

**3R -** 196

# **REPORTS**

**DATE:**

1998



**Certified Mail: #Z 211 324 121**

March 31, 1999

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

RECEIVED

APR 05 1999

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 1998 Pit Project Annual Groundwater Report**

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 49 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 49 reports, EPFS hereby requests closure of 18 of these locations. The 18 sites EPFS is requesting closure on are presented in 4 separate binders entitled "Final Closure Report for Groundwater Sites with Four Consecutive Quarters Below Standards".

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".

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

Sincerely,

A handwritten signature in cursive script that reads 'Scott T. Pope'.

Scott T. Pope P.G.  
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # Z 211 324 122**  
Mr. Bill Liesse, BLM - w / enclosures; **Certified Mail # Z 211 324 123**  
Ms. Charmaine Tso, Navajo EPA - w / enclosures; **Certified Mail # Z 211 324 120**

# EPFS GROUNDWATER PITS 1998 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      ENVIRONMENTAL BUREAU  
NMOCD Hazard Ranking: 40      Land Type: FEDERAL OIL CONSERVATION DIVISION  
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

## 1998 ACTIVITIES

**Phase Separated Hydrocarbon (PSH) Removal** - PSH removal from MW-1 continued through 1998. Groundwater level and PSH recovery data are presented in Table 2. A site map is presented as Figure 1.

## CONCLUSIONS

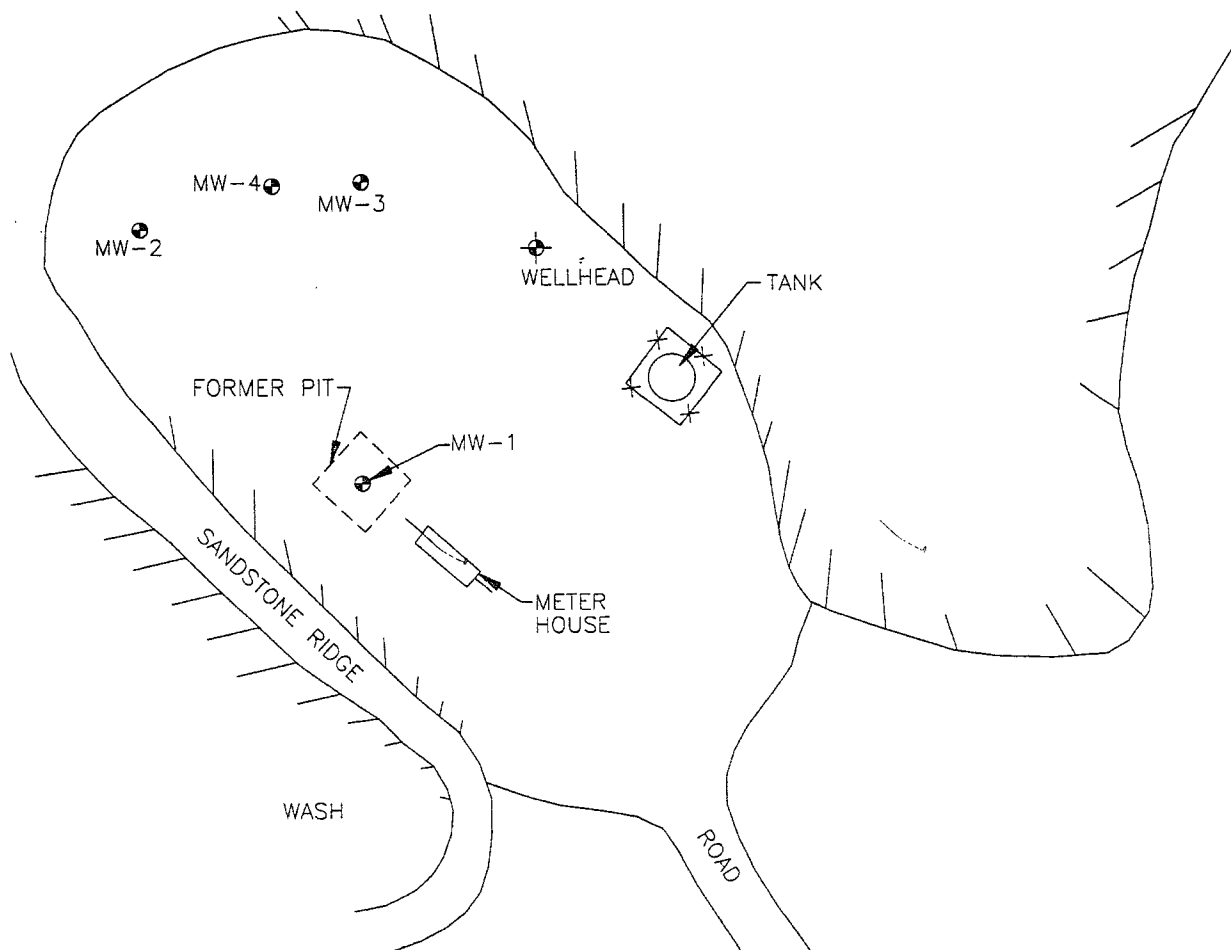
A total of 306.14 gallons of PSH have been removed from MW-1 to date. A total of 109.4 gallons of PSH was removed from MW-1 in 1998. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, NM.

Pertinent data from the 1997 groundwater report includes the following: Based on groundwater levels collected from the four monitoring wells, the groundwater flow trends to the north-northeast 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. The northeastern edge of the plume has not yet been defined and any additional work will require off-site permission.

## RECOMMENDATIONS

- Continue product removal at MW-1 and MW-3 as needed.
- Following removal of product, sample annually until BTEX levels are below New Mexico Groundwater Standards, then sample quarterly for closure.
- Obtain permission to conduct an off-site investigation, and collect groundwater samples further down-gradient of MW-3 to determine the northeastern extent of migration.
- Evaluate feasibility of air sparging pilot test.
- Install additional product recovery wells.
- EPFS will contact operator and provide pertinent site data regarding EPFS activities at the site.



# LEGEND

MW-1 APPROXIMATE MONITORING WELL LOCATION AND NUMBER

NOT TO SCALE



COL. 17520AF-002



TITLE:

J.F. BELL #1E  
METER 94715  
12/21/98

DWN:

TMM

DES.:

CC

PROJECT NO.:

17520

EPFS GW PITS

CHKD:

CC

APPD:

DATE:

2/18/99

REV.:

0

FIGURE 1

TABLE 2

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed	Cumulative
94715	J.F. Bell #1E	01/12/98	1	0.00	0.00	0.00	5.74	196.74
94715	J.F. Bell #1E	01/14/98	1	26.18	26.41	0.23	0.00	196.74
94715	J.F. Bell #1E	01/15/98	1	0.00	0.00	0.00	0.00	196.74
94715	J.F. Bell #1E	01/19/98	1	27.15	27.19	0.04	0.10	196.84
94715	J.F. Bell #1E	01/23/98	1	27.30	27.39	0.09	0.10	196.94
94715	J.F. Bell #1E	02/06/98	1	27.28	27.69	0.41	0.10	197.04
94715	J.F. Bell #1E	02/13/98	1	27.24	27.76	0.52	0.10	197.14
94715	J.F. Bell #1E	02/23/98	1	27.24	27.93	0.69	0.25	197.39
94715	J.F. Bell #1E	03/02/98	1	27.31	28.02	0.71	0.25	197.64
94715	J.F. Bell #1E	03/04/98	1	27.29	27.87	0.58	0.25	197.89
94715	J.F. Bell #1E	03/06/98	1	27.24	27.78	0.54	0.25	198.14
94715	J.F. Bell #1E	03/09/98	1	27.53	28.01	0.48	0.25	198.39
94715	J.F. Bell #1E	03/10/98	1	27.61	27.87	0.26	0.25	198.64
94715	J.F. Bell #1E	03/12/98	1	27.41	27.75	0.34	0.25	198.89
94715	J.F. Bell #1E	03/18/98	1	27.41	27.95	0.54	0.25	199.14
94715	J.F. Bell #1E	04/09/98	1	27.32	28.26	0.94	0.50	199.64
94715	J.F. Bell #1E	04/27/98	1	27.41	28.43	1.02	0.50	200.14
94715	J.F. Bell #1E	05/18/98	1	27.36	28.48	1.12	0.50	200.64
94715	J.F. Bell #1E	06/17/98	1	0.00	0.00	0.00	2.87	203.51
94715	J.F. Bell #1E	06/12/98	1	0.00	0.00	0.00	1.53	205.04
94715	J.F. Bell #1E	06/09/98	1	0.00	0.00	0.00	0.00	205.04
94715	J.F. Bell #1E	06/08/98	1	27.15	28.25	1.10	0.75	205.79
94715	J.F. Bell #1E	06/04/98	1	0.00	0.00	0.00	0.00	205.79
94715	J.F. Bell #1E	06/24/98	1	0.00	0.00	0.00	6.12	209.63
94715	J.F. Bell #1E	07/30/98	1	0.00	0.00	0.00	11.00	220.63
94715	J.F. Bell #1E	10/02/98	1	26.53	27.54	1.01	0.00	220.63
94715	J.F. Bell #1E	10/08/98	1	26.75	27.10	0.35	4.98	225.61

EPFS Groundwater Pits  
1998 Annual Groundwater Report

TABLE 2

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed	Cumulative
94715	J.F. Bell #1E	10/26/98	1	0.00	0.00	0.00	14.35	252.78
94715	J.F. Bell #1E	10/15/98	1		0.00	0.00	12.82	238.43
94715	J.F. Bell #1E	10/15/98	1	0.00	0.00	0.00	12.82	233.45
94715	J.F. Bell #1E	11/19/98	1	0.00	0.00	0.00	21.04	273.82
94715	J.F. Bell #1E	12/14/98	1	1.02	2.03	0.00	30.10	303.92
94715	J.F. Bell #1E	12/21/98	1	2.60	2.79	0.19	2.22	306.14