,437.13'

FILE NAME: MW058.dat UNIQUE NUMBER: 31-014-00466

STATIC WATER LEVEL: -58.49' MEAS. PT.: T.O.C.

HOLE SIZE(S): 8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

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WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: 8/16 Sand

DATE: 01/31/03

TOTAL DEPTH: -109.0'

-41.0' to Surface

-45.0' to -41.0'

-109.0' to -45.0'

-49.0' to 2.0'

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-109.0' to -49.0'

-114.0' to -109.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5 YR 4/6 red, very fine-grained to fine-grained, 20% CLAY, loose.	
-5		Shovel			100%					
-10		Shovel			100%				CALICHE 5 YR 7/6 reddish yellow, 30% to 40% very fine-grained to fine-grained SAND, soft to firm.	
-15		Shovel			100%					
-20		Shovel			100%					
-25		Shovel			100%				SANDSTONE 5 YR 6/8 reddish yellow, very fine-grained to fine-grained, 10% CLAY, soft to firm.	
-30		Shovel			100%					
-35		Shovel			100%					

**ARCADIS**

WELL LOG

WELL NO.

MW058

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 3

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 01/22/03 DATE COMPLETED: 01/22/03

DRILLER: S. Scarborough ELEVATION (SURF.): 3,434.98'

LOGGER: S. Meeks ELEVATION (T.O.C.): 3,437.13'

FILE NAME: MW058.dat UNIQUE NUMBER: 31-014-00466

STATIC WATER LEVEL: -58.49' MEAS. PT.: T.O.C.

DATE: 01/31/03

HOLE SIZE(S): 8"

TOTAL DEPTH: -109.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-41.0' to Surface

SEAL TYPE: Bentonite Chips

-45.0' to -41.0'

SCREEN PACK: 8/16 Sand

-109.0' to -45.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-49.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-109.0' to -49.0'

PLUG BACK: 8/16 Sand

-114.0' to -109.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-45		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-50		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-55		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-60		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-65		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-70		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-75		Shovel			100%					



ARCADIS

WELL LOG

WELL NO.

MW058

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1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -58.49' MEAS. PT.: T.O.C.

DATE: 01/31/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -109.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-41.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-45.0' to -41.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-109.0' to -45.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-49.0' to 2.0'

DATE BEGUN: 01/22/03

DATE COMPLETED: 01/22/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,434.98'

LOGGER: S. Meeks

ELEVATION (T.O.C.): 3,437.13'

FILE NAME: MW058.dat

UNIQUE NUMBER: 31-014-00466

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-109.0' to -49.0'

PLUG BACK: 8/16 Sand

-114.0' to -109.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-80	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-85	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-90	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-95	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%				SANDSTONE 5 YR 6/8 reddish yellow, 20% siliceous SANDSTONE, indurated.	
-100	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%				SANDSTONE 2.5 YR 4/8 red, very fine-grained to fine-grained, 10% to 20% CLAY, soft to firm.	
-105	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%					
-110	X	Shovel			100%					
	X	Shovel			100%					
	X	Shovel			100%				SANDSTONE 2.5 YR 4/8 red, very fine-grained to fine GRAVEL, 10% to 20% CLAY, 5% to 10% GRAVEL, very small to small pebbles, rounded to angular, poorly sorted, hard.	
-115	X	Shovel			100%					

**ARCADIS**

WELL LOG

WELL NO.

MW059

Page 1 of 3

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -63.28' MEAS. PT.: T.O.C.

DATE: 01/31/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -105.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-37.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-41.0' to -37.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-105.0' to -41.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 01/23/03 DATE COMPLETED: 01/23/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,440.02'

LOGGER: S. Meeks

ELEVATION (T.O.C.): 3,442.24'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-105.0' to -45.0'

FILE NAME: MW059.dat

UNIQUE NUMBER: 31-014-00467

PLUG BACK: 8/16 Sand

-113.0' to -105.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5 YR 4/6 red, very fine-grained to fine-grained, 10% CALICHE, soft to firm, loose.	
-5		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-10		Shovel			100%				CALICHE 5 YR 7/4 pink, 30% to 40% very fine-grained to fine-grained SAND, 5% CLAY, soft to firm.	
		Shovel			100%					
		Shovel			100%					
-15		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-20		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-25		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-30		Shovel			100%				SANDSTONE 5 YR 7/6 reddish yellow, very fine-grained to fine-grained, 10% CALICHE, soft to firm.	
		Shovel			100%					
		Shovel			100%					
-35		Shovel			100%					



ARCADIS

WELL LOG

WELL NO.

MW059

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -63.28' MEAS. PT.: T.O.C.

DATE: 01/31/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -105.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-37.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-41.0' to -37.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-105.0' to -41.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 01/23/03

DATE COMPLETED: 01/23/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,440.02'

LOGGER: S. Meeks

ELEVATION (T.O.C.): 3,442.24'

FILE NAME: MW059.dat

UNIQUE NUMBER: 31-014-00467

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-105.0' to -45.0'

PLUG BACK: 8/16 Sand

-113.0' to -105.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-45		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-50		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-55		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-60		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-65		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-70		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-75		Shovel			100%					



ARCADIS

WELL LOG

WELL NO.

MW059

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -63.28' MEAS. PT.: T.O.C.

DATE: 01/31/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -105.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-37.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-41.0' to -37.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-105.0' to -41.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 01/23/03

DATE COMPLETED: 01/23/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,440.02'

LOGGER: S. Meeks

ELEVATION (T.O.C.): 3,442.24'

FILE NAME: MW059.dat

UNIQUE NUMBER: 31-014-00467

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-105.0' to -45.0'

PLUG BACK: 8/16 Sand

-113.0' to -105.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-80		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-85		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-90		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-95		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-100		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-105		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-110		Shovel			100%					
		Shovel			100%					
		Shovel			100%					
-115		Shovel			100%				SANDSTONE 2.5 YR 5/6 red, very fine-grained to fine-grained, 10% to 20% CLAY, 5% to 10% GRAVEL, small pebbles, subrounded to angular, poorly sorted, hard.	



ARCADIS

WELL LOG

WELL NO.

MW060

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 3

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -58.62' MEAS. PT.: T.O.C.

DATE: 01/08/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -100

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-28.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-30.0' to -28.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-100.0' to -30.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-40.0' to 2.0'

DATE BEGUN: 12/30/02

DATE COMPLETED: 12/30/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,435.40'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,437.70'

FILE NAME: MW060.dat

UNIQUE NUMBER: 31-014-00468

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-100.0' to -40.0'

PLUG BACK: Bentonite

-110.0' to -100.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 10 R 4/4 weak red, very fine-grained, loose, argillaceous.	
-5		Shovel							CALICHE 7.5 YR 8/3 pink, soft to indurated and hard, arenaceous, fine-grained, well rounded grains.	
-10		Shovel								
-15		Shovel								
-20		Shovel							SAND 2.5 YR 6/6 light red, very fine-grained to SILT, loose interbedded with CALICHE, friable to hard.	
-25		Shovel								
-30		Shovel								
-35		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW061

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 3

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -60.23' MEAS. PT.: T.O.C.

DATE: 01/08/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -108.5'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-35.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-38.0' to -35.0'

DRILLING METHOD: Rotary

SCREEN PACK: 8/16 Sand

-108.5' to -38.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-48.5' to 2.0'

DATE BEGUN: 12/27/02

DATE COMPLETED: 12/27/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,437.77'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,439.86'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-108.5' to -48.5'

FILE NAME: MW061.dat

UNIQUE NUMBER: 31-014-00469

PLUG BACK: Bentonite

-114.0' to -108.5'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 10 YR 4/4 weak red, very fine-grained, loose, argillaceous.	
-5		Shovel							CALICHE 5 YR 8/2 pinkish white, crumbly, slightly arenaceous.	
-10		Shovel							SANDSTONE 10 R 4/8 red, SILT to fine-grained, well rounded, friable, argillaceous, red cement.	
-15		Shovel								
-20		Shovel							CALICHE 5 YR 8/2 pinkish white, arenaceous, fine-grained, well rounded, very friable.	
-25		Shovel							SAND 2.5 YR 6/6 light red, fine-grained SAND to SILT, subrounded to subangular, loose, argillaceous.	
-30		Shovel								
-35		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW061

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 3

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary

SAMPLE METHOD: Shovel

DATE BEGUN: 12/27/02 DATE COMPLETED: 12/27/02

DRILLER: S. Scarborough ELEVATION (SURF.): 3,437.77'

LOGGER: R. Lang ELEVATION (T.O.C.): 3,439.86'

FILE NAME: MW061.dat UNIQUE NUMBER: 31-014-00469

STATIC WATER LEVEL: -60.23' MEAS. PT.: T.O.C.

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

GROUT TYPE: Portland Cement

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: Bentonite

DATE: 01/08/03

TOTAL DEPTH: -108.5'

DEPTHS

-35.0' to Surface

-38.0' to -35.0'

-108.5' to -38.0'

-48.5' to 2.0'

—

—

-108.5' to -48.5'

-114.0' to -108.5'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
		Shovel								
		Shovel							SANDSTONE 2.5 YR 6/6 light red, fine-grained SAND, calcareous cement, firm.	
-45		Shovel								
		Shovel							SANDSTONE 2.5 YR 6/6 fine-grained to SILT, hard, siliceous cement.	
		Shovel								
-50		Shovel							SAND 2.5 YR 6/6 fine grained to SILT, well rounded, weakly cemented, loose to very friable, argillaceous.	
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel							SAND 2.5 YR 6/6 SILT to fine-grained SAND, well rounded, fair sorting, loose.	
		Shovel								
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW061

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -60.23' MEAS. PT.: T.O.C.

DATE: 01/08/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -108.5'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-35.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-38.0' to -35.0'

DRILLING METHOD: Rotary

SCREEN PACK: 8/16 Sand

-108.5' to -38.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-48.5' to 2.0'

DATE BEGUN: 12/27/02

DATE COMPLETED: 12/27/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,437.77'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,439.86'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-108.5' to -48.5'

FILE NAME: MW061.dat

UNIQUE NUMBER: 31-014-00469

PLUG BACK: Bentonite

-114.0' to -108.5'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-80		Shovel								
		Shovel								
		Shovel								
		Shovel								
-85		Shovel								
		Shovel								
		Shovel								
		Shovel								
-90		Shovel								
		Shovel								
		Shovel								
		Shovel								
-95		Shovel								
		Shovel								
		Shovel								
-100		Shovel								
		Shovel								
		Shovel								
		Shovel								
-105		Shovel								
		Shovel								
		Shovel								
		Shovel								
-110		Shovel								
		Shovel								
-115		Shovel							GRAVEL 2.5 YR 3/6 dark red, CHERT and LITHIC GRAVEL to 5 mm, well rounded, CLAY 5 YR 6/4 light reddish brown, firm, SILTY.	



ARCADIS

WELL LOG

WELL NO.

MW062A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -57.13' MEAS. PT.: T.O.C.

DATE: 01/31/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -108.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-90.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-96.0' to -90.0'

DRILLING METHOD: Rotary

SCREEN PACK: 8/16 Sand

-108.0' to -96.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-98.0' to 2.0'

DATE BEGUN: 01/06/03

DATE COMPLETED: 01/06/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,432.41'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,434.19'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-108.0' to -98.0'

FILE NAME: MW062A.dat

UNIQUE NUMBER: 31-014-00470

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5 YR 4/8 red, very fine-grained SAND to SILT, well rounded, frosted, well sorted, loose, dry.	
-5		Shovel								
-10		Shovel							CALICHE 5 YR 7/4 pink, friable, arenaceous.	
-15		Shovel								
-20		Shovel							SANDSTONE 2.5 YR 6/8 light red, 90% SANDSTONE very fine-grained to SILT, poorly cemented and very friable to loose, 10% CALICHE, friable as interbeds.	
-25		Shovel								
-30		Shovel								
-35		Shovel								



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WELL LOG

WELL NO.

MW062A

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary

SAMPLE METHOD: Shovel

DATE BEGUN: 01/06/03

DATE COMPLETED: 01/06/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,432.41'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,434.19'

FILE NAME: MW062A.dat

UNIQUE NUMBER: 31-014-00470

STATIC WATER LEVEL: -57.13' MEAS. PT.: T.O.C.

DATE: 01/31/03

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -108.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-90.0' to Surface

SEAL TYPE: Bentonite Chips

-96.0' to -90.0'

SCREEN PACK: 8/16 Sand

-108.0' to -96.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-98.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-108.0' to -98.0'

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
-45		Shovel								
-50		Shovel								
-55		Shovel								
-60		Shovel								
-65		Shovel								
-70		Shovel								
-75		Shovel								
									SAND 2.5 YR 6/8 light red, fine-grained SAND to SILT, loose, well sorted.	



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WELL LOG

WELL NO.

MW063A

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -57.89' MEAS. PT.: T.O.C.

DATE: 01/31/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -106.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-89.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-94.0' to -89.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-106.0' to -94.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-96.0' to 2.0'

DATE BEGUN: 01/07/03

DATE COMPLETED: 01/07/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,433.12'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,435.22'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-106.0' to -96.0'

FILE NAME: MW063A.dat

UNIQUE NUMBER: 31-014-00471

PLUG BACK: Bentonite

-110.0' to -106.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5 YR 4/8 red, very fine-grained SAND to SILT, well rounded, frosted, well sorted, loose, dry.	
-5		Shovel					SM			
-10		Shovel							CALICHE 5 YR 7/4 pink, friable, arenaceous.	
-15		Shovel								
-20		Shovel								
-25		Shovel								
-30		Shovel								
-35		Shovel							SANDSTONE 2.5 YR 6/8 light red, 90% SANDSTONE very fine-grained to SILT, poorly cemented and very friable to loose, 10% CALICHE friable as interbeds.	



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WELL LOG

WELL NO.

MW063A

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 01/07/03 DATE COMPLETED: 01/07/03

DRILLER: S. Scarborough ELEVATION (SURF.): 3,433.12'

LOGGER: R. Lang ELEVATION (T.O.C.): 3,435.22'

FILE NAME: MW063A.dat UNIQUE NUMBER: 31-014-00471

STATIC WATER LEVEL: -57.89' MEAS. PT.: T.O.C.

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: Bentonite

DATE: 01/31/03

TOTAL DEPTH: -106.0'

-89.0' to Surface

-94.0' to -89.0'

-106.0' to -94.0'

-96.0' to 2.0'

-106.0' to -96.0'

-110.0' to -106.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
-45		Shovel								
-50		Shovel								
-55		Shovel								
-60		Shovel								
-65		Shovel								
-70		Shovel								
-75		Shovel								
									SAND 2.5 YR 6/8 light red, fine-grained SAND to SILT, loose, well sorted, subrounded, frosted grains, some poorly cemented, friable interbeds.	



WELL LOG

WELL NO.

MW063A

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -57.89' MEAS. PT.: T.O.C.

DATE: 01/31/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -106.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-89.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-94.0' to -89.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-106.0' to -94.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-96.0' to 2.0'

DATE BEGUN: 01/07/03

DATE COMPLETED: 01/07/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,433.12'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,435.22'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-106.0' to -96.0'

FILE NAME: MW063A.dat

UNIQUE NUMBER: 31-014-00471

PLUG BACK: Bentonite

-110.0' to -106.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-80		Shovel								
-85		Shovel								
-90		Shovel							SANDSTONE 10 R 4/6 red, fine-grained SAND to SILT, well sorted, well cemented, very hard, siliceous cement.	
-95		Shovel							SAND 10 R 6/6 light red, 60% very fine-grained, subrounded SAND to SILT, 40% CLAY 10 R 5/8 red, soft, sticky, as interbeds.	
-100		Shovel								
-105		Shovel							GRAVEL 7.5 YR 5/6 strong brown, LITHIC and CHERT GRAVEL, well rounded, poorly sorted to 1 cm.	
-110		Shovel							CLAY 2.5 YR 7/8 light red, fairly firm.	

**ARCADIS**

WELL LOG

WELL NO.

MW064SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -54.20' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -75.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-25.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-30.0' to -25.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-75.0' to -30.0'

SAMPLE METHOD: Shovel/Core

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-35.0' to 2.0'

DATE BEGUN: 02/18/03 DATE COMPLETED: 02/19/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,403.03'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,405.15'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-75.0' to -35.0'

FILE NAME: MW064SA.dat

UNIQUE NUMBER: 31-014-00474

PLUG BACK: 8/16 Sand

-79.0' to -75.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 2.5 YR 7/6 light red, subrounded, loose, dry.	
-10		Sh/Core			0.0					
-15		Sh/Core			0.0					
-20		Sh/Core			0.0				CALICHE 2.5 YR 8/2 pinkish white, very soft and friable, arenaceous, very fine-grained, vuggy porosity to 1cm SANDSTONE 10 R 5/6 red SILT to very fine-grained, subrounded, well sorted, friable, soft, argillaceous as interbeds 60% CALICHE, 40% SANDSTONE, lost partial circulation.	
-25		Sh/Core			1.4					
-30		Sh/Core			1.0					
-35		Sh/Core			1.1					
		Sh/Core			0.2					



WELL NO.
MW064SA

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PROJECT NUMBER: MT000700.0006		STATIC WATER LEVEL: -54.20' MEAS. PT.: T.O.C.		DATE: 03/27/03	
CLIENT NAME: ChevronTexaco Exploration & Production Co.		HOLE SIZE(S): 7 7/8"		TOTAL DEPTH: -75.0'	
PROJECT NAME: North Eunice Groundwater Investigation		SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab			
SITE LOCATION: Eunice, New Mexico		<u>TYPES</u>		<u>DEPTHS</u>	
Lea County, New Mexico		GROUT TYPE: Portland Cement		-25.0' to Surface	
DRILLING CO: Scarborough Drilling Co.		SEAL TYPE: Bentonite Chips		-30.0' to -25.0'	
DRILLING METHOD: Rotary/Mud/Water		SCREEN PACK: 8/16 Sand		-75.0' to -30.0'	
SAMPLE METHOD: Shovel/Core		CASING TYPE: 4" Diameter Sch. 40 PVC Blank		-35.0' to 2.0'	
DATE BEGUN: 02/18/03		DATE COMPLETED: 02/19/03		—	
DRILLER: S. Scarborough		ELEVATION (SURF.): 3,403.03'		—	
LOGGER: R. Lang		ELEVATION (T.O.C.): 3,405.15'		WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots	
FILE NAME: MW064SA.dat		UNIQUE NUMBER: 31-014-00474		-75.0' to -35.0'	
		PLUG BACK: 8/16 Sand		-79.0' to -75.0'	

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WELL LOG

WELL NO.

MW066SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -52.45' MEAS. PT.: T.O.C.

DATE: 03/28/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -66.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-30.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-36.0' to -30.0'

DRILLING METHOD: Rotary

SCREEN PACK: 8/16 Sand

-66.0' to -36.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-41.0' to 2.0'

DATE BEGUN: 02/26/03

DATE COMPLETED: 02/26/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,401.57'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,404.03'

FILE NAME: MW066SA.dat

UNIQUE NUMBER: 31-014-00476

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-66.0' to -41.0'

PLUG BACK: 8/16 Sand

-68.0' to -66.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 2.5 YR 7/6 light red, very fine-grained, subrounded, loose, well sorted.	
-10		Shovel								
-15		Shovel							SAND 2.5 YR 7/6 light red, very fine-grained, subrounded, loose, well sorted, 80% SAND 20% CALICHE 5 YR 8/2 pinkish white, soft as interbeds.	
-20		Shovel								
-25		Shovel							SANDSTONE 10 R 4/6 red, 60% SILT to fine-grained, subrounded, well sorted, soft to friable, 40% CALICHE, 2.5 YR 8/3 pink, hard.	
-30		Shovel								

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WELL LOG

WELL NO.

MW066SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -52.45' MEAS. PT.: T.O.C.

DATE: 03/28/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -66.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-30.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-36.0' to -30.0'

DRILLING METHOD: Rotary

SCREEN PACK: 8/16 Sand

-66.0' to -36.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-41.0' to 2.0'

DATE BEGUN: 02/26/03

DATE COMPLETED: 02/26/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,401.57'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,404.03'

FILE NAME: MW066SA.dat

UNIQUE NUMBER: 31-014-00476

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-66.0' to -41.0'

PLUG BACK: 8/16 Sand

-68.0' to -66.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OWM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Shovel								
		Shovel								
		Shovel								
		Shovel							SANDSTONE 2.5 YR 5/4 reddish brown 60% SILT to very fine-grained SAND, subrounded, soft to friable, 40% CALICHE, 2.5 YR 8/3 pink, hard.	
-40		Shovel								
		Shovel							CALICHE 2.5 YR pink, 75% hard, arenaceous, 25% SANDSTONE 2.5 YR 4/4 reddish brown.	
		Shovel								
-45		Shovel								
		Shovel								
		Shovel								
		Shovel							CALICHE 2.5 YR pink, 60% hard indurated, 40% broken CHERT fragments, gray and white.	
-50		Shovel								
		Shovel								
		Shovel								
		Shovel							CHERT 10 R 5/2, broken fragments to 2 cm, very hard.	
-55		Shovel								
		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel							CLAY 10 R 5/6 red, soft, slightly arenaceous.	
		Shovel								
-65		Shovel								
		Shovel								



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WELL LOG

WELL NO.

MW067SA

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -47.64' MEAS. PT.: T.O.C.

DATE: 03/28/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -83.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-33.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-38.0' to -33.0'

DRILLING METHOD: Rotary

SCREEN PACK: 8/16 Sand

-83.0' to -38.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-43.0' to 2.0'

DATE BEGUN: 02/27/03

DATE COMPLETED: 02/27/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,406.75'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,409.16'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-83.0' to -43.0'

FILE NAME: MW067SA.dat

UNIQUE NUMBER: 31-014-00477

PLUG BACK: 8/16 Sand

-86.0' to -83.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel					SM		SAND 2.5 YR 7/6 light red, very fine-grained, subrounded to well rounded, loose, well sorted, frosted.	
-5		Shovel								
		Shovel								
-10		Shovel								
		Shovel								
-15		Shovel							SAND 2.5 YR 7/6 light red, very fine-grained, subrounded to well rounded, loose, well sorted, frosted, 90% SAND, 10% CALICHE 10 R 8/3 pink, soft as interbeds.	
		Shovel								
-20		Shovel								
		Shovel								
-25		Shovel								
		Shovel								
-30		Shovel							SANDSTONE 2.5 YR 7/6 light red, SILT 60% to very fine-grained, subrounded to subangular, fair sorting, friable, argillaceous, 40% CALICHE, 10 R 8/3 pink, soft to hard.	
		Shovel								
-35		Shovel								
		Shovel								
-40		Shovel							CALICHE 7.5 YR 8/1 white, 60% very soft and sticky, to hard, 40% SANDSTONE as above.	
		Shovel								



WELL NO.

MW067SA

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PLUG BACK: 8/16 Sand

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45	Shovel									
-50	Shovel									
-55	Shovel									
-60	Shovel									
-65	Shovel									
-70	Shovel								CALICHE 7.5 YR 8/1 white, 60% soft to hard, 30% LITHIC and CHERT GRAVEL to 5 mm, well rounded, 10% CLAY 2.5 YR 8/3 pink, soft, sticky.	
-75	Shovel									
-80	Shovel									
-85	Shovel								CLAY 10 R 5/8 red, soft, sticky.	



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WELL LOG

WELL NO.

MW068

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 02/28/03

DATE COMPLETED: 02/28/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,445.69'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,448.08'

FILE NAME: MW068.dat

UNIQUE NUMBER: 31-014-00478

STATIC WATER LEVEL: -67.61' MEAS. PT.: T.O.C.

DATE: 03/27/03

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -110.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-35.0' to Surface

SEAL TYPE: Bentonite Chips

-40.0' to -35.0'

SCREEN PACK: 8/16 Sand

-110.0' to -40.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-110.0' to -45.0'

PLUG BACK: Bentonite

-120.0' to -110.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 10 R 7/6 light red, 60% SILT to fine-grained SAND, subrounded to well sorted, loose, interbedded with CALICHE, 40% CALICHE 7.5 YR 8/3 pink, soft to firm.	
-10		Shovel								
-15		Shovel								
-20		Shovel							CALICHE 7.5 YR 5/3 pink, 60% firm to indurated, 40% SANDSTONE 10 R 5/4 weak red, SILT to very fine-grained, subrounded, well sorted, loose to firm, argillaceous.	
-25		Shovel								
-30		Shovel								
-35		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW068

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -67.61' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -110.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-35.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-40.0' to -35.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-110.0' to -40.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 02/28/03

DATE COMPLETED: 02/28/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,445.69'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,448.08'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-110.0' to -45.0'

FILE NAME: MW068.dat

UNIQUE NUMBER: 31-014-00478

PLUG BACK: Bentonite

-120.0' to -110.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OWM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel							SAND 7.5 YR 6/6 reddish yellow, 90% fine-grained SAND to SILT, subrounded, well sorted, loose, argillaceous, 10% CALICHE 7.5 YR 8/3 pink, soft to hard, as interbeds.	
-45		Shovel								
-50		Shovel								
-55		Shovel								
-60		Shovel								
-65		Shovel								
-70		Shovel								
-75		Shovel								
-80		Shovel								



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WELL LOG

WELL NO.

MW068

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -67.61' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -110.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-35.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-40.0' to -35.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-110.0' to -40.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 02/28/03

DATE COMPLETED: 02/28/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,445.69'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,448.08'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-110.0' to -45.0'

FILE NAME: MW068.dat

UNIQUE NUMBER: 31-014-00478

PLUG BACK: Bentonite

-120.0' to -110.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-85		Shovel								
		Shovel								
		Shovel								
		Shovel								
-90		Shovel								
		Shovel								
		Shovel								
		Shovel								
-95		Shovel								
		Shovel								
		Shovel								
-100		Shovel								
		Shovel								
		Shovel								
-105		Shovel								
		Shovel								
		Shovel								
-110		Shovel								
		Shovel								
		Shovel								
-115		Shovel								
		Shovel								
		Shovel								
-120		Shovel								

CLAY 2.5 YR 5/6 light red, 90% soft, sticky, 10% GRAVEL 10 YR 4/3 brown, LITHIC and CHERT GRAVEL to 5 mm.



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WELL LOG

WELL NO.

MW069

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -64.89' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -110.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-35.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-40.0' to -35.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-110.0' to -40.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 03/03/03

DATE COMPLETED: 03/03/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,441.56'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,444.07'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-110.0' to -45.0'

FILE NAME: MW069.dat

UNIQUE NUMBER: 31-014-00479

PLUG BACK: Bentonite

-120.0' to -110.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OWM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
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0										
-5		Shovel					SM		SAND 10 R 7/6 light red, 60% SILT to fine-grained SAND, subrounded, well sorted, loose to weakly cemented with CLAY, 40% CALICHE 10 R 8/1 white, soft to firm, friable, arenaceous.	
-10		Shovel								
-15		Shovel								
-20		Shovel								
-25		Shovel								
-30		Shovel								
-35		Shovel							SANDSTONE 10 R 5/6 red, 75% fine-grained SAND to SILT, subrounded, well sorted, hard, well cemented, 25% CALICHE 10 R 8/1 white, friable to hard, arenaceous, SANDSTONE, has cement siliceous, some calcareous.	



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WELL LOG

WELL NO.

MW069

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -64.89' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -110.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-35.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-40.0' to -35.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-110.0' to -40.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 03/03/03

DATE COMPLETED: 03/03/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,441.56'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,444.07'

FILE NAME: MW069.dat

UNIQUE NUMBER: 31-014-00479

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-110.0' to -45.0'

PLUG BACK: Bentonite

-120.0' to -110.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
-45		Shovel							SANDSTONE 10 R 5/6 red, 90% fine-grained SAND to SILT, subrounded, well sorted, friable to uncemented, 10% CALICHE, 10 R 8/1 white, friable.	
-50		Shovel								
-55		Shovel								
-60		Shovel								
-65		Shovel								
-70		Shovel								
-75		Shovel								
-80		Shovel								



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WELL LOG

WELL NO.

MW069

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -64.89' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -110.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-35.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-40.0' to -35.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-110.0' to -40.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 03/03/03

DATE COMPLETED: 03/03/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,441.56'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,444.07'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-110.0' to -45.0'

FILE NAME: MW069.dat

UNIQUE NUMBER: 31-014-00479

PLUG BACK: Bentonite

-120.0' to -110.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-85		Shovel								
		Shovel								
		Shovel								
		Shovel								
-90		Shovel								
		Shovel								
		Shovel								
-95		Shovel								
		Shovel								
-100		Shovel								
		Shovel								
-105		Shovel								
		Shovel								
-110		Shovel								
		Shovel								
-115		Shovel								
		Shovel								
-120		Shovel							CLAY 10 R 6/8 light red, 95% very soft, sticky, 5% CHERT pebbles and fragments to 3mm.	



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WELL LOG

WELL NO.

MW070

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -61.00' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -93.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-36.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-43.0' to -36.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-93.0' to -43.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-48.0' to 2.0'

DATE BEGUN: 03/04/03

DATE COMPLETED: 03/04/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,437.40'

LOGGER: S. Meeks

ELEVATION (T.O.C.): 3,439.68'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-93.0' to -48.0'

FILE NAME: MW070.dat

UNIQUE NUMBER: 31-014-00480

PLUG BACK: Bentonite

-100.0' to -93.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 10 R 7/6 light red, 50% SILT to fine-grained SAND, subrounded, well sorted, 50% CALICHE 10 R 8/1 white with CLAY, soft to firm.	
-5		Shovel								
-10		Shovel								
-15		Shovel								
-20		Shovel								
-25		Shovel								
-30		Shovel								



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WELL LOG

WELL NO.

MW070

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

DRILLING CO: Lea County, New Mexico

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 03/04/03

DATE COMPLETED: 03/04/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,437.40'

LOGGER: S. Meeks

ELEVATION (T.O.C.): 3,439.68'

FILE NAME: MW070.dat

UNIQUE NUMBER: 31-014-00480

STATIC WATER LEVEL: -61.00' MEAS. PT.: T.O.C.

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

GROUT TYPE: Portland Cement

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: Bentonite

DATE: 03/27/03

TOTAL DEPTH: -93.0'

TYPES

DEPTHS

-36.0' to Surface

-43.0' to -36.0'

-93.0' to -43.0'

-48.0' to 2.0'

—

-93.0' to -48.0'

-100.0' to -93.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Shovel								
-40		Shovel								
-45		Shovel							SANDSTONE 2.5 YR 7/6 light red, 70% SILT to fine-grained SAND, subrounded, well sorted, friable to loose, 30% CALICHE 10 R 8/1 white, fine to hard.	
-50		Shovel								
-55		Shovel								
-60		Shovel							SAND 2.5 YR 7/6 light red, SILT to fine-grained, well rounded, well sorted.	
-65		Shovel								



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WELL LOG

WELL NO.

MW070

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Mud/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 03/04/03 DATE COMPLETED: 03/04/03

DRILLER: S. Scarborough ELEVATION (SURF.): 3,437.40'

LOGGER: S. Meeks ELEVATION (T.O.C.): 3,439.68'

FILE NAME: MW070.dat UNIQUE NUMBER: 31-014-00480

STATIC WATER LEVEL: -61.00' MEAS. PT.: T.O.C.

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

SEAL TYPE: Bentonite Chips

SCREEN PACK: 8/16 Sand

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

PLUG BACK: Bentonite

-36.0' to Surface

-43.0' to -36.0'

-93.0' to -43.0'

-48.0' to 2.0'

—

-93.0' to -48.0'

-100.0' to -93.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-70		Shovel								
-75		Shovel								
-80		Shovel								
-85		Shovel								
-90		Shovel								
-95		Shovel								
-100		Shovel								
									SANDSTONE 10 R 4/6 Red, very fine-grained to fine-grained, subrounded to subangular, very hard, silicious.	
									SAND 10 R 7/6 light ed, 75% very fine-grained to fine-grained, subrounded, 15% CLAY, soft, sticky.	
									SAND 10 R 7/6 light red, 75% very fine-grained to fine-grained, subrounded, 10% CLAY, soft, sticky, 5% GRAVEL, fine to medium, subangular poorly sorted.	



WELL LOG

WELL NO.

MW070A

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -61.08' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -127.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-100.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-107.0' to -100.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-127.0' to -107.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-112.0' to 2.0'

DATE BEGUN: 02/27/03

DATE COMPLETED: 02/27/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,437.34'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,439.67'

FILE NAME: MW070A.dat

UNIQUE NUMBER: 31-014-00481

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-127.0' to -112.0'

PLUG BACK: 8/16 Sand

-130.0' to -127.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 10 R 7/6 light red, 60% SILT to fine-grained SAND, subrounded, well sorted, loose to weakly cemented with CLAY, 50% CALICHE 10 R 8/1 white, soft to firm, some arenaceous.	
-10		Shovel								
-15		Shovel								
-20		Shovel								
-25		Shovel								
-30		Shovel								
-35		Shovel								
-40		Shovel							SANDSTONE 2.5 YR 7/6 light red, 70% SILT to fine-grained SAND, subrounded, well sorted, friable to loose, argillaceous cement, calcareous, 30% CALICHE 10 R 8/1 white, firm to hard.	



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WELL LOG

WELL NO.

MW070A

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PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

DRILLING CO: Lea County, New Mexico

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 02/27/03

DATE COMPLETED: 02/27/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,437.34'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,439.67'

FILE NAME: MW070A.dat

UNIQUE NUMBER: 31-014-00481

STATIC WATER LEVEL: -61.08' MEAS. PT.: T.O.C.

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3"x3"x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-100.0' to Surface

SEAL TYPE: Bentonite Chips

-107.0' to -100.0'

SCREEN PACK: 8/16 Sand

-127.0' to -107.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-112.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-127.0' to -112.0'

PLUG BACK: 8/16 Sand

-130.0' to -127.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-45		Shovel								
		Shovel								
		Shovel								
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel							SAND 2.5 YR 7/6 light red, SILT to fine-grained SAND, well rounded, well sorted, loose, some very weakly cemented with CLAY.	
		Shovel								
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								
		Shovel								
		Shovel								
-80		Shovel								
		Shovel								
		Shovel								
-85		Shovel								
		Shovel								
		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW070A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -61.08' MEAS. PT.: T.O.C.

DATE: 03/27/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -127.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-100.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-107.0' to -100.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-127.0' to -107.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-112.0' to 2.0'

DATE BEGUN: 02/27/03

DATE COMPLETED: 02/27/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,437.34'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,439.67'

FILE NAME: MW070A.dat

UNIQUE NUMBER: 31-014-00481

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-127.0' to -112.0'

PLUG BACK: 8/16 Sand

-130.0' to -127.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-90		Shovel								
		Shovel								
		Shovel								
-95		Shovel							SANDSTONE 10 R 4/6 red, SILT to very-fine grained, subrounded, well sorted, very well cemented, very hard, siliceous.	
		Shovel							CLAY 10 R 7/6 light red, 75% soft, sticky, 25% CHERT and LITHIC GRAVEL to 1 cm, subrounded as interbeds.	
		Shovel								
		Shovel								
		Shovel								
-100		Shovel								
		Shovel								
		Shovel								
-105		Shovel								
		Shovel								
		Shovel								
-110		Shovel								
		Shovel								
		Shovel								
-115		Shovel								
		Shovel								
		Shovel								
-120		Shovel								
		Shovel								
		Shovel								
-125		Shovel								
		Shovel								
		Shovel							CLAY 10 R 5/8 red, soft, sticky.	
		Shovel								
-130		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW071SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0008

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 05/01/03 DATE COMPLETED: 05/01/03

DRILLER: S. Scarborough ELEVATION (SURF.): 3,398.85'

LOGGER: R. Lang ELEVATION (T.O.C.): 3,401.01'

FILE NAME: MW071SA.dat UNIQUE NUMBER: 31-014-00547

STATIC WATER LEVEL: -52.61' MEAS. PT.: T.O.C.

HOLE SIZE(S): 7 7/8"

SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

TYPES DEPTHS

GROUT TYPE: Portland Cement -19.0' to Surface

SEAL TYPE: Bentonite Chips -24.0' to -19.0'

SCREEN PACK: 8/16 Sand -89.0' to -24.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank -29.0' to 2.16'

— —

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots -89.0' to -29.0'

PLUG BACK: 8/16 Sand -92.0' to -89.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel					SM		SAND 10R 4/8 red, very fine grained, subrounded to subangular, well sorted, loose, dry, rare black grains.	
-5										
		Shovel							SAND 80% 10R 4/8 red, very fine grained, subrounded to subangular, well sorted, loose, dry, rare black grains; 20% CALICHE 10R 8/4 pink, friable, as interbeds.	
-10										
		Shovel								
-15										
		Shovel								
-20										
		Shovel							SANDSTONE 10R 5/6 red, fine grained to SILT, subrounded, well sorted, friable, 75%; 25% CALICHE 10R 8/4 pink, friable.	
-25										
		Shovel								
-30										
		Shovel								
-35										
		Shovel								
-40										
		Shovel								
-45										
		Shovel								
		Shovel								
		Shovel								
		Shovel								



ARCADIS

WELL LOG

WELL NO.

MW071SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0008

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 05/01/03

DATE COMPLETED: 05/01/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,398.85'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,401.01'

FILE NAME: MW071SA.dat

UNIQUE NUMBER: 31-014-00547

STATIC WATER LEVEL: -52.61' MEAS. PT.: T.O.C.

DATE: 05/19/03

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -89.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-19.0' to Surface

SEAL TYPE: Bentonite Chips

-24.0' to -19.0'

SCREEN PACK: 8/16 Sand

-89.0' to -24.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-29.0' to 2.16'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-89.0' to -29.0'

PLUG BACK: 8/16 Sand

-92.0' to -89.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-50		Shovel								
-51		Shovel								
-52		Shovel								
-53		Shovel								
-54		Shovel								
-55		Shovel								
-56		Shovel								
-57		Shovel								
-58		Shovel								
-59		Shovel								
-60		Shovel								
-61		Shovel								
-62		Shovel								
-63		Shovel								
-64		Shovel								
-65		Shovel								
-66		Shovel								
-67		Shovel								
-68		Shovel								
-69		Shovel								
-70		Shovel								
-71		Shovel								
-72		Shovel								
-73		Shovel								
-74		Shovel								
-75		Shovel								
-76		Shovel								
-77		Shovel								
-78		Shovel								
-79		Shovel								
-80		Shovel							SANDSTONE 10R 5/6 red, fine grained to SILT, subrounded, well sorted, friable; 25% CALICHE 10R 8/4 pink, friable, 95%; 5% GRAVEL 2.5YR 4/3 reddish brown, very fine CHERT and lithic GRAVEL to 3 mm, well rounded, loose, as interbeds, quantity of GRAVEL increases to 50% at base of unit.	
-81		Shovel								
-82		Shovel								
-83		Shovel								
-84		Shovel								
-85		Shovel								
-86		Shovel								
-87		Shovel								
-88		Shovel								
-89		Shovel							CLAY 10R 4/6 red, plastic to firm.	
-90		Shovel								
-91		Shovel								
-92		Shovel								
-93		Shovel								
-94		Shovel								
-95		Shovel								



WELL LOG

WELL NO.

MW072SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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PROJECT NUMBER: MT000700.0008

STATIC WATER LEVEL: -53.46' MEAS. PT.: T.O.C.

DATE: 05/01/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -91.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-20.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-26.0' to -20.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-91.0' to -26.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-29.0' to 1.96'

DATE BEGUN: 04/30/03 DATE COMPLETED: 04/30/03

DRILLER: Scott Scarborough ELEVATION (SURF.): 3,399.38'

LOGGER: R. Lang ELEVATION (T.O.C.): 3,401.34'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-91.0' to -29.0'

FILE NAME: MW072SA.dat UNIQUE NUMBER: 31-014-00548

PLUG BACK: 8/16 Sand

-92.0' to -91.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 10R 4/8 red, very fine to fine grained, subrounded to subangular, well sorted, loose, dry, rare black grains.	
-10		Shovel							CALICHE 10R 8/2 pinkish white, firm to soft, friable, 70% CALICHE; 30% SAND 10R 4/8 red, very fine to fine grained, subrounded to subangular, well sorted, loose, dry, rare black grains.	
-15		Shovel								
-20		Shovel								
-25		Shovel							CALICHE 60% 10R 8/2 pinkish white, firm to soft, friable; 40% SANDSTONE 10R 5/6 red, SILT to very fine grained SAND, subrounded to subangular, well sorted, friable, CALICHE cement.	
-30		Shovel								
-35		Shovel								
-40		Shovel								
-45		Shovel								



WELL NO.

MW072SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

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DATE: 05/01/03

TOTAL DEPTH: -91.0'

TYPES		DEPT
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
97	98	99
100	101	102
103	104	105
106	107	108
109	110	111
112	113	114
115	116	117
118	119	120
121	122	123
124	125	126
127	128	129
130	131	132
133	134	135
136	137	138
139	140	141
142	143	144
145	146	147
148	149	150
151	152	153
154	155	156
157	158	159
160	161	162
163	164	165
166	167	168
169	170	171
172	173	174
175	176	177
178	179	180
181	182	183
184	185	186
187	188	189
190	191	192
193	194	195
196	197	198
199	200	201
202	203	204
205	206	207
208	209	210
211	212	213
214	215	216
217	218	219
220	221	222
223	224	225
226	227	228
229	230	231
232	233	234
235	236	237
238	239	240
241	242	243
244	245	246
247	248	249
250	251	252
253	254	255
256	257	258
259	260	261
262	263	264
265	266	267
268	269	270
271	272	273
274	275	276
277	278	279
280	281	282
283	284	285
286	287	288
289	290	291
292	293	294
295	296	297
298	299	300
301	302	303
304	305	306
307	308	309
310	311	312
313	314	315
316	317	318
319	320	321
322	323	324
325	326	327
328	329	330
331	332	333
334	335	336
337	338	339
340	341	342
343	344	345
346	347	348
349	350	351
352	353	354
355	356	357
358	359	360
361	362	363
364	365	366
367	3	

TYPES

DEPTHS

-20.0' to Surface

-26.0' to -20.0'

-91.0' to -26.0'

-29.0' to 1.96'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots **-91.0' to -29.0'**

PLUG BACK: 8/16 Sand

[illegible]



ARCADIS

WELL LOG

WELL NO.

MW073SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0008

STATIC WATER LEVEL: -50.25' MEAS. PT.: T.O.C.

DATE: 05/03/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -66.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-17.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-21.0' to -1.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-66.0' to -21.0'

SAMPLE METHOD: Shovel

CASING TYPE: -21.0' to -17.0'

-26.0' to 2.15'

DATE BEGUN: 04/29/03

DATE COMPLETED: 04/29/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,401.11'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,403.26'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-66.0' to -26.0'

FILE NAME: MW073SA.dat

UNIQUE NUMBER: 31-014-00549

PLUG BACK: 8/16 Sand

-68.0' to -66.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 10R 4/8 red, very fine to fine grained, subrounded to subangular, well sorted, loose, dry, some black and white CHERT grains, rare, frosted grains.	
-10		Shovel							CALICHE 10R 8/2 pinkish white, 40% CALICHE, soft; 20% CLAY 10R 5/6 red, soft; 40% SAND 10R 4/8 red, very fine to fine grained, subrounded to subangular, well sorted, loose, dry, some black and white CHERT grains, rare frosted grains.	
-15		Shovel								
-20		Shovel							CALICHE 10R 8/2 pinkish white, firm, friable, slightly arenaceous.	
-25		Shovel							SAND 10R 6/6 light red, very fine grained to SILT, subrounded to subangular, well sorted, loose.	
-30		Shovel							SANDSTONE 10R 5/6 red, fine grained, subrounded, hard, well sorted, siliceous cement.	
		Shovel							SAND 10R 6/6 light red, 80% fine grained to SILT, poorly cemented, very friable, 20% CALICHE	



WELL NO.

MW073SA

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0008

STATIC WATER LEVEL: -50.25' MEAS. PT.: T.O.C.

DATE: 05/03/03

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -66.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPING

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement

-17.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-21.0' to -1.0'

DRILLING METHOD: Rotary/Water

SCREEN PACK: 8/16 Sand

-66.0' to -21.0'

SAMPLE METHOD: Shovel

CASING TYPE: -21.0' to -17.0'

-26.0' to 2.15'

DATE BEGUN: 04/29/03

DATE COMPLETED: 04/29/03

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,401.11'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,403.26'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-66.0' to -26.0'

FILE NAME: MWV073SA.dat

UNIQUE NUMBER: 31-014-00549

PLUG BACK: 8/16 Sand

-68.0' to -66.0'

[illegible]

Project No: 787

Borehole #: RW-1

Project: Eunice #2 (North) Gas Plant

Client: Texaco Exploration and Production, Inc.

Enclosure: 1 of 1

Location: Eunice, New Mexico

Engineer: MJL

SUBSURFACE PROFILE				SAMPLE								Well Data	Remarks
Depth	Symbol	Description	Depth/Elev.	Number	Type	Blows/ft	Recovery	Shear Strength blows/ft					
								20	40	60	80		
0		Elevation: 3425.73	0										
5		Sand 7.5YR 5/6, yellowish red, very fine to fine grained quartz sand, poorly sorted, silty, dry	425.73 421.73										Above-grade Cover
10		Caliche 7.5YR 7/6, reddish yellow, indurated, hard, some sand											Sch. 40 PVC Riser 6" (Threaded)
15													
20		Sand 7.5YR 6/6, reddish yellow, very fine to fine grained quartz sand, poorly sorted	19 406.73										Cement/Bentonite Grout
25		Minor beds of moderately cemented sandstone, approximately 1' thick, below 25 feet											
30													
35													
40													Bentonite Chips
45													
50													Sch. 40 PVC Screen 6" (0.020" Slot)
55													
60													
65													
70													
75													
80													8-16 Silica Sand
85		Chert 2.5YR 4/6, red, silicious, hard	83 342.73 87										
90		Sand 7.5YR 6/6, reddish yellow, very fine to fine grained quartz sand, poorly sorted, loose	338.73										
95													
100													
105													Sch. 40 PVC Cap 6" (Threaded)
110		Shale 2.5YR 4/6, red, silty, soft	108.4396 311.8904										
115		TD: 111 Feet	314.73										

Drilled By: Scarborough Drilling, Inc.

Highlander Environmental Corp.
1910 N. Big Spring Street
Midland, Texas
(915) 682-4559

Hole Size: 10"

Drill Method: Rotary (water)

Datum: Geodetic

Drill Date: 13-Jan-99

Sheet: 1 of 1



WELL LOG

WELL NO.

RW002

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -53.0' MEAS. PT.: T.O.C.

DATE: 10/01/01

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 10"

TOTAL DEPTH: -68.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Cement w/5% Bentonite

-38.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-43.0' to -38.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-68.0' to -43.0'

SAMPLE METHOD: Shovel/Split Spoon

CASING TYPE: 6" Diameter Sch. 40 PVC Blank

-48.0' to 2.0'

DATE BEGUN: 8/21/01 DATE COMPLETED: 8/22/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.48'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,431.66'

FILE NAME: RW002.dat

UNIQUE NUMBER: 31-014-00261

WELL SCREEN: 6" Diameter Sch. 40 PVC, 0.020" slots

-68.0' to -48.0'

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SILTY SAND 5 YR 5/4 reddish brown, 75% very fine-grained to fine-grained SAND, 25% SILT.	
		Shovel							SANDY CLAY 7.5 YR 4/4 brown, fine-grained, compactable.	
-5		Split Spoon			1.0				CALICHE 7.5 YR 8/4 pink, CALICHE 70%, SAND 30% very fine-grained to fine-grained, soft.	
		Shovel								
-10		Split Spoon			0.75				CALICHE 10 YR 7/3 very pale brown, CALICHE 75%, SAND 25% very fine-grained to fine-grained.	
		Shovel								
-15		Split Spoon			0.5				CALICHE 10 YR 8/2 very pale brown, CALICHE 50%, SAND 50% fine-grained to medium-grained rounded to angular, poorly sorted, soft to firm.	
		Shovel								
-20		Split Spoon			0.75				SANDSTONE 7.5 YR 4/6 to 7.5 YR 6/4 strong brown to light brown, interbedded, fine-grained to medium-grained, soft to firm.	
		Shovel								
-25		Split Spoon			0.75					
		Shovel								
-30		Split Spoon			0.75					



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WELL LOG

WELL NO.

RW003

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -50.75' MEAS. PT.: T.O.C.

DATE: 01/21/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 10"

TOTAL DEPTH: -65.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-39.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-42.0' to -39.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-65.0' to -42.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 11/14/01

DATE COMPLETED: 11/14/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.53'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,429.82'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.035" slots

-65.0' to -45.0'

FILE NAME: RW003.dat

UNIQUE NUMBER: 31-014-00401

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel							SANDY CLAY 2.5 YR 4/6 red, 40% fine-grained to medium-grained SAND, well rounded, soft.	
-5		Shovel								
		Shovel								
-10		Shovel							CALICHE 7.5 YR 8/3 pink, very fine-grained to medium-grained, 30% SAND, 20% CLAY, soft.	
		Shovel								
-15		Shovel							CALICHE 7.5 YR 8/3 pink, very fine-grained to fine-grained, 30-40% SAND, soft to friable.	
		Shovel								
-20		Shovel								
		Shovel								
-25		Shovel								
		Shovel								
-30		Shovel							SANDSTONE 7.5 YR 4/6 strong brown, fine-grained to medium-grained, 20-40% SANDSTONE, 7.5 YR 6/4 light brown, interbeds, soft to firm.	
		Shovel								
		Shovel								



WELL LOG

WELL NO.

RW003

Page 2 of 2

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -50.75' MEAS. PT.: T.O.C.

DATE: 01/21/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 10"

TOTAL DEPTH: -65.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-39.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-42.0' to -39.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-65.0' to -42.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-45.0' to 2.0'

DATE BEGUN: 11/14/01

DATE COMPLETED: 11/14/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.53'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,429.82'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.035" slots

-65.0' to -45.0'

FILE NAME: RW003.dat

UNIQUE NUMBER: 31-014-00401

PLUG BACK: —

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OWM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Shovel								
		Shovel								
		Shovel								
		Shovel								
-40		Shovel								
		Shovel								
		Shovel								
-45		Shovel								
		Shovel								
		Shovel								
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel								
		Shovel								
-65		Shovel								

SANDSTONE 7.5 YR 4/6 strong brown, fine-grained to medium-grained, soft to firm.



WELL NO.

RW004A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 3

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -51.59' MEAS. PT.: T.O.C.

DATE: 8/23/01

CLIENT NAME: ChevronTexaco North America Upstream

HOLE SIZE(S): 10"

TOTAL DEPTH: -115.5'

PROJECT NAME: North Eunice Plant Remediation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Cement w/5% Bentonite

-80.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-90.0' to -80.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-115.0' to -90.0'

SAMPLE METHOD: Shovel/Split Spoon

CASING TYPE: 6" Diameter Sch. 40 PVC Blank

-95.0' to 2.0'

DATE BEGUN: 8/23/01

DATE COMPLETED: 8/23/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.76'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,430.11'

WELL SCREEN: 6" Diameter Sch. 40 PVC, 0.020" slots

-115.0' to -95.0'

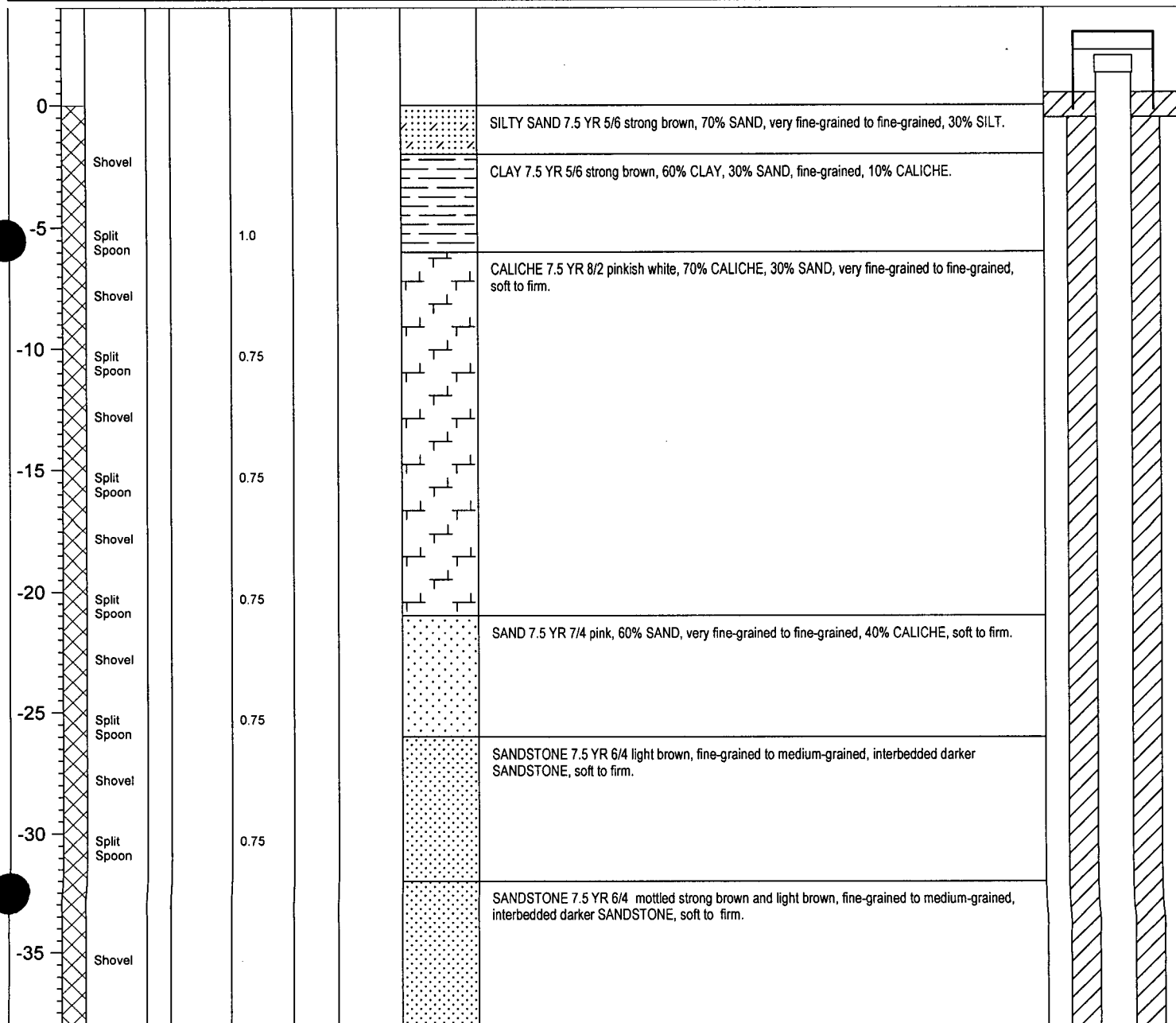
FILE NAME: RW004A.dat

UNIQUE NUMBER: 31-014-00262

PLUG BACK: —

-115.5' to -115.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
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WELL NO.

RW004A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 3

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -51.59' MEAS. PT.: T.O.C.

DATE: 8/23/01

CLIENT NAME: ChevronTexaco North America Upstream

HOLE SIZE(S): 10"

TOTAL DEPTH: -115.5'

PROJECT NAME: North Eunice Plant Remediation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

LOOKING TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Cement w/5% Bentonite

-80.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-90.0' to -80.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-115.0' to -90.0'

SAMPLE METHOD: Shovel/Split Spoon

CASING TYPE: 6" Diameter Sch. 40 PVC Blank

-95.0' to 2.0'

DATE BEGUN: 8/23/01

DATE COMPLETED: 8/23/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.76'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,430.11'

WELL SCREEN: 6" Diameter Sch. 40 PVC, 0.020" slots

-115.0' to -95.0'

FILE NAME: RW004A.dat

UNIQUE NUMBER: 31-014-00262

PLUG BACK: —

-115.5' to -115.0'

[illegible]



WELL NO.

RW004A

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 3 of 3

PROJECT NUMBER: MT000700.0001

STATIC WATER LEVEL: -51.59' MEAS. PT.: T.O.C.

DATE: 8/23/01

CLIENT NAME: ChevronTexaco North America Upstream

HOLE SIZE(S): 10"

TOTAL DEPTH: -115.5'

PROJECT NAME: North Eunice Plant Remediation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Cement w/5% Bentonite

-80.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-90.0' to -80.0'

DRILLING METHOD: Rotary/Mud/Water

SCREEN PACK: 8/16 Sand

-115.0' to -90.0'

SAMPLE METHOD: Shovel/Split Spoon

CASING TYPE: 6" Diameter Sch. 40 PVC Blank

-95.0' to 2.0'

DATE BEGUN: 8/23/01

DATE COMPLETED: 8/23/01

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.76'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,430.11'

WELL SCREEN: 6" Diameter Sch. 40 PVC, 0.020" slots

-115.0' to -95.0'

FILE NAME: RW004A.dat

UNIQUE NUMBER: 31-014-00262

PLUG BACK: —

-115.5' to -115.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVN READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-85										
-90										
-95									CONGLOMERATE 7.5 YR 4/6 strong brown, SANDSTONE matrix, fine-grained to medium-grained, 20% GRAVEL, (small pebble), rounded to angular, poorly sorted, 5% CLAY.	
-100										
-105									CONGLOMERATE strong brown, 60% SANDSTONE matrix, fine-grained to medium-grained, 40% GRAVEL small to medium pebble, rounded to angular, poorly sorted.	
-110										
-115									GRAVELLY CLAY 2.5 YR 5/6 red, 50% CLAY, 40% GRAVEL, small to medium pebble, rounded to angular, 10% SAND, poorly sorted.	
-120									CLAY 2.5 YR 5/6 red, elastic, sticky.	



WELL LOG

WELL NO.

IW001

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0006

STATIC WATER LEVEL: -53.19' MEAS. PT.: T.O.C.

DATE: 8/1/02

CLIENT NAME: ChevronTexaco Exploration & Production Co.

HOLE SIZE(S): 8"

TOTAL DEPTH: -95.0'

PROJECT NAME: North Eunice Groundwater Investigation

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

SITE LOCATION: Eunice, New Mexico

TYPES

DEPTHS

Lea County, New Mexico

GROUT TYPE: Portland Cement w/5% Bentonite

-32.0' to Surface

DRILLING CO: Scarborough Drilling Co.

SEAL TYPE: Bentonite Chips

-35.0' to -32.0'

DRILLING METHOD: Rotary/Water/Mud

SCREEN PACK: 8/16 Sand

-90.0' to -35.0'

SAMPLE METHOD: Shovel

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-40.0' to 2.0'

DATE BEGUN: 7/24/02

DATE COMPLETED: 7/24/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.47'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,431.91'

FILE NAME: IW001.dat

UNIQUE NUMBER: 31-014-00427

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-90.0' to -40.0'

PLUG BACK: Bentonite

-95.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel							CLAYEY SAND 5 YR 5/6 yellowish red, 60% fine-grained to medium-grained SAND, loose.	
-5		Shovel								
-10		Shovel							CALICHE 7.5 YR 8/3 pink, 30-40% very fine-grained to fine-grained SAND, soft to friable.	
-15		Shovel								
-20		Shovel								
-25		Shovel								
-30		Shovel							SANDSTONE 7.5 YR 4/6 strong brown and 7.5 YR 6/4 light brown, fine-grained to medium-grained, soft to firm interbedded layers.	
-35		Shovel								
-40		Shovel								
-45		Shovel								



WELL LOG

WELL NO.

IW001

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water/Mud

SAMPLE METHOD: Shovel

DATE BEGUN: 7/24/02

DATE COMPLETED: 7/24/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,429.47'

LOGGER: L. Markham

ELEVATION (T.O.C.): 3,431.91'

FILE NAME: IW001.dat

UNIQUE NUMBER: 31-014-00427

STATIC WATER LEVEL: -53.19' MEAS. PT.: T.O.C.

DATE: 8/1/02

HOLE SIZE(S): 8"

TOTAL DEPTH: -95.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement w/5% Bentonite

-32.0' to Surface

SEAL TYPE: Bentonite Chips

-35.0' to -32.0'

SCREEN PACK: 8/16 Sand

-90.0' to -35.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-40.0' to 2.0'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-90.0' to -40.0'

PLUG BACK: Bentonite

-95.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OWM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel								
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								
		Shovel								
		Shovel								
-80		Shovel								
		Shovel								
		Shovel								
-85		Shovel								
		Shovel								
		Shovel								
-90		Shovel								
		Shovel								
		Shovel								
-95		Shovel								

SANDY CLAY 5 YR 6/6 reddish yellow, 30-40% fine-grained to medium-grained SAND, elastic.

**ARCADIS**

WELL LOG

WELL NO.

IW002

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 1 of 2

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 9/09/02

DATE COMPLETED: 9/09/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.78'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,430.33'

FILE NAME: IW002.dat

UNIQUE NUMBER: 31-014-00426

STATIC WATER LEVEL: -51.09' MEAS. PT.: T.O.C.

DATE: 9/19/02

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -90.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-10.0' to Surface

SEAL TYPE: Bentonite

-35.0' to -10.0'

SCREEN PACK: 8/16 Sand

-90.0' to -35.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-40.0' to 2.0'

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-90.0' to -40.0'

PLUG BACK: 8/16 Sand

-96.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0		Shovel							SAND 10 R 5/6 red, fine-grained to very fine-grained, subangular to subrounded, well sorted, loose, dry, frosted, argillaceous, blow sand.	
-5		Shovel								
-10		Shovel							CALICHE 7.5 YR 8/4 pink, firm to soft.	
-15		Shovel								
-20		Shovel								
-25		Shovel							SANDSTONE 10 R 6/6 light red, subrounded, fine-grained to very fine-grained, well sorted, firm, dry, argillaceous cement, some poorly cemented, rare CALICHE interbeds.	
-30		Shovel								
-35		Shovel								
-40		Shovel							SAND 10 R 6/6 light red, subrounded, fine-grained to very fine-grained, well sorted, loose to well cemented, argillaceous cement.	
-45		Shovel								



ARCADIS

WELL LOG

WELL NO.

IW002

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

Page 2 of 2

PROJECT NUMBER: MT000700.0006

CLIENT NAME: ChevronTexaco Exploration & Production Co.

PROJECT NAME: North Eunice Groundwater Investigation

SITE LOCATION: Eunice, New Mexico

Lea County, New Mexico

DRILLING CO: Scarborough Drilling Co.

DRILLING METHOD: Rotary/Water

SAMPLE METHOD: Shovel

DATE BEGUN: 9/09/02

DATE COMPLETED: 9/09/02

DRILLER: S. Scarborough

ELEVATION (SURF.): 3,427.78'

LOGGER: R. Lang

ELEVATION (T.O.C.): 3,430.33'

FILE NAME: IW002.dat

UNIQUE NUMBER: 31-014-00426

STATIC WATER LEVEL: -51.09' MEAS. PT.: T.O.C.

DATE: 9/19/02

HOLE SIZE(S): 7 7/8"

TOTAL DEPTH: -90.0'

SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

TYPES

DEPTHS

GROUT TYPE: Portland Cement

-10.0' to Surface

SEAL TYPE: Bentonite

-35.0' to -10.0'

SCREEN PACK: 8/16 Sand

-90.0' to -35.0'

CASING TYPE: 4" Diameter Sch. 40 PVC Blank

-40.0' to 2.0'

—

—

WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots

-90.0' to -40.0'

PLUG BACK: 8/16 Sand

-96.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	QVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-50		Shovel								
-55		Shovel								
-60		Shovel								
-65		Shovel								
-70		Shovel								
-75		Shovel								
-80										
-85									SAND 10 R 6/6 light red, subrounded, fine-grained to very fine-grained, well sorted, loose, some rare CHERT.	
-90		Shovel								
-95		Shovel							GRAVEL GLEY 2 8/1 light bluish gray, CHERT GRAVEL to .75 cm.	

ARCADIS

Appendix C

Groundwater Analytical Data

ARCADIS

The following disk contains PDF files for the groundwater analytical data from Severn Trent Laboratories, Inc. for the Groundwater Investigation Summary Report,

RECEIVED

OCT 13 2003

Oil Conservation Division
Environmental Bureau

Groundwater Investigation Summary Report

ChevronTexaco Eunice #2 (North) Plant
Eunice, Lea County, New Mexico

Volume 2
Figures

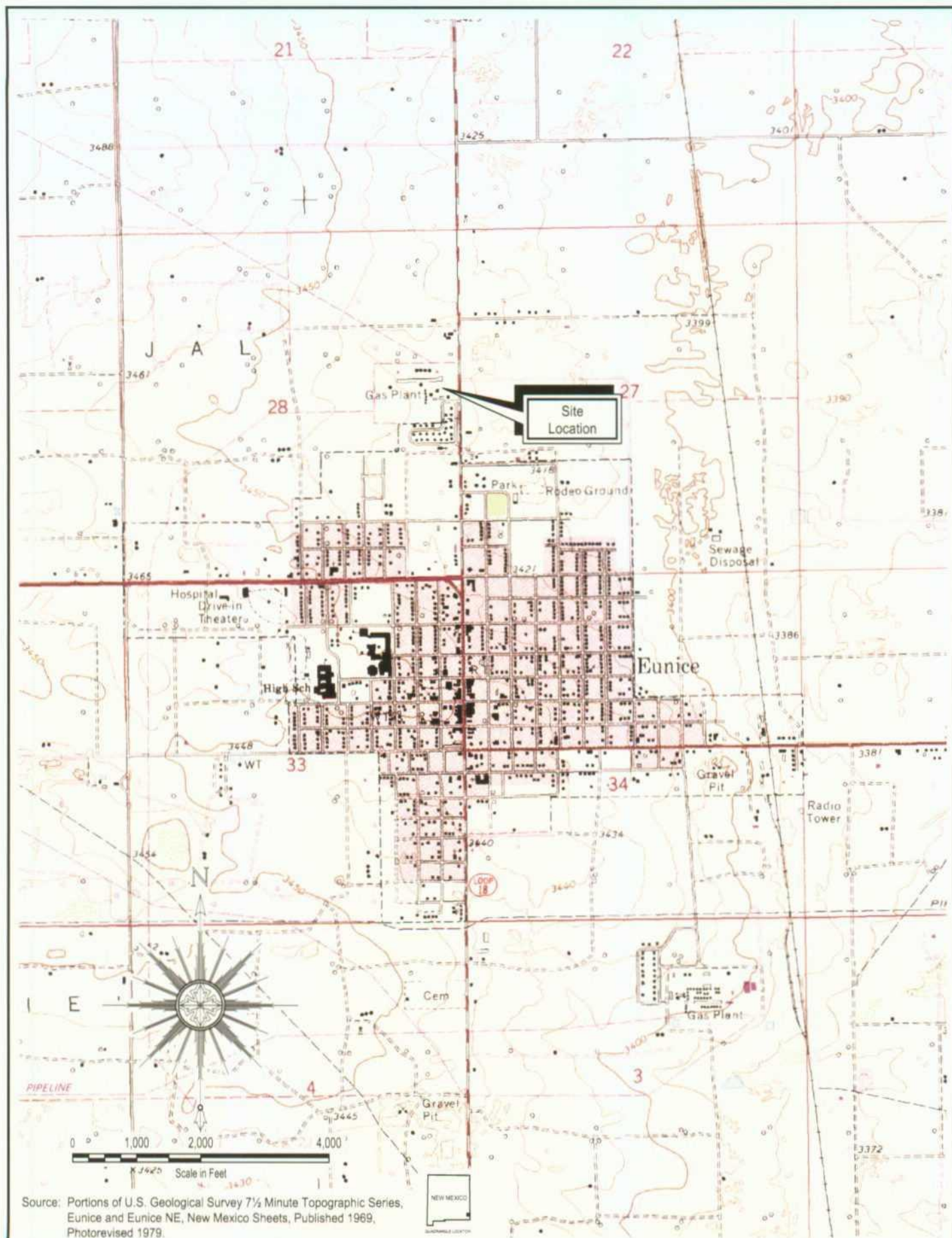
October 9, 2003



Infrastructure, buildings, environment, communications

PREPARED FOR

ChevronTexaco Exploration & Production
Company



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1004 N. Big Spring Street, Suite 300
Midland, TX 79701-3383
Tel 432 687 5400 Fax 432 687 5401

Drawing Date
05 October 2003

File Name
MT700492.dwg

File Location
AutoCAD DWG: ChevronTexaco North Eunice MT000700.004

Task Manager
L. Markham

Project Director
M. Hagan

Area Manager
A. Schmidt

ChevronTexaco Exploration & Production Company
North Eunice Plant Groundwater Investigation

Site Location Map

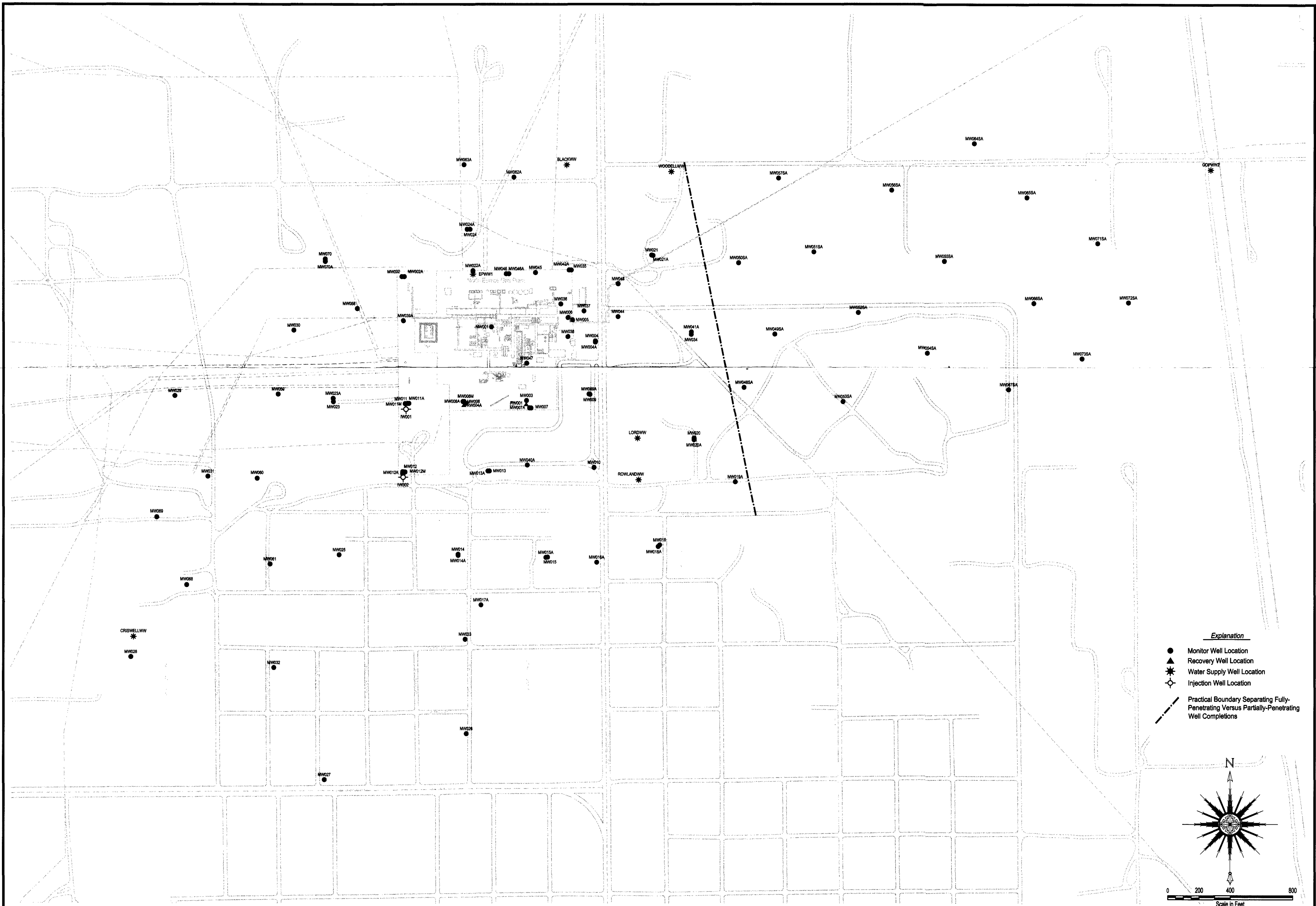
Eunice #2 (North) Gas Plant, Lea County, New Mexico

Technical Review
S. Tischer

Unique Number
31-014-00602

Project Number
MT000700.0004

Figure
1

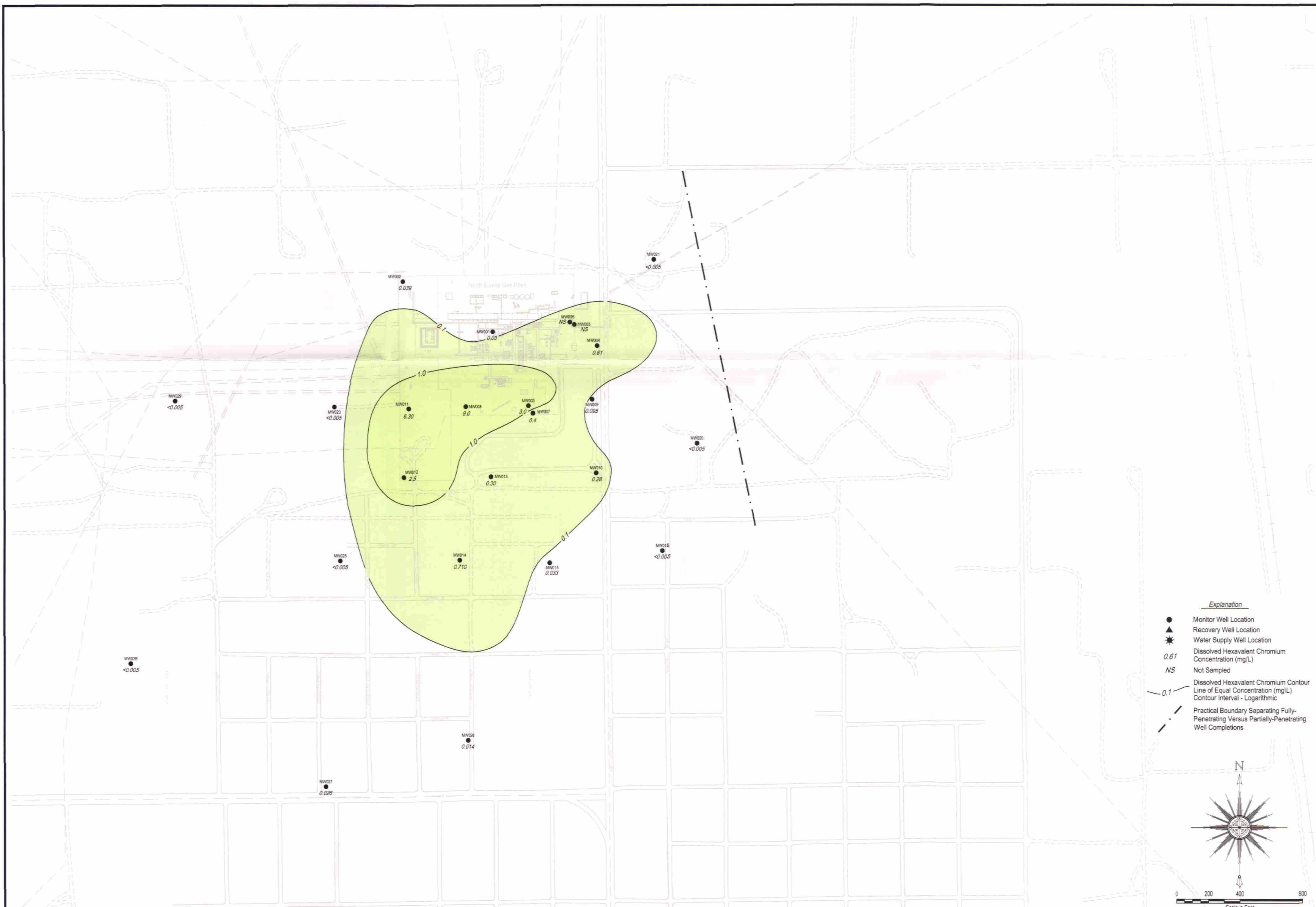



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No.	Date	Revision Description	By	Ckd

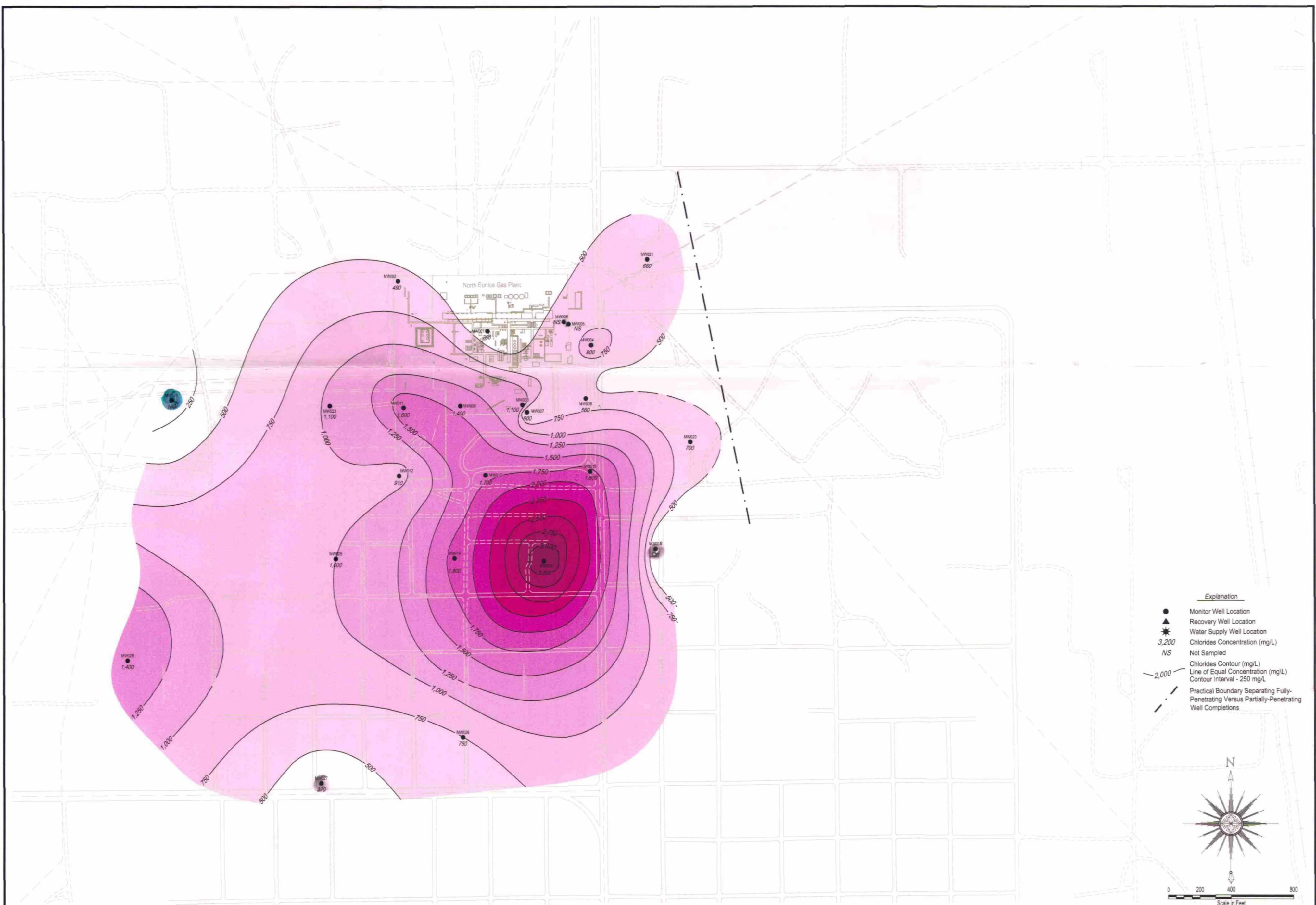


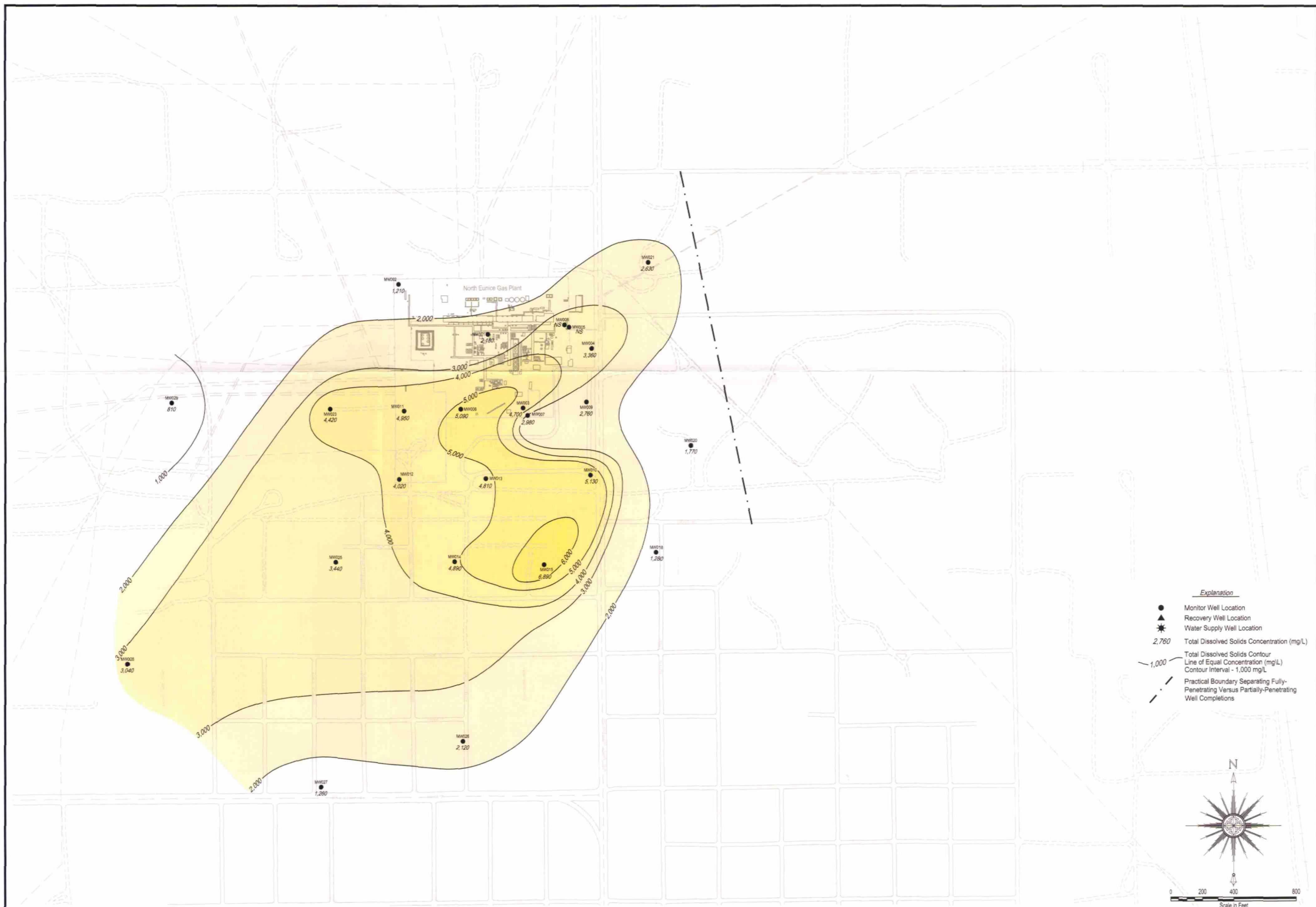
1004 N. Big Spring Street, Suite 300
Midland, TX 79701-3383
Tel 432 687 5400 Fax 432 687 5401

Drawn By H. Clardy	Drawing Date 05 October 2003	File Location \\AutoCAD\DWG\ChevronTexaco\North Eunice\MT000700.004	File Name MT700493.dwg	Unique Number 31-014-00603	Project Director M. Hagan	Area Manager A. Schmidt
ChevronTexaco Exploration & Production Company North Eunice Plant Groundwater Investigation Monitor, Recovery, Injection And Water Well Location Map Eunice #2 (North) Gas Plant, Lea County, New Mexico					Task Manager L. Markham	Technical Review S. Tischer
					Project Number MT000700.0004	Figure 2



copyright © 2003					 1004 N. Big Spring Street, Suite 300 Midland, TX 79701-3383 Tel 432 687 5400 Fax 432 687 5401	Drawn By H. Clardy	Drawing Date 26 September 2003	File Location \\AutoCAD\\DWG\\ChevronTexaco\\North Eunice\\MT000700.004	File Name MT700463.dwg	Unique Number 31-014-00510	Project Director M. Hagan	Area Manager A. Schmidt	
						ChevronTexaco Exploration & Production Company North Eunice Plant Groundwater Investigation						Task Manager L. Markham	Technical Review S. Tischer
						Shallow Groundwater Isoconcentration Map (May, 2001) Dissolved Hexavalent Chromium (mg/L) Eunice #2 (North) Gas Plant, Lea County, New Mexico						Project Number MT000700.0004	Figure 11
	No.	Date	Revision Description	By		Ckd							

[illegible]



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No.	Date	Revision Description	By	Ckd



1004 N. Big Spring Street, Suite 300
Midland, TX 79701-3383
Tel 432 687 5400 Fax 432 687 5401

Drawn By
H. Clardy

Drawing Date
26 September 2003

File Location
[AutoCAD]DWG\ChevronTexaco\North Eunice\MT000700.004

File Name
MT700465.dwg

Unique Number
31-014-00512

Project Director
M. Hagan

Area Manager
A. Schmidt

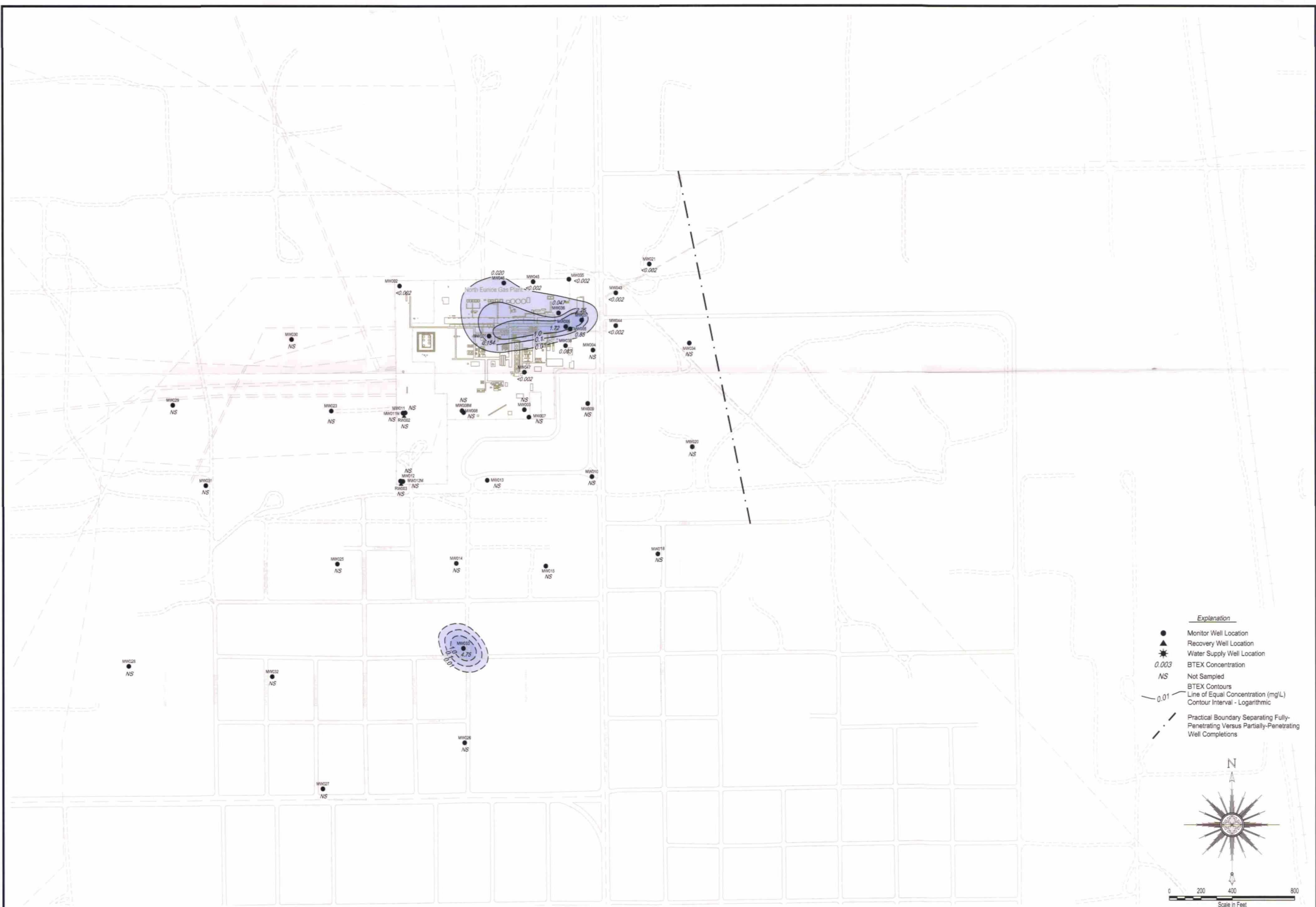
ChevronTexaco Exploration & Production Company
North Eunice Plant Groundwater Investigation
Shallow Groundwater Isoconcentration Map (May, 2001)
Total Dissolved Solids (mg/L)
Eunice #2 (North) Gas Plant, Lea County, New Mexico

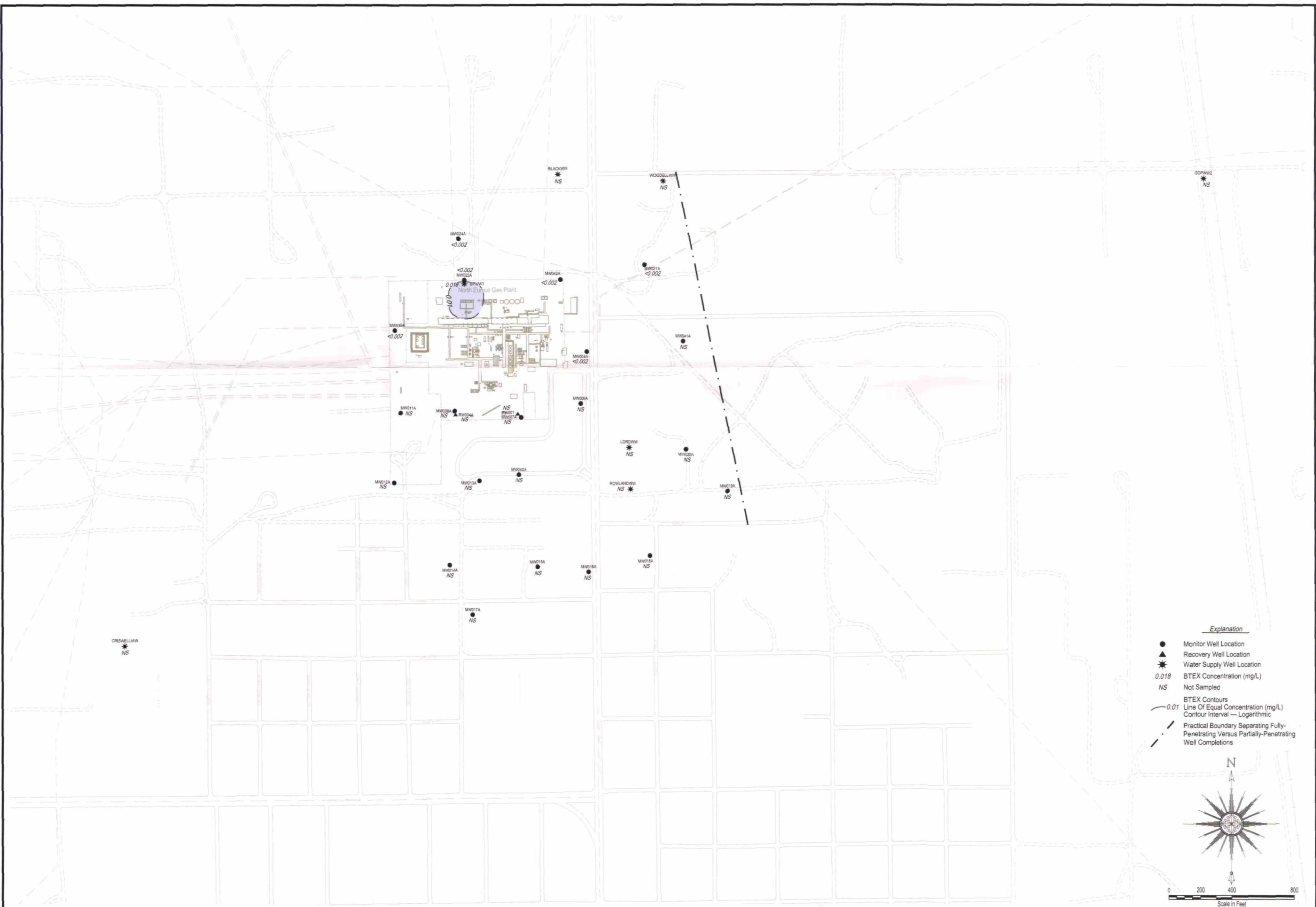
Task Manager
L. Markham

Technical Review
S. Fischer

Project Number
MT000700.0004

Figure
15

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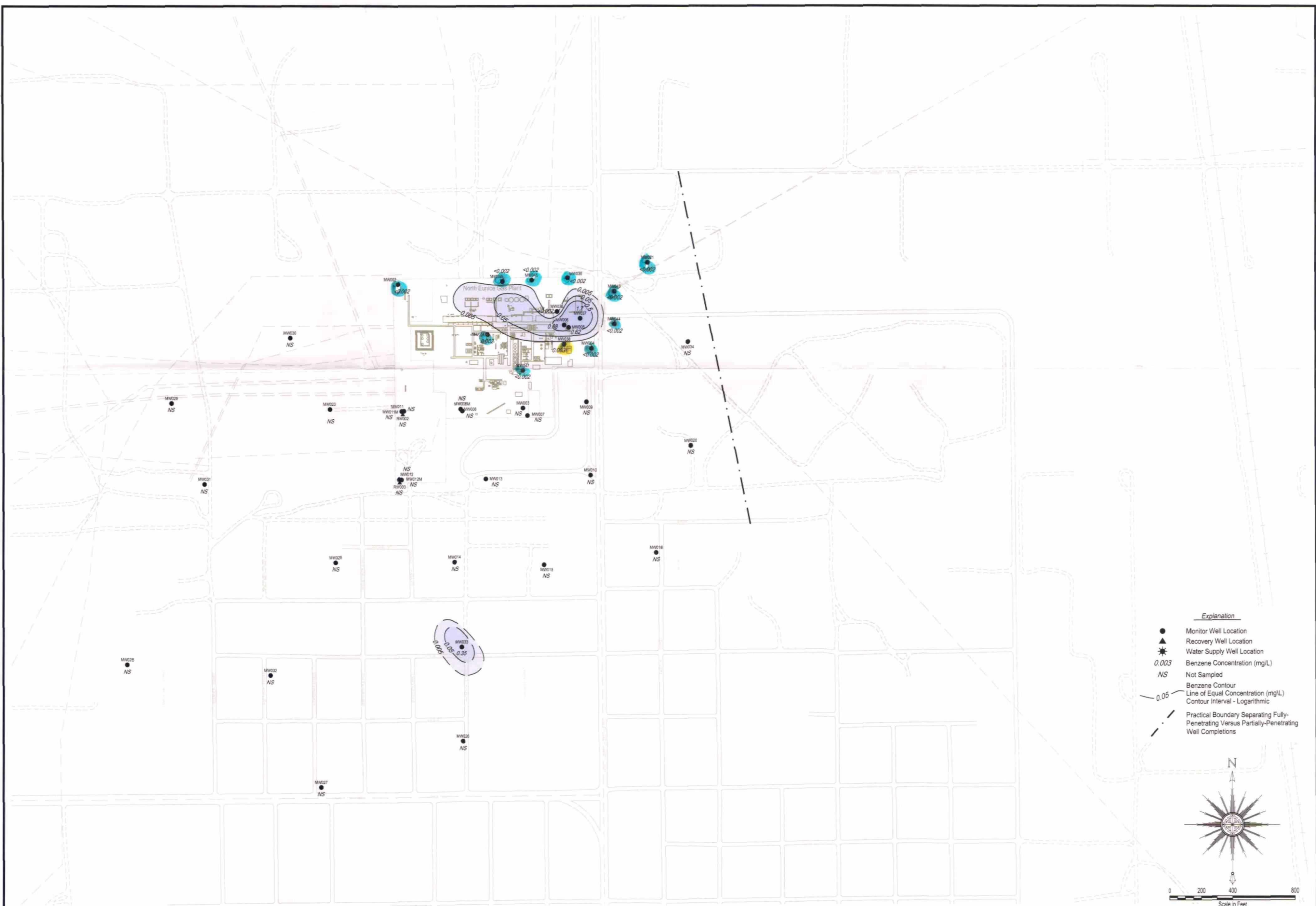


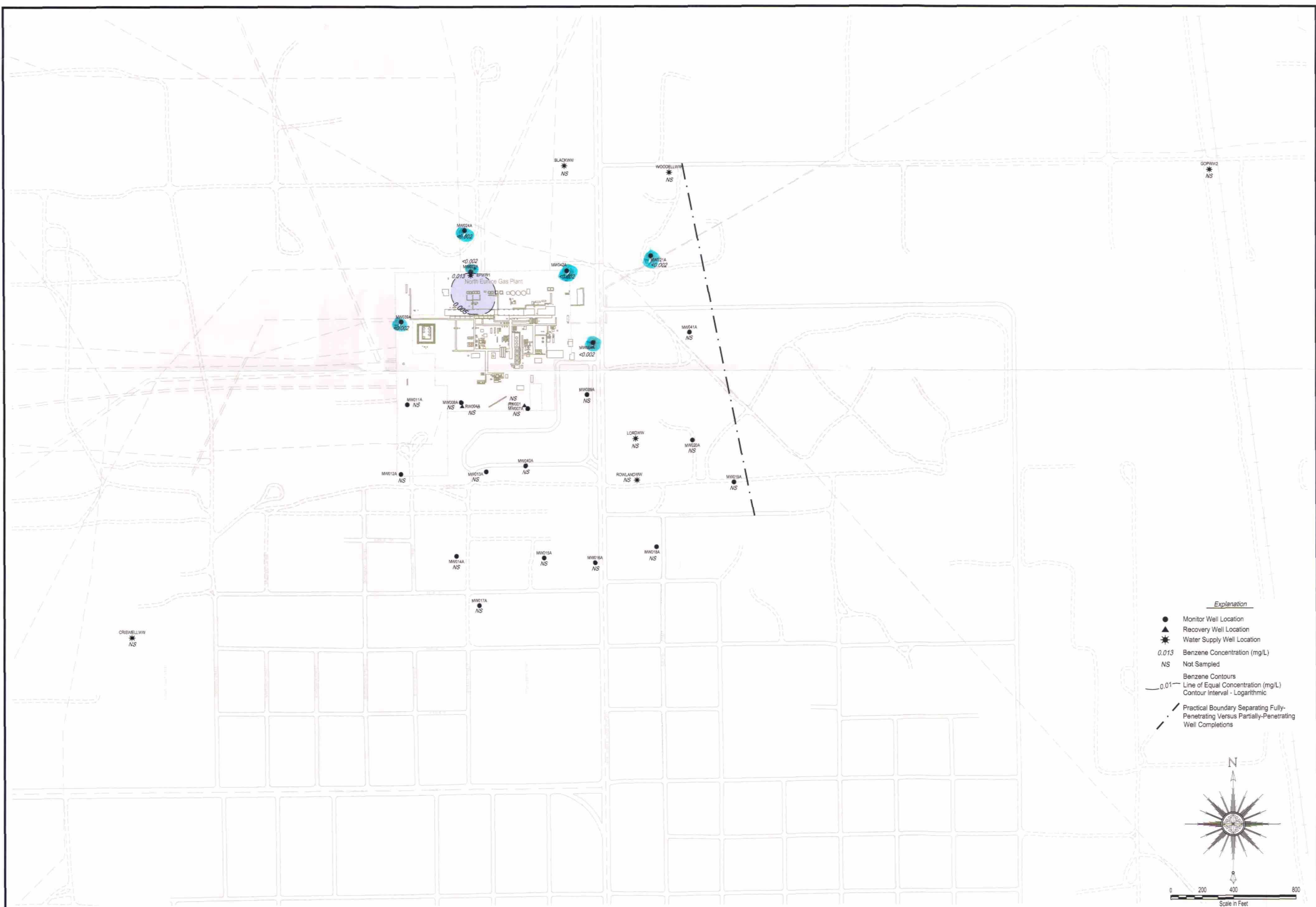
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No.	Date	Revision Description	By Ckd

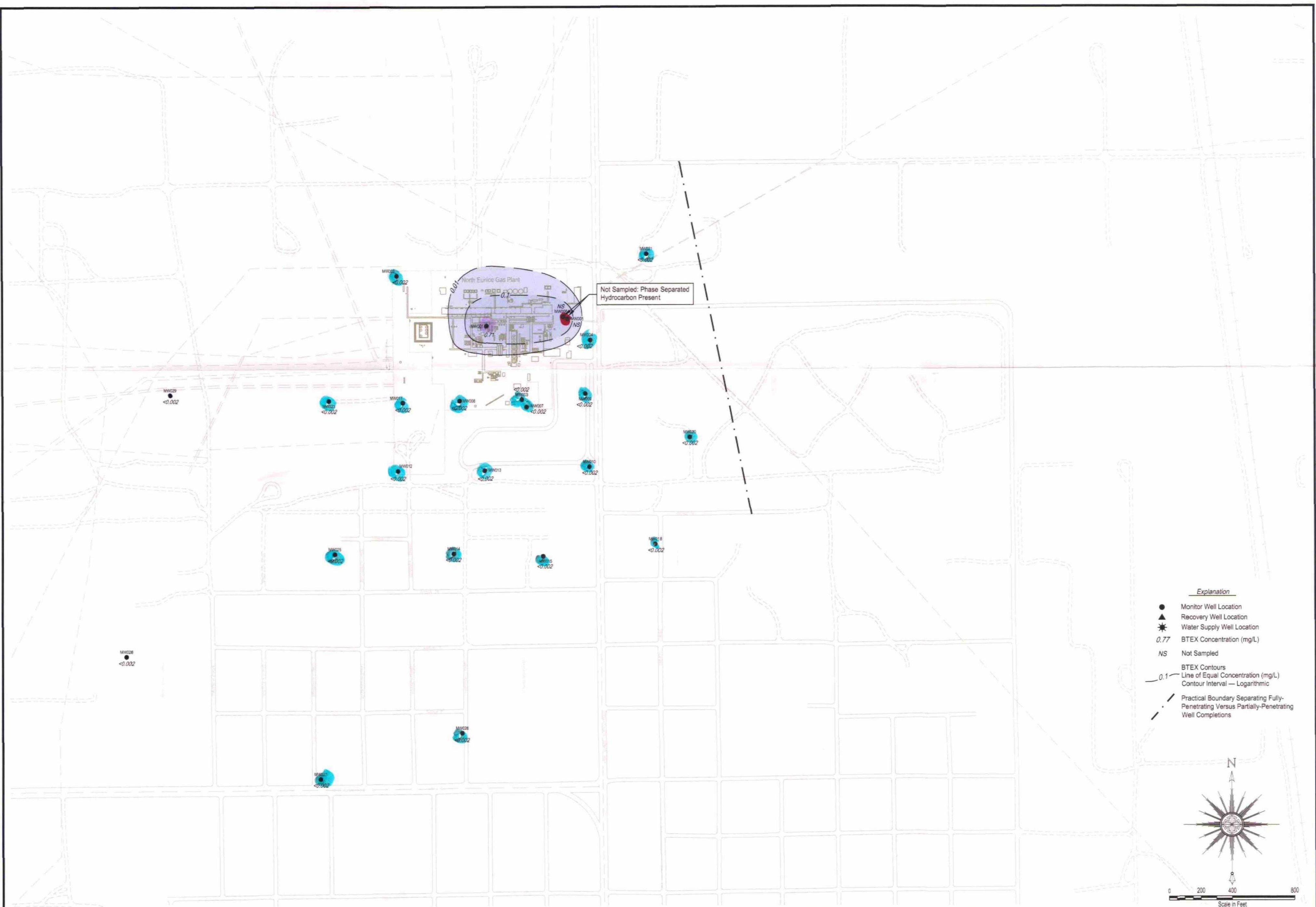
ARCADIS

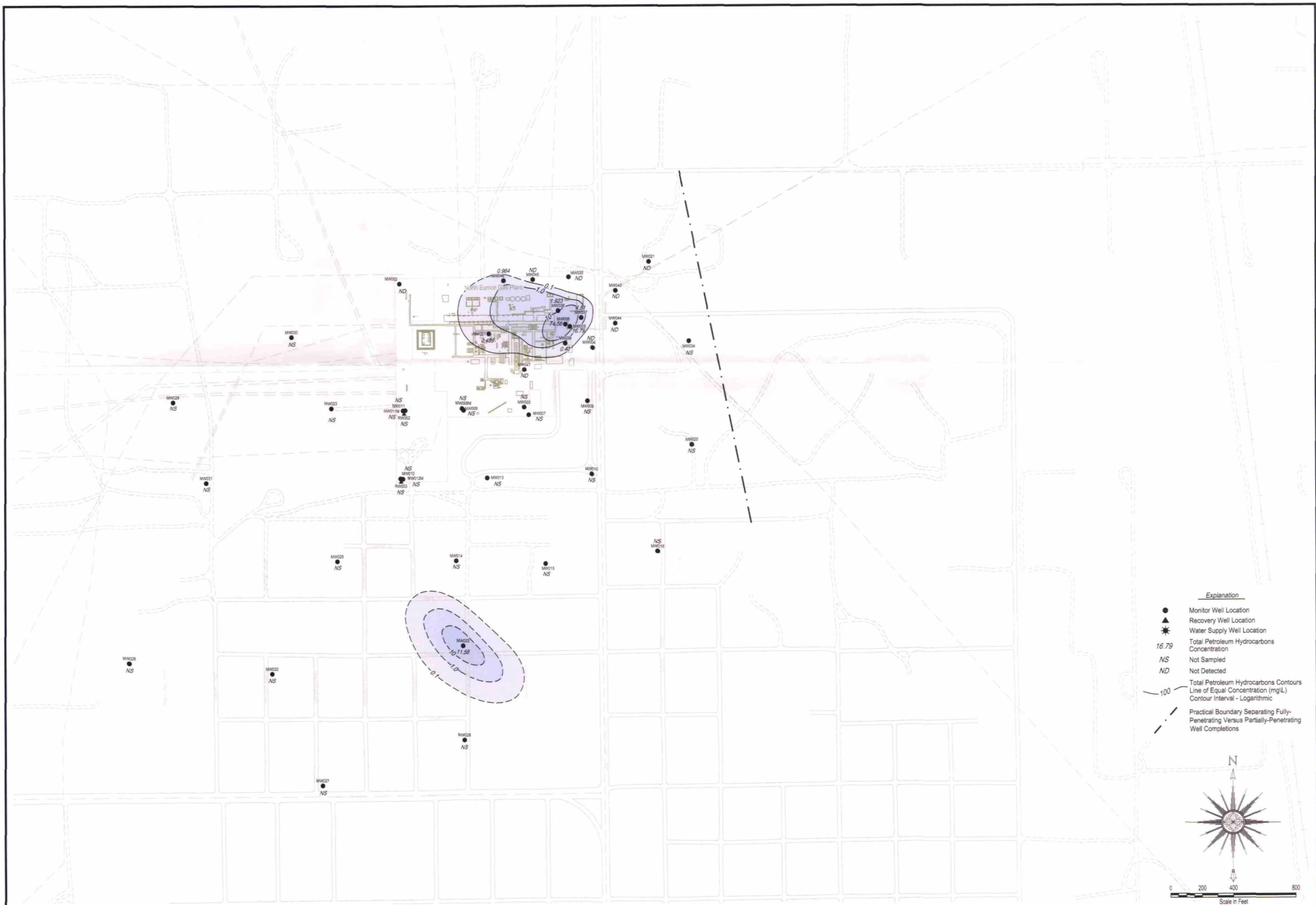
1004 N. Big Spring Street, Suite 300
Midland, TX 79701-3383
Tel 432 687 5400 Fax 432 687 5401

Drawn By H. Clardy	Drawing Date 26 September 2003	File Location \\AutoCAD\\DWG\\ChevronTexaco\\North Eunice\\MT000700.004	File Name MT700486.dwg	Unique Number 31-014-00459	Project Director M. Hagan	Area Manager A. Schmidt
ChevronTexaco Exploration & Production Company North Eunice Plant Groundwater Investigation Deep Groundwater Isoconcentration Map (Spring, 2002) BTEX (mg/L) Eunice #2 (North) Gas Plant, Lea County, New Mexico					Task Manager L. Markham	Technical Review S. Tischer
					Project Number MT000700.0004	Figure 18

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File Location
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File Name
MT700447.dwg

Unique Number
31-014-00376

Project Director
M. Hagan

Area Manager
A. Schmidt

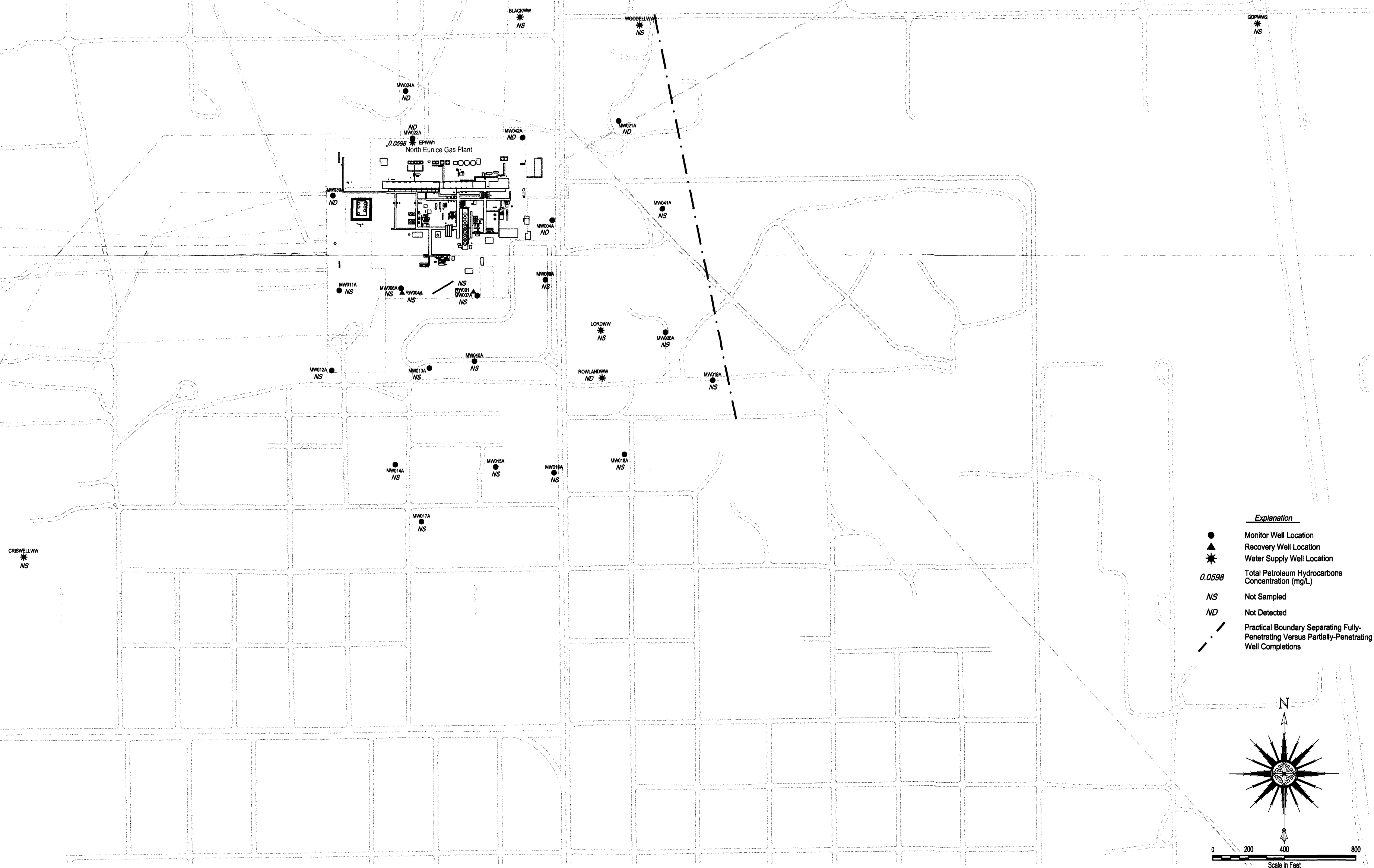
Task Manager
L. Markham

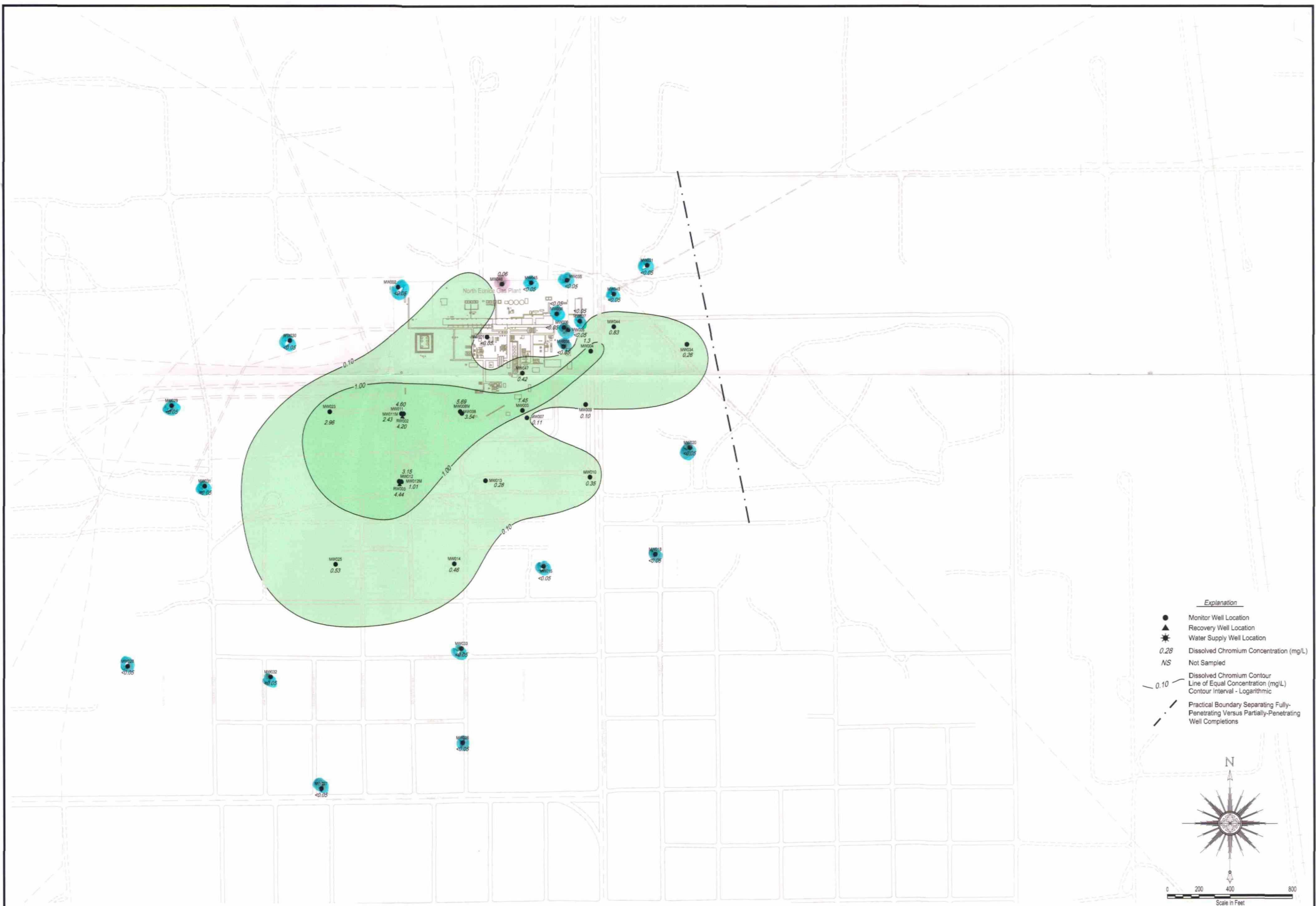
Technical Review
S. Tischer

Project Number
MT000700.0004

Figure
21

ChevronTexaco Exploration & Production Company
North Eunice Plant Groundwater Investigation
Shallow Groundwater Isoconcentrations Map (Spring, 2002)
Total Petroleum Hydrocarbons (mg/L)
Eunice #2 (North) Gas Plant, Lea County, New Mexico

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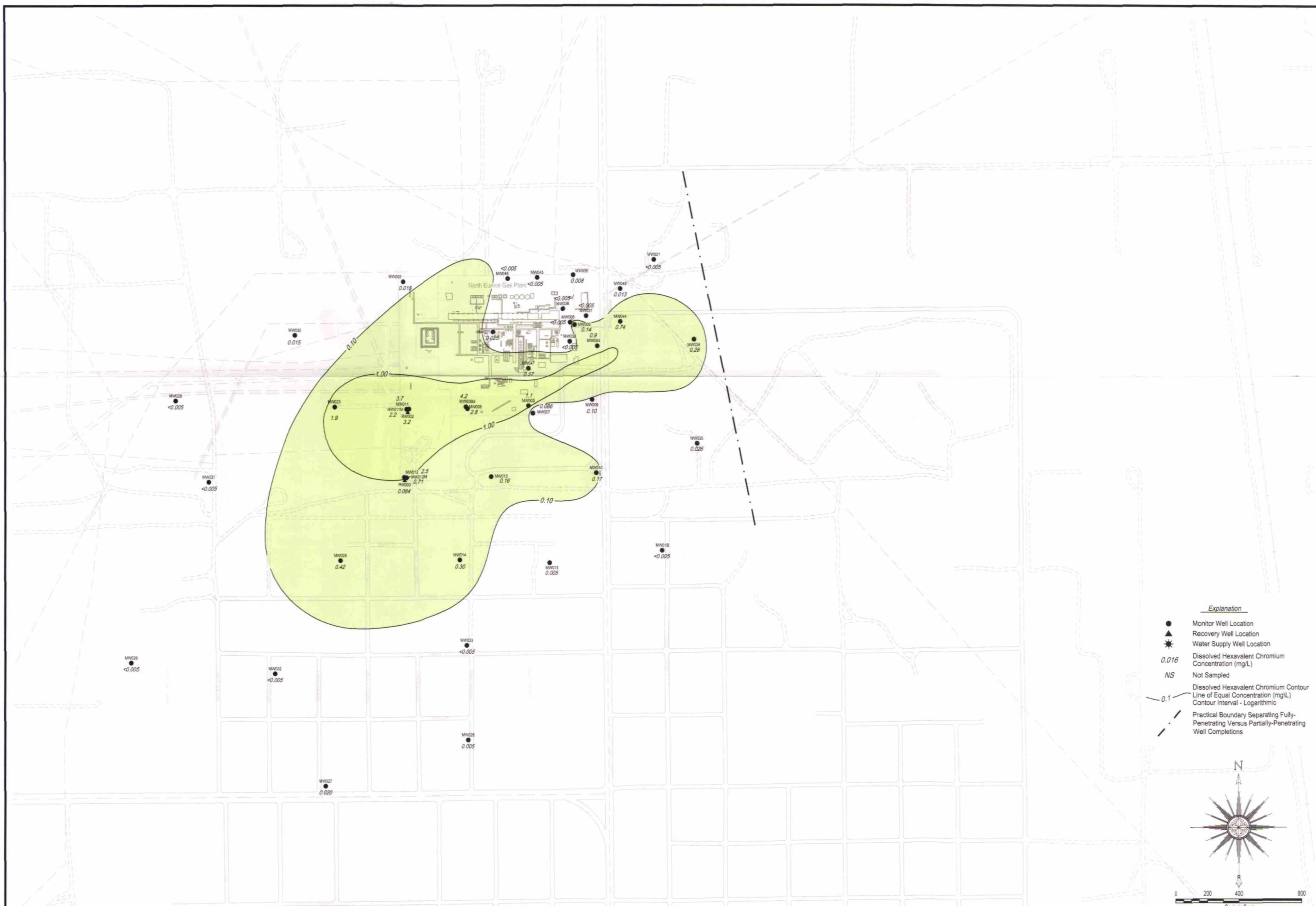
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No.	Date	Revision Description	By Ckd



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Midland, TX 79701-3383
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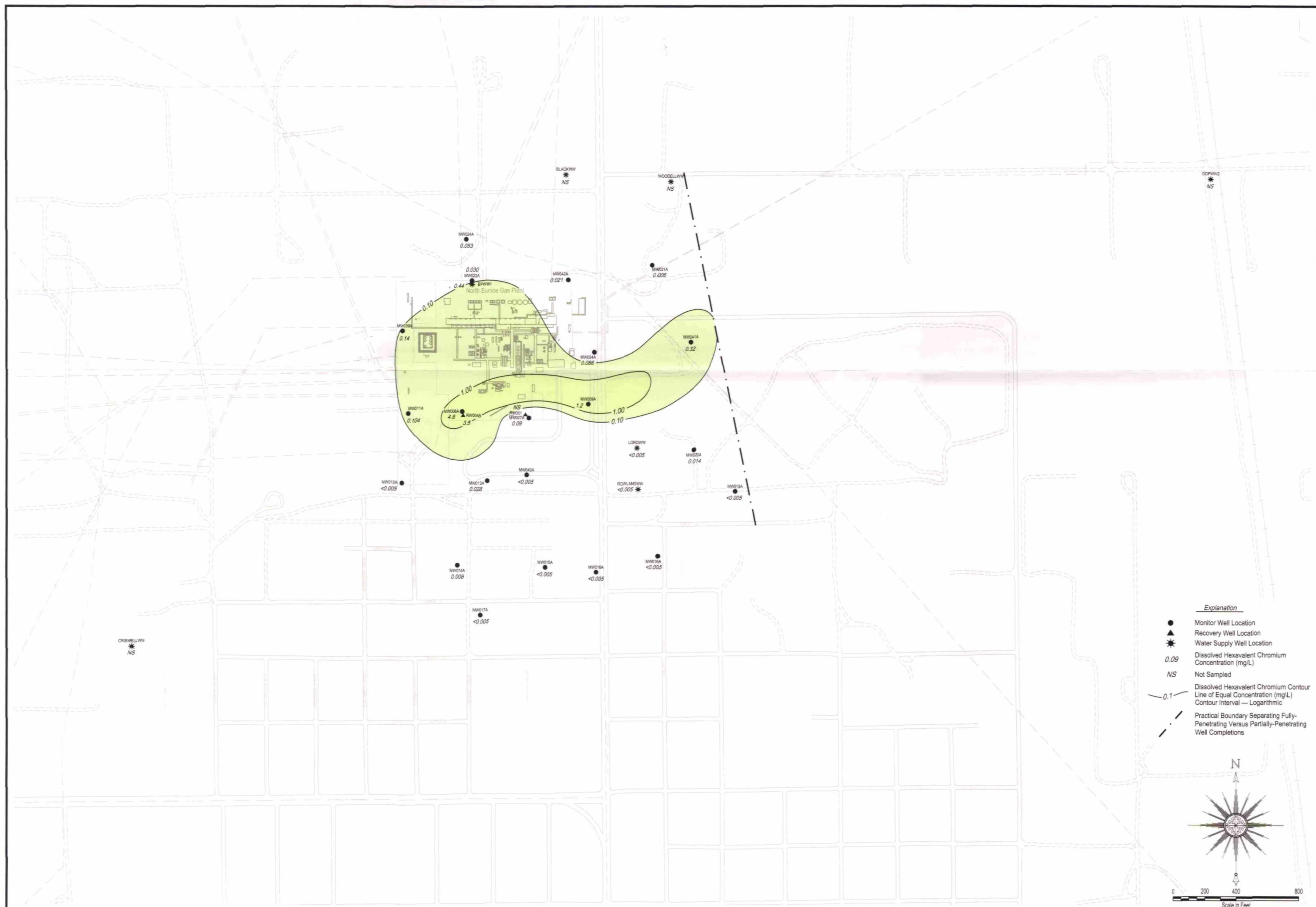
Drawn By H. Clardy	Drawing Date 26 September 2003	File Location \\AutoCAD\\DWG\\ChevronTexaco\\North Eunice\\MT000700.004	File Name MT700446.dwg	Unique Number 31-014-00374	Project Director M. Hagan	Area Manager A. Schmidt
ChevronTexaco Exploration & Production Company North Eunice Plant Groundwater Investigation Shallow Groundwater Isoconcentration Map (Spring, 2002) Dissolved Total Chromium (mg/L) Eunice #2 (North) Gas Plant, Lea County, New Mexico					Task Manager L. Markham	Technical Review S. Tischer
					Project Number MT000700.0004	Figure 23

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Drawn By
H. Clardy

Drawing Date
26 September 2003

File Location
\\AutoCAD\\DWG\\ChevronTexaco\\North Eunice\\MT000700.004

File Name
MT700451.dwg

Unique Number
31-014-00373

Project Director
M. Hagan

Area Manager
A. Schmidt

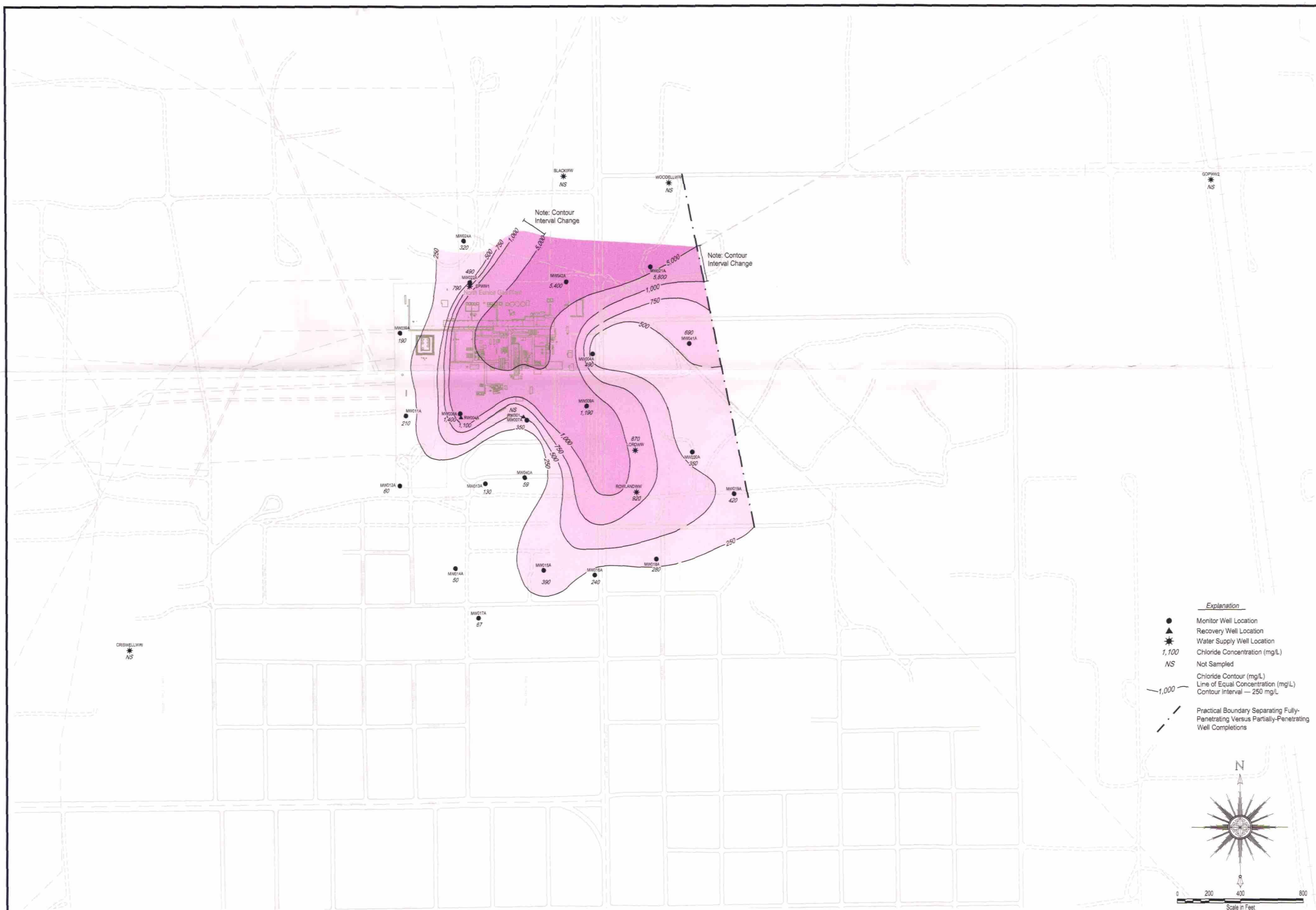
Task Manager
L. Markham

Technical Review
S. Tischer

Project Number
MT000700.0004

Figure
26

ChevronTexaco Exploration & Production Company
North Eunice Plant Groundwater Investigation
Deep Groundwater Isoconcentration Map (Spring, 2002)
Dissolved Hexavalent Chromium (mg/L)
Eunice #2 (North) Gas Plant, Lea County, New Mexico

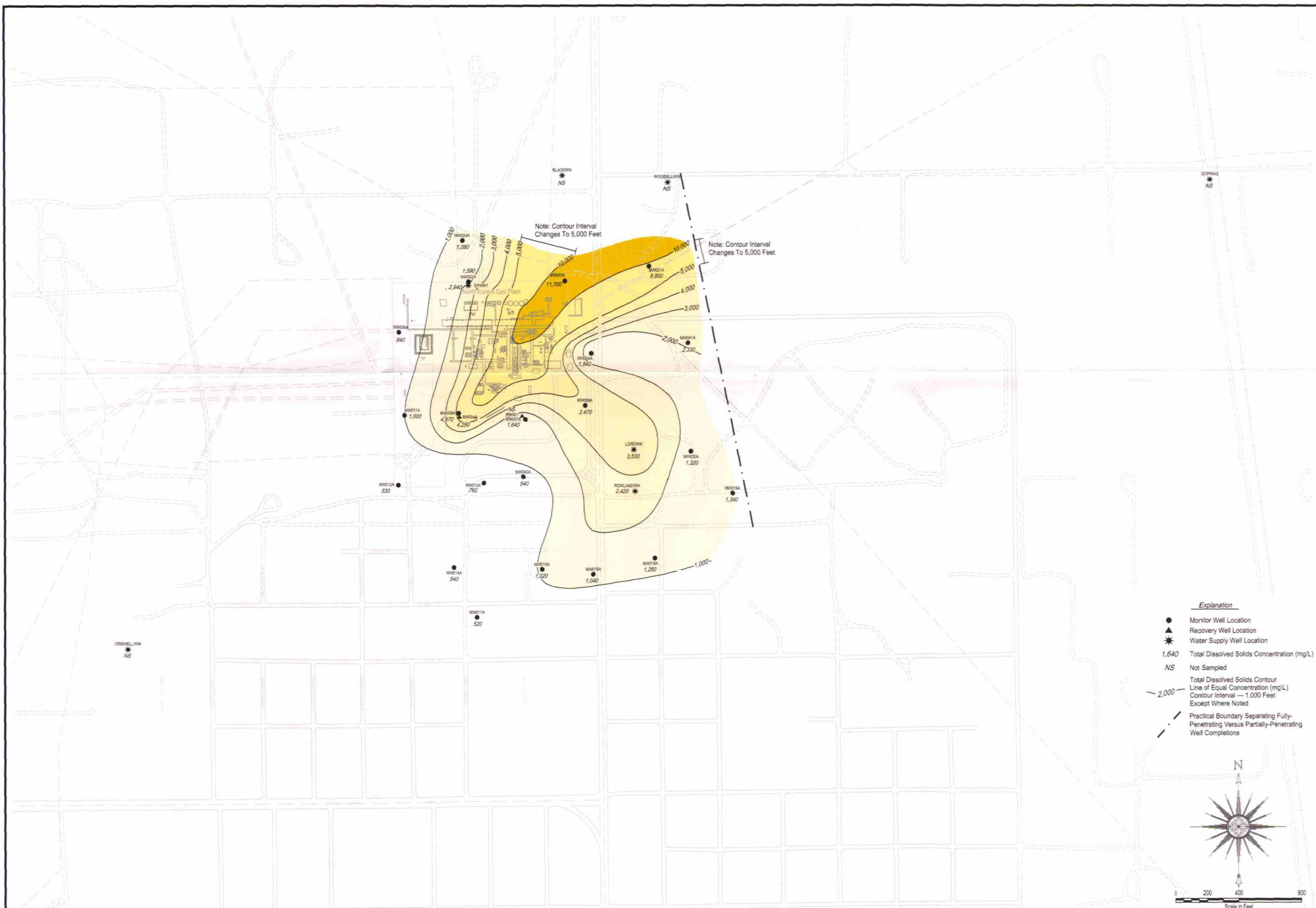



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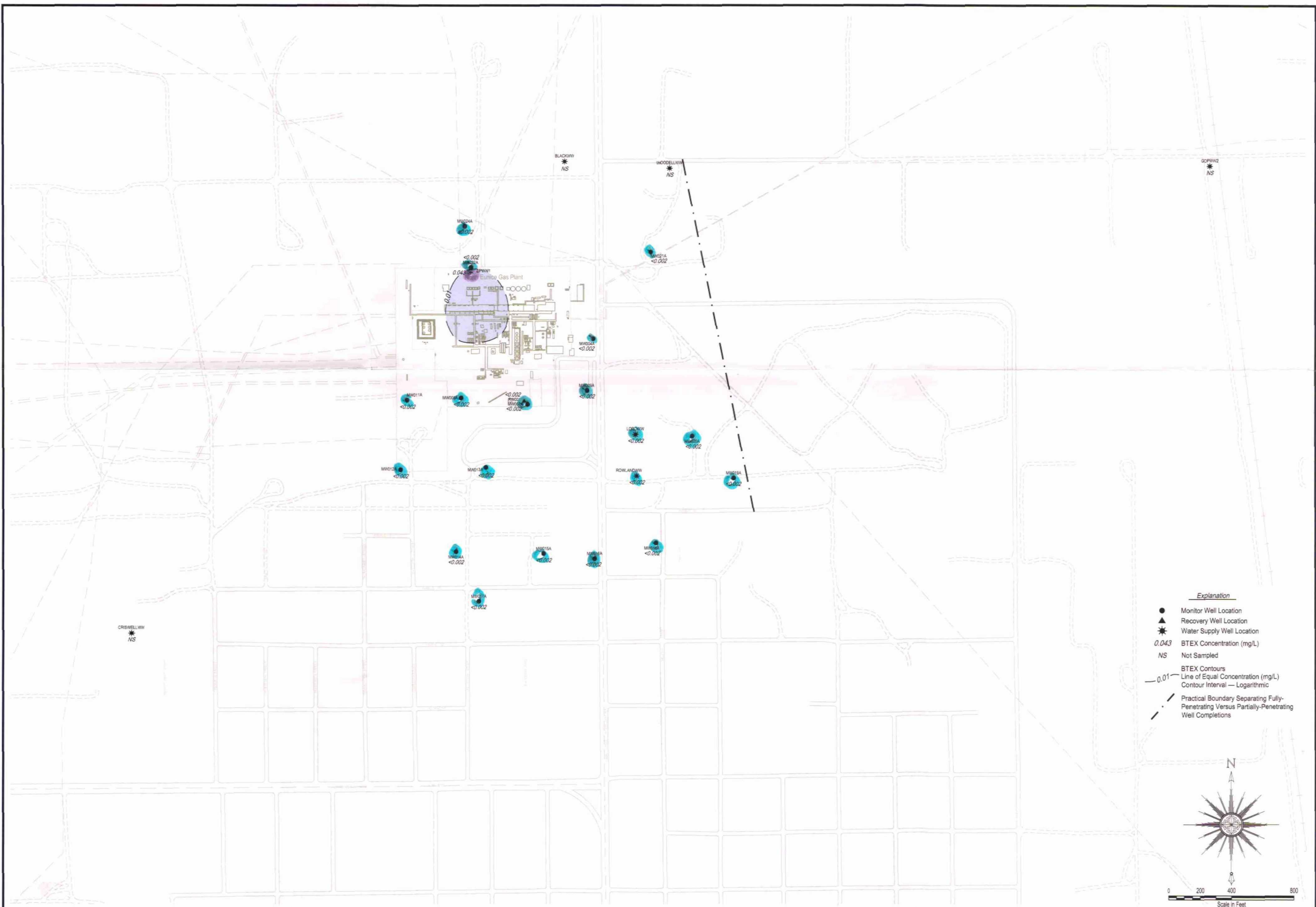


1004 N. Big Spring Street, Suite 300
Midland, TX 79701-3383
Tel 432 687 5400 Fax 432 687 5401

Drawn By H. Clardy	Drawing Date 30 September 2003	File Location AutoCAD\DWG\ChevronTexaco\North Eunice\MT000700.004	File Name MT700454.dwg	Unique Number 31-014-00371	Project Director M. Hagan	Area Manager A. Schmidt
ChevronTexaco Exploration & Production Company North Eunice Plant Groundwater Investigation Deep Groundwater Isoconcentration Map (Spring, 2002) Chlorides (mg/L) Eunice #2 (North) Gas Plant, Lea County, New Mexico					Task Manager L. Markham	Technical Review S. Tischer
					Project Number MT000700.0004	Figure 28



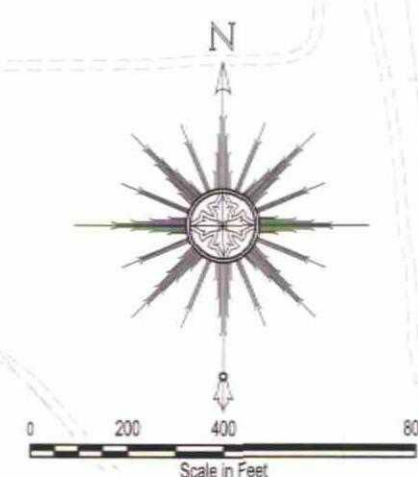
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						ChevronTexaco Exploration & Production Company North Eunice Plant Groundwater Investigation						Task Manager L. Markham	Technical Review S. Tischer
						Deep Groundwater Isoconcentration Map (Spring, 2002) Total Dissolved Solids (mg/L) Eunice #2 (North) Gas Plant, Lea County, New Mexico						Project Number MT000700.0004	Figure 30
	No.	Date	Revision Description	By		Ckd							

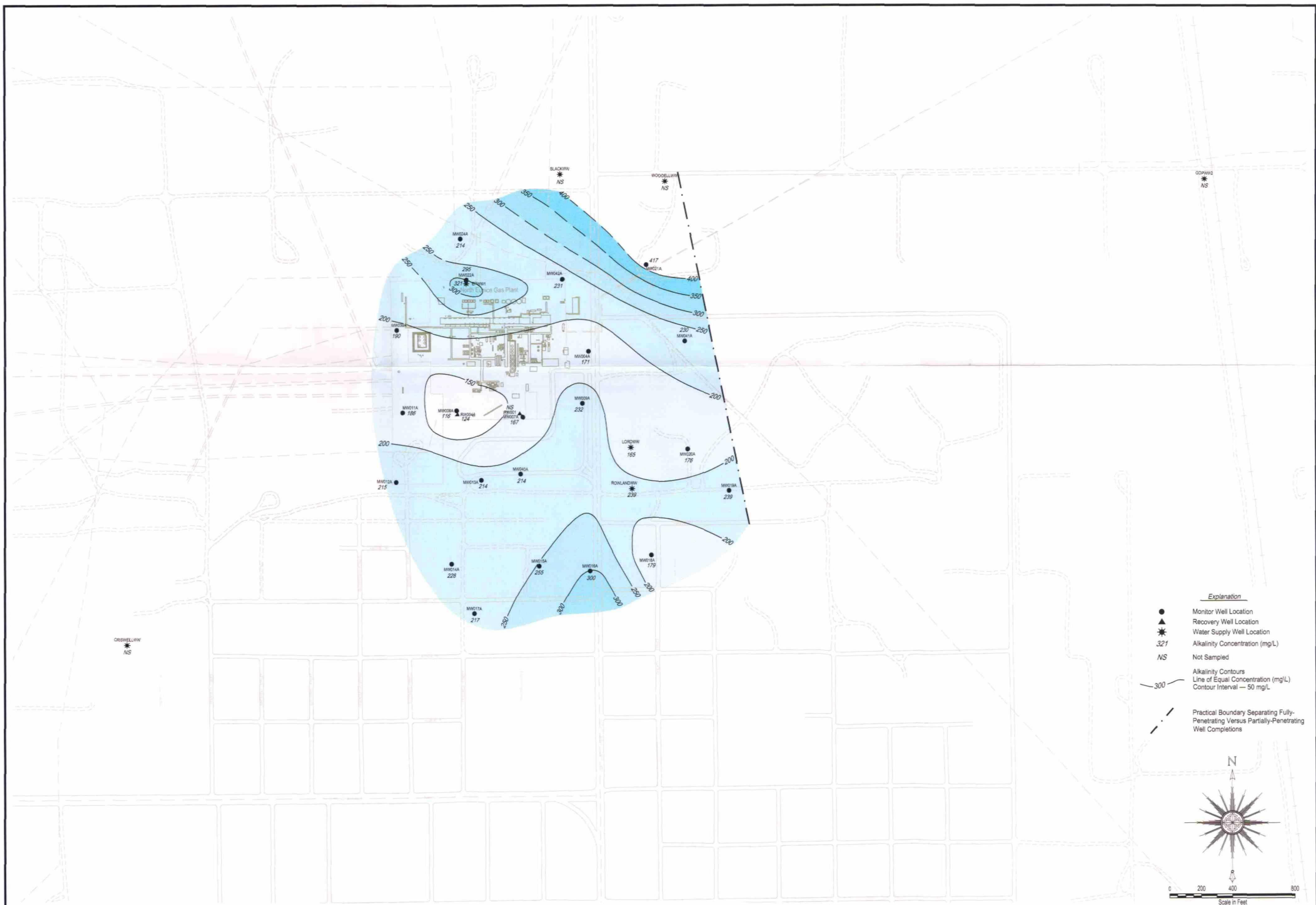


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Drawn By H. Clardy	Drawing Date 26 September 2003	File Location \\AutoCAD\DWG\ChevronTexaco\North Eunice\MT000700.004	File Name MT700474.dwg	Unique Number 31-014-00521	Project Director M. Hagan	Area Manager A. Schmidt
ChevronTexaco Exploration & Production Company North Eunice Plant Groundwater Investigation Deep Groundwater Isoconcentration Map (May, 2001) BTEX (mg/L) Eunice #2 (North) Gas Plant, Lea County, New Mexico					Task Manager L. Markham	Technical Review S. Tischer
					Project Number MT000700.0004	Figure 4

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1004 N. Big Spring Street, Suite 300
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Drawn By
H. Clardy

Drawing Date
26 September 2003

File Location
\\AutoCAD\\DWG\\ChevronTexaco\\North Eunice\\MT000700.004

File Name
MT700456.dwg

Unique Number
31-014-00385

Project Director
M. Hagan

Area Manager
A. Schmidt

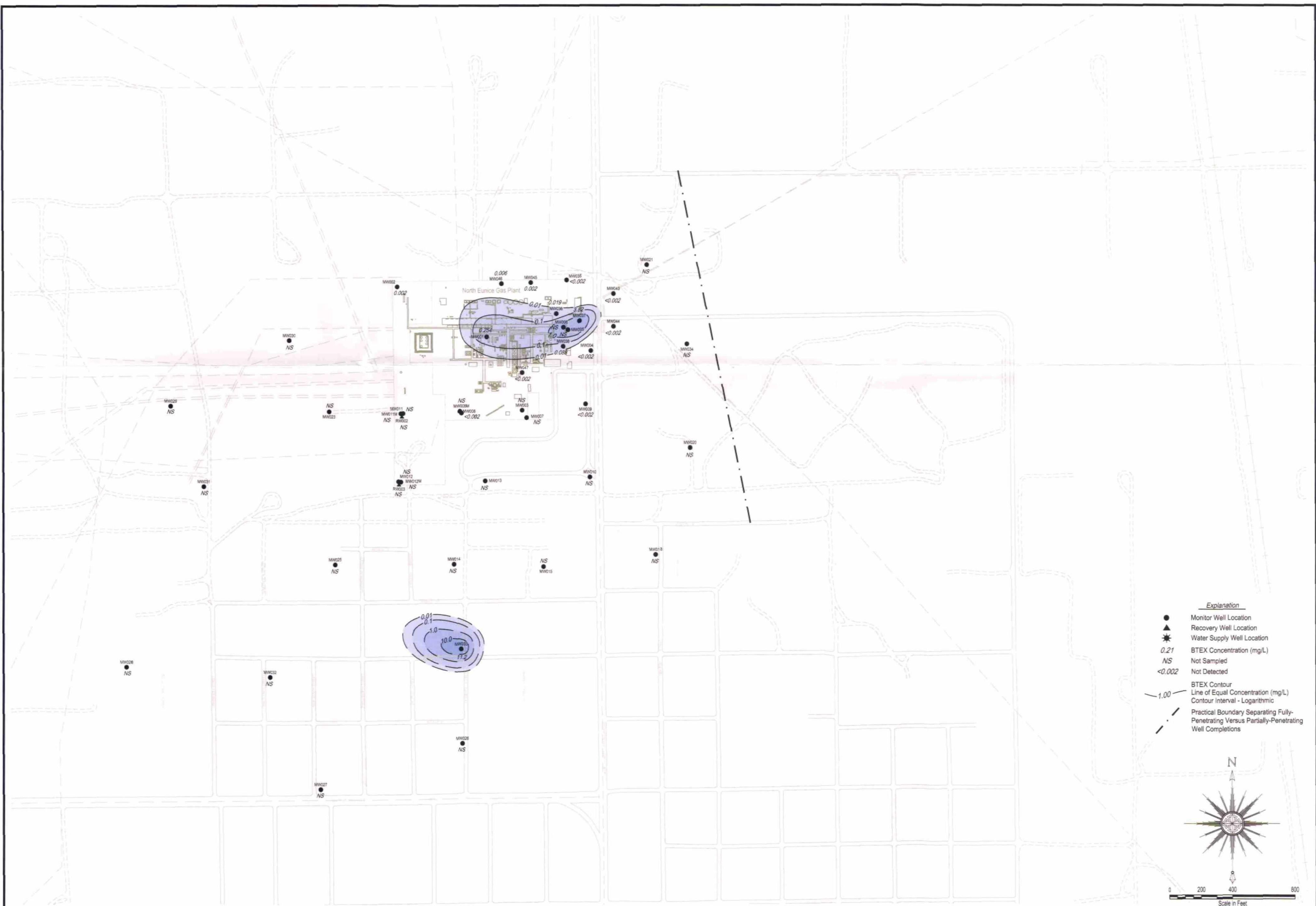
ChevronTexaco Exploration & Production Company
North Eunice Groundwater Investigation
Deep Groundwater Isoconcentration Map (Spring 2002)
Alkalinity (mg/L)
Eunice #2 (North) Gas Plant, Lea County, New Mexico

Task Manager
L. Markham

Technical Review
S. Tischer

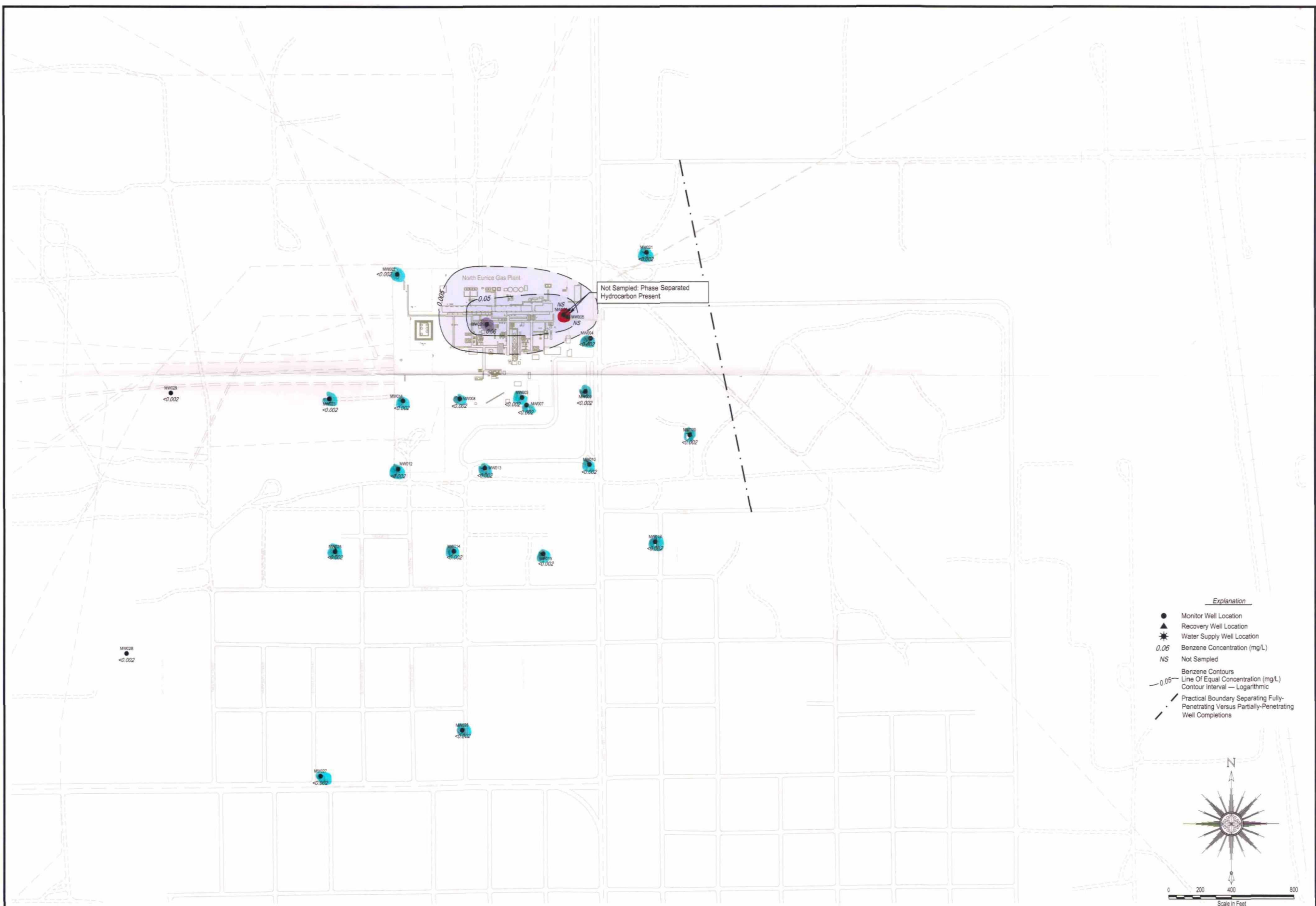
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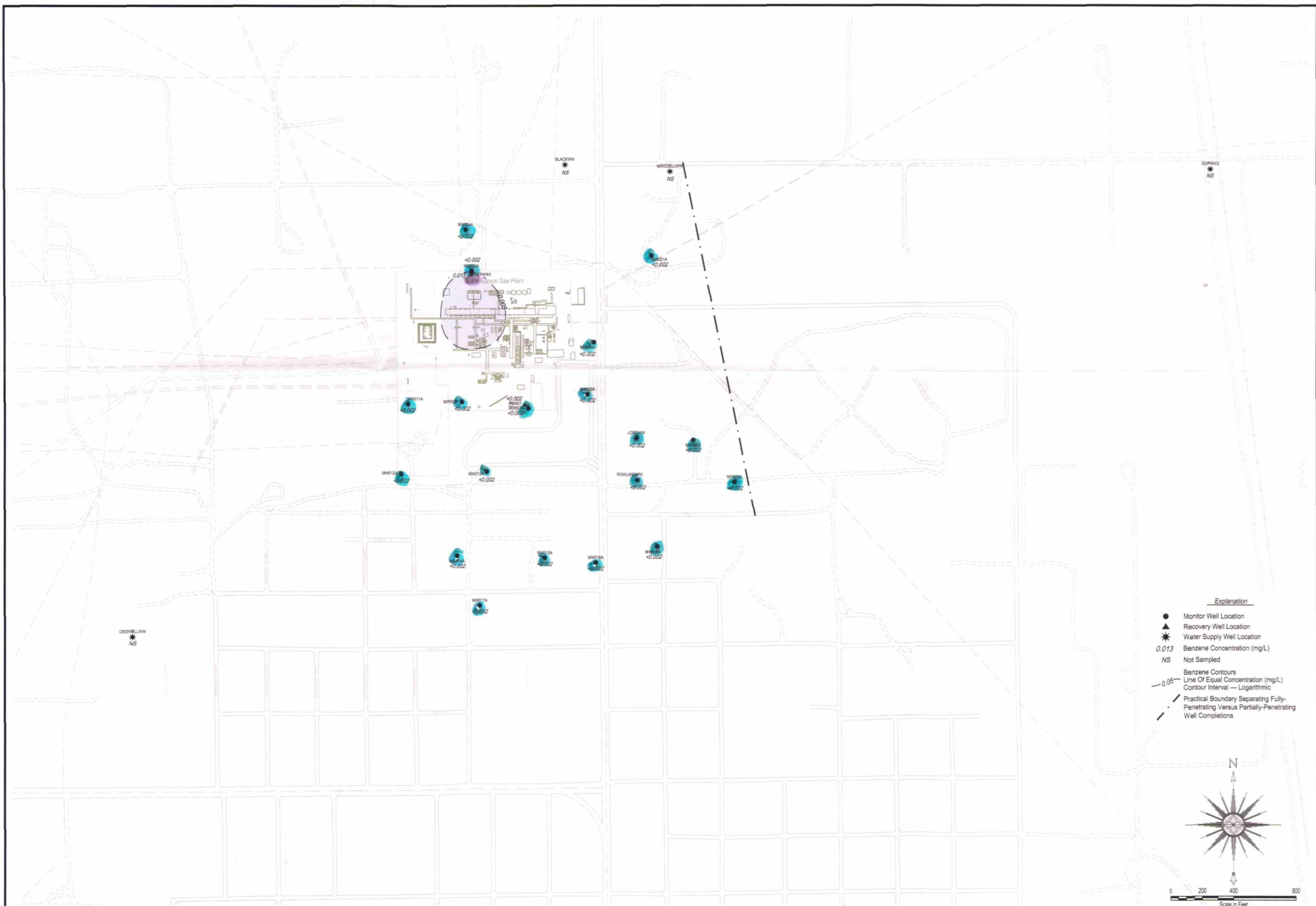
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1004 N. Big Spring Street, Suite 300
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Drawing Date
26 September 2003

File Location
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File Name
MT700472.dwg

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31-014-00519

Project Director
M. Hagan

Area Manager
A. Schmidt

ChevronTexaco Exploration & Production Company
North Eunice Plant Groundwater Investigation
Deep Groundwater Isoconcentration Map (May, 2001)
Benzene (mg/L)
Eunice #2 (North) Gas Plant, Lea County, New Mexico

Task Manager
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Technical Review
S. Fischer

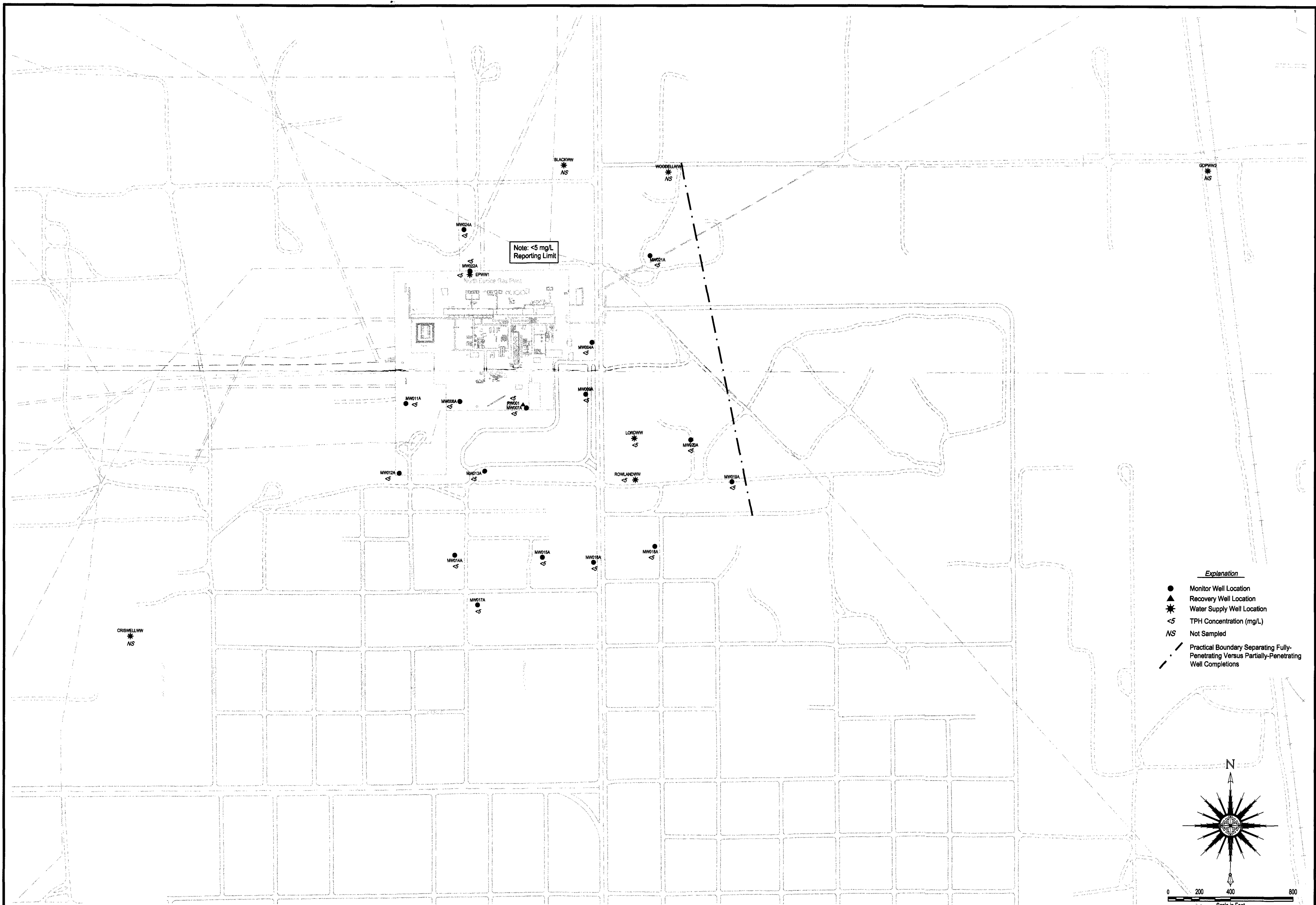
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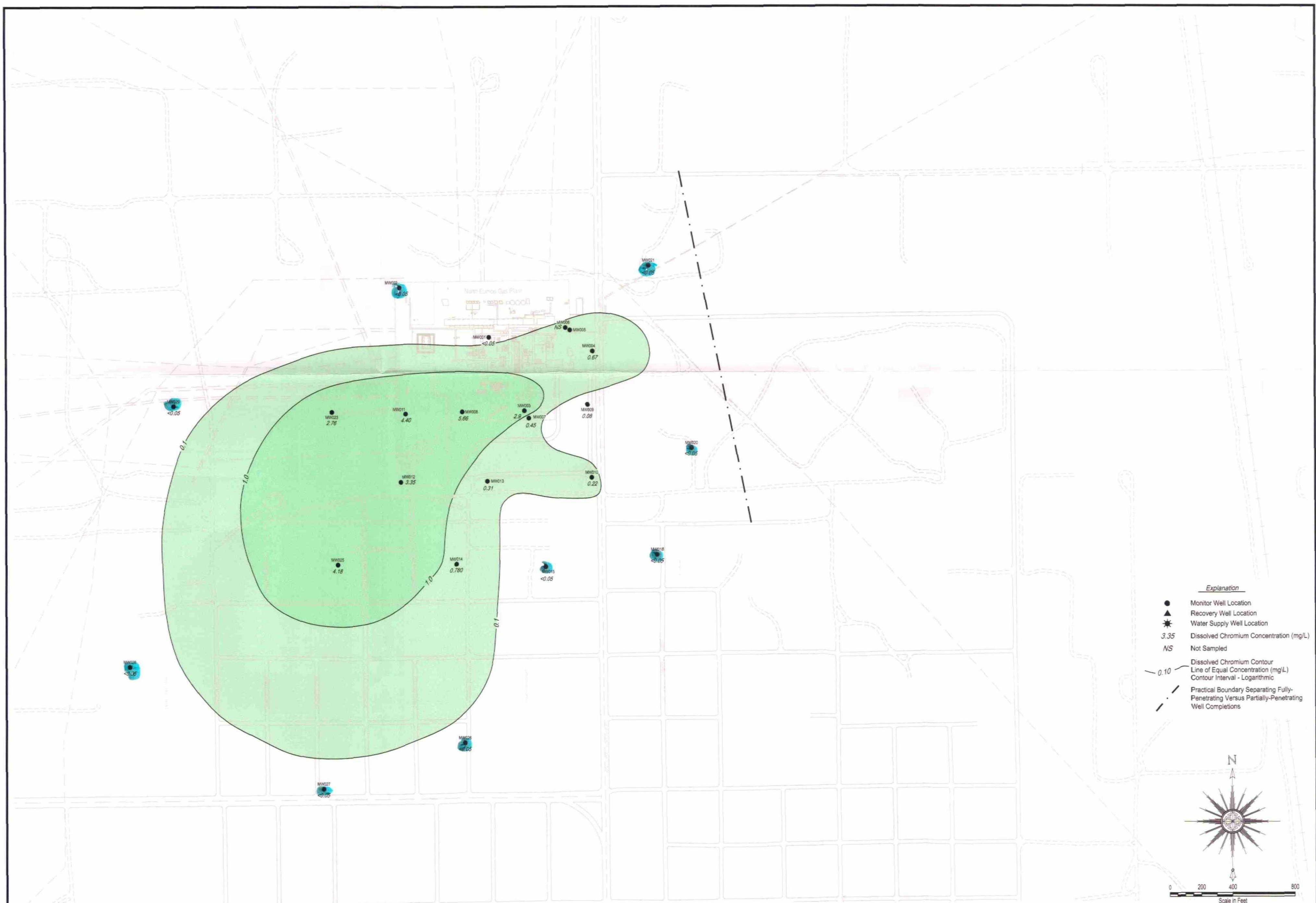
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Drawn By
H. Clardy

Drawing Date
26 September 2003

File Location
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File Name
MT700461.dwg

Unique Number
31-014-00508

Project Director
M. Hagan

Area Manager
A. Schmidt

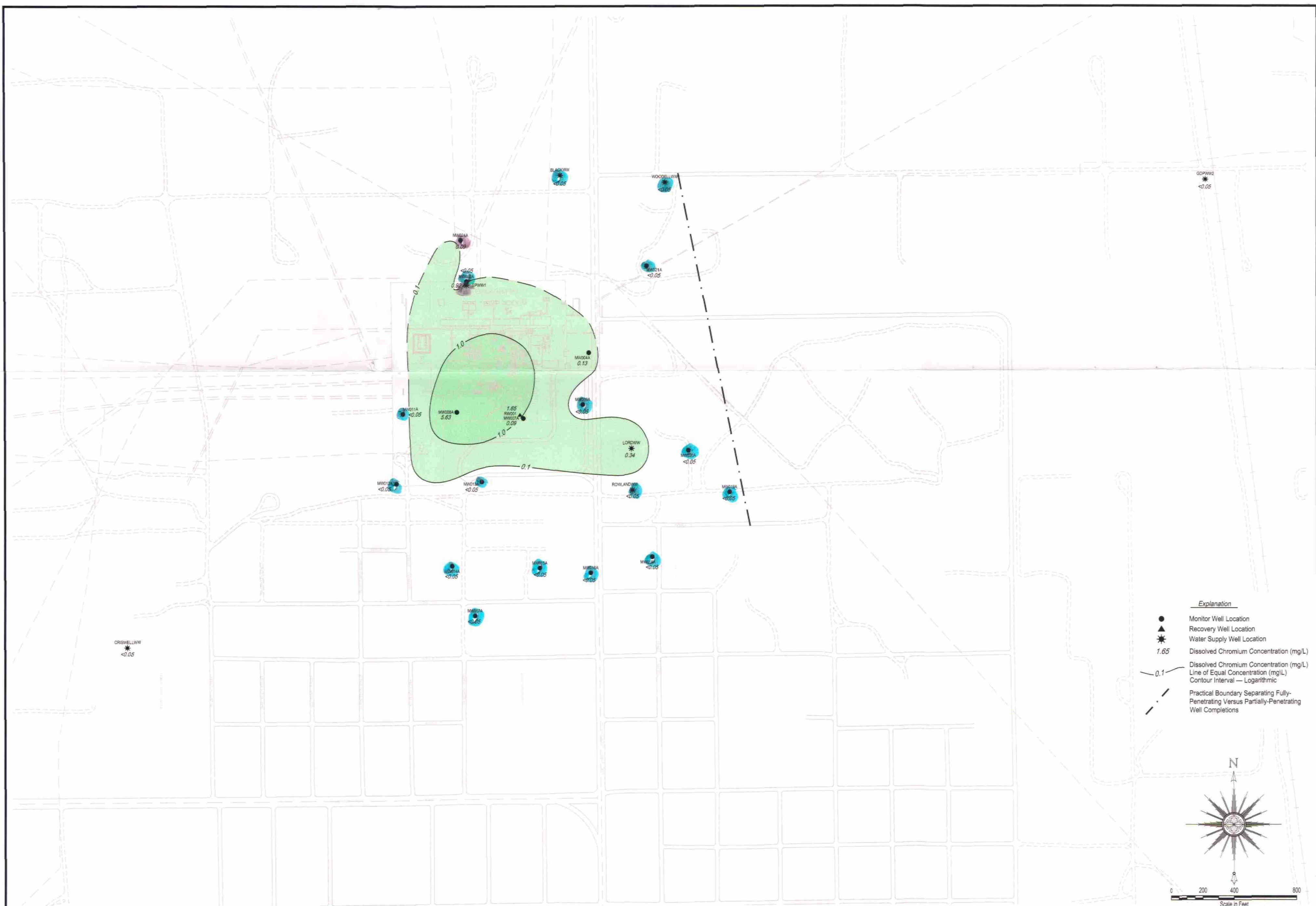
Task Manager
L. Markham

Technical Review
S. Tischer

Project Number
MT000700.0004

Figure
9

ChevronTexaco Exploration & Production Company
North Eunice Plant Groundwater Investigation
Shallow Groundwater Isoconcentration Map (May, 2001)
Dissolved Total Chromium (mg/L)
Eunice #2 (North) Gas Plant, Lea County, New Mexico



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File Name
MT700462.dwg

Unique Number
31-014-00509

Project Director
M. Hagan

Area Manager
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Figure
10