

AP - 25

STAGE 1 & 2 REPORTS

DATE:

Nov. 2000

AP025

PRELIMINARY SITE INVESTIGATION REPORT

SCRIPP PIT SITE Eddy County, New Mexico

Prepared For:

Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210

RECEIVED

DEC 19 2000

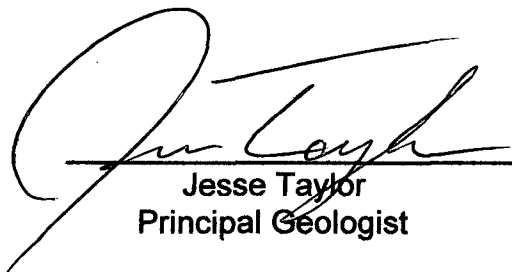
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

ETGI Project # YPC 2200D

Prepared By:

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, New Mexico 88240

November 2000



Jesse Taylor
Principal Geologist



Ken Dutton
Project Manager

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1.0 INTRODUCTION

Environmental Technology Group, Inc. (ETGI) conducted a subsurface investigation of this former pit location on behalf of Yates Petroleum Corporation (Yates). The investigation was conducted in order to document subsurface conditions resulting from operations at the former pit.

The site is located in the NW1/4 of the SW1/4 of Section 25, Township 18S, Range 26 East in Eddy County, New Mexico as depicted on Figure 1, the Site Location Map. The pit measures approximately 90 feet by 60 feet and the boring locations are depicted on Figure 2, the site map.

2.0 SUMMARY OF FIELD ACTIVITIES

ETGI mobilized a rotary drilling rig to the site on October 20, 2000. Mr. Ken Dutton, Field Operations Manager and Camille Reynolds supervised the field activities. David Haggith, Environmental Coordinator for Yates was also present.

Atkins Engineering, of Roswell, New Mexico, performed the drilling with Mort Bates, Senior Driller, in charge of the drilling rig. A total of two soil borings were advanced at the site. A proposed third boring was not advanced at the site due to weather conditions.

A soil sample was collected from soil boring SB-1 at a depth of 19.5-20.5 feet bgs which was taken near the boring's total depth. Soil samples were collected from soil boring SB-2 at depths of 9-10, 30-33, 35-37 and 39-41 feet bgs. A ground water sample was collected from SB-2 at a depth of 45' bgs. The total depth of this boring was 45' bgs.

Immediately after the soil and ground water samples were collected, the borings were backfilled with bentonite in order to prevent the potential for vertical migration of hydrocarbons or chlorides.

A chloride field test was conducted on each sample and a Photoionization Detector (PID) was utilized to screen Volatile Organic Compounds (VOCs). Proper QA/QC procedures were followed during all sampling procedures as described below. Each soil; and ground water sample was submitted to Environmental Lab of Texas to be tested for Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX, EPA Method 8021B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015 Modified GRO/DRO) as well as Chlorides (EPA Method 9253).

3.0 SITE DESCRIPTION

3.1 Regional Geology/Hydrogeology

The site is located approximately one half mile west of the west channel of the Pecos River and one and one half mile south of the intermittent stream, Rio Penasco. This places it in the geographic feature known as Orchard Park Terrace, which is only slightly dissected and slopes at about five degrees to the east. Surface drainage is to the east toward the west channel of the Pecos River.

The site is located on Quaternary alluvium associated with the Pecos River flood plain and drainages originating in the Sacramento Mountains to the west. The alluvium is underlain by the Triassic age Dockum Group which consists primarily of red silts and sands which are slightly to moderately indurated. The Dockum Group is approximately 1,000 feet thick in the site area and is divided into the Pierce Canyon redbeds and Santa Rosa sandstone in the site vicinity. These formations are unconformably underlain by the upper Permian Rustler Formation (gypsum, redbeds and dolomites) which is unconformably underlain by the middle Permian Chalk Bluff Formation (back reef deposits of dolomite, evaporites, redbeds and sandstone).

This area is located near the eastern margin of the Roswell Basin physiographic province, a north-south trending feature located between the Sacramento Mountains to the west and the Permian Basin to the east. Within this feature, ground water commonly occurs in the alluvium near the Pecos River and in the Permian formations throughout the feature. Aquifers within the Triassic Dockum group are usually thin and discontinuous resulting in poor quality and low volumes.

In the site vicinity, ground water generally flows to the southeast toward the downgradient direction of the west channel of the Pecos River, which joins the main channel at the confluence with Brantley Reservoir. The east-west trending intermittent streams appear to have little influence on the regional gradient, however local variations may occur in the vicinity of these drainages during precipitation events.

Data collected by the United States Weather Bureau indicate that the average annual precipitation in the site vicinity is approximately 12.4 inches. This amount occurs primarily as storm events during the period between June and October. Infiltration from these events is commonly minimal given the high rates of surface runoff and evaporation.

3.2 Site Geology/Hydrology

The soil borings indicate that the pit was excavated to a depth of approximately 10 to 12 feet. A one to three foot caliche layer, which was underlain by a red-brown, very fine-grained sand in the western portion of the pit and a thick caliche layer in the eastern portion of the pit generally underlay the backfill material.

The sand was dry to a depth of approximately 43 feet bgs where the capillary fringe was detected. Measurements taken in the uncompleted borehole indicate that the water table is located at approximately 45 feet bgs in the unconsolidated alluvial sand.

3.3 New Mexico Oil Conservation Division (NMOCD) Soil Classification

During the site investigation, soils that may be characterized by OCD guidelines as Highly Contaminated/Saturated Soils were present in the interval between 10 to 20 feet bgs in soil boring SB-2. No other Highly Contaminated/Saturated Soils were observed in any host soil samples.

The depth to groundwater, as measured from the lowermost zone of Highly Contaminated/Saturated Soils is approximately 25 feet. This interval is less than the 51 foot interval required for an OCD Ranking of less than 20 points.

The water well database, maintained by the state engineer's office, was accessed in order to determine the location and type of nearby water wells in the area. The data indicate that there are no water wells located within 1,000 feet of the site. This radius and the location of water wells in the vicinity are provided as Figure 3.

As depicted on Figures 1 and 2, there are no bodies of surface water located within 1,000 feet of the site. These site conditions result in an OCD Ranking of greater than 19 points. The action levels for a site with a Ranking Score of greater than 19 are as follows:

- Benzene - 10 ppm
- BTEX - 50 ppm
- TPH - 100 ppm

3.4 Distribution of Hydrocarbons in the Unsaturated Zone

Soils that may be characterized by OCD guidelines as Highly Contaminated/Saturated Soils were observed in the interval between 10 to 20 feet bgs in soil boring SB-2. However, laboratory analysis of the sample collected at 40 feet bgs in this boring were below the detection limit for BTEX and TPH. Impacted soils were not detected in soil boring SB-1. Assuming that the soils observed in soil boring SB-2 were representative of the soils in the western portion of the pit, it is estimated that there are approximately 500 cubic yards of impacted soil at the site.

3.5 Distribution of Hydrocarbons in the Saturated Zone

The ground water sample collected from SB-2 was 0.015 mg/L, which is slightly above the OCD regulatory standard for benzene of 0.010 mg/L. This sample was well below the regulatory standards for toluene, ethylbenzene, xylenes and TPH.

3.6 Distribution of Chlorides in the Unsaturated Zone

Elevated levels of chlorides were detected in the unsaturated zone throughout the site with no obvious trend associated with depth. The maximum soil chlorides level of 8,863 mg/Kg was detected in the sample from soil boring SB-1 at a depth of 18.5 to 20.5 feet bgs.

3.7 Distribution of Chlorides in the Saturated Zone

The ground water sample collected from soil boring SB-2 was found to have 25,170 mg/L chlorides concentration. Background data for chlorides concentrations in the area, as determined from the state engineers database (Appendix C), are in the range of 400 to 600 mg/L.

4.0 SUMMARY AND CONCLUSIONS

The site has an OCD Ranking Score of 20 points. The soil action levels for a site with this score are as follows:

- Benzene - 10 ppm
- BTEX - 50 ppm
- TPH - 100 ppm

Highly Impacted/Saturated soils were detected in soil boring SB-2 at a depth between 10 to 20 feet bgs. The soil sample collected at 40 feet bgs was below the method detection limits for these analytes.

The ground water sample collected from SB-2 was 0.015 mg/L, which is slightly above the OCD regulatory standard for benzene of 0.010 mg/L. This sample was well below the regulatory standards for toluene, ethylbenzene, xylenes and TPH.

Elevated levels of chlorides were detected in the unsaturated zone in both soil borings. The concentrations appeared to be variable with depth with no clear trend. The maximum soil chlorides level of 8,863 mg/Kg was detected in the sample from soil boring SB-1 at a depth of 18.5 to 20.5 feet bgs.

A search of the state engineer's database indicates that there are no domestic water wells within 1,000 feet of the site. In addition, no listed water wells were present in the assumed downgradient direction to the south-southeast (USGS and state engineer's office data).

The assumed gradient of south-southeast is based on the assumption that the west channel of the Pecos River is a "Gaining Stream". Therefore, ground water from the site would have to intersect the streambed at an elevation less than that observed at the site. Based on the USGS topographic map, the site elevation is approximately 3282 feet msl. Given that the depth to ground water at the site is 45 feet, the estimated elevation of ground water at the site is 3238 feet msl. The nearest Pecos river streambed elevation of 3250 feet msl or less is located over two miles from the site. Therefore, the capacity for the impacted ground water observed at the site, to impact the quality of water in the Pecos River, seems minimal.

5.0 QA/QC PROCEDURES

5.1 Soil Sampling

Samples of subsurface soils were obtained utilizing either a split spoon sampler (air rotary drilling rig) or a two-inch, continuous sampling tube with a clean polybuterate liner (Geo-Probe⁷). Representative soil samples were divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample was placed in a disposable sample bag. The bag was labeled and sealed for headspace analysis using a photoionization detector (PID) calibrated to a 100 ppm isobutylene standard. Each sample was allowed to volatilize for approximately thirty minutes at ambient temperature prior to conducting the analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

Soil samples were delivered to Environmental Lab of Texas, Inc. in Midland, Texas for BTEX and TPH analyses using the methods described below. Soil samples were analyzed for BTEX and TPH-GRO/DRO within fourteen days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

5.2 Ground Water Sampling

Monitoring wells were developed and purged with a clean PVC bailer. The bailer was cleaned prior to each use with Liqui-Nox⁷ detergent and rinsed with distilled water. Monitoring wells with sufficient recharge were purged by removing a minimum of three well volumes. Monitoring wells that do not recharge sufficiently were purged until no additional ground water can be obtained.

After purging the wells, ground water samples were collected with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves. Ground water sample containers were filled in the order of decreasing volatilization sensitivity (i.e., BTEX containers will be filled first and polynuclear aromatic hydrocarbons (PAH) containers second).

Ground water samples collected for BTEX analysis were placed in 40 ml glass VOA vials equipped with Teflon lined caps. The containers were provided by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

Ground water samples collected for PAH analysis were filled to capacity in sterile, one liter glass containers equipped with Teflon lined caps. Ground water samples collected for metals analysis were filled to capacity in sterile, one liter plastic containers equipped with Teflon lined caps. The containers were provided by the analytical laboratory.

The filled containers were labeled and placed on ice in an insulated cooler. The cooler was sealed for transportation to the analytical laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

The ground water samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015-GRO/DRO

5.3 Decontamination Of Equipment

Cleaning of drilling equipment was the responsibility of the drilling company. In general, the cleaning procedures consisted of using high pressure steam to wash the drilling and sampling equipment prior to drilling and prior to starting each hole. Prior to use, the sampling equipment was cleaned with Liqui-Nox⁷ detergent and rinsed with distilled water.

5.4 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

6.0 LIMITATIONS

Environmental Technology Group, Inc. has prepared this Preliminary Investigation Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

Environmental Technology Group, Inc. has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Environmental Technology Group, Inc. has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Environmental Technology Group, Inc. has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Environmental Technology Group, Inc. also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Yates Petroleum Corp. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of Environmental Technology Group, Inc. and/or Yates Petroleum Corp.

TABLES

Table 1

SOIL CHEMISTRY

YATES PETROLEUM CORPORATION
 SCRIPP PIT SITE
 ARTESIA, NEW MEXICO
 ETGI Project # YPC 2200D

All concentrations are in mg/L

SAMPLE NAME	SAMPLE DATE	SAMPLE DEPTH	SW 846-8021B, 5030					TPH 8015M			SW 846-9253
			BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	GRO C6-C10	DRO >C10-C28	TOTAL TPH	CHLORIDES
SB-1	10/21/00	18.5-20.5'									8863
SB-2	10/21/00	9-10'									886
SB-2	10/21/00	30-33'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<20	7550
SB-2	10/21/00	35-37'									301
SB-2	10/21/00	39-41'									1560
Background	10/21/00	0-2'									35

GROUND WATER CHEMISTRY

**YATES PETROLEUM CORPORATION
SCRIPP PIT SITE
ARTESIA, NEW MEXICO
ETGI Project # YPC 2200D**

All concentrations are in mg/L

[illegible]

FIGURES

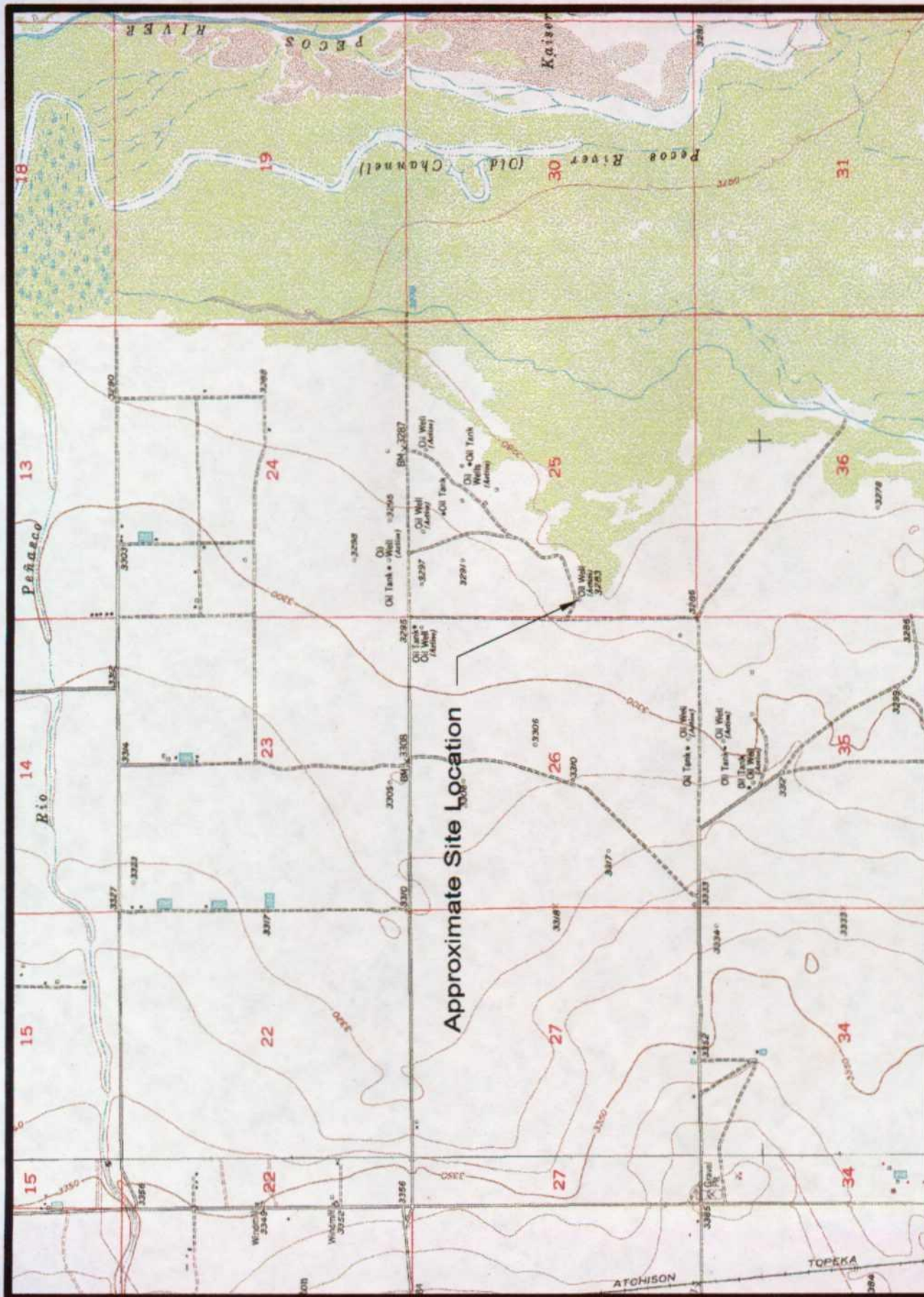
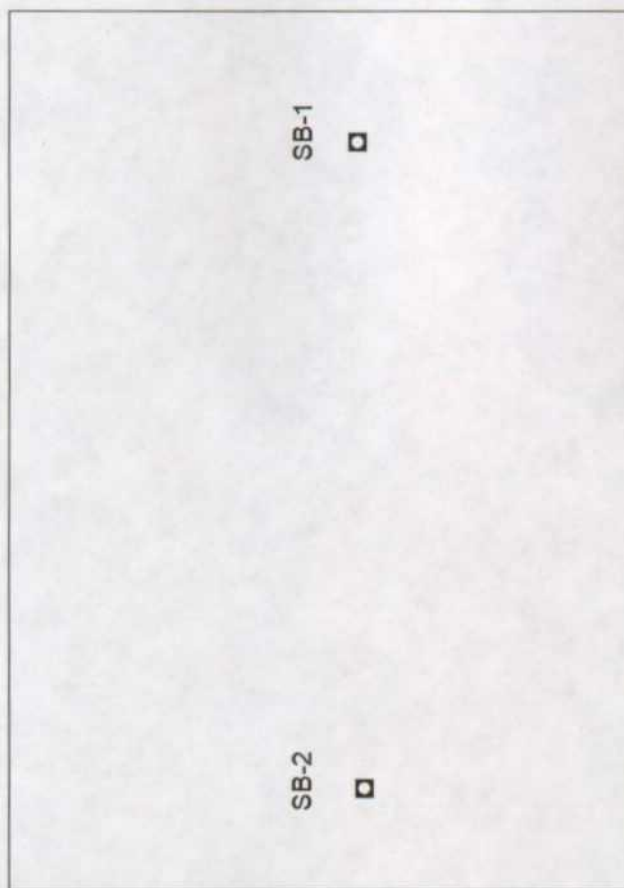


Figure 1
Site Location Map
Yates Petroleum Corp.
Scripps Pit
Artesia, NM

Environmental Technology
Group, Inc.

Scale: NTS	Prep By: JCU	Checked By: JT
October 20, 2000	ETGI Project # YPC 22000	



LEGEND:

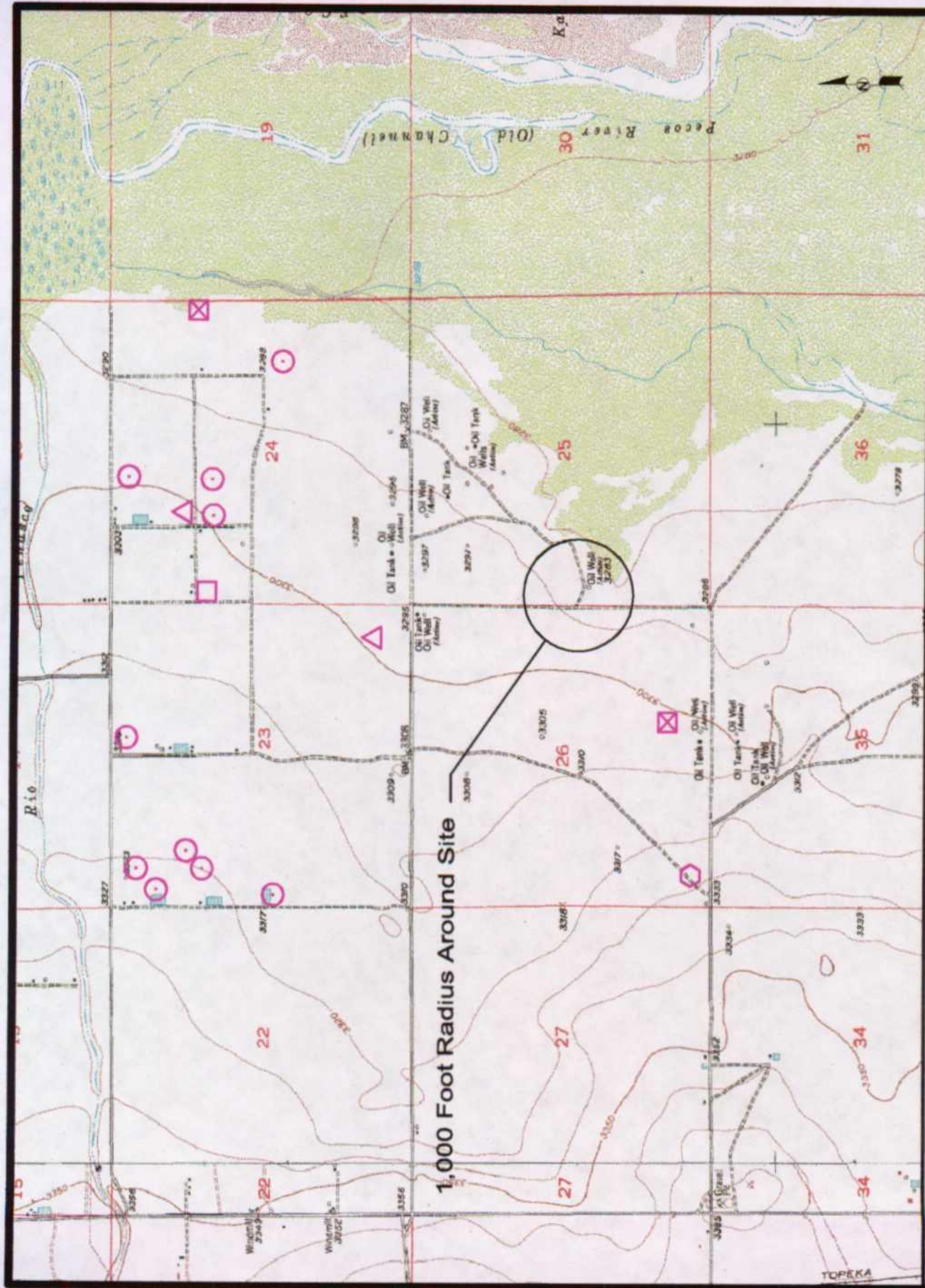
□ Soil Boring Location



Figure 2
Site Map
Yates Petroleum Corp.
Scripps Pit
Artesia, NM

Environmental Technology
Group, Inc.

Scale: 1" = 20'	Prep By: JDU	Checked By: JT
November 14, 2000	ETGI Project # YPS 2000	



LEGEND:

- Shallow Domestic
- Deep Domestic
- Shallow Irrigation
- Shallow Production
- Shallow Monitoring

Shallow Monitoring



Figure 3
Water Well Location Map

Yates Petroleum Corp.
Scripps Pit
Artesia, NM

Environmental Technology
Group, Inc.

Scale: NTS
October 20, 2000
Prep By: JDI
Checked By: JT
ETGI Project # YPC 22000

APPENDICES

APPENDIX A

Soil Boring SB-1

Legend
 PID Head-space reading in ppm obtained with a photo-ionization detector.
 ○ Indicates samples selected for laboratory analysis.

Soil Description

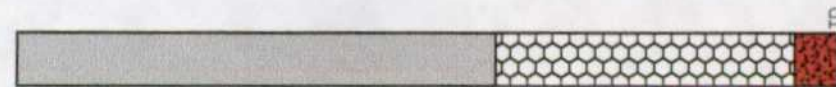
Petroleum
 Stain

Petroleum
 Odor

PID
 Reading

Soil
 Columns

Depth
 (feet)



Backfill - Mixed, Sandy Loam/Sand.

Caliche layer

Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules.

None

None

0.0

Soil Boring Details

Date Drilled 10/21/00

Plugged - Surface to TD with Bentonite and hydrated with deionized water.

Soil Boring Log Details

Soil Boring SB-1

Yates Pet Corp. Scripp Pit Eddy, NM

Environmental Technology Group, Inc.



Scale: NTS
 November 2, 2000
 Prep By: RS
 Checked By: RD
 ETGI Project # YPC 2000D

Soil Boring SB-2

Legend
 PID Head-space reading in ppm obtained with a photo-ionization detector.
 Indicates samples selected for laboratory analysis.

Depth (feet) 0 5 10 15 20 25 30 35 40 45

Soil Columns

Petroleum Odor

Petroleum Stain

Soil Description



Backfill - Mixed, Sandy Loam/Sand.

Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules and hydrocarbons.

Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules and hydrocarbons.

Gravel rock

Sand - (SP) - Brown, very fine grained, well sorted interbedded with clay.

Clay layer with Heavy Plasticity.

Sand - (SP) - Red-Brown, very fine grained, well sorted interbedded with caliche nodules.

Clay layer

Backfill - Mixed, Sandy Loam/Sand.

Soil Boring Details

Date Drilled 10/21/00

Plugged - Surface to TD with Bentonite and hydrated with deionized water.

Soil Boring Log Details

Soil Boring SB-2

Yates Pet Corp. Scripp Pit Eddy, NM

Environmental Technology Group, Inc.



Scale: NTS
 November 2, 2000
 Prep By: RS
 Checked By: KD
 ETGI Project # YPC 22000

APPENDIX B

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: MR. JESSE TAYLOR

2540 W. MARLAND

HOBBS, N.M. 86240

FAX: 505-397-4701

FAX: 915-520-4310

Sample Type: Soil

Sample Condition: Intact/ Iced/ 1 deg. C

Project #: YPC 2200D

Project Name: Yates Petroleum

Project Location: Artesia, N.M.

Sampling Date: See Below

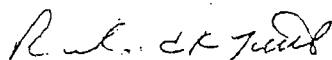
Receiving Date: 10/23/00

Analysis Date: 10/29/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
32918	Inez SB-1 15-16.5'	3.06	1.18	11.5	12.0	4.39	10/19/00
32929	Lathon SB-2 13-15'	<0.025	0.058	0.056	0.122	0.040	10/20/00
32941	Williams SB-5 10-12'	<0.025	<0.025	<0.025	<0.025	<0.025	10/21/00
32947	Scripp SB-2 30-33'	<0.025	<0.025	<0.025	<0.025	<0.025	10/21/00

%IA	104	105	105	105	100
%EA	93	95	96	96	92
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030


Raiano K. Tuttle

11-2-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: MR. JESSE TAYLOR

2540 W. MARLAND

HOBBS, N.M. 88240

FAX: 505-397-4701

FAX: 915-520-4310

Sample Type: Soil

Sample Condition: Intact/ Iced/ 1 deg. C

Project #: YPC 22C0D

Project Name: Yates Petroleum

Project Location: Artesia, N.M.

Sampling Date: See Below

Receiving Date: 10/23/00

Analysis Date: 10/24/00

ELT#	FIELD CODE	GRO	DRO	SAMPLE DATE
		C5-C10 mg/kg	>C10-C28 mg/kg	
32918	Inez SB-1 15-16.5'	214	790	10/19/00
32929	Lutton SB-2 13-15'	<10	<10	10/20/00
32941	Williams SB-5 17-19'	<10	<10	10/21/00
32947	Scripps SB-2 30-33'	<10	<10	10/21/00

% INSTRUMENT ACCURACY

78

84

% EXTRACTION ACCURACY

78

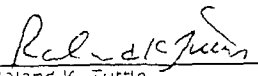
68

BLANK

<10

<10

Methods: SW 846-8015M


Roland K. Tuttle

11-2-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
2540 W. MARLAND
HOBBBS, N.M. 88240
FAX: 505-397-4701
FAX: 915-520-4310

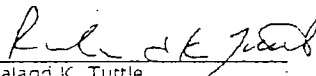
Sample Type: Water
Sample Condition: Intact/ Iced/ HC/ 1 deg. C
Project #: YPC 2200D
Project Name: Yates Petroleum
Project Location: Artesia, N.M.

Sampling Date: See Below
Receiving Date: 10/23/00
Analysis Date: 10/31/00

ELT#	FIELD CODE	GRO	DRO	SAMPLE DATE
		C6-C10 mg/L	>C10-C28 mg/L	
32922	Inez SB-1 67'	<0.50	<0.50	10/19/00
32935	Lattion SB-2 47'	<0.50	<0.50	10/20/00
32944	Williams SB-5 30'	<0.50	<0.50	10/21/00
32950	Scripp SB-2 40'	<0.50	<0.50	10/21/00

% INSTRUMENT ACCURACY	103	123
% EXTRACTION ACCURACY	115	147
BLANK	<0.50	<0.50

Methods: SW 846-8015M


Raland K. Tuttle

11-2-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: MR. JESSE TAYLOR

2540 W. MARLAND

HOBBS, N.M. 88240

FAX: 505-397-4701

FAX: 915-520-4310

Sample Type: Soil

Sample Condition: Intact/ Iced/ 1 deg. C

Project #: YPC 2200D

Project Name: Yates Petroleum

Project Location: Artesia, N.M.

Sampling Date: See Below

Receiving Date: 10/23/00

Analysis Date: 10/25/00

ELT#	FIELD CODE	Chloride mg/kg	SAMPLE DATE
32918	Inez SB-1 15-16.5'	12230	10/19/00
32919	Inez SB-1 19-21'	4372	10/19/00
32920	Inez SB-1 24-26'	2623	10/19/00
32921	Inez SB-1 36-38'	3978	10/19/00
32923	Inez SB-2 17.5-19.5'	1240	10/19/00
32924	Inez SB-3 17-19'	13471	10/19/00
32925	Inez Background	44	10/19/00
32926	Lattion SB-1 8-9'	886	10/20/00
32927	Lattion SB-1 14-16'	886	10/20/00
32928	Lattion SB-2 8-9'	6736	10/20/00
32929	Lattion SB-2 13-15'	6381	10/20/00
32930	Lattion SB-2 20-21'	7267	10/20/00
32931	Lattion SB-3 12.5-14.5'	3722	10/20/00
32932	Lattion SB-4 13-15'	2304	10/20/00
32933	Lattion SB-5 13-15'	7445	10/20/00
32934	Lattion SB-6 14-16'	4538	10/20/00
32936	Lattion Background	18	10/20/00
32937	Williams SB-1 10-12'	7385	10/21/00
32938	Williams SB-2 10-12'	10706	10/21/00
32939	Williams SB-3 10-12'	10147	10/21/00
32940	Williams SB-4 17-19'	5406	10/21/00
32941	Williams SB-5 10-12'	3729	10/21/00
32942	Williams SB-5 17-19'	9040	10/21/00
32943	Williams SB-5 24-26'	11108	10/21/00
32945	Scripp SB-1 18.5-20.5'	8663	10/21/00
32946	Scripp SB-2 9-10'	886	10/21/00
32947	Scripp SB-2 30-33'	7550	10/21/00
32948	Scripp SB-2 35-37'	301	10/21/00
32949	Scripp SB-2 39-41'	1560	10/21/00
32951	Williams Background	142	10/21/00
32952	Scripp Background	35	10/21/00
QUALITY CONTROL		5140	
TRUE VALUE		5000	
% INSTRUMENT ACCURACY		103	
BLANK		<10	

Methods: SW 946-9253


Roland K. Futtie

11-2-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
2540 W. MARLAND
HOBBS, N.M. 88240
FAX: 505-397-4701
FAX: 915-520-4310

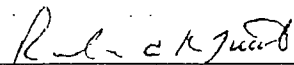
Sample Type: Water
Sample Condition: Intact/ Iced/ HCI/ 1 deg. C
Project #: YPC 2200D
Project Name: Yates Petroleum
Project Location: Artesia, N.M.

Sampling Date: See Below
Receiving Date: 10/23/00
Analysis Date: 10/24/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L	SAMPLE DATE
32922	Inez SB-1 67'	0.088	0.007	0.056	0.056	0.026	10/19/00
32935	Lattion SB-2 47'	0.004	<0.001	<0.001	<0.001	<0.001	10/20/00
32944	Williams SB-5 30'	0.535	0.012	0.020	0.021	0.013	10/21/00
32950	Scripp SB-2 40'	0.015	<0.001	0.001	0.002	0.001	10/21/00

%IA	96	96	99	101	96
%EA	106	89	95	86	90
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-80218, 5030


Raland K. Tuttle

11-2-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
2540 W. MARLAND
HOBBBS, N.M. 88240
FAX: 505-397-4701
FAX: 915-520-4310

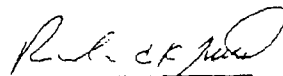
Sample Type: Water
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: YPC 2200D
Project Name: Yates Petroleum
Project Location: Artesia, N.M.

Sampling Date: See Below
Receiving Date: 10/23/00
Analysis Date: 11/02/00

ELT#	FIELD CODE	Chloride mg/L	SAMPLE DATE
32922	Inez SB-1 67'	17725	10/19/00
32935	Lattion SB-2 47'	81535	10/20/00
32944	Williams SB-5 30'	30842	10/21/00
32950	Scripp SB-2 40'	25170	10/21/00

QUALITY CONTROL	5140
TRUE VALUE	5000
% INSTRUMENT ACCURACY	103
BLANK	<10

Methods: SW 846-9253


Roland K. Tuttle

11-2-00
Date

1 of 4

Environmental Lab of Texas, Inc. 12600 West 1-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

POC: 264

Project Manager: Jesse Taylor		Phone #: 397-4882 FAX #: 397-4701												
Company Name & Address: ETGIT 2640 West Marland Hobbs, NM 8840														
Project #: YPC 22000														
Project Location: Artesia, NM														
Project Name: Yates Pet.														
Sampler Signature: <i>[Signature]</i>														
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME
32918	Inez SB-1 15-16.5'	1	4 gal	X							X		10/19	1400
32919	Inez SB-1 19-21'	1		X										1412
32920	Inez SB-1 24-26'	1		X										1430
32921	Inez SB-1 30-38'	1		X										1452
32922	Inez SB-1 67'	4	1.5	X				X						1630
32923	Inez SB-2 15-19.5'	1		X										1822
32924	Inez SB-3 17-19'	1		X										1737
32925	Inez Background	1		X										1800
32926	Lotion SB-1 8-9'	1		X										0923
32927	Lotion SB-1 14-16'	1		X										0935
32928	Lotion SB-2 8-9'	1		X										1322
Relinquished by: <i>[Signature]</i>		Date: 23 Oct 00	Time: 1405	Received by: <i>[Signature]</i>		Time:		REMARKS: FR: HOBBS OFFICE ATTN: KEN & JESSE		Rec 10c				
Relinquished by:		Date:	Time:	Received by:		Time:		FR: YATES PETROLEUM ATTN: D. HARGGITH (505) 748-4639						
Relinquished by:		Date:	Time:	Received by Laboratory:		Time:								

ANALYSIS REQUEST

DTX 8120/5030
TPH 8015 & 20/160
TCLP Metals Ag As Ba Cd Cr Pb Hg Se
TCLP Volatiles
TCLP Semi Volatiles
TDS
RCL
CHLORIDES

Rec 10c

25. 26. 27.

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

cc: 264

2010/02/03

Phone #: 397-4883

FAX #: 397-4701

Jesse Taylor

Company Name & Address:

ET 61 I 2540 West Maryland Hobbs NM

12/01/18

Project Name:

Vates Pet

Signature:

Artesia. nm

U. S. S. R.

[illegible]

Regulated by

Date: _____

Time:

Received by

REMARKS

Rec 100

Refracted by

21

11

Received by:

በሚጠቀሙበት

Date _____

DEBURY

Received by Laboratory:

REMARKS

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

FAX #: 397-4701

Company Name & Address: ETGI 2540 West Maryland, Hobbs, NM

Yates Pet.

Sampler Signature:

Artesia, nm

[illegible]

Received by:

Received by:

Received by Laboratory:

SUMMARY

Rec 100

ANALYSIS REQUEST

4044

81EX 80210/50311
TPH 418.1
TCLP Metals Ag As Ba
TCLP Metals Ag As Ba
TCLP Volatiles
TCLP Semi Volatiles
TDS
Chlorides

APPENDIX C

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic ☒ All

Well Data Report Avg Depth to Water Report Water Column Report

WELL DATA REPORT 11/15/2000

DB File Nbr	Use	Diversion	Owner	(acre ft per annum)	Well Number	(quarters are biggest to smallest)				X Y are
RA 01296	IRR	9666	CHARLES R. MARTIN		RA 01296	TwS	Rng	Sec	q q	Zone
					RA 01296 CLW	18S	26E	23	1 3 0	
					RA 01296 COR	18S	26E	23	1 3 2	
					RA 01296 DRY 2	18S	26E	23	3 1 1	
					RA 01296 SUP	18S	26E	23	1 1 0	
					RA 01296 SUP 2	18S	26E	23	3 1 1	
RA 02132 CLW-2 IRR		3	JONNIE GOODEN & PAUL E ROGERS		RA 02132 CLW-2	18S	26E	23	1 1 3	
RA 05344 PRO		60	YATES PETROLEUM CORP		RA 05344 (1C)	18S	26E	23	2 1 1	
						18S	26E	23	4 4 0	

Record Count: 8

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 01296

Primary Purpose: IRR IRRIGATION

Primary Status: PMT Permit

Total Acres: 644.4

Total Diversion: 9666

Owner: CHARLES R. MARTIN

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
CPPU	10/29/1969	PMT APR CNV	CONVERSION	RA	012	T		644.4		9666

Point of Diversion		(qtr are biggest to smallest)						X Y are in Feet		UTM are in Meters)		I		
POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM Zone	Easting	Northing	
RA 01296	Shallow	18S	26E	23	1	3	0				13	560098	3621901	32 4
RA 01296 CLW	Shallow	18S	26E	23	1	3	2				13	560197	3622000	32 4
RA 01296 COR	Shallow	18S	26E	23	3	1	1				13	559998	3621596	32 4
RA 01296 DRY		18S	26E	23	1	1	0				13	560097	3622305	32 4
RA 01296 DRY 2		18S	26E	23	1	1	0				13	560097	3622305	32 4
RA 01296 SUP	Shallow	18S	26E	23	3	1	1				13	559998	3621596	32 4
RA 01296 SUP 2	Shallow	18S	26E	23	1	1	3				13	559996	3622204	32 4

Place of Use (quarters are biggest to smallest)

Tws	Rng	Sec	q	q	q	q	q	Acres	Diversion	Consumptive	Use	Priority	Status	Other Location Description
18S	26E	14						106	318					
18S	26E	15						233.5	700.5					
18S	26E	23						304.9	914.7			01/01/1935		

New Mexico Office of the State Engineer
Transaction Summary

[Back](#)

CPPU Change Place & Purpose of Use (Ground)

Trn_nbr: 106247 Trn_desc: CONVERSION RA 01296 File Date: 09/25/1969

Primary status: PMT Permit
Secondary status: APR Approved
Person assigned:
Applicant: CHARLES R. MARTIN

Events

Date	Type	Description	Comment	Processed By
09/25/1969	CNV	Converted from Main Frame		informix Ortega, Mercedes

DB_File_Nbr	Acres	Diversion	Consumptive	Purpose of Use
RA 01296	644.4	9666	IRR	IRRIGATION

New Mexico Office of the State Engineer
Point of Diversion Summary

Back

POD Number Tws Rng Sec q q q Zone X Y
RA 01296 18S 26E 23 1 3 0

Driller Licence:

Driller Name: R. L. WILLSON

Drill Start Date: 11/01/1938

Log File Date:

Pump Type:

Casing Size:

Depth Well: 158

Source: Shallow

Drill Finish Date: 01/26/1939

PCW Received Date: 12/16/1939

Pipe Discharge Size:

Estimated Yield:

Depth Water:

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number Tws Rng Sec q q q Zone Y
RA 01296 CLW 18S 26E 23 1 3 2

Driller Licence: 28 SMITH, A.F.

Driller Name:

Drill Start Date: 03/16/1954

Log File Date: 04/12/1954

Pump Type: TURBIN

Casing Size:

Depth Well: 150

Source: Shallow

Drill Finish Date: 03/18/1954

PCW Received Date: 10/05/1955

Pipe Discharge Size:

Estimated Yield:

Depth Water: 35

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number
RA 01296 COR

Tws	Rng	Sec	q	q	q	Zone	X	Y
18S	26E	23	3	1	1			

Driller Licence:

Driller Name: D. N. GRAY

Drill Start Date:

Log File Date:

Pump Type: TURBIN

Casing Size:

Depth Well: 150

Source: Shallow

Drill Finish Date: 04/01/1943

PCW Received Date: 08/28/1944

Pipe Discharge Size:

Estimated Yield:

Depth Water: 70

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number	TwS	Rng	Sec	q	q	q	Zone	X	Y
RA 01296 DRY	18S	26E	23	1	1	0			

Driller Licence:	
Driller Name:	R. L. WILLSON
Drill Start Date:	09/24/1935
Log File Date:	02/10/1959
Pump Type:	
Casing Size:	
Depth Well:	212

Source:	
Drill Finish Date:	10/01/1935
PCW Received Date:	
Pipe Discharge Size:	
Estimated Yield:	
Depth Water:	

New Mexico Office of the State Engineer
Point of Diversion Summary

Back

POD Number Tws Rng Sec q q q Zone X Y
RA 01296 DRY 2 18S 26E 23 1 1 0

Driller Licence:

Driller Name: R. L. WILLSON

Drill Start Date: 03/01/1939

Log File Date: 02/10/1959

Pump Type:

Casing Size:

Depth Well:

Source:

Drill Finish Date: 03/30/1939

PCW Received Date:

Pipe Discharge Size:

Estimated Yield:

Depth Water:

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
RA 01296 SUP	18S	26E	23	3	1	1			
Driller Licence:									
Driller Name: D. N. GRAY									
Drill Start Date:									
Log File Date:									
Pump Type: TURBIN									
Casing Size:									
Depth Well: 154									
Source: Shallow									
Drill Finish Date: 04/01/1943									
PCW Received Date: 08/21/1943									
Pipe Discharge Size:									
Estimated Yield:									
Depth Water: 110									

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number RA 01296 SUP 2
TwS 18S Rng 26E Sec 23 q q q 1 1 3

Zone X Y

Driller Licence:

Driller Name: DAVE GRAY

Drill Start Date:

Log File Date:

Pump Type: ROTARY

Casing Size:

Depth Well: 135

Source: Shallow

Drill Finish Date: 02/01/1948

PCW Received Date: 08/12/1948

Pipe Discharge Size:

Estimated Yield:

Depth Water: 100

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 02132 CLW-2
Primary Purpose: IRR IRRIGATION
Primary Status: ADJ Adjudicated
Total Acres: 254.9
Total Diversion: 3

Owner: JONNIE GOODEN & PAUL E ROGERS

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
APPRO	03/21/1959	ADJ ADJ CNV	CONVERSION	RA	021 T	254.9			3	

Point of Diversion

POD Number	Source	Tw	Rng	Sec	q	q	q	X	Y	UTM Zone	Easting	Northing	I
RA 02132 CLW-2	Shallow	18S	26E	23	2	1	1			13	560798	3622405	32 4

(qtr are biggest to smallest X Y are in Feet UTM are in Meters)

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
RA 02132 CLW-2	18S	26E	23	2	1	1			
Driller Licence:									
Driller Name: A.F. SMITH									
Source: Shallow									
Drill Start Date:									
Drill Finish Date: 01/08/1955									
Log File Date:									
PCW Received Date: 08/15/1955									
Pump Type: TURBIN									
Pipe Discharge Size:									
Estimated Yield:									
Casing Size:									
Depth Well: 200									
Depth Water:									

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 05344

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 60

Owner: YATES PETROLEUM CORP

Documents on File

Doc	File/Act	Status	1	2	3	Trans Desc	From/To	Acres	Diversion	Consumptive
CLWPU	01/31/1989	PMT APR CNV				CONVERSION	RA 053 T			60

Point of Diversion

POD Number	Source	(qtr are biggest to smallest)				X Y are in Feet		UTM are in Meters)			I	
		Tw	Rng	Sec	q	q	q	q	Zone	East	North	
RA 05344	Shallow	18S	25E	26	4	4	0	0	13	551687	3619460	32 4
RA 05344 (1A)		18S	25E	35	0	0	0	0	13	551065	3618474	32 4
RA 05344 (1)		18S	25E	26	3	4	3	0	13	550782	3619349	32 4
RA 05344 (1B)		18S	26E	27	3	0	0	0	13	558699	3619680	32 4
RA 05344 (1C)		18S	26E	23	4	4	0	0	13	560501	3620690	32 4
RA 05344 (1D)		18S	25E	35	0	0	0	0	13	551065	3618474	32 4
RA 05344 (2)		18S	25E	35	0	0	0	0	13	551065	3618474	32 4
RA 05344 (2A)		18S	26E	31	3	0	0	0	13	553894	3618066	32 4
RA 05344 (2B)		18S	25E	34	0	0	0	0	13	549450	3618477	32 4
RA 05344 (2C)		18S	25E	34	0	0	0	0	13	549450	3618477	32 4
RA 05344 (3)		18S	25E	23	0	0	0	0	13	551075	3621665	32 4

Place of Use

(quarters are biggest to smallest)

Tw	Rng	Sec	q	q	q	q	q	Acres	Diversion	Consumptive	Use	Priority	Status	Other Location Description
												05/22/1967		

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
RA 05344 (1C)	18S	26E	23	4	4	0			

Driller Licence:	Source:
Driller Name:	Drill Finish Date:
Drill Start Date:	PCW Received Date:
Log File Date:	Pipe Discharge Size:
Pump Type:	Estimated Yield:
Casing Size:	Depth Water:
Depth Well:	

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 18S Range: 26E Sections: 24
NAD27 X: Y: Zone: Search Radius:
County: ED Basin: Number: Suffix:
Owner Name: (First) (Last) Non-Domestic Domestic All

Well Data Report Avg Depth to Water Report Water Column Report
Clear Form WATERS Menu Help

WELL DATA REPORT 11/15/2000

DB File Nbr	Use	Diversion	Owner	(acre ft per annum)	Well Number	(quarters are biggest to smallest)	X Y are
RA 02132	IRR	3	TERRY & JAMIE MARIE SANDERS		RA 02132	Tws Rng Sec q q	Zone
					RA 02132 B	18S 26E 24 2 4 1	
					RA 02132 B REPAR	18S 26E 24 1 4 2	
					RA 02132 BS	18S 26E 24 1 2 3	
					RA 02132 CLW	18S 26E 24 1 2 2	
					RA 02132 REPAR	18S 26E 24 1 4 1	
					RA 02132 B-2 REPAR	18S 26E 24 2 4 1	
					RA 03409 REPAR	18S 26E 24 1 2 3	
					RA 03900	18S 26E 24 2 4 2	
					RA 03900	18S 26E 24 1 3 1	

ANOCO PROD. CO.
SANDERS TERRY
PAUL & JOHNNIE ROGERS

Record Count: 9

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 02132
 Primary Purpose: IRR IRRIGATION
 Primary Status: ADJ Adjudicated
 Total Acres: 4.7
 Total Diversion: 3
 Owner: R.G. GOODEN
 Owner: TERRY & JAMIE MARIE SANDERS

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
APPRO	05/05/1958	ADJ	ADJ	CNV	CONVERSION	RA	021 T	4.7	3	

Point of Diversion	POD Number	(qtr are biggest to smallest				X Y are in Feet		UTM are in Meters)		Northing	I					
		Source	Tws	Rng	Sec	q	q	q	q			Zone	X	Y	UTM_Zone	Easting
RA 02132		Shallow	18S	26E	24	2	4	1				13	562804	3622005	32	4
RA 02132 B		Shallow	18S	26E	24	1	4	2				13	562201	3622003	32	4
RA 02132 B REPAR		Shallow	18S	26E	24	1	2	3				13	562000	3622207	32	4
RA 02132 BS		Shallow	18S	26E	24	1	2	2				13	562200	3622407	32	4
RA 02132 CLW		Shallow	18S	26E	24	1	4	1				13	562001	3622003	32	4
RA 02132 REPAR			18S	26E	24	2	4	1				13	562804	3622005	32	4

Place of Use (quarters are biggest to smallest

Tws	Rng	Sec	q	q	q	q	Acres	Diversion	Consumptive	Use	Priority	Status	Other Location Description
18S	26E	23					146.5	439.5			01/01/1908		
18S	26E	23					39.75	119.25			01/01/1908		
18S	26E	24					63.8	191.4			01/01/1925		
18S	26E	24					3.5	10.5			01/01/1925		

New Mexico Office of the State Engineer
Transaction Summary

[Back](#)

APPRO Application to Appropriate

File Date: 05/05/1958

Trn_nbr: 107254

Trn_desc: CONVERSION RA 02132

Primary status: ADJ Adjudicated

Secondary status: ADJ

Person assigned:

Applicant: R.G. GOODEN

Applicant: TERRY & JAMIE MARIE SANDERS

Events

Processed By
informix Ortega, Mercedes

Comment

Type Description
05/05/1958 CNV Converted from Main FrameDB File_Nbr
RA 02132Acres Diversion Consumptive Purpose of Use
4.7 3 IRR IRRIGATION

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number
RA 02132

Tws Rng Sec q q q
18S 26E 24 2 4 1

X

Y

Zone

Driller Licence:
Driller Name:
Drill Start Date:
Log File Date:
Pump Type:
Casing Size:
Depth Well:

Source: Shallow
Drill Finish Date: 01/01/1912
PCW Received Date:
Pipe Discharge Size:
Estimated Yield:
Depth Water:

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number RA 02132 B TwS 18S Rng 26E Sec 24 q 1 q 4 q 2 Zone X Y

Driller Licence:

Driller Name: D.N. GRAY

Drill Start Date: 12/06/1952

Log File Date: 01/06/1953

Pump Type: TURBIN

Casing Size:

Depth Well: 166

Source: Shallow

Drill Finish Date: 12/17/1952

PCW Received Date: 02/08/1955

Pipe Discharge Size:

Estimated Yield:

Depth Water:

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number TwS Rng Sec q q q Zone Y
RA 02132 B REPAR 18S 26E 24 1 2 3 Y

Driller Licence: 28 SMITH, A.F.

Driller Name: A.F. SMITH

Drill Start Date: 12/03/1953

Log File Date: 12/23/1953

Pump Type:

Casing Size:

Depth Well: 140

Source: Shallow

Drill Finish Date: 12/04/1953

PCW Received Date: 02/08/1955

Pipe Discharge Size:

Estimated Yield:

Depth Water: 27

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number RA 02132 BS
Tws 18S Rng 26E Sec 24 Q 1 Q 2 Q 2 Zone Y

Driller Licence:

Driller Name:

Drill Start Date:

Log File Date:

Pump Type: TURBIN

Casing Size:

Depth Well: 105

Source: Shallow

Drill Finish Date: 01/01/1938

PCW Received Date: 02/08/1955

Pipe Discharge Size:

Estimated Yield:

Depth Water:

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number
RA 02132 CLW

Tw	Rng	Sec	q	q	q	Zone	X	Y
18S	26E	24	1	4	1			

Driller Licence:

Driller Name: D.N. GRAY

Drill Start Date: 12/06/1952

Log File Date: 01/06/1953

Pump Type:

Casing Size:

Depth Well: 166

Source: Shallow

Drill Finish Date: 12/17/1952

PCW Received Date:

Pipe Discharge Size:

Estimated Yield:

Depth Water:

New Mexico Office of the State Engineer
Point of Diversion Summary

[Back](#)

POD Number Tws Rng Sec q q q Zone X Y
RA 02132 REPAR 18S 26E 24 2 4 1

Driller Licence:

Driller Name: R.I. WILLSON

Drill Start Date:

Log File Date: 01/06/1953

Pump Type: TURBIN

Casing Size:

Depth Well: 60

Source:

Drill Finish Date: 03/01/1936

PCW Received Date:

Pipe Discharge Size:

Estimated Yield:

Depth Water:

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 02132 B-2
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
Primary Status: EXP Expired
Total Acres:
Total Diversion:
Owner: ANOCO PROD. CO.

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
APPRO	07/24/1980	EXP	EXP	CNV	CONVERSION	RA	021 T			

Point of Diversion

POD Number	Source	Tws	Rng	Sec	q	q	q	q	X	Y	UTM_Zone	Eastng	Northng	I
RA 02132 B-2 REPAR	Shallow	18S	26E	24	1	2	3				13	562000	3622207	32 4

UTM are in Meters)

New Mexico Office of the State Engineer
Point of Diversion Summary

Back

POD Number Tws Rng Sec q q q Zone Y
RA 02132 B-2 REPAR 18S 26E 24 1 2 3

Driller Licence: 28 SMITH, A.F.

Driller Name: A.F. SMITH

Source: Shallow

Drill Start Date: 12/08/1953

Drill Finish Date: 12/10/1953

Log File Date: 01/11/1954

PCW Received Date: 02/08/1955

Pump Type: TURBIN

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 105

Depth Water: 27

New Mexico Office of the State Engineer
Water Right Summary

[Back](#)

DB File Nbr: RA 03409 REPAR

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: SANDERS TERRY

Documents on File

Doc	File/Act	Status	1	2	3	Trans Desc	From/To	Acres	Diversion	Consumptive
72121	01/31/1956	PMT APR CNV	RA	034	T	CONVERSION				3

Point of Diversion

POD Number	Source	TwS	Rng	Sec	q	q	q	q	q	X	Y	UTM Zone	Easting	Northing	I
RA 03409 REPAR	Shallow	18S	26E	24	2	4	2					13	563004	3622005	32 4

UTM are in Meters)

Back

Y
X

Source: Shallow

Source: Shallow
Drill Finish Date: 02/21/1956

Drill Finish Date: 02/21/1956

PCW Received Date:

Pipe Discharge Size:

Estimated Yield:

Depth Water: 18

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 03900

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: PAUL & JOHNNIE ROGERS

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
72121	07/17/1958	PMT APR CNV	CONVERSION	RA	039	T			3	

Point of Diversion	(qtr are biggest to smallest	X	Y	are in Feet	UTM are in Meters)									
POD Number	Source	Tw	Rng	Sec	q	q	q	Zone	X	Y	UTM Zone	Easting	Northing	I
RA 03900	Artesian	18S	26E	24	1	3	1				13	561600	3622003	32 4

New Mexico Office of the State Engineer
Point of Diversion Summary

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POD Number TwS Rng Sec q q q Zone Y
RA 03900 18S 26E 24 1 3 1

Driller Licence: 28 SMITH, A.F.

Driller Name:

Drill Start Date: 07/17/1958

Log File Date: 08/11/1958

Pump Type:

Casing Size:

Depth Well: 845

Source: Artesian

Drill Finish Date: 08/08/1958

PCW Received Date:

Pipe Discharge Size:

Estimated Yield:

Depth Water: 90

New Mexico Office of the State Engineer
Well Reports and Downloads

Township:	18S	Range:	26E	Sections:	25
NAD27	X:	Y:	Zone:	Search Radius:	
County:	ED	Basin:	Number:	Suffix:	
Owner Name: (First)	(Last)	☐ Non-Domestic ☒ Domestic ☐ All			

Well Data Report	Avg Depth to Water Report	Water Column Report
Clear Form	WATERS Menu	Help

WELL DATA REPORT 11/15/2000

(acre ft per annum)	(quarters are biggest to smallest	X Y are
DB File Nbr	Use Diversion Owner	Well Number
No Records found, try again		Tws Rng Sec q q q Zone

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 18S Range: 26E Sections: 26
NAD27 X: Y: Zone: Search Radius:
County: ED Basin: Number: Suffix:
Owner Name: (First) (Last) Non-Domestic Domestic All

Well Data Report Avg Depth to Water Report Water Column Report
Clear Form WATERS Menu Help

WELL DATA REPORT 11/15/2000

(acre ft per annum)		(quarters are biggest to smallest)				X Y are				
DB File Nbr	Use	Diversion	Owner	Well Number	Tws	Rng	Sec	q	q	Zone
RA 01881	OBS		BASSETT & BIRNEY ET AL	RA 01881	18S	26E	26	3	3	0
RA 07242 -EXPL	DOM	3	HUBERT C. GREEN	RA 07242 -EXPL	18S	26E	26	4	4	3
RA 07242 EXPL	OBS		HUBERT C. GREEN	RA 07242 EXPL	18S	26E	26	4	4	3
RA 07243 -EXPL	DOM	3	HUBERT C. GREEN	RA 07243 -EXPL	18S	26E	26	4	4	3
RA 07243 EXPL	DOM	3	HUBERT C. GREEN	RA 07243 EXPL	18S	26E	26	4	4	3

Record Count: 5

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 01881

Primary Purpose: OBS OBSERVATION

Primary Status: EXP Expired

Total Acres:

Total Diversion:

Owner: BASSETT & BIRNEY ET AL

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
72121	01/27/1942	EXP EXP CNV	CONVERSION	RA	018	T				

Point of Diversion

POD Number

RA 01881

(qtr are biggest to smallest

Source

18S

Tws

26E

q q q

26 3 3 0

X Y are in Feet

Zone

X

UTM are in Meters)

UTM_Zone

13

Easting

3619478

Northing

32 4

New Mexico Office of the State Engineer
Point of Diversion Summary

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POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
RA 01881	18S	26E	26	3	3	0			
Driller Licence:									
Driller Name:									
Drill Start Date:									
Log File Date:									
Pump Type:									
Casing Size:									
Depth Well:									
Source:									
Drill Finish Date:									
PCW Received Date:									
Pipe Discharge Size:									
Estimated Yield:									
Depth Water:									

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 07242 -EXPL

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: HUBERT C. GREEN

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
72121	09/15/1983	PMT APR CNV	CONVERSION	RA	072 T					3

Point of Diversion

POD Number	(qtr are biggest to smallest X Y are in Feet										
RA 07242 -EXPL	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM are in Meters)
	Shallow	18S	26E	26	4	3					
											UTM_Zone
											Easting
											Northing
											3619479
											560908
											13
											32
											4
											I

New Mexico Office of the State Engineer
Point of Diversion Summary

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POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
RA 07242 -EXPL	18S	26E	26	4	3				
Driller Licence: 749 HUGHES, SAMUEL DALE									
Driller Name: KUGHES DRILLING COMPANY									
Source: Shallow									
Drill Start Date: 09/20/1983									
Drill Finish Date: 10/30/1983									
Log File Date: 11/08/1983									
PCW Received Date:									
Pipe Discharge Size:									
Pump Type:									
Estimated Yield:									
Casing Size:									
Depth Well: 102									
Depth Water: 55									

Back

Documents on File

	(qtr are biggest to smallest	X Y are in Feet	UTM are in Meters)	I
	Source TwS Rng Sec q q q	Zone X	Y UTM_Zone Easting Northing	
Point of Diversion	Shallow 18S 26E 26 4 3		13 560908 3619479	32 4
POD Number				
RA 07242 EXPL				

New Mexico Office of the State Engineer
Point of Diversion Summary

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POD Number	Tw	Rng	Sec	q	q	q	Zone	X	Y
RA 07242 EXPL	18S	26E	26	4	3				
Driller Licence: 749 HUGHES, SAMUEL DALE									
Driller Name: Source: Shallow									
Drill Start Date: 09/20/1983	Drill Finish Date: 10/30/1983								
Log File Date: 11/08/1983	PCW Received Date:								
Pump Type:	Pipe Discharge Size:								
Casing Size:	Estimated Yield:								
Depth Well: 102	Depth Water: 55								

New Mexico Office of the State Engineer
Water Right Summary

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DB File Nbr: RA 07243 -EXPL
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
Primary Status: PMT Permit
Total Acres:
Total Diversion: 3
Owner: HUBERT C. GREEN

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
72121	09/15/1983	PMT APR CNV	CONVERSION	RA	072 T					3

Point of Diversion	(qtr are biggest to smallest	X	Y	are in Feet	UTM are in Meters)							
POD Number	Source	Tws	Rng	Sec	q q q	Zone	X	Y	UTM Zone	Easting	Northing	I
RA 07243 -EXPL	Shallow	18S	26E	26	4	3			13	560908	3619479	32 4

New Mexico Office of the State Engineer
Point of Diversion Summary

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POD Number Tws Rng Sec q q q Zone X Y
RA 07243 -EXPL 18S 26E 26 4 3

Driller Licence: 749 HUGHES, SAMUEL DALE
Driller Name: HUGHES DRILLING COMPANY Source: Shallow
Drill Start Date: 07/01/1984 Drill Finish Date: 07/25/1984
Log File Date: 07/27/1984 PCW Received Date:
Pump Type: Pipe Discharge Size:
Casing Size: Estimated Yield:
Depth Well: 110 Depth Water: 50

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: RA 07243 EXPL

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: HUBERT C. GREEN

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
72121	09/15/1983	PMT APR CNV				CONVERSION	RA 072 T			3

Point of Diversion

POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	are in Feet	UTM are in Meters)	UTM_Zone	Easting	Northing	I
RA 07243 EXPL	Shallow	18S	26E	26	4	3			X	Y			13	560908	3619479	32 4

New Mexico Office of the State Engineer
Point of Diversion Summary

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POD Number RA 07243 EXPL Tws 18S Rng 26E Sec 26 q 4 q 3 Zone X Y

Driller Licence: 749 HUGHES, SAMUEL DALE

Driller Name:

Drill Start Date: 07/01/1984

Log File Date: 07/27/1984

Pump Type:

Casing Size:

Depth Well: 110

Source: Shallow

Drill Finish Date: 07/25/1984

PCW Received Date:

Pipe Discharge Size:

Estimated Yield:

Depth Water: 50

APPENDIX D

★

REF NO	REF SUR	OWNERSHIP	DEPTH	WBF	DATED TO	CLTR	USE	LOCATION	LSELEV	PT	CLTH	CHLORIDES	CONDUCT	TDS	TEMP	ADD DATA	CARD	DATE	SOURCE	DPN	N
01305			1099	SEA	73/04/26	SED		IRR 185.24E.21.223313	3358.00	DP		27	0	0	75		0482		15-10132	0	
01305			1095	SEA	73/09/05	SED		IRR 185.24E.21.223313	3358.00	DP		253	2915	0	0		0482		15-10132	0	
01305			1095	SEA	74/03/27	SED		IRR 185.24E.21.223313	3358.00	DP		248	2967	0	75		0482		15-10132	0	
01305			1099	SEA	74/05/08	USG		IRR 185.24E.21.223313	3358.00	DP		252	2907	0	75		0485	U	15-10132	0	
01305			1095	SEA	78/07/26	SED		IRR 185.24E.21.223313	3358.00	DP		254	2970	0	0		0486		15-10132	0	
01305			0	PER	25/05/21	USG		IRR 185.24E.21.223313	0.00	DP		520	0	0	74	X	PLUG	U		0	
01305			0	PER	29/02/06	USG		IRR 185.24E.21.223313	0.00	DP		482	3600	0	0		PLUG	U		0	
01305			0	SEA	59/03/11	SED		DIL 185.24E.22.231	0.00	DP		127000	214000	0	0		0482	U		0	
01305			0	DAL	72/08/30	SED		IRR 185.24E.23.10324	0.00	DP		520	0	0	0		0486			0	
01616			162	DAL	28/05/21	USG		IRR 185.24E.23.21332	3314.00	DP		408	0	0	64	X	PLUG	U	15-71050	0	
00112			162	DAL	39/02/04	USG		IRR 185.24E.23.21332	3314.00	DP		425	3830	0	0	X	PLUG	U	15-71050	0	
00112			162	DAL	40/02/23	USG		IRR 185.24E.23.21332	3314.00	DP		402	3710	0	0	X	PLUG	U	15-71050	0	
01683			0	PER	57/04/23	DIL		DIL 185.24E.23.22134	0.00	DP		179000	0	0	0		5591			0	
01683			0	DAL	65/05/15	SED		IRR 185.24E.24.12111	0.00	DP		650	5009	0	64		1185			0	
01683			0	PER	59/03/12	SED		DIL 185.24E.24.334	0.00	DP		70500	324000	0	0		0482			0	
01683			744	PER	64/03/25	SED		IRR 185.24E.27.43333	3352.00	DP		20	1370	0	74		0482		15-10137	0	
01683			744	PER	64/08/06	SED		IRR 185.24E.27.43333	3352.00	DP		20	1350	0	73		0482		15-10137	0	
01683			744	PER	65/03/30	SED		IRR 185.24E.27.43333	3352.00	DP		11	1340	0	73		0482		15-10137	0	
01683			744	PER	65/08/09	SED		IRR 185.24E.27.43333	3352.00	DP		19	1450	0	73		0482		15-10137	0	
01683			744	PER	65/09/02	SED		IRR 185.24E.27.43333	3352.00	DP		17	1925	0	72		0482		15-10137	0	
01683			744	PER	73/09/05	SED		IRR 185.24E.27.43333	3352.00	DP		27	2329	0	0		0482		15-10137	0	
01683			744	PER	74/03/27	SED		IRR 185.24E.27.43333	3352.00	DP		12	2097	0	72		0482		15-10137	0	
01683			744	PER	70/08/27	SED		IRR 185.24E.27.43333	3352.00	DP		13	1875	0	72		0482		15-10137	0	
01683			744	PER	72/04/18	SED		IRR 185.24E.27.43333	3352.00	DP		19	2100	0	72		0482		15-10137	0	
01683			744	PER	73/05/04	SED		IRR 185.24E.27.43333	3352.00	DP		17	2004	0	72		0482		15-10137	0	
01683			744	PER	70/04/15	SED		IRR 185.24E.27.43333	3352.00	DP		17	2026	0	71		0482		15-10137	0	
01683			744	PER	71/04/26	SED		IRR 185.24E.27.43333	3352.00	DP		18	2241	0	71		0482		15-10137	0	
01683			744	PER	74/05/05	USG		IRR 185.24E.27.43333	3352.00	DP		34	1657	0	74		0385	U	15-10137	0	
01683			744	PER	70/08/14	SED		IRR 185.24E.27.43333	3352.00	DP		27	2440	0	0		0186		15-10137	0	
01683			140	DAL	93/05/10	SED		DOR 185.24E.28.64432	3378.00	YT		148	1520	0	0		0694		15-10140	0	
01683			152	DAL	70/08/20	USG		STK 185.24E.32.11100	3421.00	DP		30	1050	0	82		0285		15-10141	0	
01683			152	DAL	74/08/05	USG		STK 185.24E.32.11100	3421.00	DP		26	515	0	82		0285	U	15-10141	0	
01683			152	DAL	75/07/27	SED		STK 185.24E.32.11100	3421.00	DP		24	0	0	0		0186		15-10141	0	
01683			152	DAL	85/08/29	SED		STK 185.24E.32.11100	3421.00	DP		25	992	0	88		0167		15-10141	0	
01683			152	DAL	86/10/13	SED		STK 185.24E.32.11100	3421.00	DP		31	1645	0	67		1088		15-10141	0	
01683			152	DAL	93/08/10	SED		STK 185.24E.32.11100	3421.00	DP		95	980	0	0		0694			0	
01683			0	DAL	70/08/20	USG		IRR 185.24E.33.13413	0.00	DP		130	1650	0	72		0285			0	
01683			0	DAL	74/08/05	USG		IRR 185.24E.33.13413	0.00	DP		105	1702	0	68		0385	U		0	
01683			0	DAL	78/07/26	SED		IRR 185.24E.33.13413	0.00	DP		102	0	0	0		0186			0	
01683			0	DAL	85/09/04	SED		IRR 185.24E.33.13413	0.00	DP		104	1740	0	67		1185			0	
01683			0	PAT	59/10/28	SED		DIL 185.24E.33.21100	0.00	DP		0	18970	0	0		0683			0	
00045			671	SEA	58/08/12	USG		IRR 185.24E.34.11324	3358.00	DP		16	1350	0	73		0585	U	15-10143	0	
00045			671	SEA	58/09/09	USG		IRR 185.24E.34.11324	3358.00	DP		24	1390	0	71		0585	U	15-10143	0	
00045			671	SEA	59/01/21	USG		IRR 185.24E.34.11324	3358.00	DP		13	1310	0	0		0585	U	15-10143	0	
00045			671	SEA	59/03/03	USG		IRR 185.24E.34.11324	3358.00	DP		15	1340	0	0		0585	U	15-10143	0	