

3R - 170

**GENERAL  
CORRESPONDENCE**

**YEAR(S):**

2001-1997



Certified Mail: #7000 1670 0012 7260 6739

February 26, 2001

Mr. William C. Olson  
New Mexico Oil Conservation Division  
1220 St. Francis Dr.  
Santa Fe, NM 87504

RECEIVED

FEB 28 2001

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 2000 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 sites that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports (Volumes 1-4), EPFS hereby requests closure of six sites. The six 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". Four of the six sites were submitted in last years report and a decision has not been made on closure. The remaining two sites have been submitted in previous years and denied closure.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this years report and will be submitted by the required deadline of April 1, 2001

EPFS has also included for your information six Navajo sites in a separate binder.

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, appearing to read 'Scott T. Pope'.

Scott T. Pope P.G.  
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; Certified Mail # 7000 1670 0012 7260 6722  
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), Certified Mail # 7000 1670 0012 7260 6715

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

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

**March 2001**

**Prepared For**

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

**Project 62800398**



# EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT

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**FIELDS A #7A**  
**Meter/Line ID - 89961/97546**

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### SITE DETAILS

**Legals - Twn:** 32N      **Rng:** 11W      **Sec:** 34      **Unit:** E  
**NMOCD Hazard Ranking:** 40      **Land Type:** FEDERAL  
**Operator:** AMOCO PRODUCTION COMPANY

---

### PREVIOUS ACTIVITIES

**Site Assessment:** Aug-94      **Excavation:** Sep-94 (70 cy)      **Soil Boring:** Jul-95  
**Monitor Well:** Jul-95      **Additional MW's:** Dec-95      **PSH Removal Initiated:** Aug-97

### 2000 ACTIVITIES

**Phase Separated Hydrocarbon (PSH) Measurement** - PSH was measured in monitor wells MW-1 and MW-4 in October of 2000 and a product skimmer was installed on MW-1.

### SUMMARY TABLES

Groundwater and PSH level data are presented in Table 1.

### SITE MAP

A site map with groundwater elevation and the groundwater gradient is presented as Figure 1.

### GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site in 2000.

### DISPOSITION OF GENERATED WASTES

All PSH recovered was disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

### ISOCONCENTRATION MAPS

An isoconcentration map was not generated for this site.

### CONCLUSIONS

Product measurement in MW-1 was 1.38 feet in 2000. A product skimmer was installed in MW-1 and product will be removed weekly or as needed. Product levels in MW-2 remain at negligible levels in 2000. The groundwater gradient is to the south-southwest.

#### **Pertinent data from past groundwater reports include the following:**

Product removal was initiated at MW-1 on 8/26/97. Due to the presence of product in MW-1 and high dissolved phase in additional monitoring wells, quarterly sampling was discontinued as of 4/21/97.

# EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT

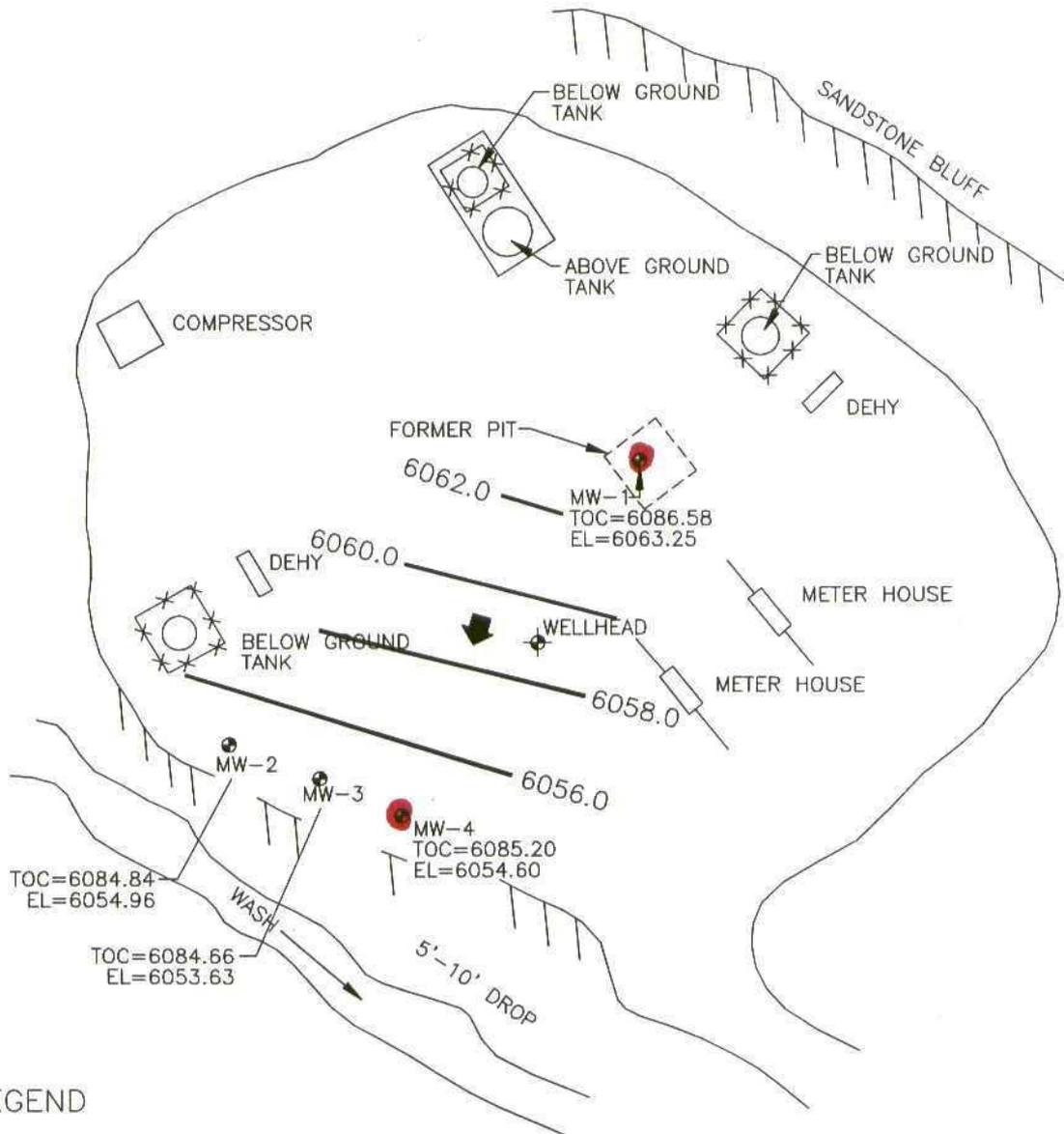
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## RECOMMENDATIONS

- Continue product removal at MW-1 and MW-4 as needed.
- Collect groundwater samples annually when PSH are not present until BTEX levels are below NMWQCC Standards, then water sample quarterly for closure.
- Collect static water level data when sampling.
- Following OCD approval for closure, all monitor wells will be abandoned using OCD approved abandonment procedures.

Table 1

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed Gallons	Cumulative Gallons
89961	FIELDS A #7A	10/04/2000	1	28.34	29.72	1.38	0	0
89961	FIELDS A #7A	10/04/2000	2	0	29.88	0	0	0
89961	FIELDS A #7A	10/04/2000	3	0	30.03	0	0	0
89961	FIELDS A #7A	10/04/2000	4	30.53	30.76	0.23	0	0



**LEGEND**

- MW-1 APPROXIMATE MONITORING WELL LOCATION AND NUMBER
- TOC TOP OF CASING ELEVATION
- EL GROUNDWATER ELEVATION
- GROUNDWATER GRADIENT
- 6060 GROUNDWATER POTENTIOMETRIC SURFACE



COL. 528\00219K-006



TITLE:  
 FIELDS A #7A  
 METER 89961/97546  
 OCTOBER 4, 2000

DWN: TMM	DES.: LW
CHKD: LW	APPD: MN
DATE: 1/31/01	REV.: 0

PROJECT NO.: 62800219  
 EPFS GW PITS

FIGURE 1



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 25 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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**FIELDS A #7A**  
**Meter/Line ID - 89961/97546**

---

## SITE DETAILS

Legals - Twn: 32N      Rng: 11W      Sec: 34      Unit: E  
NMOCD Hazard Ranking: 40      Land Type: FEDERAL  
Operator: AMOCO PRODUCTION COMPANY

---

## PREVIOUS ACTIVITIES

Site Assessment: Aug-94      Excavation: Sep-94 (70 cy)      Soil Boring: Jul-95  
Monitor Well: Jul-95      Additional MW's: Dec-95      PSH Removal Initiated: Aug-97

## 1999 ACTIVITIES

**Phase Separated Hydrocarbon (PSH) Measurement** - PSH was measured in monitor wells MW-1, MW-2 and MW-4 in February of 1999.

## SUMMARY TABLES

Groundwater and PSH level data are presented in Table 2.

## SITE MAP

A site map and groundwater gradient map is presented as Figure 1.

## GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site in 1999.

## DISPOSITION OF GENERATED WASTES

All PSH recovered was disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

## ISOCONCENTRATION MAPS

None generated for this site.

## CONCLUSIONS

Quarterly sampling was discontinued due to the presence of free product. Up to 0.73 feet of product was measured in MW-1 in 1999. Product levels in MW-2 have declined to negligible measurements in 1999. The groundwater gradient is to the south-southwest.

Pertinent data from past groundwater reports include the following: Product removal was initiated at MW-1 on 8/26/97. Due to the presence of product in MW-1 and high dissolved phase in additional monitoring wells, quarterly sampling was discontinued as of 4/21/97.

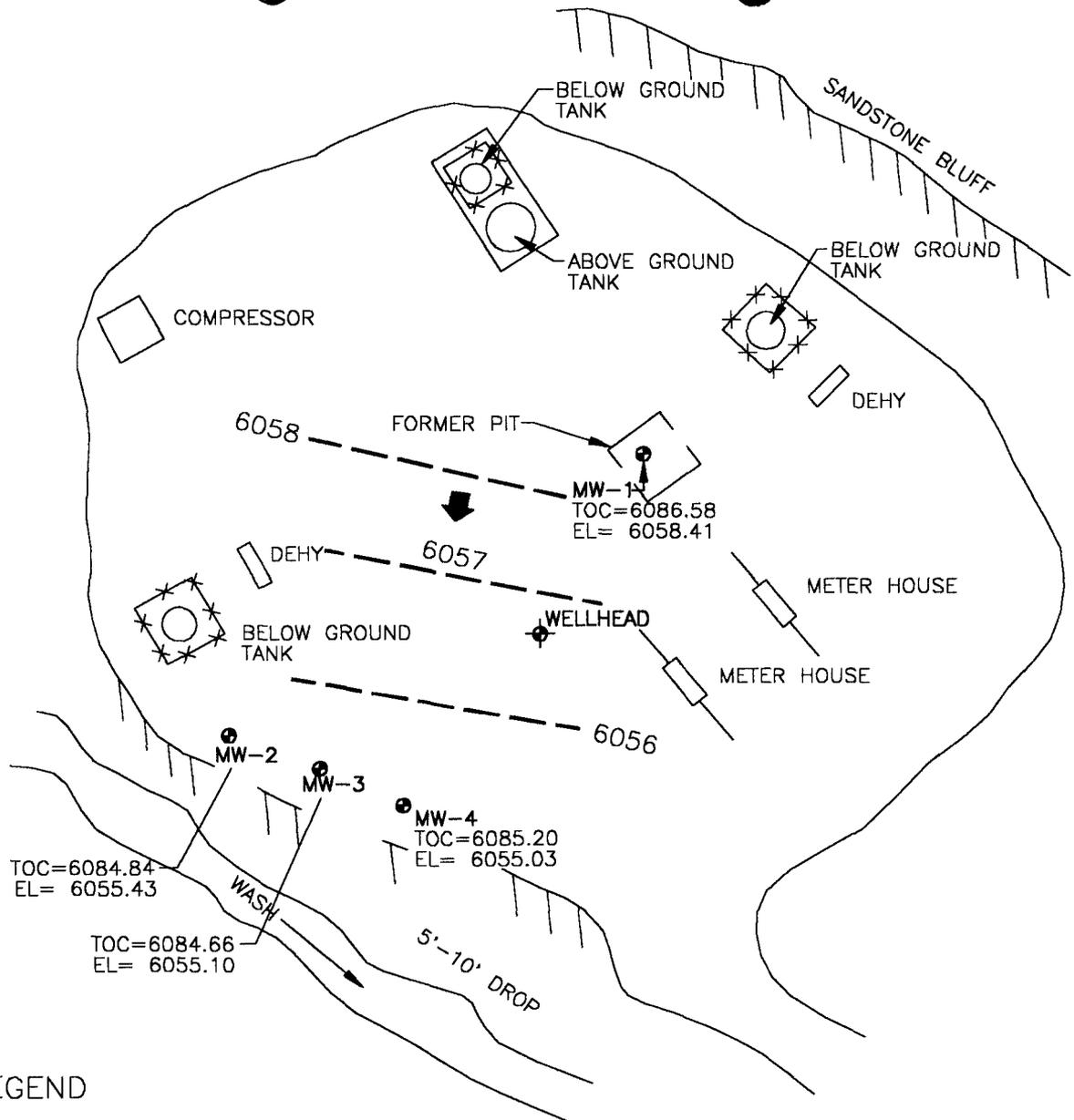
## RECOMMENDATIONS

- Continue product removal at MW-1 and MW-4 as needed.

# EPFS GROUNDWATER PITS 1999 ANNUAL GROUNDWATER REPORT

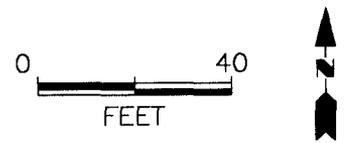
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- Collect groundwater samples annually when PSH are not present until BTEX levels are below NMWQCC Standards, then water sample quarterly for closure.
- Collect static water level data when sampling.
- Following OCD approval for closure, all monitor wells will be abandoned using OCD approved abandonment procedures.



**LEGEND**

- MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- TOC TOP OF CASING ELEVATION
- EL GROUNDWATER ELEVATION
- ➔ GROUNDWATER GRADIENT



COL. 17520K-007



TITLE:  
**FIELDS A #7A**  
**METER 89961/97546**  
**FEBRUARY 23, 1999**

DWN: CJG	DES.: CC
CHKD: CC	APPD:
DATE: 02/25/00	REV.: 0

PROJECT NO.: 17520
EPFS GW PITS
<b>FIGURE 1</b>

**TABLE 2**

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed Gallons	Cumulative Gallons
89961-97546	FIELDS, A #7A	02/23/99	1	27.96	28.69	0.73	0.00	0.00
89961-97546	FIELDS, A #7A	02/23/99	2	29.40	29.41	0.01	0.00	0.00
89961-97546	FIELDS, A #7A	02/23/99	3	0.00	29.56	0.00	0.00	0.00
89961-97596	FIELDS, A #7A	02/23/99	4	30.17	30.37	0.20	0.00	0.00



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

**Lori Wrotenbery**  
Director  
Oil Conservation Division

July 18, 2001

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. 3771-7460**

Mr. Scott T. Pope  
El Paso Field Services  
614 Reilly Ave.  
Farmington, New Mexico 87401

**RE: 2000 SAN JUAN BASIN ANNUAL GROUNDWATER REPORT**

Dear Mr. Pope:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Field Services (EPFS) February 26, 2001 "2000 PIT PROJECT ANNUAL GROUNDWATER REPORT". This document contains the results of EPFS's 2000 monitoring and remediation of contaminated ground water related to the closure of unlined oil and gas production pits at 36 sites in the San Juan Basin. The documents also requests closure for 6 of the sites based on the remediation and monitoring actions taken to date.

The OCD's review of the above referenced document is addressed below:

A. Final pit closure approvals for the sites listed below were previously issued by the OCD on April 3, 2001.

- |    |                              |                             |
|----|------------------------------|-----------------------------|
| 1. | Charlie Pah #2 (Drip pit)    | Unit B, Sec. 12, T27N, R09W |
| 2. | K-51 Line Drip (Drip pit)    | Unit A, Sec. 34, T26N, R06W |
| 3. | Mesa CPD (Drip pit)          | Unit E, Sec. 04, T29N, R14W |
| 4. | Sheets Well #2 (Drip pit)    | Unit H, Sec. 28, T31N, R09W |
| 5. | Turner A#1 Pit #1 (Dehy pit) | Unit K, Sec. 34, T31N, R11W |
| 6. | Turner A#1 Pit #2 (Drip pit) | Unit K, Sec. 34, T31N, R11W |

Mr. Scott T. Pope

July 18, 2001

Page 2

- B. The final pit closure and ground water activities at the sites listed below appear satisfactory. However, the reports do not include a completed pit remediation and closure form which contains the results of all soil remediation actions. The OCD cannot issue final closure approval until EPFS submits this information.

- |    |                                 |                              |
|----|---------------------------------|------------------------------|
| 1. | Ohio C Government #3 (Dehy pit) | Unit P, Sec. 26, T28N, R11W  |
| 2. | Anderson GC A#1 (CH) (Dehy pit) | Unit C, Sec. 28, T29N, R10W. |

- C. A review of the annual ground water reports for the sites listed below shows that the extent of ground water contamination in excess of WQCC standards at these sites has not been defined or the sites do not contain permanent downgradient ground water monitoring points. The OCD requires that EPFS install additional ground water monitoring wells at these sites to monitor and determine the extent of ground water contamination pursuant to their previously approved ground water investigation plan.

- |    |                        |                             |
|----|------------------------|-----------------------------|
| 1. | Hammond #41A           | Unit O, Sec. 25, T27N, R08W |
| 2. | James F Bell #1E       | Unit P, Sec. 10, T30N, R13W |
| 3. | K-27 Line Drip         | Unit E, Sec. 04, T25N, R06W |
| 4. | K-31 Line Drip         | Unit N, Sec. 16, T25N, R06W |
| 5. | Lateral 0-21 Line Drip | Unit O, Sec. 12, T30N, R09W |
| 6. | Lindrith B#24          | Unit N, Sec. 09, T24N, R03W |
| 7. | Miles Federal #1A (CH) | Unit F, Sec. 05, T26N, R07W |
| 8. | State Gas Com N#1      | Unit H, Sec. 16, T31N, R12W |

- D. At the sites listed below where EPFS states that there is possible ground water contamination related to the operators activities, the OCD requests that EPFS work cooperatively with the operator to investigate and remediate contaminated ground water.

- |    |                                  |                             |
|----|----------------------------------|-----------------------------|
| 1. | Canada Mesa #2                   | Unit I, Sec. 24, T24N, R06W |
| 2. | Fields A #7A                     | Unit E, Sec. 34, T32N, R11W |
| 3. | Fogelson 4-1 Com #14             | Unit P, Sec. 04, T29N, R11W |
| 4. | Gallegos Canyon Unit Com A #142E | Unit G, Sec. 25, T29N, R12W |
| 5. | Johnston Federal #4              | Unit H, Sec. 33, T31N, R09W |
| 6. | Johnston Federal #6A             | Unit F, Sec. 35, T31N, R09W |
| 7. | Knight #1                        | Unit A, Sec. 05, T30N, R13W |
| 8. | Sandoval Gas Com A #1A           | Unit C, Sec. 35, T30N, R09W |
| 9. | Standard Oil Com #1              | Unit N, Sec. 36, T29N, R09W |

Mr. Scott T. Pope  
July 18, 2001  
Page 3

If you have any questions, please call me at (505) 476-3491.

Sincerely,

A handwritten signature in black ink, appearing to read "Will Olson". The signature is written in a cursive style with a large initial "W" and a long, sweeping underline.

William C. Olson  
Hydrologist  
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office  
Bill Liess, BLM Farmington District Office  
Mike Matush, NM State Land Office  
Bill Freeman, Navajo Nation EPA



FEB 22 2000

NEW MEXICO 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

FEB 10 2000

**Certified Mail: #Z 387 666 326**

February 8, 1999

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

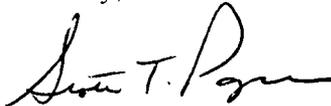
RE: 2000 Pit Project Annual Groundwater Report

Dear Mr. Olson:

The pit project annual groundwater report is due to you on March 1, 1999. Pursuant to our February 8, 1999 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, 1999.

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

Sincerely,



Scott T. Pope P.G.  
Environmental Scientist

xc: Mr. Denny Foust, NMOCD - Aztec

**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:

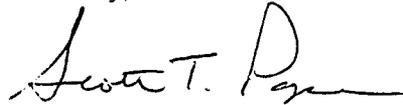
In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 49 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

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,



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**

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

**El Paso Field Services**  
**Final Closure Report For Groundwater Sites With Four**  
**Consecutive Quarters Below Standards**

**December 1998**

**Prepared For**

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

**Project 17520**  
**Book 1**



# EPFS GROUNDWATER PITS 1998 ANNUAL GROUNDWATER REPORT

---

FIELDS A #7A  
Meter/Line ID - 89961/97546

---

## SITE DETAILS

Legals - Twn: 32N      Rng: 11W      Sec: 34      Unit: E  
NMOCD Hazard Ranking: 40      Land Type: FEDERAL  
Operator: AMOCO PRODUCTION COMPANY

---

## PREVIOUS ACTIVITIES

Site Assessment: Aug-94      Excavation: Sep-94 (70 cy)      Soil Boring: Jul-95  
Monitor Well: Jul-95      Additional MW's: Dec-95      PSH Removal Initiated: Aug-97

## 1998 ACTIVITIES

**Phase Separated Hydrocarbon (PSH) Removal** - PSH removal from MW-1 was initiated on February 3, 1998. Groundwater level data and PSH recovery data are presented in Table 2. A site map is presented as Figure 1.

## CONCLUSIONS

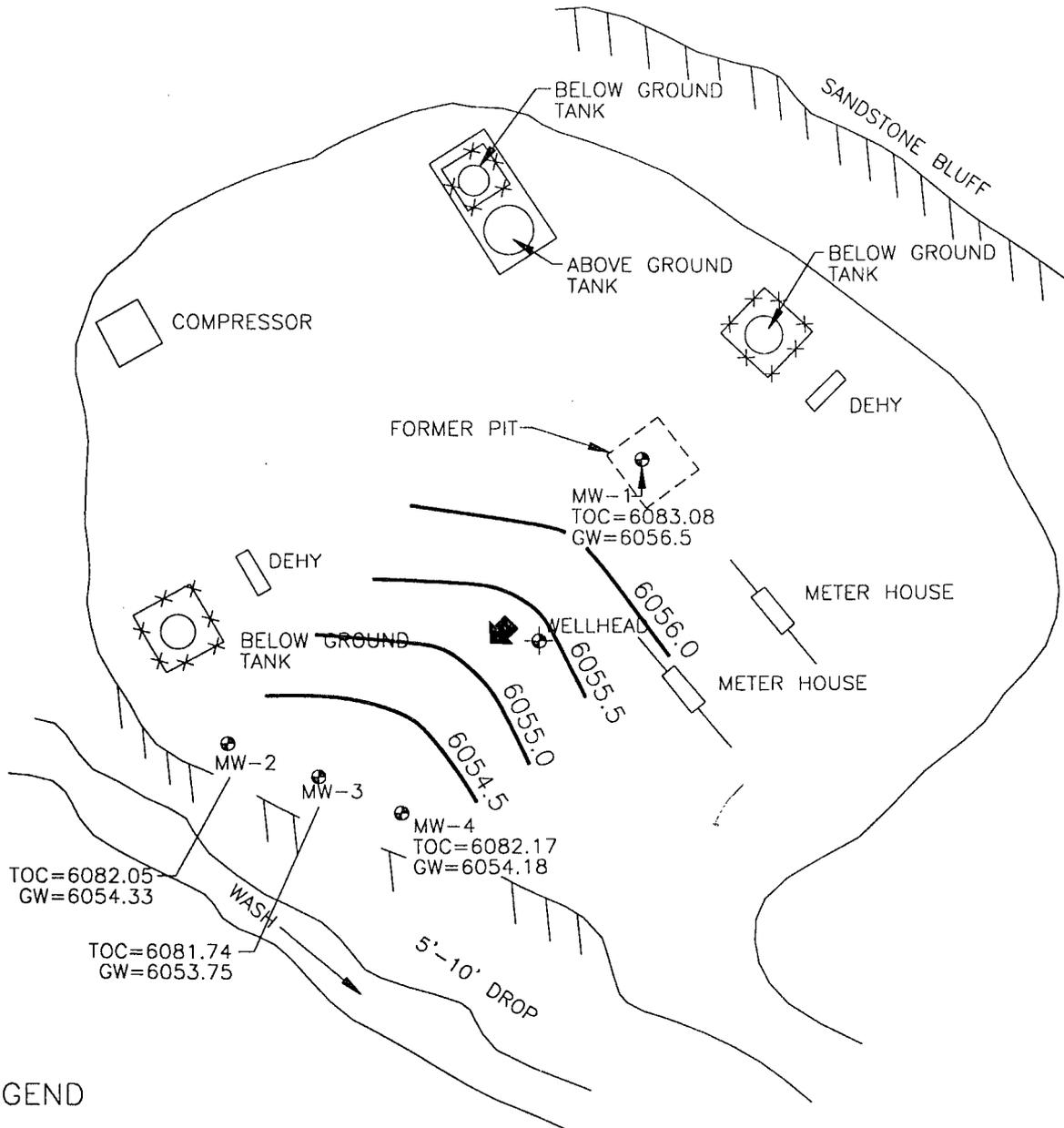
Quarterly sampling was discontinued due to the presence of free product. A total of 2.85 gallons of PSH have been recovered from MW-1 to date and approximately 1.45 gallons of product were removed from MW-1 in 1998. Up to 0.33 feet of product was measured in MW-1 this year. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, NM. Groundwater gradient has not yet been determined at this site.

Pertinent data from the 1997 groundwater report includes the following: Based on groundwater levels collected from temporary well point data, the groundwater flow trends to the southeast on this site. Product removal was initiated at MW-1 on 8/26/97, and approximately 2.85 gallons of product have been removed to date. Due to the presence of product in MW-1 and high dissolved phase in additional monitoring wells, quarterly sampling was discontinued as of 4/21/97. Product levels in MW-4 have declined to negligible measurements.

Groundwater samples were collected from temporary monitoring wells at five locations on site. Groundwater samples collected cross and down-gradient of MW-1 were in excess of standards for BTEX. One groundwater sample collected up-gradient of MW-1 was in excess of standards for benzene, toluene, and xylenes, which indicates a potential up-gradient source. Offsite work will be required to determine the down-gradient extent of migration.

## RECOMMENDATIONS

- Discontinue quarterly sampling at MW-1 and sample annually until operator has performed investigation and remediation of operator pit.
- EPFS will contact operator and provide pertinent site data regarding EPFS activities at the site.
- Continue with product removal as needed.



**LEGEND**

- MW-1 APPROXIMATE MONITORING WELL LOCATION AND NUMBER
- TOC TOP OF CASING ELEVATION
- GW GROUNDWATER POTENTIOMETRIC SURFACE
- ➔ GROUNDWATER GRADIENT



COL. 17520K-005



TITLE:  
 FIELDS A #7A  
 METER 89961/97546  
 2/3/98

DWN: TMM  
 CHKD: CC  
 DATE: 3/22/99

DES.: CC  
 APPD:  
 REV.: 0

PROJECT NO.: 17520  
 EPFS GW PITS  
 FIGURE 1

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
89961	Fields A#7A	02/03/98	1	26.53	26.78	0.25	0.00	0.00
89961	Fields A#7A	02/03/98	2	0.00	27.72	0.00	0.00	0.00
89961	Fields A#7A	02/03/98	3	0.00	27.99	0.00	0.00	0.00
89961	Fields A#7A	02/03/98	4	0.00	27.99	0.00	0.00	0.00
89961	Fields A#7A	02/26/98	1	26.54	26.87	0.33	0.00	0.00
89961	Fields A#7A	02/27/98	1	27.51	27.72	0.21	0.75	1.40
89961	Fields A#7A	03/02/98	1	27.62	27.80	0.18	0.75	2.15
89961	Fields A#7A	03/04/98	1	27.54	27.55	0.01	0.50	2.65
89961	Fields A#7A	03/05/98	1	26.70	26.82	0.12	0.00	2.65
89961	Fields A#7A	03/06/98	1	27.38	27.42	0.04	0.00	2.65
89961	Fields A#7A	03/09/98	1	27.63	27.70	0.07	0.00	2.65
89961	Fields A#7A	03/10/98	1	27.64	27.68	0.04	0.00	2.65
89961	Fields A#7A	03/17/98	1	27.55	27.56	0.01	0.10	2.75
89961	Fields A#7A	04/09/98	1	27.87	27.89	0.02	0.00	2.75
89961	Fields A#7A	04/28/98	1	27.93	27.94	0.01	0.00	2.75
89961	Fields A#7A	06/17/98	1	28.09	28.10	0.01	0.00	2.75
89961	Fields A#7A	05/22/98	1	27.94	27.95	0.01	0.00	2.75
89961	Fields A#7A	07/14/98	1	28.28	28.29	0.01	0.10	2.85



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

July 9, 1998

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-235-437-308**

Mr. B.D. Shaw  
Amoco Production Company  
200 Amoco Court  
Farmington, New Mexico 87401

**RE: SAN JUAN BASIN PIT GROUND WATER SITES**

Dear Mr. Shaw:

Information in El Paso Field Services (EPFS) recent annual ground water monitoring report shows the presence of shallow ground at some well sites operated by Amoco Production Company (Amoco). Disposal activities at EPFS pits on these locations have resulted in contamination of shallow ground water. These sites also apparently have former unlined production pits operated by Amoco, some of which appear to be contributing to ground water contamination seen in EPFS monitoring wells.

Due to the presence of ground water contamination at these sites and the apparent commingling of contaminated waters from EPFS's former unlined dehy pit and Amoco's former unlined production pits, the OCD requests that Amoco cooperate with EPFS to investigate and remediate contaminated ground water at the sites listed below:

- |    |                                  |                              |
|----|----------------------------------|------------------------------|
| 1. | Coldiron Com A#1                 | Unit K, Sec. 02, T30N, R11W. |
| 2. | Fields A #7A                     | Unit E, Sec. 34, T32N, R11W. |
| 3. | Gallegos Canyon Unit Com A #142E | Unit G, Sec. 25, T29N, R12W. |
| 4. | Sandoval Gas Com A #1A           | Unit C, Sec. 35, T30N, R09W. |

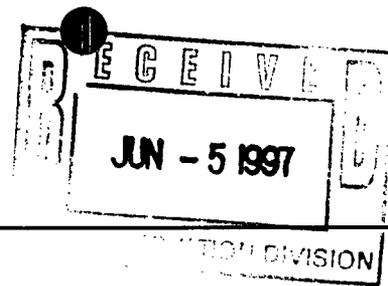
If you have any questions, please contact me at (505) 827-7154.

Sincerely,

A handwritten signature in cursive script that reads "William C. Olson".

William C. Olson  
Hydrologist  
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office  
Sandra D. Miller, El Paso Field Services  
Bill Liess, BLM Farmington Office



Bill Olson  
New Mexico Oil Conservation Commission  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

Date: June 2, 1997

Subject: Semi-Annual El Paso Field Services Pit Project Groundwater Report

Mr. Olson,

El Paso Field Services (EPFS) has encountered groundwater at various locations while investigating and or remediating exempt hydrocarbon unlined pits. The enclosed list includes all locations which are in this category. Please find enclosed, the locations and status of each individual pit.

These pits are being remediated according to the "EPFS Remediation Plan for Groundwater Encountered During Pit Closure Activities" dated November 29, 1995.

EPFS requests that future reports for this project be submitted on a yearly basis to begin December 1, 1997 which will include soil boring logs, monitoring well completion diagrams, analytical data, groundwater elevation data, any risk analysis and type of remediation method.

For questions regarding this report please contact Ricky Cosby at (505)599-2158.



Ricky D. Cosby  
Compliance Specialist

cc: Denny Foust - Aztec District

El Paso Field Services  
Pit Project Ground Water Report

Location/Line Name	LTR	Sec	TN	RG	Monitor Status	Well Status	Depth to GW	Product Level
MCGRATH #1	F	07	30	11	+1	GW encountered during drilling activities, MW results below standards, Develop Closure Plan	17'	No
Mae Gail Com #1	E	24	29	11		PZ1 in center of pit below standards. All other samples below standards. Develop Closure Plan	0.5'-6'	No
NM COM G1	P	36	30	10		MW1 was removed during site re-excavation, PZ1 installed with samples below standards. Develop Closure Plan.	17'-18'	No
MARY ACKROYD #1	J	18	30	11		Geoprobe samples all below standards. Develop Closure Plan.	3'-6'	No
JACQUEZ #3	E	25	30	09	-1	MW1 removed during re-excavation. 3 piezos and 1 probehole around pit all below standards. Operator has placed a production tank over the pit location. Develop Closure Plan.	13'-15'	No
SALAZAR G 34-1	K	34	25	08	+1	MW1 results all below standards. Develop Closure Plan.	35'	No
ANDERSON GAS COM A#1 PC	C	28	29	10		PH4 in center of pit is below standards. All of PH's around pit below standards. Develop Closure Plan.	5'-9'	No
GALLEGOS CANYON UT 145 E	D	26	29	12		PZ1 in center of pit below standards.	6'-9'	No
JOHNSTON FEDERAL #3A	I	12	30	09	+1	Develop Closure Plan. 4 clean quarters.	67.5'	No
FLORANCE #1	J	08	30	11	+1	MW1 installed 05/07/97. Develop and sample MW1.	14'	No
DE-NA-HAZ-ZA #1	D	18	26	08	+1	MW1 installed 05/06/97. Develop and sample MW1.	14'	No
Ramenta Et Al #1	J	13	27	09	+1	MW1 installed 05/06/97. Develop and sample MW1.	5'-9'	No
HAMMOND 41 A	O	25	27	08	+1	MW1 installed 05/05/97. Develop and sample MW1.	15'-24'	No
VALDEZ GAS UNIT A #1E CH	G	24	29	11	-1, +1	MW1 installed 05/07/97. Develop and sample MW1.	11'-12'	No

El Paso Field Services  
Pit Project Ground Water Report

Location/Line Name	UTR	Sec	TN	RG	Monitor Status	Well Status	Depth to GW	Product Level
GALLEGOS CANYON COM A142E	G	25	29 12	12	+1	MW1 Developed and sampled 03/10/97. Evaluate Data.	13'	No
GALLEGOS CANYON UT D#160	I	27	29 12	12	+1	MW1 Developed and sampled 03/10/97. Evaluate Data.	19.1'	No
HARRINGTON #1	M	31	27 07	07	+1	MW1 Developed and sampled 04/02/97. Evaluate Data.	13'	No
Turner A1 "PM" (Pit #2)	G	34	31 11	11	+1	MW1 Developed and sampled 03/12/97. Evaluate Data.	2.3'-2.5'	No
TURNER #1A (Pit #1)	K	34	31 11	11	+1	Same as Above	5'	No
SAN JUAN 28-6 UNIT #79 MV	M	11	27 06	06	+1	MW1 Developed and sampled 04/14/97. Evaluate Data.	30'	No
KNIGHT #1	A	05	30 13	13	+4	Installed Oxegenate Socks 11/25/96. Geoprobe 02/25/97. Evaluate Data. Install MW1 and sample quarterly.	6'-16'	No
Ohio C. Govt. #3	P	28	28 11	11		MW1 Developed and sampled 03/28/97. Evaluate Data.	12'-15'	No
NICKLES #1	K	11	31 13	13	+1			No
BUD-DOS-PAH #1	M	19	26 08	08		Soil Boring 02/19/97. Operator has placed a compressor over excavated pit area. Evaluate Data.		No
SANCHEZ GAS COM B#1	G	28	29 10	10	+1	MW1 Developed and sampled 03/11/97. Evaluate Data.	13'	No
GE-ELE-GU-LITHE #2	L	07	26 08	08		Soil Boring 02/20/97. Operator has placed a compressor over excavated pit area. Evaluate Data.		No
JOHN CHARLES #8	B	13	27 09	09	+1	MW1 Developed and sampled 03/13/97. Evaluate Data.	13'	No
CANDADO 23 MV	B	09	26 07	07	+1	MW1 Developed and sampled 04/16/97. Evaluate Data.	19'	No
							6'-9'	No

El Paso Field Services  
Pit Project Ground Water Report

Location/Line Name	LTR	Sec	TN	RG	Monitor Status	Well Status	Depth in GW	Product Level
GALLEGOS CANYON UNIT 188E	B	30	29 12	+1	MW1 Developed and sampled 04/03/97. Evaluate Data.	3'-5'	No	
JOHNSON #1E	P	21	31 13	+1	MW1 Developed and sampled 03/28/97. Evaluate Data.	3'-9'	No	
MILES FEDERAL #1E	N	05	26 07	+1	MW1 Developed and sampled 04/02/97. Evaluate Data.	13.5'-30'	No	
TRUJILLO GAS COM. A#1	C	28	29 10	+1	MW1 Developed and sampled 04/03/97. Evaluate Data.	3'-9'	No	
ANDERSON GAS COM A#1 CH	C	28	29 10	+1	MW1 Developed and sampled 03/11/97. Evaluate Data.	5'-9'	No	
TRUNK D LINE DRIP (LOOPD8)	F	20	28 08	+1	MW1 Developed and sampled 03/31/97. Evaluate Data.	10.8'-24'	No	
K-31 LINE DRIP	N	16	25 06	+1	MW1 Developed and sampled 04/16/97. Evaluate Data.	18'-24'	No	
K-17 LINE DRIP	C	26	27 08	+1	MW1 Developed and sampled 03/31/97. Evaluate Data.	17.8'-27'	No	
TRUNK 2B DRIP X-1	J	01	27 11	+1	MW1 Developed and sampled 03/11/97. Evaluate Data.	8'-10'	No	
Trujillo Gas Com #1 PC	M	21	29 10		Install MW1	4'	No	
OHIO C GOVERNMENT #3 TD	P	26	28 11		Install MW1	6'-16'	No	
LINDRITH B #24	N	09	24 03		Install MW1	21'-27'	No	
K - 51 Line Drip	A	34	26 06		Install MW1	10'	No	
Mesa CPD	C	04	29 14	+1	Install well points around pit and sample. MW1 needs 3 more clean quarters.	3'-6.5'	No	
STANDARD OIL COM #1	N	36	29 09	+1	Install well points on four sides of pit to establish gradient.	20.89'	No	
W.D. HEATH B#5	M	31	30 09	+1	Install well points on four sides of pit to establish gradient.	30'-36'	No	
CANYON LARGO UNIT 304	C	11	24 06	+1	Install downgradient well points and sample.	17.5'-18'	No	

El Paso Field Services  
Pit Project Ground Water Report

Location/Line Name	LTR	Sec	TN	RG	Monitor Status	Well Status	Depth to GW	Product Level
K-27 LINE DRIP	E	04	25	06	+1	Establish gradient with well points.	40'	No
LAT 0-21 LINE DRIP	O	12	30	09	+1	Establish gradient with well points.	33'-36'	No
Trunk D loop Line Drip	I	33	28	08	+1	Establish gradient with well points.	33'-36'	No
Bisti Flare Pit	C	21	12	26		Establish GW gradient	15'	No
LAT L-40 LINE DRIP	H	13	28	04	+1	Install downgradient well points and sample.	40'	No
HAMNER #9	A	20	29	09	+1	Establish gradient with well points.	29'-31'	No
GARTNER LS #7	K	26	30	08		NMOCD Closure Approved	NA	No
HAMMOND FED #1	L	25	27	08	+1	NMOCD Closure Approved	NA	No
BURROUGHS COM #1	H	36	27	08		NMOCD Closure Approved	NA	No
CLEVELAND #6	B	21	27	09	+1	NMOCD Closure Approved	NA	No
CHARLEY PAH 4	K	12	27	09		NMOCD Closure Approved	NA	No
GRACE PEARCE #1	O	22	29	11		NMOCD Closure Approved	NA	No
HAMMOND #7	G	26	27	08		NMOCD Closure Approved	NA	No
ONA MCGEE #1	P	04	30	11		NMOCD Closure Approved	NA	No
CUTLER #2	A	14	24	06		NMOCD Closure Approved	NA	No
LINDRITH UNIT #23	D	09	24	03		NMOCD Closure Approved	NA	No
GREEN COM #1	E	36	29	09		NMOCD Closure Approved	NA	No
HAMMOND FED #5	D	25	27	08	+1	NMOCD Closure Approved	NA	No
FLORA VISTA #1	F	22	30	12		NMOCD Closure Approved	NA	No
MARSHALL B #1J	O	14	27	09		NMOCD Closure Approved	NA	No
HAMMOND #92	O	25	27	08		NMOCD Closure Approved	NA	No
PRICE #3	A	15	28	08		NMOCD Closure Approved	NA	No

El Paso Field Services  
Pit Project Ground Water Report

Location/Line Name	LTR	Sec	TN	RG	Monitor Status	Well Status	Depth to GW	Product Level
KRAUSE WN FEDERAL #1E	C	32	28	11		NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #298	A	03	24	06		NMOCD Closure Approved	NA	No
ARGO #1E	N	18	27	10		NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #302	J	03	24	06		NMOCD Closure Approved	NA	No
FEDERAL 6 #32 CH	G	06	26	07		NMOCD Closure Approved	NA	No
SANCHEZ GAS COM C#1	A	28	29	10		NMOCD Closure Approved	NA	No
VALDEZ #2	G	24	29	11	-1	NMOCD Closure Approved	NA	No
FEDERAL R #2	P	15	27	08	+1	NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #336	C	24	25	06		NMOCD Closure Approved	NA	No
CANDELARIA GAS COM C #1	C	27	29	10		NMOCD Closure Approved	NA	No
HOWELL #3	C	03	27	08		NMOCD Closure Approved	NA	No
LAT 2C-55 LINE DRIP	F	17	25	07	+1	NMOCD Closure Approved	NA	No
HORTON 1-E	H	28	31	09	+1	MW1 above B standards. Inject nutrient slurry in corners of pit.	5.3'	No
LAT 3B-39	M	10	29	09	+1	MW1 above B standards. Inject nutrient slurry in corners of pit.	31'-36'	No
JOHNSTON FEDERAL #4	H	33	31	09	+3	Determine Remedial Design Options.	48.94'--50.38'	Yes
STATE GAS COM N #1	H	16	31	12	+4	Determine Remedial Design Options.	75.66'--76.90'	Yes
COLDIRON COM A#1	K	02	30	11	+1	Determine Remedial Design Options.	35.4'	Yes
JOHNSTON FEDERAL #6A	F	35	31	09	+4	Determine Remedial Design Options.	40'-44.8'	Yes
JAMES F. BELL #1E	P	10	30	13	+4	Determine Remedial Design Options.	23.5'-24.5'	Yes
CANADA MESA #2	I	24	24	06	+1	Determine Remedial Design Options.	30'	Yes

El Paso Field Services  
Pit Project Ground Water Report

Location/Line Name	LTR	ISac	TN	R3	Monitor	Well Status	Depth to GW	Product Level
FIELDS A #7A	E	34	32	11	+4	Confirm groundwater gradient. Initiate product removal from MW4.	21.8'-28.8'	Yes
FOGELSON 4-1 COM #14	P	04	29	11	+1	Re-excavate site. Evaluate operators open pits as sources of contamination.	31'-36'	No
SANDOVAL GAS COM A 1A	C	35	30	09	+1	Refusal with Geoprobe. Re-excavate pit and re-install MW1.	35'	No
MILES FEDERAL 1A (CH)	F	05	26	07	+1	Evaluate Data. Sandstone refusal at 25'.	29'	Yes
SHEETS #2	H	28	31	09	+4	Sample Quarterly. Steady drop in B analysis through 4 quarters.	46.3'--50.31'	No
JENNAPAH #1	H	36	28	09	+1	Sample Quarterly. Develop and Sample MW1 03/13/97.	20'	No
FLORANCE C LS 7	F	30	28	08	+1	Sample Quarterly. Need 2 more clean quarters.	40'	No
GRAHAM #53	L	10	27	08	+1	Sample Quarterly. Need 3 more clean samples	28.33'	No
MILES FEDERAL 1 A MV	F	05	26	07	+1	Sample Quarterly. Need 2 more clean quarters.	27.8'	No
LAT. H-37 DRIP Y-3	F	01	31	13	+4	Sample Quarterly. Remove socks. 4 clean quarters with ORB socks.	24.5'-25'	No
2C-22 #1 LINE DRIP	N	35	24	06	+1	Develop Closure Plan. 4 clean quarters.	28.8'	No
2C-22 #3 LINE DRIP	G	13	24	06	+1	Sample Quarterly. Need 3 more clean quarters.	14'-24'	No
2C - 45 Line Drip	P	13	25	06	+1	Sample Quarterly. Need 3 more clean quarters.	42.2'	No
USSELMAN GAS COM #1	B	04	31	10	+1	Sample Quarterly. Need 2 more clean quarters	10'	No
<b>Note:</b>								
MW = Monitor Well								
PZ = Piezometer								
BH = Bore Hole								