

3R - 196

# REPORTS

DATE:

1999



**Certified Mail:** #Z 213 707 666 (Box 1 of 2)  
#Z 213 707 664 (Box 2 of 2)

March 24, 2000

Mr. William C. Olson  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87504

**RECEIVED**

MAR 23 2000

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 1999 Pit Project Annual Groundwater Report**

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 32 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports, EPFS hereby requests closure of 4 of these locations. The 4 sites EPFS is requesting closure on are presented in one separate binder entitled "San Juan Basin Pit Closures, El Paso Field Services, Pit Closure Reports".

The Jaquez Com. C #1 and Jaquez Com. E #1 site is included in a separate report which is entitled "Jaquez Com. C #1 and Jaquez Com. E #1 Annual Report for Soil and Groundwater Remediation".

EPFS has also included for your information five Navajo sites in a separate binder and a separate report for the Bisti Flare Pit #1.

If you have any questions concerning the enclosed reports or closure requests, please call me at (505) 599-2124.

Sincerely,

A handwritten signature in black ink that reads "Scott T. Pope".

Scott T. Pope P.G.  
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # Z 213 707 667**  
Mr. Bill Liesse, BLM - w / enclosures; **Certified Mail # Z 213 707 668**  
Mr. John Jaquez, - w / Jaquez enclosures; **Certified Mail # Z 213 707 669**  
Ms. Charmaine Tso, Navajo EPA - w / enclosures; **Certified Mail # Z 213 707 670**

bc: J. A. Lambdin w / enclosures

Philip Services Corp. – Cecil Irby, w / o enclosures

B. B. McDaniel / 24321 – NMOCD Regulatory w / o

**SAN JUAN BASIN PIT CLOSURES**  
**San Juan Basin, New Mexico**

**El Paso Field Services Pit Project Groundwater Report**  
**Annual Report**

**March 2000**

**RECEIVED**

**MAR 29 2000**

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**Prepared For**

**El Paso Field Services**  
**Farmington, New Mexico**

**Project 62800158**



# **EPFS GROUNDWATER PITS 1999 ANNUAL GROUNDWATER REPORT**

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**JAMES F BELL # 1E**  
**Meter/Line ID - 94715**

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## **SITE DETAILS**

**Legals - Twn: 30N      Rng: 13W      Sec: 10      Unit: P**  
**NMOCD Hazard Ranking: 40      Land Type: FEDERAL**  
**Operator: AMOCO PRODUCTION COMPANY**

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## **PREVIOUS ACTIVITIES**

**Site Assessment: Mar-94      Excavation: Apr-94 (0 cy)      Soil Boring: Oct-95**  
**Monitor Well: Oct-95      Down-gradient MW's: Nov-95      PSH Removal Initiated: Jul-97**  
**Additional Monitor Wells: June-99**

## **1999 ACTIVITIES**

**Phase Separated Hydrocarbon (PSH) Removal** - PSH removal from MW-1 continued through 1999.

**Monitor Well Installation** - The groundwater gradient was estimated based on topography and additional wells were drilled as requested in OCD correspondence dated July 28, 1999. Attempts to install additional monitoring wells failed however as none of the borings would make water. The locations of the "dry holes" are identified on Figure 3.

## **SUMMARY TABLES**

Groundwater level and PSH recovery data are presented in Table 2.

## **SITE MAP**

A site map is included as Figure 1 and groundwater gradient maps for June and October of 1999 are included as Figures 2 and 3.

## **GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS**

The geologic logs are presented as Attachment 1. Well completion diagrams are not included with this report because the wells were not completed.

## **DISPOSITION OF GENERATED WASTES**

The phase separated hydrocarbons removed from MW-1 and MW-3 were disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

## **ISOCONCENTRATION MAPS**

With the presence of phase separated hydrocarbons at this site, isoconcentration maps were not generated.

## **CONCLUSIONS**

A total of 386.14 gallons of PSH have been removed from MW-1 to date. Approximately 1.5 gallons of PSH has been removed from MW-3 during two months when the pump system was moved to that well to see if any volume of PSH could be extracted. A total of 80 gallons of PSH

## **EPFS GROUNDWATER PITS 1999 ANNUAL GROUNDWATER REPORT**

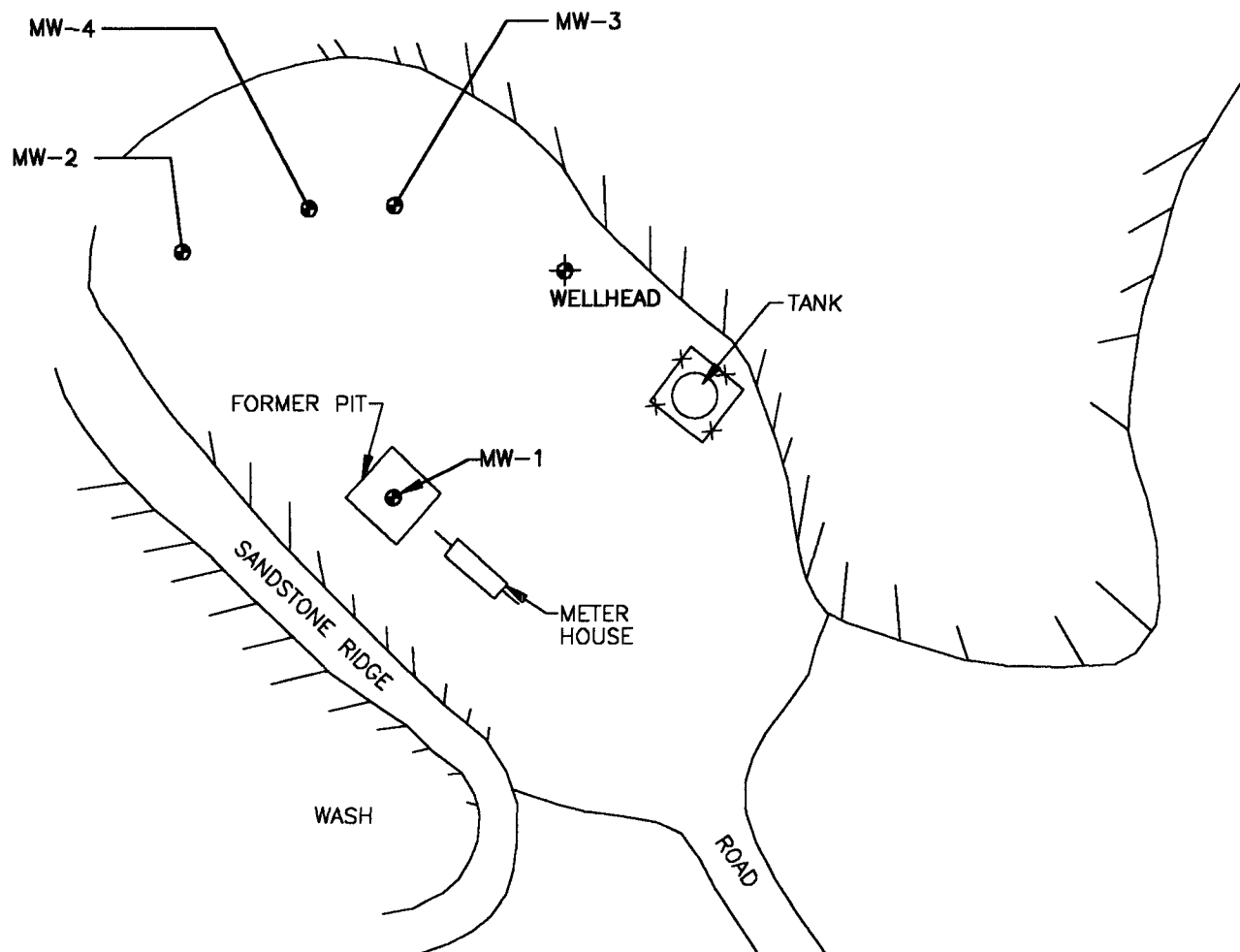
was removed from MW-1 in 1999. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

The northeastern edge of the site was drilled and two borings were drilled to a total depth of over 30 feet (Figure 3). Both of the borings resulted in dry holes, which confirms information collected in the past and described below that assumes the aquifer is a very localized perched zone.

Pertinent data from past groundwater reports include the following: Based on groundwater levels collected from the four monitoring wells, the groundwater flow trends to the south and the west on this site. Two down-gradient wells (MW-2 and MW-4) have been below standards for BTEX since quarterly sampling was initiated. PSH has been measured in MW-1 and MW-3 since quarterly sampling was initiated. No groundwater was encountered at three soil borings drilled on site, indicating a local perched aquifer. The three dry borings were drilled on the northwestern, southeastern, and southwestern edge of the well pad.

### **RECOMMENDATIONS**

- Continue product removal at MW-1 and MW-3 as needed.
- Collect water samples annually until BTEX levels are below New Mexico Groundwater Standards, then sample quarterly for closure.
- Collect static water level data quarterly.
- Following OCD approval for closure, all monitor wells will be abandoned using OCD approved abandonment procedures.



# LEGEND

● MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION

NOT TO SCALE



COL 17520AF-004

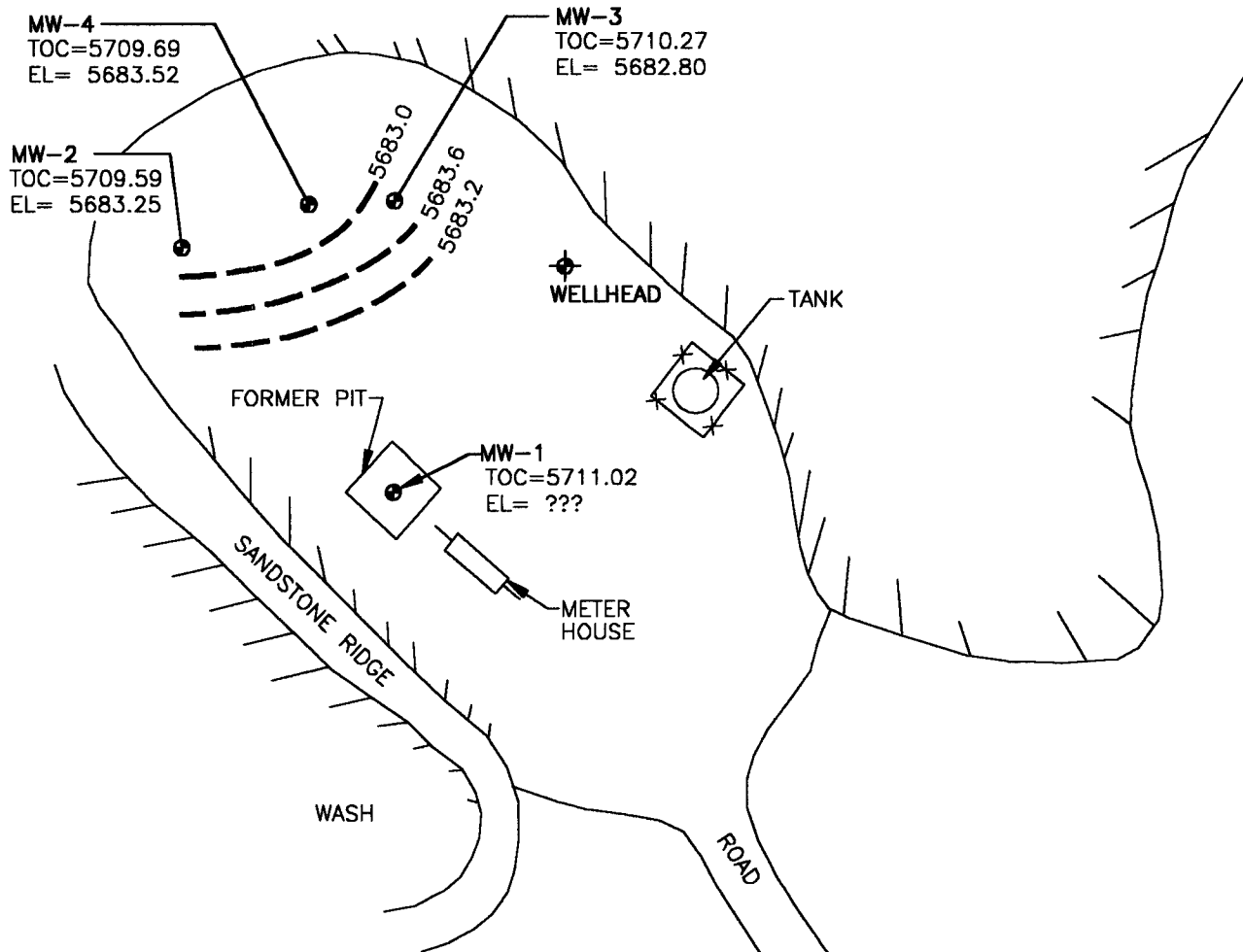


TITLE:  
J.F. BELL #1E  
METER 94715  
JUNE 9, 1999

DWN: CJG	DES.: CC
CHKD: CC	APPD:
DATE: 03/13/00	REV.: 0

PROJECT NO.: 17520  
EPFS GW PITS

FIGURE 1



## LEGEND

- MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- DRY BORING
- TOC TOP OF CASING ELEVATION
- EL GROUNDWATER ELEVATION
- 74.5 GROUNDWATER CONTOUR ELEVATION SURFACE
- ➔ APPROXIMATE GROUNDWATER GRADIENT

NOT TO SCALE



COL 1752DAF-004



TITLE:  
J.F. BELL #1E  
METER 94715  
JUNE 9, 1999

DWN:  
CJG  
CHKD:  
CC  
DATE:  
03/14/00

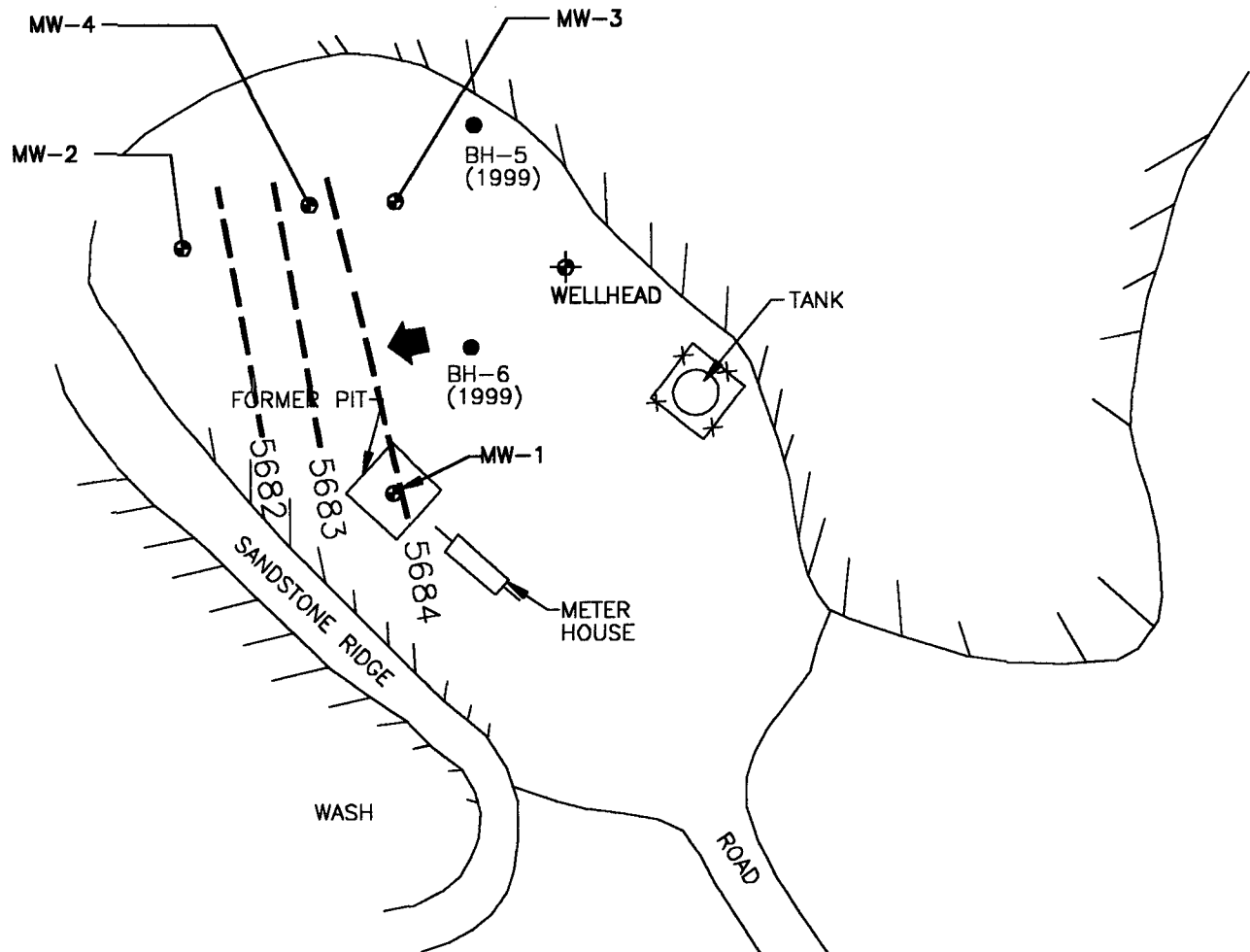
DES.:  
CC  
APPD:  
REV.:  
0

PROJECT NO.: 17520  
EPFS GW PITS

FIGURE 2



MW-3 WAS PUMPED DRY  
DURING THESE MEASUREMENTS.



## LEGEND

- MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- DRY BORING
- TOC TOP OF CASING ELEVATION
- EL GROUNDWATER ELEVATION
- 74.5 GROUNDWATER CONTOUR ELEVATION SURFACE
- ➔ APPROXIMATE GROUNDWATER GRADIENT
- EL=??? ELEVATION NOT MEASURED, PUMPING WELL

NOT TO SCALE



COL 17520AF-003



TITLE:  
J.F. BELL #1E  
METER 94715  
OCTOBER 01, 1999

DWN: CJG	DES.: CC
CHKD: CC	APPD:
DATE: 03/14/00	REV.: 0

PROJECT NO.: 17520  
EPFS GW PITS

FIGURE 3

TABLE 2

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed Gallons	Cumulative Gallons
94715	J.F. BELL #1E	02/17/99	1	26.81	27.10	0.30	0.00	306.14
94715	J.F. BELL #1E	06/17/99	1	27.10	27.30	0.20	0.00	306.14
94715	J.F. BELL #1E	10/01/99	1	26.66	28.19	1.53	0.00	306.14
94715	J.F. BELL #1E	12/08/99	1	27.01	27.73	0.72	0.00	306.14
94715	J.F. BELL #1E	02/17/99	3	26.97	28.01	0.00	0.00	0.00
94715	J.F. BELL #1E	04/30/99	3	27.06	28.34	1.28	0.00	0.00
94715	J.F. BELL #1E	06/09/99	3	27.06	28.39	1.33	0.00	0.00
94715	J.F. BELL #1E	06/17/99	3	27.11	28.45	1.34	0.00	0.00
94715	J.F. BELL #1E	10/01/99	3	0.00	0.00	0.00	0.00	0.00
94715	J.F. BELL #1E		Drum				80.00	386.14

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**ATTACHMENT 1**  
**MONITOR WELL INSTULATION**

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# RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # 5

Well #       

Page 1 of 1

Project Name EPFS GW INV

Project Number 20920 Phase       

Project Location JF Bell #1E

Well Logged By C. Irby

Personnel On-Site       

Contractors On-Site       

Client Personnel On-Site       

Drilling Method       

Air Monitoring Method       

Elevation         
 Borehole Location         
 GWL Depth         
 Logged By C. Irby / P. Cheney  
 Drilled By K. Padilla  
 Date/Time Started 9:20 AM 6-16-99  
 Date/Time Completed Not Completed

Depth (Feet)	Sample Interval	Sample Type & Recovery (Inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU			Drilling Conditions & Blow Counts
						BZ	BH	S	
0			Cuttings - Tan F/med grn Sand			0			
5			split spoon sampling						
12		12"	Tan, unconsolidated, VF-F Grnd poorly sorted. w/ 1/4" stringer of clayey sand.						40 blows Head space sample/PID 0 ppm
10		12"	White-yellow mottled (iron stained) VF-F Grn clean sand, with some small size chert		Hard Drilling	0			0 ppm
15		6"	Drilled Thru 2-4" Layer of gravel of silica cemented ss - a9b		Very Hard Drilling (change Tools) on Rig				0 ppm 60 Blows very hard 0 ppm
20			a4b. very hard Drilling 11:55 Broke Stringer						
25			6/16 - advance borings to 30' w/ 1/4" augers. Gray shale, dry at 30'. Move to new location.						
30			Paul Chung 6/16/99						
35									
40									

Comments:

Dry Well.

Geologist Signature

# RECORD OF SUBSURFACE EXPLORATION

Philip Services Corporation

4000 Monroe Road  
Farmington, New Mexico 87401  
(505) 326-2262 FAX (505) 326-2388

Well # 6  
MW-5 NOT Completed  
Page 1 of 21

Project Name EPFS GW Inv  
Project Number 20734 Phase 0002  
Project Location J.F. Bell #1 E

Elevation  
Borehole Location 1-1 S 2 T 30N R 2W  
GWL Depth  
Logged By f. cheney  
Drilled By K. Padilla  
Date Started 6/16/99 1040 AM  
Date Completed NOT COMPLETED

On-Site Geologist P. Cheney  
Personnel On-Site K. Padilla, D. Padilla, P. Cheney  
Contractors On-Site  
Client Personnel On-Site R. Burtham  
Drilling Method 4 1/4 ID HSA, then over drill with 10" od.  
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH S			Drilling Conditions & Blow Counts
0										
5	1	5-7	3'	Tan medium grained ss with chert nodules Dry			0.0		0.0	BC = 50 (3") S/Hs = 0.0
10	2	10-12	6"	Tan coarse grained, well cemented ss Dry			0.0	0.0	0.0	BC = 50 (6") S/Hs = 2.2
15	3	15-17	6"	tan to very light gray coarse grained ss. Grains are ~ 50% quartz			0.0		0.0	BC = 50 (6") S/Hs = 1.5
20	4	20-22	8"	light reddish brown medium grained ss. odor			0.0		161	BC = 50 (8") S/Hs = 155
25	5	25-27	12"	Dark gray gray, hard, dry, low plasticity			0.0		32	BC = 50 (12") S/Hs = 54.4
30	6	30-32		Same as above			0.0		46	BC = 50 S/Hs = 7.7
35										
40										

Comments: will pull augers up 5' and leave overnight

DRY Well.

Geologist Signature



FEB 22 2000

OIL CONSERVATION DIVISION

**Certified Mail: #Z 213 707 662**

February 17, 2000

Mr. William C. Olson  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87504

RE: Corrected Request for Extension for 2000 Pit Project Annual Groundwater Report

Dear Mr. Olson:

Please except this request for extension with the dates corrected to reflect the current year.

The pit project annual groundwater report is due to you on March 1, 2000. Pursuant to our February 8, 2000 telephone conversation, El Paso Field Services (EPFS) hereby requests a one-month extension to the submittal date. EPFS will submit the pit project annual report to your office by April 3, 2000.

If you have any questions or require any additional information, please contact me at (505) 599-2124.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Scott T. Pope'.

Scott T. Pope P.G.  
Environmental Scientist

xc: Mr. Denny Foust, NMOCD - Aztec