

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

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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

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

SITE DETAILS

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

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

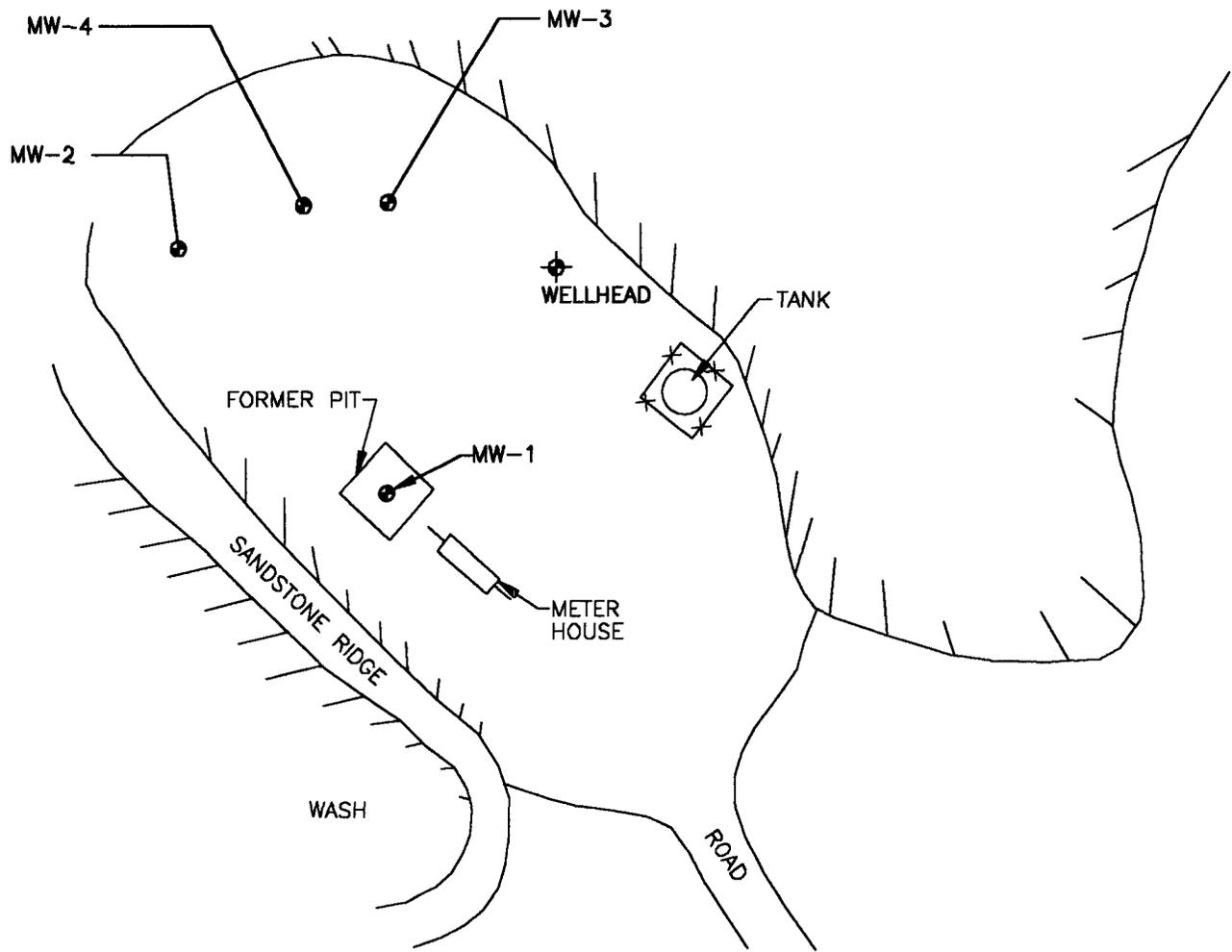
was removed from MW-1 in 1999. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

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

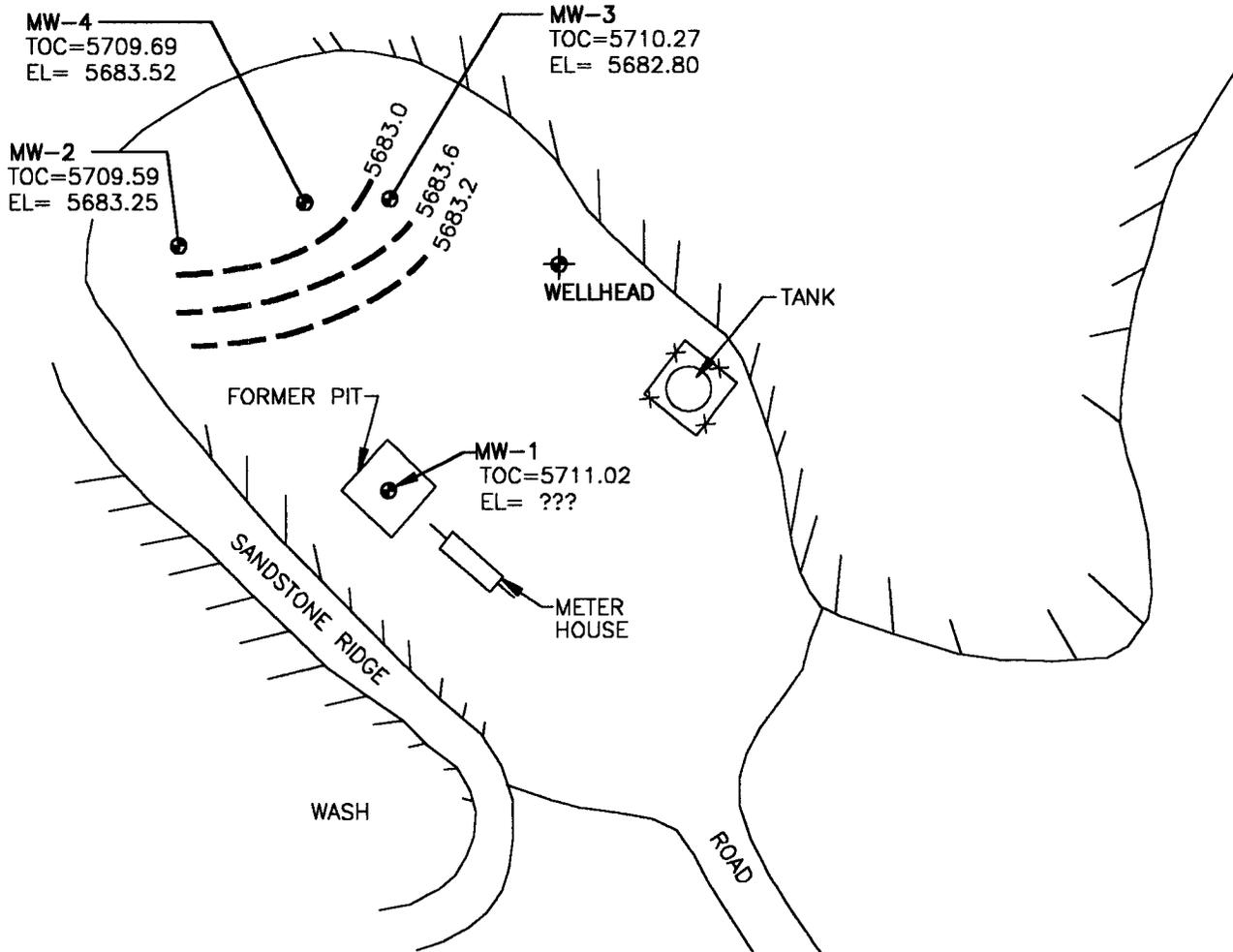
COL 17520AF-004



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

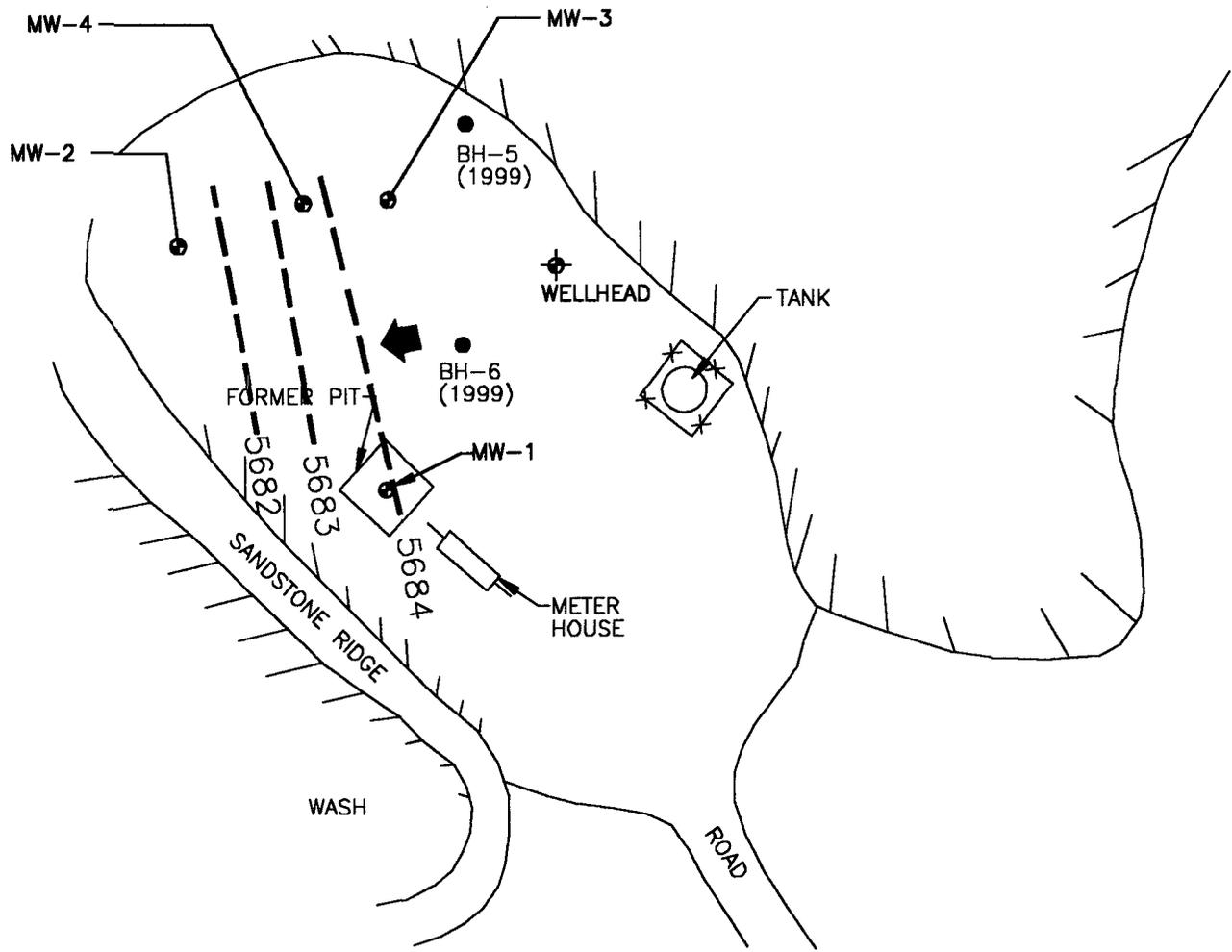


TITLE:
J.F. BELL #1E
METER 94715
JUNE 9, 1999

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

ATTACHMENT 1
MONITOR WELL INSTULATION

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 split spoon sampling			0			
5	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 gravel size chert		Hard Drilling	0			0 ppm
15	6"	Drilled thru 2-4" layer of gravel of size 5-6"	a9b		Very Hard Drilling (change Teets) on Rig				0 ppm 60 Blows very hard
20			a4b. very hard drilling 11:55 Broke stringer						0 ppm
25			6/16 - advance borings to 30' w/ 1/4" augers. Gray shale, dry at 30'. Move to new location.						
30			Paul Cheng 6/16/99						
35									
40									

Comments: Dry well.

Geologist Signature _____

RECORD OF SUBSURFACE EXPLORATION

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

Philip Services Corporation

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

Project Name EPFS GW INV
 Project Number 20784 Phase 0002
 Project Location J.F. Bell #1 E

Elevation _____
 Borehole Location L-1 S-2 T-30N R-04W
 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. Durfman

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			Drilling Conditions & Blow Counts
							BZ	BH	S	
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		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			0.6	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 that reads "Scott T. Pope".

Scott T. Pope P.G.
Environmental Scientist

xc: Mr. Denny Foust, NMOCD - Aztec