AP - 023

STAGE 1 & 2 REPORTS

DATE:

Nov. 2000

AP-23

PRELIMINARY SITE INVESTIGATION REPORT

LATTION PIT SITE
Eddy County, New Mexico

RECEIVED
DEC 19 2000
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Prepared For:

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

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

TABLE OF CONTENTS

Tables

Figures

APPENDICES

APPENDIX A:	Soil Boring Logs
APPENDIX B:	Laboratory Reports
APPENDIX C:	Water Well Reports
APPENDIX D:	Water Well Chlorides Data

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 NE1/4 of the SW1/4 of Section 23, Township 18S, Range 26 East in Eddy County, New Mexico as depicted on Figure 1, the Site Location Map. The older pit (east pit) measures approximately 100 feet by 115 feet and the more recently utilized pit (west pit) measures 45 feet by 50 feet. 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. Atkins Engineering, of Roswell, New Mexico, performed the drilling with Mort Bates, Senior Driller, in charge of the drilling rig. A total of six soil borings were advanced at the site including two in the west pit (SB-1 and SB-2) and four in the east pit (SB-3 through SB-6).

Soil samples were collected from SB-1 at depths of 8-9 and 14-16 feet bgs. Three samples were collected from soil boring SB-2 at 8-9, 13-15 and 20-21 feet bgs. Soil borings SB-3, SB-4, SB-5 and SB-6 had one soil sample collected within two feet of total depth of the borings as depicted on the boring logs in Appendix A. A background soil sample was collected at a point beyond any apparent impact from the site operations.

A ground water sample was collected from boring SB-2. The total depth and depth to water in this boring were both approximately 47 feet 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 and one half miles west of the west channel of the Pecos River and one 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 of 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 are commonly minimal given the high rates of surface runoff and evaporation.

3.2 Site Geology/Hydrology

The soil borings indicate that the east pit was excavated to a depth of approximately 8 feet bgs in the northeastern quadrant and to a depth of approximately 11 feet bgs in the remaining portions. The west pit was excavated to a depth of approximately 12 feet in the western portion and 8 feet bgs in the eastern portion.

The backfill material was generally underlain by a one to three foot caliche layer, which was underlain by a red-brown, very fine-grained sand. In places, the sand was interbedded with thin stringers of clay.

The sand was dry to a depth of approximately 45 feet bgs where the capillary fringe was detected. Measurements taken in the uncompleted borehole indicate that the water table is located at approximately 47 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 limited to the back fill material at a depth of less than 10 feet bgs. 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 37 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 a small portion of the backfill material only. Host soils below the backfill material were generally clean and the soil sample collected from this zone was below the appropriate ranking cleanup guidelines as described below. The caliche layer at this site appears to be fairly continuous and there is no evidence of impacted materials below the caliche layer.

3.5 Distribution of Hydrocarbons in the Saturated Zone

The ground water sample collected from SB-2 was below OCD regulatory standards for benzene and below the method detection limits 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 slightly lower concentrations present in the western portion of the western pit. The chlorides concentrations did not appear to vary greatly with depth. The maximum soil chlorides level of 7,445 mg/Kg was detected in the sample from soil boring SB-5 at a depth of 13 to 15 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 81,535 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

None of the soils observed in the host soil appear to exceed these criteria. A limited volume of impacted soil is present in the backfill material.

The ground water sample collected from SB-2 was below OCD regulatory standards for benzene and below the method detection limits for toluene, ethylbenzene, xylenes and TPH.

Elevated levels of chlorides were detected in the unsaturated zone throughout the site with slightly lower concentrations present in the western portion of the western pit. The chlorides concentrations did not appear to vary greatly with depth. The maximum soil chlorides level of 7,445 mg/Kg was detected in the sample from soil boring SB-5 at a depth of 13 to 15 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. The only listed water well in the assumed downgradient direction is a production well operated by Yates. The well is located approximately 2,500 feet southeast of the site and appears to be completed in the shallow aquifer.

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-Probe®). 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-Nox® 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-Nox[7] 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
LATTION 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	10/20/00	8-9'									886
SB-1	10/20/00	14-16'									886
SB-2	10/20/00	8-9'									6736
SB-2	10/20/00	13-15'	<0.025	0.058	0.056	0.122	0.040	<10	<10	<20	6381
SB-2	10/20/00	20-21'									7267
SB-3	10/20/00	12.5-14.5'									3722
SB-4	10/20/00	13-15'									2304
SB-5	10/20/00	13-15'									7445
SB-6	10/20/00	14-16'									4538
Background	10/20/00	0-2'									18

TABLE 2

GROUND WATER CHEMISTRY

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

All concentrations are in mg/L

SAMPLE NAME	SAMPLE DATE	SW 846-8021B, 5030					TPH 8015M			SW 846-9253
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	GRO C6-C-10	DRO >C10-C28	TOTAL TPH	CHLORIDES
SB-2	10/20/00	0.004	<0.001	<0.001	<0.001	<0.001	<0.50	<0.50	<1.00	81535

FIGURES

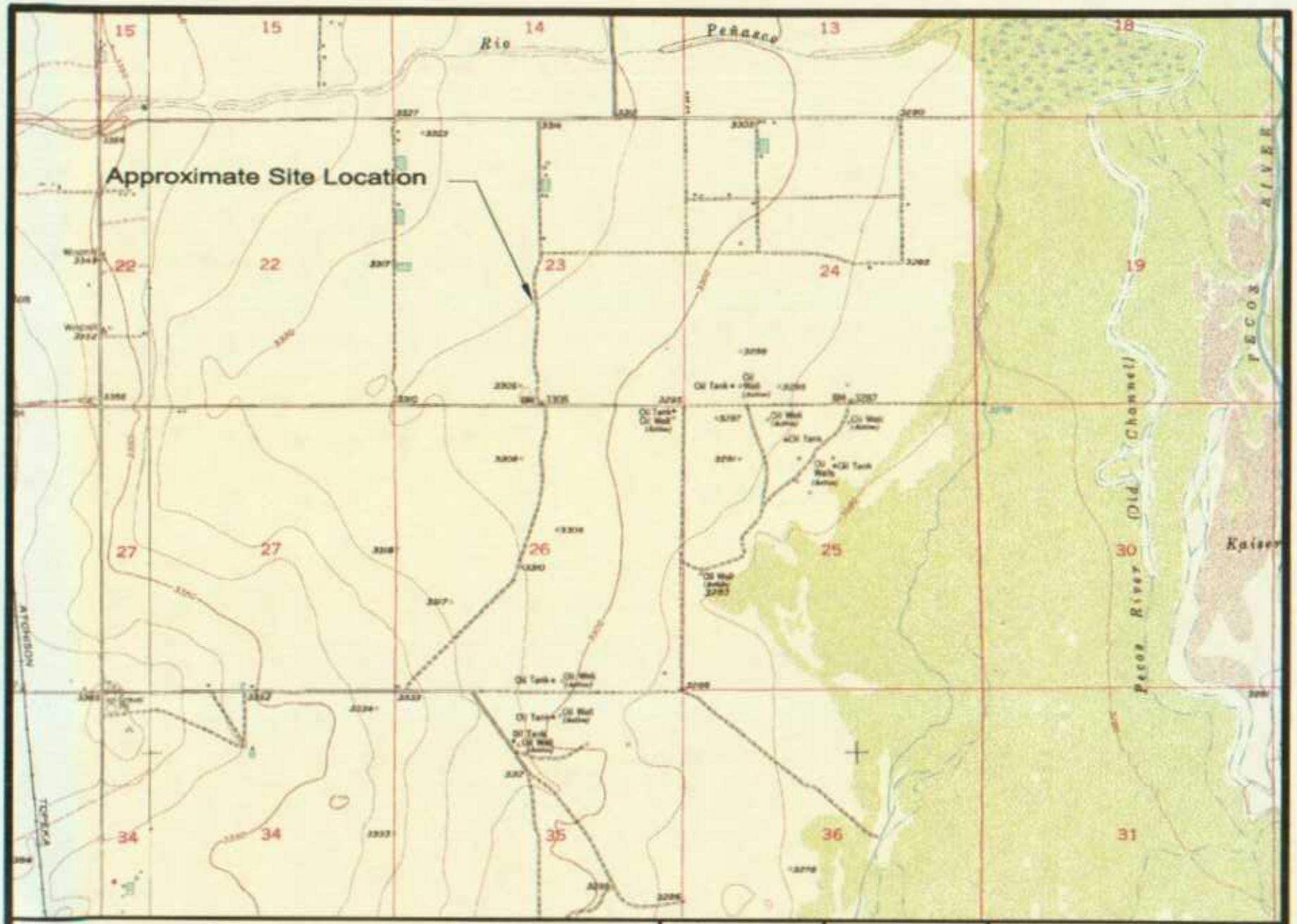
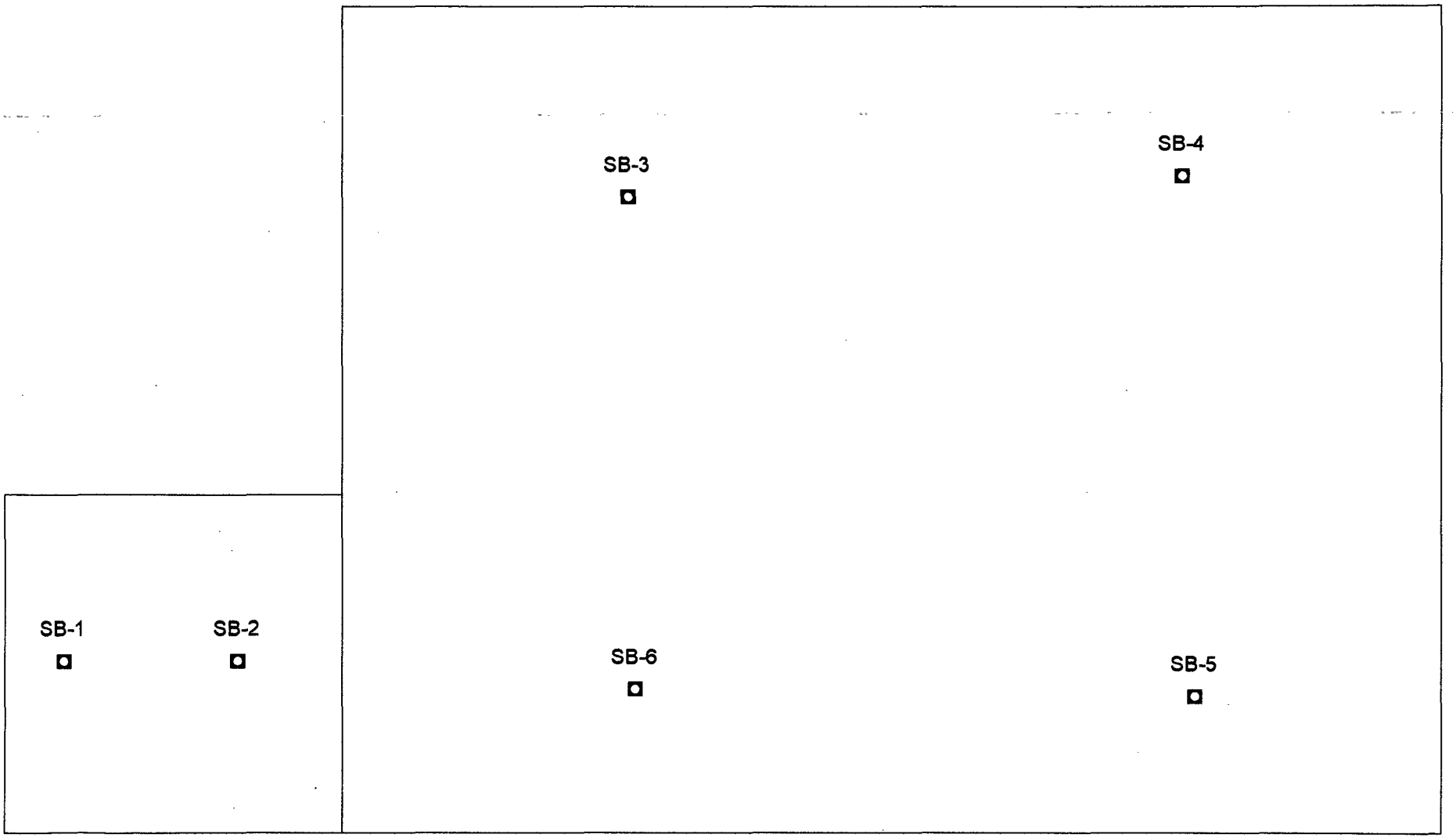


Figure 1
Site Location Map

Yates Petroleum Corp.
Lattion Pit
Artesia, NM

Environmental Technology Group, Inc.

Scale: NTS	Prep By: JDJ	Checked By: JT
October 20, 2000	ETGI Project # YPC 2000D	



LEGEND:

Soil Boring Location

20 10 0 10 20

Distance in Feet

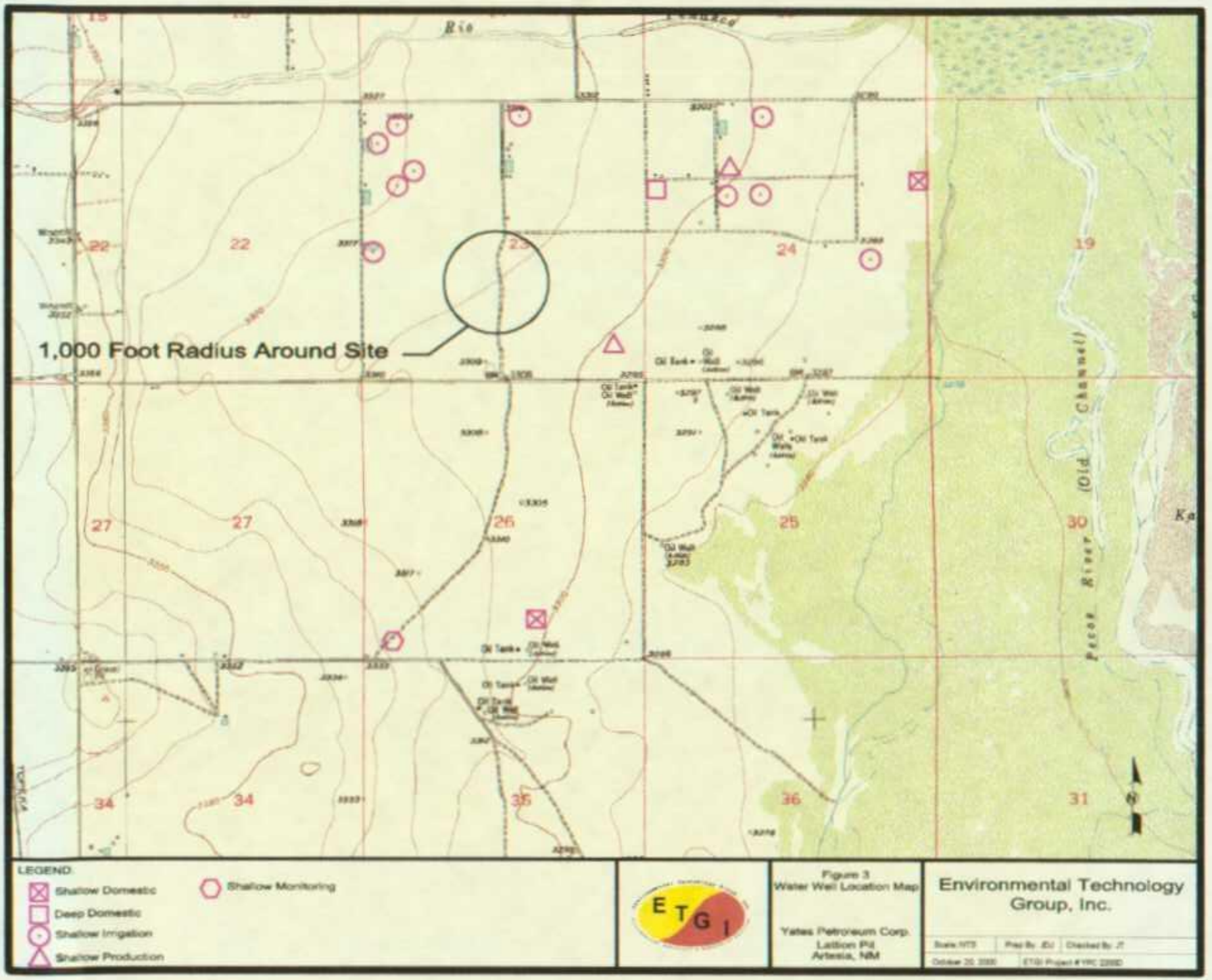
N

Figure 2
Site Map

Yates Petroleum Corp.
Lattion Pit
Artesia, NM

Environmental Technology Group, Inc.

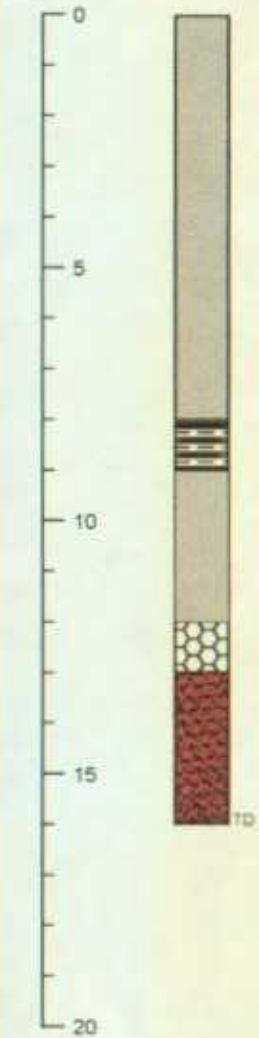
Scale: 1" = 20'	Prep By: JDJ	Checked By: JT
November 14, 2000	ETGI Project # YPC 2200D	


1,000 Foot Radius Around Site
LEGEND
Shallow Domestic
Deep Domestic
Shallow Irrigation
Shallow Production
Shallow Monitoring
Figure 3
Water Well Location Map
Yates Petroleum Corp.
Lallion Pit
Artesia, NM
Environmental Technology Group, Inc.

APPENDICES

APPENDIX A

Soil Boring SB-1



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0				
5				Backfill - Mixed, Sandy Loam/Sand.
		Heavy	Heavy	Clay with heavy plasticity interbedded with hydrocarbons
10				Backfill - Mixed, Sandy Loam/Sand.
				Caliche layer
15	6.7	Moderate	None	Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with clay.
20				

Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 10 / 20 / 00

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

Soil Boring Log Details

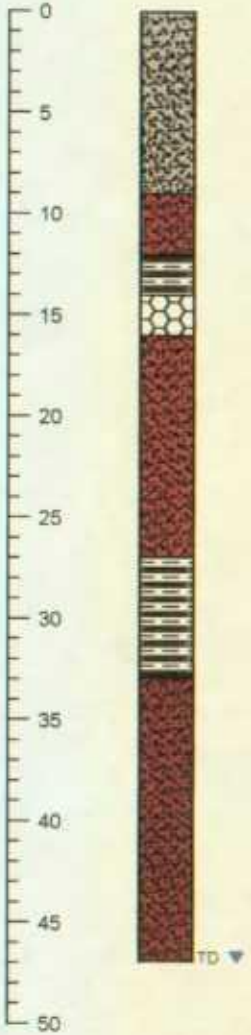
Soil Boring SB-1

Yates Pet Corp. Lattion Pit Eddy, NM

Environmental Technology Group, Inc.

Scale: NTS	Prep By: RS	Checked By: KD
November 2, 2000	ETGI Project # YPC 2300D	

Soil Boring SB-2



Depth (feet)	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0 - 5				Backfill - Mixed, Sandy Loam/Sand.
10	1.2	None	None	Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules.
13	0.0	None	None	Clay layer - heavy plasticity.
15	0.0	None	None	Caliche layer
20 - 25				Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules.
30				Clay layer - heavy plasticity.
40				Sand - (SC) - Brown-Black, very fine grained, well sorted.
45	0.0	None	None	

Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 10 / 20 / 00

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

Soil Boring Log Details

Soil Boring SB-2

Yates Pet Corp. Lattion Pit Eddy, NM

Environmental Technology Group, Inc.

Scale: NTS	Prep By: RS	Checked By: KD
November 2, 2000	ETGI Project # YPC 2200D	

Soil Boring SB-3

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0					Backfill - mixed, Sandy Loam/Sand.
5					
10					Gravel pack
		(6.8)	None	Slight	Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules.
15					
20					

Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.

( ) Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 10 / 20 / 00

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

Soil Boring Log Details

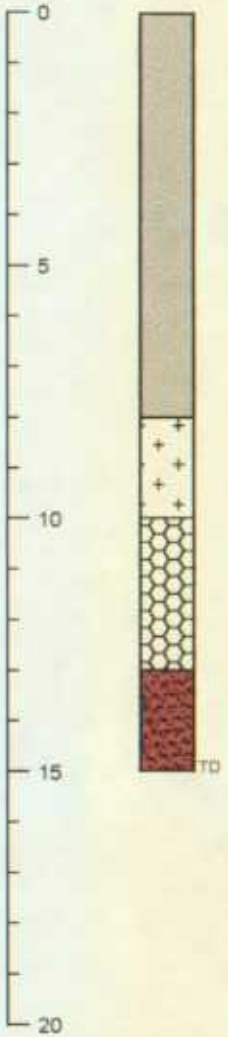
Soil Boring SB-3

Yates Pet Corp. Lattion Pit Eddy, NM

Environmental Technology Group, Inc.

Scale: NTS	Prep By: RS	Checked By: KD
November 2, 2000	ETGI Project # YPC 2200D	

Soil Boring SB-4



PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
			Backfill - Mixed, Sandy Loam/Sand.
			Concrete slab
			Caliche layer
4.7	None	None	Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with clay.

Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 10 / 20 / 00

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

Soil Boring Log Details

Soil Boring SB-4

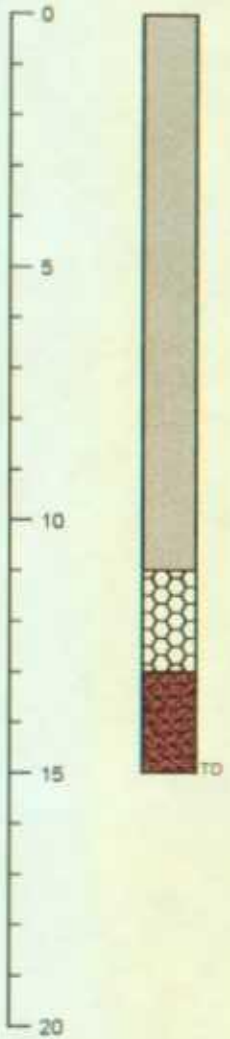
Yates Pet Corp. Lattion Pit Eddy, NM

Environmental Technology Group, Inc.

Scale: NTS	Prep By: RS	Checked By: KD
November 2, 2000	ETGI Project # YPC 2200D	

Soil Boring SB-5

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0					Backfill - Mixed, Sandy Loam/Sand.
10					Caliche layer
15	TD	3.7	None	None	Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules.
20					



Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 10 / 20 / 00

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

Soil Boring Log Details

Soil Boring SB-5

Yates Pet Corp. Lattion Pit Eddy, NM

Environmental Technology Group, Inc.

Scale: NTS	Prep By: RS	Checked By: KD
November 2, 2000	ETGI Project # YPC 2200D	

Soil Boring SB-6

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0					
5					Backfill - Mixed, Sandy Loam/Sand.
10					Caliche layer
15	TD	(0.2)	None	None	Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules.
20					

Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.

(0.2) Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 10 / 20 / 00

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

Soil Boring Log Details

Soil Boring SB-6

Yates Pet Corp. Lattion Pit Eddy, NM

Environmental Technology Group, Inc.

Scale: NTS	Prep By: RS	Checked By: KD
November 2, 2000	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. 88240
FAX: 505-397-4701
FAX: 915-520-4310

Sample Type: Soil
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: YPC 22000
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	Lattion 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

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: 10/24/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE
32918	Inez SB-1 15-16.5'	214	790	10/19/00
32929	Lattion SB-2 13-15'	<10	<10	10/20/00
32941	Williams SB-5 17-19'	<10	<10	10/21/00
32947	Scripp SB-2 30-33'	<10	<10	10/21/00
	% INSTRUMENT ACCURACY	78	84	
	% EXTRACTION ACCURACY	78	68	
	BLANK	<10	<10	

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: Water
Sample Condition: Intact/ Iced/ HCl/ 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 C6-C10 mg/L	DRO >C10-C28 mg/L	SAMPLE DATE
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'	8863	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 846-9253

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: Water
Sample Condition: Intact/ Iced/ HCl/ 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 846-8021B ,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
HOBBS, 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

Raland K. Tuttle

11-2-00
Date

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

COC: 264

Project Manager: Jesse Taylor

Phone #: 397-4882

FAX #: 397-4701

Company Name & Address: ETGT 2640 West Marland, Hobbs, NM 88240

Project #: YPC 2200D

Project Name: Yates Pet.

Project Location: Artesia, NM

Sampler Signature: Jesse Taylor

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH 8015 6/20/Hobbs	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	CHLORIDES
32918	Inez SB-1 15-16.5'	1	4oz		X						X			10/19	1400	X	X							X
32919	Inez SB-1 19-21'	1			X										1412									X
32920	Inez SB-1 24-26'	1			X										1430									X
32921	Inez SB-1 36-38'	1			X										1452									X
32922	Inez SB-1 67'	4	V, 5	X					X						1630	X	X							X
32923	Inez SB-2 [illegible]5-19.5'	1			X										1822									X
32924	Inez SB-3 17-19'	1			X										1737									X
32925	Inez Background	1			X									↓	1800									X
32926	Lattion SB-1 8-9'	1			X									10/20	0923									X
32927	Lattion SB-1 14-16'	1			X										0935									X
32928	Lattion SB-2 8-9'	1			X									↓	1322									X

Relinquished by:	Date:	Time:	Received by:
Jesse Taylor	23 Oct 00	1405	[signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS

Rec 1°C

FR: HOBBS OFFICE
ATTN: KEN & JESSE

FR: YATES PETROLEUM
ATTN: D. HAGGITH
(505) 748-4639

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

COC: 264

Project Manager: Jesse Taylor

Phone #: 397-4882

FAX #: 397-4701

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

Project #: YPC 2200 D

Project Name: Yates Pet

Project Location: Artesia, NM

Sampler Signature: [signature]

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH 8015 DRO/GRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	CHLORIDE
32929	Lattion SB-2 13-15'	1	4oz		X						X			10/20	1345	X	X							X
32930	Lattion SB-2 20-21'	1			X										1402									X
32931	Lattion SB-3 12.5-14.5	1			X										1002									X
32932	Lattion SB-4 13-15'	1			X										1037									X
32933	Lattion SB-5 13-15'	1			X										1120									X
32934	Lattion SB-6 14-16'	1			X										1215									X
32935	Lattion SB-2 47'	4	V,.5	X					X						1530	X	X							X
32936	Lattion Background	1	4oz		X										0940									X
32937	Williams SB-1 10-12'	1			X									10/21	0740									X
32938	Williams SB-2 10-12'	1			X										0804									X
32939	Williams SB-3 10-12'	1			X										0830									X

Relinquished by:	Date:	Time:	Received by:
[signature]	23 OCT 00	1408	J McMurray
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS: Rec 1°C

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

COC #264

3 of 4

Project Manager: JESSE TAYLOR

Phone #: 397-4882

FAX #: 397-4701

Company Name & Address: ETGI 2540 W. MARLAND HOBBS NM 88240

Project #: YPC 2200A

Project Name: YATES PET

Project Location: ARTESIA NM

Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH ~~418.1~~ 8015 GRO/DRO	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	CHLORIDES
32940	Williams SB-4 17-19'	1			X						X			10/21	0911									X
32941	Williams SB-5 10-12'	1			X										0936	X	X							X
32942	Williams SB-5 17-19	1			X										0950									X
32943	Williams SB-5 24-26	1			X										1025									X
32944	Williams SB-5 30'	4		X					X						1052	X	X							X
32945	Scripp SB-1 185-205	1			X										1240									X
32946	Scripp SB-2 9-10'	1			X										1357									X
32947	Scripp SB-2 30-33'	1			X										1430	X	X							X
32948	Scripp SB-2 35-37'	1			X										1450									X
32949	Scripp SB-2 39-41'	1			X										1530									X
32950	Scripp SB-2 40'	4		X					X						1615	X	X							X

Relinquished by:	Date:	Time:	Received by:
	23 oct 06	1405	
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS: Rec 10C

Nov 02 00 05:10p

p.5

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

COC # 264

Project Manager: Jesse Taylor

Phone #: 397-4852

FAX #: 397-4701

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

Project #: YPC-2200 D

Project Name: Yates Pet.

Project Location: Artesia, NM

Sampler Signature:

ANALYSIS REQUEST

4 of 4

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	Chlorides
32951	Williams Background	1	4oz	X							X			10/21	0745									X
32952	Scrapp Background	1	4oz	X							X			10/21	1250									X

Relinquished by:	Date:	Time:	Received by:
Glen Dutton	23 Oct 00	1705	
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS

Rec 1°C

APPENDIX C

New Mexico Office of the State Engineer

Well Reports and Downloads

Township: 18S Range: 26E Sections: 23

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

POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM_Zone	Easting	Northing	I
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	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	X	Y
RA 01296 CLW	18S	26E	23	1	3	2			

Driller Licence:	28 SMITH, A.F.		
Driller Name:		Source:	Shallow
Drill Start Date:	03/16/1954	Drill Finish Date:	03/18/1954
Log File Date:	04/12/1954	PCW Received Date:	10/05/1955
Pump Type:	TURBIN	Pipe Discharge Size:	
Casing Size:		Estimated Yield:	
Depth Well:	150	Depth Water:	35

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 COR	18S	26E	23	3	1	1			

Driller Licence:

Driller Name: D. N. GRAY

Source: Shallow

Drill Start Date:

Drill Finish Date: 04/01/1943

Log File Date:

PCW Received Date: 08/28/1944

Pump Type: TURBIN

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 150

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
Source:
Drill Start Date: 09/24/1935
Drill Finish Date: 10/01/1935
Log File Date: 02/10/1959
PCW Received Date:
Pump Type:
Pipe Discharge Size:
Casing Size:
Estimated Yield:
Depth Well: 212
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	Source:	
Drill Start Date:	03/01/1939	Drill Finish Date:	03/30/1939
Log File Date:	02/10/1959	PCW Received Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:		Estimated Yield:	
Depth Well:		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	Tws	Rng	Sec	q	q	q	Zone	X	Y
RA 01296 SUP 2	18S	26E	23	1	1	3			

Driller Licence:
Driller Name: DAVE GRAY
Source: Shallow
Drill Start Date:
Drill Finish Date: 02/01/1948
Log File Date:
PCW Received Date: 08/12/1948
Pump Type: ROTARY
Pipe Discharge Size:
Casing Size:
Estimated Yield:
Depth Well: 135
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 (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 02132 CLW-2	Shallow	18S	26E	23	2 1 1				13	560798	3622405	32 4

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
Drill Start Date:
Log File Date:
Pump Type: TURBIN
Casing Size:
Depth Well: 200

Source: Shallow
Drill Finish Date: 01/08/1955
PCW Received Date: 08/15/1955
Pipe Discharge Size:
Estimated Yield:
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 (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 05344	Shallow	18S	25E	26	4	4	0				13	551687	3619460	32	4
RA 05344 (1A)		18S	25E	35	0	0	0				13	551065	3618474	32	4
RA 05344 (1)		18S	25E	26	3	4	3				13	550782	3619349	32	4
RA 05344 (1B)		18S	26E	27	3	0	0				13	558699	3619680	32	4
RA 05344 (1C)		18S	26E	23	4	4	0				13	560501	3620690	32	4
RA 05344 (1D)		18S	25E	35	0	0	0				13	551065	3618474	32	4
RA 05344 (2)		18S	25E	35	0	0	0				13	551065	3618474	32	4
RA 05344 (2A)		18S	26E	31	3	0	0				13	553894	3618066	32	4
RA 05344 (2B)		18S	25E	34	0	0	0				13	549450	3618477	32	4
RA 05344 (2C)		18S	25E	34	0	0	0				13	549450	3618477	32	4
RA 05344 (3)		18S	25E	23	0	0	0				13	551075	3621665	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
		00									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:
Driller Name: Source:
Drill Start Date: Drill Finish Date:
Log File Date: PCW Received Date:
Pump Type: Pipe Discharge Size:
Casing Size: Estimated Yield:
Depth Well: Depth Water:

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	(acre ft per annum) Diversion	Owner	Well Number	Tws	Rng	Sec	q	q	q	X Y are Zone
RA 02132	IRR	3	TERRY & JAMIE MARIE SANDERS	RA 02132	18S	26E	24	2	4	1	
				RA 02132 B	18S	26E	24	1	4	2	
				RA 02132 B REPAR	18S	26E	24	1	2	3	
				RA 02132 BS	18S	26E	24	1	2	2	
				RA 02132 CLW	18S	26E	24	1	4	1	
				RA 02132 REPAR	18S	26E	24	2	4	1	
RA 02132 B-2	PRO		ANOCO PROD. CO.	RA 02132 B-2 REPAR	18S	26E	24	1	2	3	
RA 03409 REPAR	DOM	3	SANDERS TERRY	RA 03409 REPAR	18S	26E	24	2	4	2	
RA 03900	DOM	3	PAUL & JOHNNIE ROGERS	RA 03900	18S	26E	24	1	3	1	

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 (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 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

Trn_nbr: 107254 **Trn_desc:** CONVERSION RA 02132 **File Date:** 05/05/1958

Primary status: ADJ Adjudicated
Secondary status: ADJ
Person assigned:
Applicant: R.G. GOODEN
Applicant: TERRY & JAMIE MARIE SANDERS

Events

Date	Type	Description	Comment	Processed By
05/05/1958	CNV	Converted from Main Frame		informix Ortega, Mercedes

DB_File_Nbr	Acres	Diversion	Consumptive	Purpose of Use
RA 02132	4.7	3		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 02132	18S	26E	24	2	4	1			

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

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	X	Y
RA 02132 B REPAR	18S	26E	24	1	2	3			

Driller Licence: 28 SMITH, A.F.
Driller Name: A.F. SMITH
Source: Shallow
Drill Start Date: 12/03/1953
Drill Finish Date: 12/04/1953
Log File Date: 12/23/1953
PCW Received Date: 02/08/1955
Pump Type:
Pipe Discharge Size:
Casing Size:
Estimated Yield:
Depth Well: 140
Depth Water: 27

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 BS	18S	26E	24	1	2	2			

Driller Licence:			
Driller Name:		Source:	Shallow
Drill Start Date:		Drill Finish Date:	01/01/1938
Log File Date:		PCW Received Date:	02/08/1955
Pump Type:	TURBIN	Pipe Discharge Size:	
Casing Size:		Estimated Yield:	
Depth Well:	105	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 CLW	18S	26E	24	1	4	1			

Driller Licence:
Driller Name: D.N. GRAY
Source: Shallow
Drill Start Date: 12/06/1952
Drill Finish Date: 12/17/1952
Log File Date: 01/06/1953
PCW Received Date:
Pump Type:
Pipe Discharge Size:
Casing Size:
Estimated Yield:
Depth Well: 166
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 (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 02132 B-2 REPAR	Shallow	18S	26E	24	1 2 3				13	562000	3622207	32 4

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 B-2 REPAR	18S	26E	24	1	2	3			

Driller Licence: 28 SMITH, A.F.
Driller Name: A.F. SMITH
Drill Start Date: 12/08/1953
Log File Date: 01/11/1954
Pump Type: TURBIN
Casing Size:
Depth Well: 105

Source: Shallow
Drill Finish Date: 12/10/1953
PCW Received Date: 02/08/1955
Pipe Discharge Size:
Estimated Yield:
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	CONVERSION	RA 034 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 03409 REPAR	Shallow	18S	26E	24	2 4 2				13	563004	3622005	32 4

New Mexico Office of the State Engineer

Point of Diversion Summary

Back

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
RA 03409 REPAR	18S	26E	24	2	4	2			

Driller Licence:	28 SMITH, A.F.		
Driller Name:		Source:	Shallow
Drill Start Date:	02/13/1956	Drill Finish Date:	02/21/1956
Log File Date:	02/27/1956	PCW Received Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:		Estimated Yield:	
Depth Well:	175	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	Tws	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

Back

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

Driller Licence: 28 SMITH, A.F.
Driller Name:
Source: Artesian
Drill Start Date: 07/17/1958
Drill Finish Date: 08/08/1958
Log File Date: 08/11/1958
PCW Received Date:
Pump Type:
Pipe Discharge Size:
Casing Size:
Estimated Yield:
Depth Well: 845
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

DB File Nbr	Use	Diversion (acre ft per annum)	Owner	Well Number	Tws	Rng	Sec	q q q (quarters are biggest to smallest)	X	Y	Zone (X Y are)

No Records found, try again

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

DB File Nbr	Use	Diversion (acre ft per annum)	Owner	Well Number (quarters are biggest to smallest)	Tws	Rng	Sec	q	q	q	X Y are 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	3		
RA 07242 EXPL	OBS		HUBERT C. GREEN	RA 07242 EXPL	18S	26E	26	4	3		
RA 07243 -EXPL	DOM	3	HUBERT C. GREEN	RA 07243 -EXPL	18S	26E	26	4	3		
RA 07243 EXPL	DOM	3	HUBERT C. GREEN	RA 07243 EXPL	18S	26E	26	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 (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 01881		18S	26E	26	3	3	0				13	560105	3619478	32 4

New Mexico Office of the State Engineer

Point of Diversion Summary

Back

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
RA 01881	18S	26E	26	3	3	0			

Driller Licence:

Driller Name: Source:

Drill Start Date: Drill Finish Date:

Log File Date: PCW Received Date:

Pump Type: Pipe Discharge Size:

Casing Size: Estimated Yield:

Depth Well: 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 (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 07242 -EXPL	Shallow	18S	26E	26	4	3					13	560908	3619479	32 4

New Mexico Office of the State Engineer

Point of Diversion Summary

Back

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:	
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

Back

DB File Nbr: RA 07242 EXPL
Primary Purpose: OBS OBSERVATION
Primary Status: PMT Permit
Total Acres:
Total Diversion:
Owner: HUBERT C. GREEN

Documents on File

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

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 07242 EXPL	Shallow	18S	26E	26	4	3					13	560908	3619479	32 4

New Mexico Office of the State Engineer

Point of Diversion Summary

Back

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:		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

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 (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

Back

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 (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

Back

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:		**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

APPENDIX D

S	REF_NO	REF_SUF	OWNERSHIP	DEPTH	WBF	DATECLTD	CLTR	USE	LOCATION	LSELEV	PT_CLTR	CHLORIDES	CONDUCT	TDS	TEMP	ADD_DATA	CARD_DATE	SOURCE	DPN	N
#				1099	PSA	73/04/26	SED	IRR	18S.26E.21.2233113	3356.00	DP	27	0	0	75		0482		15-10132	0
				1099	PSA	73/09/05	SED	IRR	18S.26E.21.2233113	3356.00	DP	253	2985	0	0		0482		15-10132	0
				1099	PSA	74/03/27	SED	IRR	18S.26E.21.2233113	3356.00	DP	248	2967	0	75		0482		15-10132	0
				1099	PSA	74/08/08	USG	IRR	18S.26E.21.2233113	3356.00	DP	252	2907	0	75		0385	U	15-10132	0
				1099	PSA	78/07/26	SED	IRR	18S.26E.21.2233113	3356.00	DP	254	2970	0	0		0186		15-10132	0
	01305			0	PGR	26/05/21	USG	IRR	18S.26E.21.22333	0.00	DP	620	0	0	74	X	PLUG	U		0
	01305			0	PGR	39/02/06	USG	IRR	18S.26E.21.22333	0.00	DP	482	3640	0	0	X	PLUG	U		0
				0	PGR	59/03/11	SED	OIL	18S.26E.22.211	0.00	BISFIT	127000	214000	0	0		0482	U		0
				0	DAL	78/06/30	SED	IRR	19S.26E.23.10121	0.00	DP	520	0	0	0		0186			0
	01618			162	DAL	28/05/21	USG	IRR	18S.26E.23.21332	3314.00	DP	408	0	0	64	X	PLUG	U	15-71050	0
	00112			162	DAL	39/02/06	USG	IRR	18S.26E.23.21332	3314.00	DP	425	3830	0	0	X	PLUG	U	15-71050	0
	00112			162	DAL	40/07/23	USG	IRR	18S.26E.23.21332	3314.00	DP	402	3710	0	0	X	PLUG	U	15-71050	0
				0	PSA	57/04/23	DLR	OIL	18S.26E.23.22134	0.00	RLIBBR	******	178000	0	0		0584	U		0
				0	DAL	65/09/15	SED	IRR	18S.26E.24.12111	0.00	DP	650	6009	0	66		1185			
				0	PGR	69/03/12	SED	OIL	18S.26E.24.334	0.00	TANK	70500	124000	0	0		0482	U		
	01683			744	PGR	64/03/25	SED	IRR	18S.26E.27.433333	3352.00	DP	20	1370	0	74		0482		15-10137	
	01683			744	PGR	64/08/06	SED	IRR	18S.26E.27.433333	3352.00	DP	20	1350	0	73		0482		15-10137	
	01683			744	PGR	65/03/30	SED	IRR	18S.26E.27.433333	3352.00	DP	11	1340	0	73		0482		15-10137	
	01683			744	PGR	65/09/09	SED	IRR	18S.26E.27.433333	3352.00	DP	19	1430	0	73		0482		15-10137	
	01683			744	PGR	69/09/02	SED	IRR	18S.26E.27.433333	3352.00	DP	17	1926	0	72		0482		15-10137	
	01683			744	PGR	73/09/05	SED	IRR	18S.26E.27.433333	3352.00	DP	27	2329	0	0		0482		15-10137	
	01683			744	PGR	74/03/27	SED	IRR	18S.26E.27.433333	3352.00	DP	12	2097	0	72		0482		15-10137	
	01683			744	PGR	70/08/27	SED	IRR	18S.26E.27.433333	3352.00	DP	13	1879	0	72		0482		15-10137	
	01683			744	PGR	72/04/18	SED	IRR	18S.26E.27.433333	3352.00	DP	15	2100	0	72		0482		15-10137	
	01683			744	PGR	73/04/04	SED	IRR	18S.26E.27.433333	3352.00	DP	17	2004	0	72		0482		15-10137	
	01683			744	PGR	70/04/13	SED	IRR	18S.26E.27.433333	3352.00	DP	17	2026	0	71		0482		15-10137	
	01683			744	PGR	71/04/26	SED	IRR	18S.26E.27.433333	3352.00	DP	18	2041	0	71		0482		15-10137	
	01683			744	PGR	74/08/05	USG	IRR	18S.26E.27.433333	3352.00	DP	36	1657	0	74		0385	U	15-10137	
	01683			744	PGR	78/08/14	SED	IRR	18S.26E.27.433333	3352.00	DP	27	2440	0	0		0186		15-10137	
			JURNEY H L	160	DAL	93/08/10	SED	DOM	18S.26E.28.444432	3378.00	YT	166	1520	0	0		0694		15-10140	
				152	DAL	70/08/20	USG	STK	18S.26E.32.11100	3421.00	DP	30	1050	0	82		0285		15-10141	
				152	DAL	74/08/05	USG	STK	18S.26E.32.11100	3421.00	DP	26	919	0	82		0285	U	15-10141	
				152	DAL	78/07/27	SED	STK	18S.26E.32.11100	3421.00	DP	24	0	0	0		0186		15-10141	
				152	DAL	85/08/29	SED	STK	18S.26E.32.11100	3421.00	DP	25	992	0	68		0187		15-10141	
				152	DAL	88/10/13	SED	STK	18S.26E.32.11100	3421.00	DP	31	1069	0	67		1088		15-10141	
			KINCAID K E	152	DAL	93/08/10	SED	STK	18S.26E.32.11100	3421.00	DP	96	960	0	0		0694			
				0	DAL	70/08/20	USG	IRR	18S.26E.33.13413	0.00	DP	130	1680	0	72		0285			
				0	DAL	74/08/05	USG	IRR	18S.26E.33.13413	0.00	DP	108	1702	0	68		0385	U		
				0	DAL	78/07/26	SED	IRR	18S.26E.33.13413	0.00	DP	102	0	0	0		0186			
				0	DAL	85/09/04	SED	IRR	18S.26E.33.13413	0.00	DP	104	1760	0	67		1185			
				0	PAT	59/10/28	SED	OIL	18S.26E.33.21100	0.00	DTH	0	18870	0	0		0483			
	00049			671	PGR	58/08/12	USG	IRR	18S.26E.34.313244	3356.00	DP	16	1380	0	73		0585	U	15-10143	
	00049			671	PGR	58/09/09	USG	IRR	18S.26E.34.313244	3356.00	DP	14	1390	0	71		0585	U	15-10143	
	00049			671	PGR	59/01/21	USG	IRR	18S.26E.34.313244	3356.00	DP	15	1310	0	0		0585	U	15-10143	
	00049			671	PGR	59/03/03	USG	IRR	18S.26E.34.313244	3356.00	DP	15	1340	0	0		0585	U	15-10143	