

**3R - 201**

# **REPORTS**

**DATE:**

**2000 - 1998**



**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 dark ink, appearing to read 'Scott T. Pope', with a stylized flourish at the end.

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**

10

**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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JOHNSTON FEDERAL #4  
Meter/Line ID - 70194

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## SITE DETAILS

Legals - Twn: 31N      Rng: 9W      Sec: 33      Unit: H  
NMOCD Hazard Ranking: 40      Land Type: FEE  
Operator: BURLINGTON RESOURCES

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## PREVIOUS ACTIVITIES

Site Assessment: Aug-94      Excavation: Sep-94 (60 cy)      Soil Boring: Aug-95  
Monitor Well: Aug-95      Down-gradient MW's: Dec-95      PSH Removal Initiated: Sep-97

## 2000 ACTIVITIES

**Phase Separated Hydrocarbon (PSH) Removal** - PSH removal from MW-1 was not conducted during 2000 because of the small volumes of PSH observed in monitor wells MW-1 and MW-3.

## SUMMARY TABLES

Groundwater level data and PSH thickness data are presented in Table 1.

## SITE MAP

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

## GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities conducted at this site during 2000.

## DISPOSITION OF GENERATED WASTES

There were no wastes generated at this site in 2000.

## ISOCONCENTRATION MAPS

An isoconcentration map was not generated for this site.

## CONCLUSIONS

A total of 7.65 gallons of PSH has been removed from MW-1 to date. Approximately 0.1-foot was measured in MW-1 and 0.09-foot measured in MW-3 during 2000. Product removal was not conducted in 2000.

Based on groundwater levels collected from MW-1, MW-2, and MW-3 the groundwater flow trends to the north-northeast on this site.

EPFS provided operator with all pertinent site data generated to date. The operator has begun an investigation at the site.

## **EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT**

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

Quarterly sampling was discontinued in 1998 due to the presence of free product. A total of 7.65 gallons of PSH has been recovered from MW-1 to date. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

### **RECOMMENDATIONS**

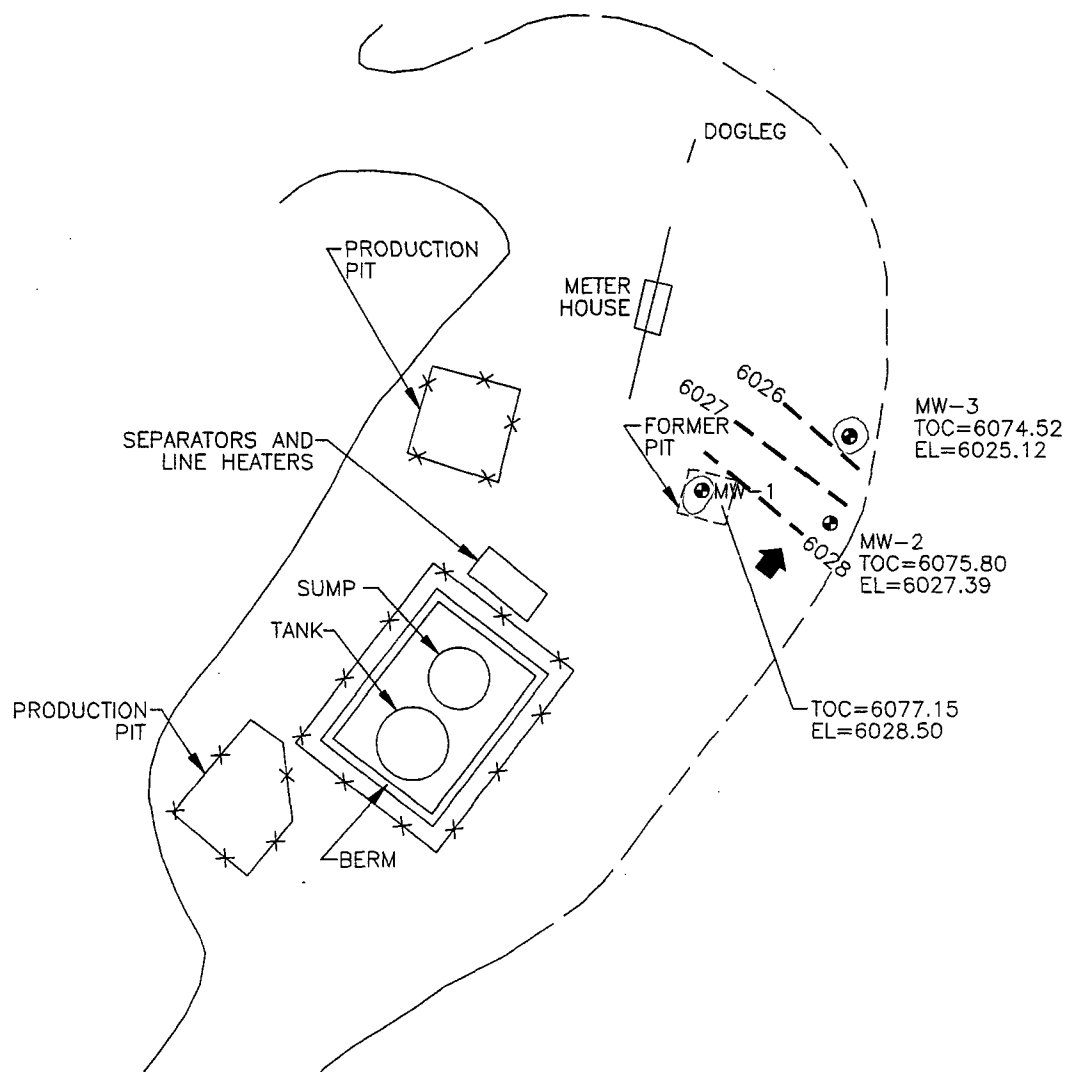
- Sample MW-2 annually.
- Continue with product removal as needed.
- When PSH is not present, sample annually until BTEX levels are below New Mexico groundwater standards, then sample quarterly for closure.
- EPFS will continue to work with the operator at this site.

EPFS Groundwater Report  
2000 Annual Report

Table 1

March 2001

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed Gallons	Cumulative Gallons
70194	JOHNSTON FED #4	10/09/2000	1	49.62	48.72	0.1	0	7.65
70194	JOHNSTON FED #4	10/09/2000	2	0	48.41	0	0	0
70194	JOHNSTON FED #4	10/09/2000	3	49.37	49.46	0.09	0	0



# LEGEND

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



TITLE:

JOHNSTON FEDERAL NO. 4  
METER 70194  
OCTOBER 9, 2000

DWN:	DES.:
TMM	LW
CHKD:	APPD:
LW	MN
DATE:	REV.:
1/30/01	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 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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## **JOHNSTON FEDERAL #4 Meter/Line ID - 70194**

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### **SITE DETAILS**

Legals - Twn: 31N      Rng: 9W      Sec: 33      Unit: H  
NMOCD Hazard Ranking: 40      Land Type: FEE  
Operator: BURLINGTON RESOURCES

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### **PREVIOUS ACTIVITIES**

Site Assessment: Aug-94      Excavation: Sep-94 (60 cy)      Soil Boring: Aug-95  
Monitor Well: Aug-95      Down-gradient MW's: Dec-95      PSH Removal Initiated: Sep-97

### **1999 ACTIVITIES**

**Phase Separated Hydrocarbon (PSH) Removal** - PSH removal from MW-1 was not conducted during 1999 because of the small volumes of PSH observed in monitor wells MW-1 and MW-3.

**Provide Operator with Site Data** - EPFS has provided operator with all pertinent site data generated to date. The operator has begun an investigation at the site.

### **SUMMARY TABLES**

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

### **SITE MAP**

A site map and groundwater gradient maps are included as Figures 1-3.

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

There were no drilling activities at this site in 1999.

### **DISPOSITION OF GENERATED WASTES**

There were no wastes generated at this site in 1999.

### **ISOCONCENTRATION MAPS**

None were generated for this site.

### **CONCLUSIONS**

Pertinent data from past groundwater reports include the following: Based on groundwater levels collected from three monitoring wells, the groundwater flow trends to the north-northeast on this site.

Quarterly sampling was discontinued in 1998 due to the presence of free product. A total of 7.65 gallons of PSH has been recovered from MW-1 to date. A total of 4.7 gallons of PSH was recovered from MW-1 in 1998. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

Groundwater analytical data for MW-1, MW-2, and MW-3 have been in excess of standards for BTEX since quarterly sampling was initiated. Three groundwater samples were collected from

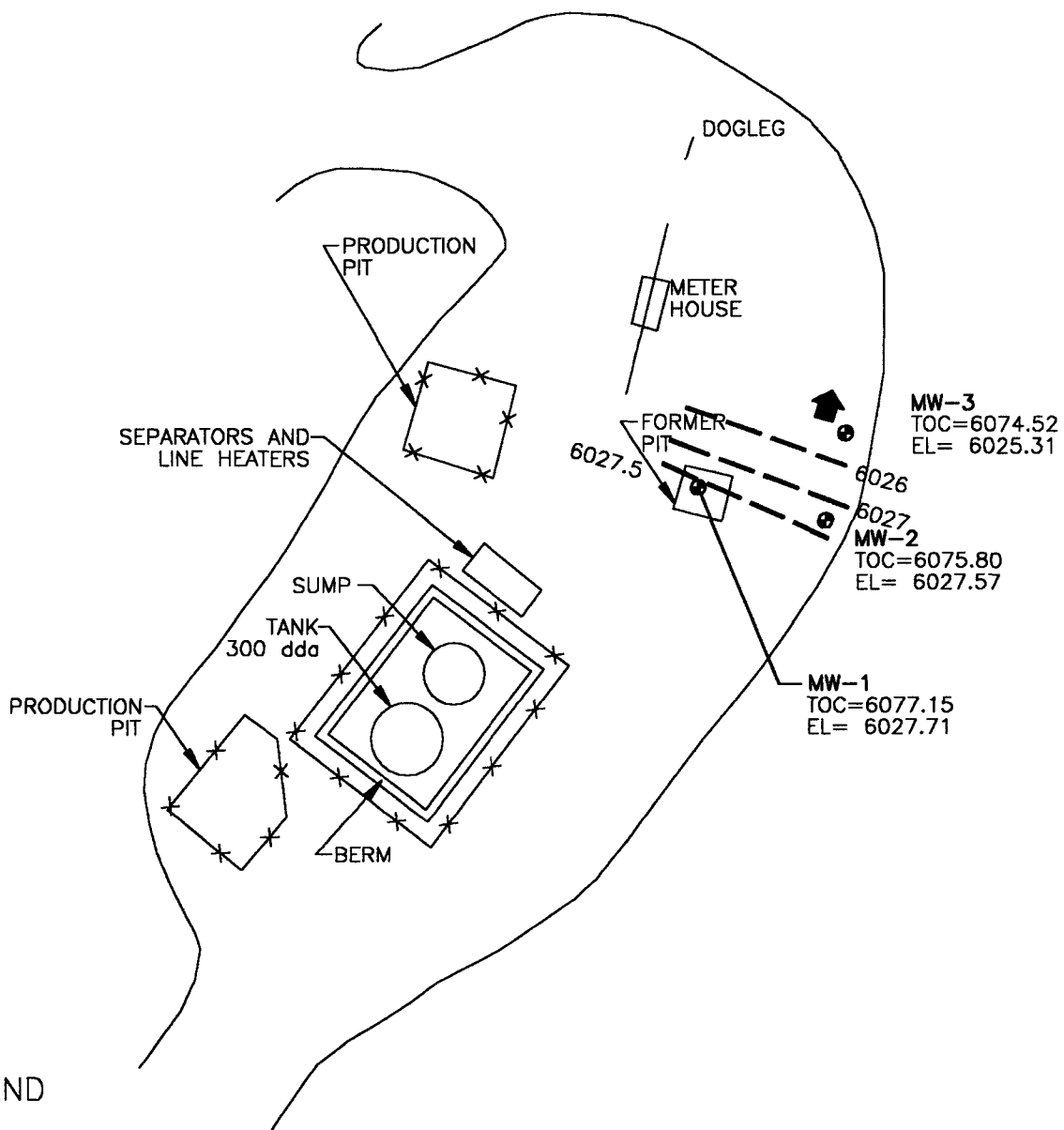
## **EPFS GROUNDWATER PITS 1999 ANNUAL GROUNDWATER REPORT**

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temporary well points upgradient and crossgradient of MW-1. All three samples were in excess of NMWQCC Standards for BTEX.

### **RECOMMENDATIONS**

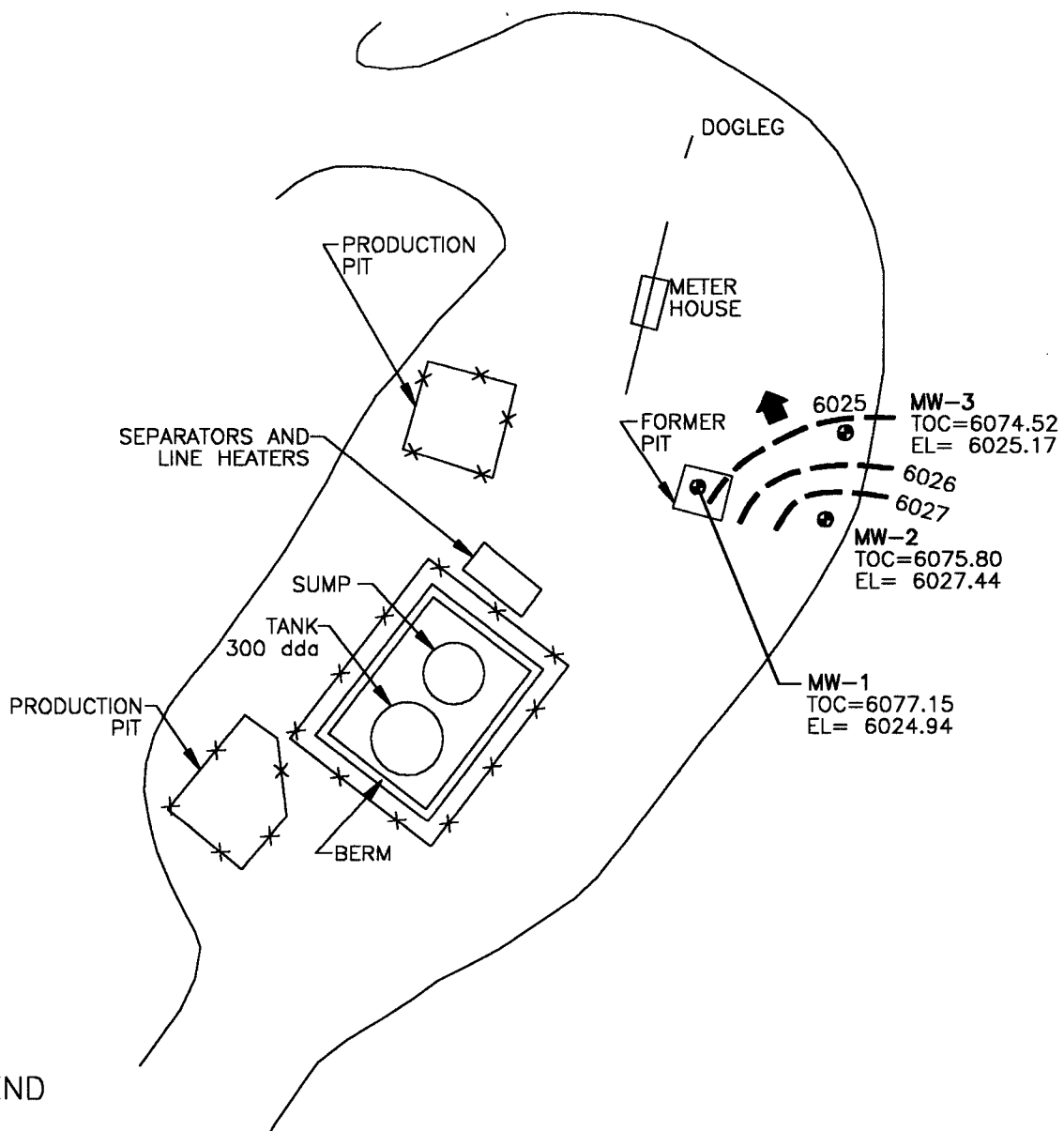
- Continue with product removal as needed.
- When PSH is not present, sample annually until BTEX levels are below New Mexico Groundwater Standards, then sample quarterly for closure.
- EPFS will continue to work with the operator at this site.



TITLE:  
JOHNSTON FEDERAL NO. 4  
METER 70194  
APRIL 21, 1999

DWN: CJG	DES.: CC
CHKD: CC	APPD:
DATE: 02/10/00	REV.: 0

PROJECT NO.: 17520
EPFS GW PITS
FIGURE 1



# LEGEND

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

0 40  
FEET



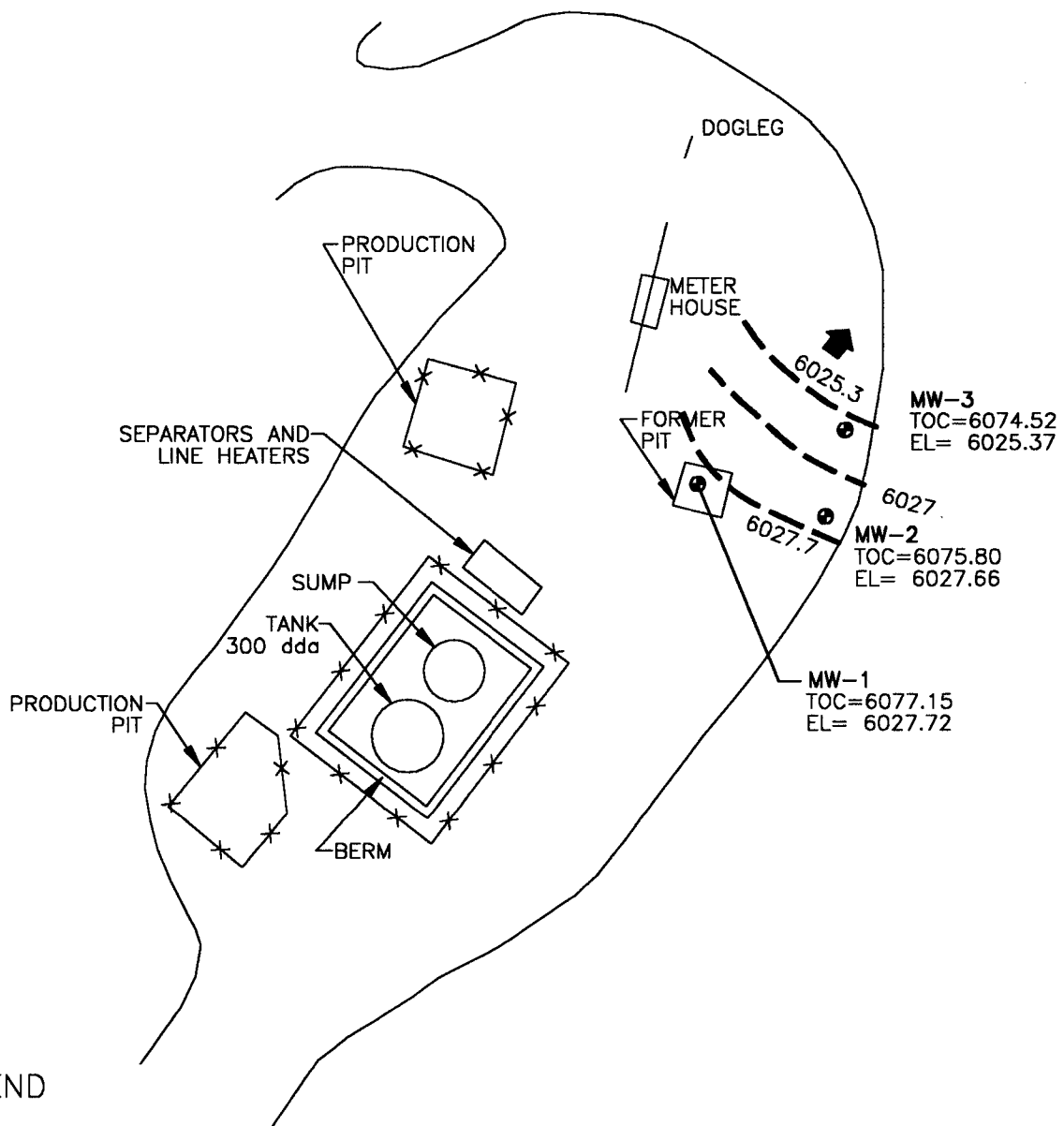
COL 17520BP-005



TITLE:  
JOHNSTON FEDERAL NO. 4  
METER 70194  
SEPTEMBER 16, 1999

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

PROJECT NO.: 17520
EPFS GW PITS
FIGURE 2



COL 17520BP-008



TITLE:  
JOHNSTON FEDERAL NO. 4  
METER 70194  
DECEMBER 8, 1999

DWN: CJG	DES.: CC
CHKD: CC	APPD:
DATE: 02/25/00	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
70194	JOHNSTON FED #4	02/23/99	1	49.41	49.66	0.25	0.00	7.65
70194	JOHNSTON FED #4	09/16/99	1	49.51	49.73	0.22	0.00	7.65
70194	JOHNSTON FED #4	12/08/99	1	49.33	49.47	0.14	0.00	7.65
70194	JOHNSTON FED #4	02/23/99	3	49.21	49.31	0.10	0.00	0.00
70194	JOHNSTON FED #4	09/16/99	3	49.31	49.46	0.15	0.00	0.00
70194	JOHNSTON FED #4	12/08/99	3	49.13	49.15	0.02	0.00	0.00



**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 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 # 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

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JOHNSTON FEDERAL #4  
Meter/Line ID - 70194

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## SITE DETAILS

Legals - Twn: 31N      Rng: 9W      Sec: 33      Unit: H  
NMOCD Hazard Ranking: 40      Land Type: FEE  
Operator: BURLINGTON RESOURCES

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## PREVIOUS ACTIVITIES

Site Assessment: Aug-94      Excavation: Sep-94 (60 cy)      Soil Boring: Aug-95  
Monitor Well: Aug-95      Down-gradient MW's: Dec-95      PSH Removal Initiated: Sep-97

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## 1998 ACTIVITIES

**Phase-Separated Hydrocarbon (PSH) Removal** - PSH removal from MW-1 was initiated on September 19, 1997. Groundwater level data and PSH recovery data are presented in Table 2. A site map is presented as Figure 1.

**Provide Operator with Site Data** - EPFS has provided operator with all pertinent site data generated to date.

## CONCLUSIONS

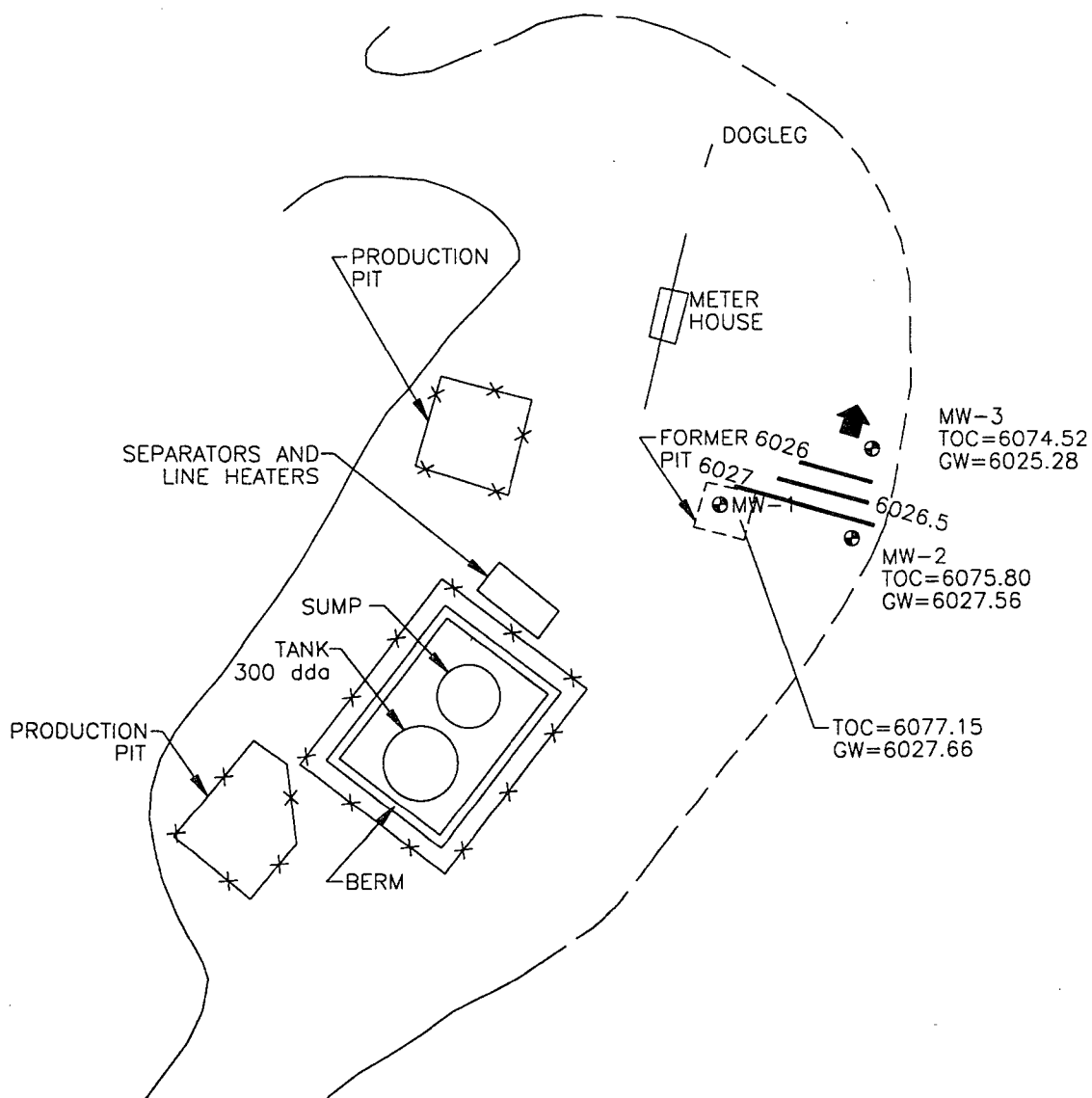
Quarterly sampling was discontinued due to the presence of free product. A total of 7.65 gallons of PSH has been recovered from MW-1 to date. A total of 4.7 gallons of PSH was recovered from MW-1 this year. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

Pertinent data from the 1997 groundwater report includes the following: Based on groundwater levels collected from three monitoring wells, the groundwater flow trends to the north-northeast on this site.

Groundwater analytical data for MW-1, MW-2, and MW-3 have been in excess of standards for BTEX since quarterly sampling was initiated. Three groundwater samples were collected from temporary well points up-gradient and cross-gradient of MW-1. All three samples were in excess of New Mexico Groundwater Standards for BTEX. Two of the samples were down-gradient of the operators' production pits and up-gradient from MW-1, indicating that there is a source up-gradient from the EPFS pit.

## RECOMMENDATIONS

- Discontinue quarterly sampling at all three wells.
- Following removal of product, sample annually until BTEX levels are below New Mexico Groundwater Standards, then sample quarterly for closure.
- Continue with product removal as needed.
- EPFS will continue to work with the operator at this site.



## LEGEND

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

0 40  
FEET



COL. 17520BP-003



TITLE:  
JOHNSTON FEDERAL NO. 4  
METER 70194  
2/23/99

DWN: TMM	DES.: CC
CHKD: CC	APPD:
DATE: 3/22/99	REV.: 0

PROJECT NO.: 17520  
EPFS GW PITS

FIGURE 1

TABLE 2

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed	Cumulative
70194	Johnston Federal #4	02/26/98	3	49.15	49.26	0.11	0.00	0.00
70194	Johnston Federal #4	02/26/98	1	49.35	49.61	0.26	0.00	0.00
70194	Johnston Federal #4	02/27/98	1	49.49	49.62	0.13	0.75	3.70
70194	Johnston Federal #4	03/02/98	1	49.42	49.55	0.15	0.75	4.45
70194	Johnston Federal #4	03/06/98	1	49.53	49.62	0.09	0.75	5.20
70194	Johnston Federal #4	03/09/98	1	0.00	49.55	0.00	0.25	5.45
70194	Johnston Federal #4	03/10/98	1	0.00	49.55	0.00	0.00	5.45
70194	Johnston Federal #4	03/12/98	1	0.00	49.54	0.00	0.00	5.45
70194	Johnston Federal #4	03/17/98	1	0.00	49.61	0.00	0.10	5.55
70194	Johnston Federal #4	03/26/98	1	49.61	49.63	0.02	0.50	6.05
70194	Johnston Federal #4	04/09/98	1	49.51	49.55	0.04	0.50	6.55
70194	Johnston Federal #4	04/15/98	1	49.49	49.56	0.07	0.50	7.05
70194	Johnston Federal #4	04/24/98	1	49.60	49.62	0.02	0.10	7.15
70194	Johnston Federal #4	06/17/98	1	49.46	49.54	0.08	0.50	7.65
70194	Johnston Federal #4	07/13/98	1	49.51	49.56	0.05	0.00	7.65