

3R - 239

REPORTS

DATE:

1999-1998



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,

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

**STATE GAS COM N #1
Meter/Line ID - 71669**

SITE DETAILS

Legals - Twn: 31N Rng: 12W Sec: 16 Unit: H
NMOCD Hazard Ranking: 30 Land Type: STATE
Operator: AMOCO PRODUCTION COMPANY

PREVIOUS ACTIVITIES

Site Assessment: Mar-94 Excavation: May-94 (80 cy) Soil Boring: Oct-95
Monitor Well: Oct-95 Down-gradient MW's: Nov-95 PSH Removal Initiated: Jul-97

1999 ACTIVITIES

Phase Separated Hydrocarbon (PSH) Removal - PSH removal from MW-1, MW-2 and MW-3 continued through 1999.

Monitor Well Installation - EPFS has requested permission from the State of New Mexico for downgradient offsite monitoring wells. Archeological survey was completed and are waiting approval.

SUMMARY TABLES

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

SITE MAP

A site map showing the groundwater gradient is presented as Figures 1-3.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site in 1999.

DISPOSITION OF GENERATED WASTES

All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico.

ISOCONCENTRATION MAPS

None generated for this site.

CONCLUSIONS

A total of 247.05 gallons of PSH have been removed from the site to date. A total of 8.5 gallons of PSH was removed from MW-1 in 1999. A total of 20.94 gallons of PSH was removed from MW-2 in 1999. A total of 3.77 gallons of PSH was removed from MW-3 in 1999. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, New Mexico. Using the most reliable set of data collected for groundwater elevations, the apparent groundwater gradient is toward the southeast.

Pertinent data from previous groundwater reports include the following: Based on groundwater levels collected from four monitoring wells, the groundwater flow trends to the southeast on this site.

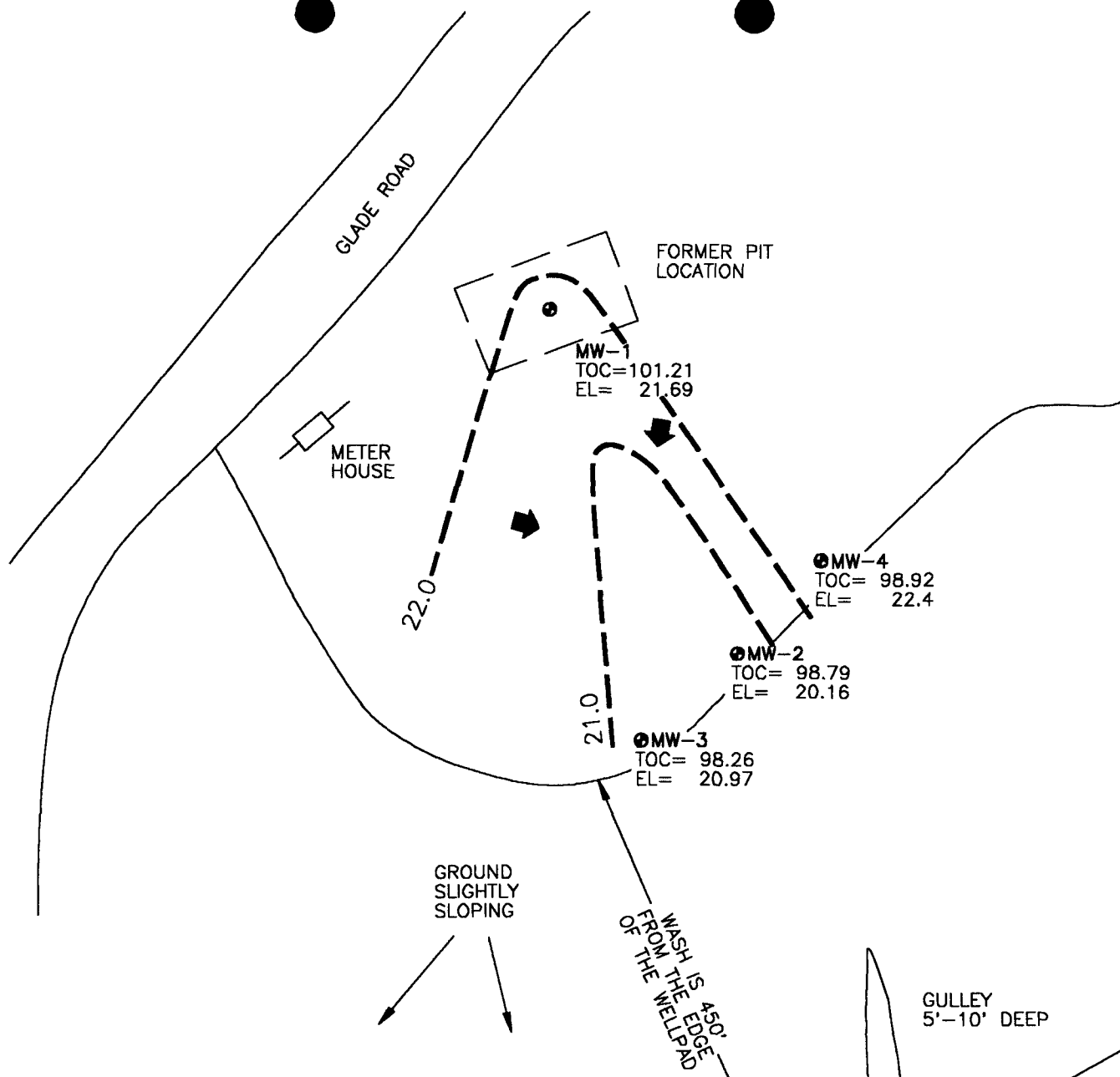
EPFS GROUNDWATER PITS

1999 ANNUAL GROUNDWATER REPORT

Product has been measured in all four monitoring wells, but currently exists only in monitoring wells MW-1, MW-2 and MW-3. Due to the depth to groundwater and difficult drilling conditions the horizontal extent of migration of hydrocarbon constituents in the groundwater has not been determined. Offsite work will be required to determine the down-gradient extent.

RECOMMENDATIONS

- Continue product removal at MW-1, MW-2, and MW-3 as needed.
- Once approval is granted from the State of New Mexico, install downgradient monitoring wells.
- Following removal of product, sample annually until BTEX levels are below New Mexico Groundwater Standards, then sample quarterly for closure.
- Collect groundwater elevation data at least 24 hours after removing passive skimmers from hydrocarbon recovery monitor wells.



LEGEND

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

0 25
FEET



COL 17520B0-007



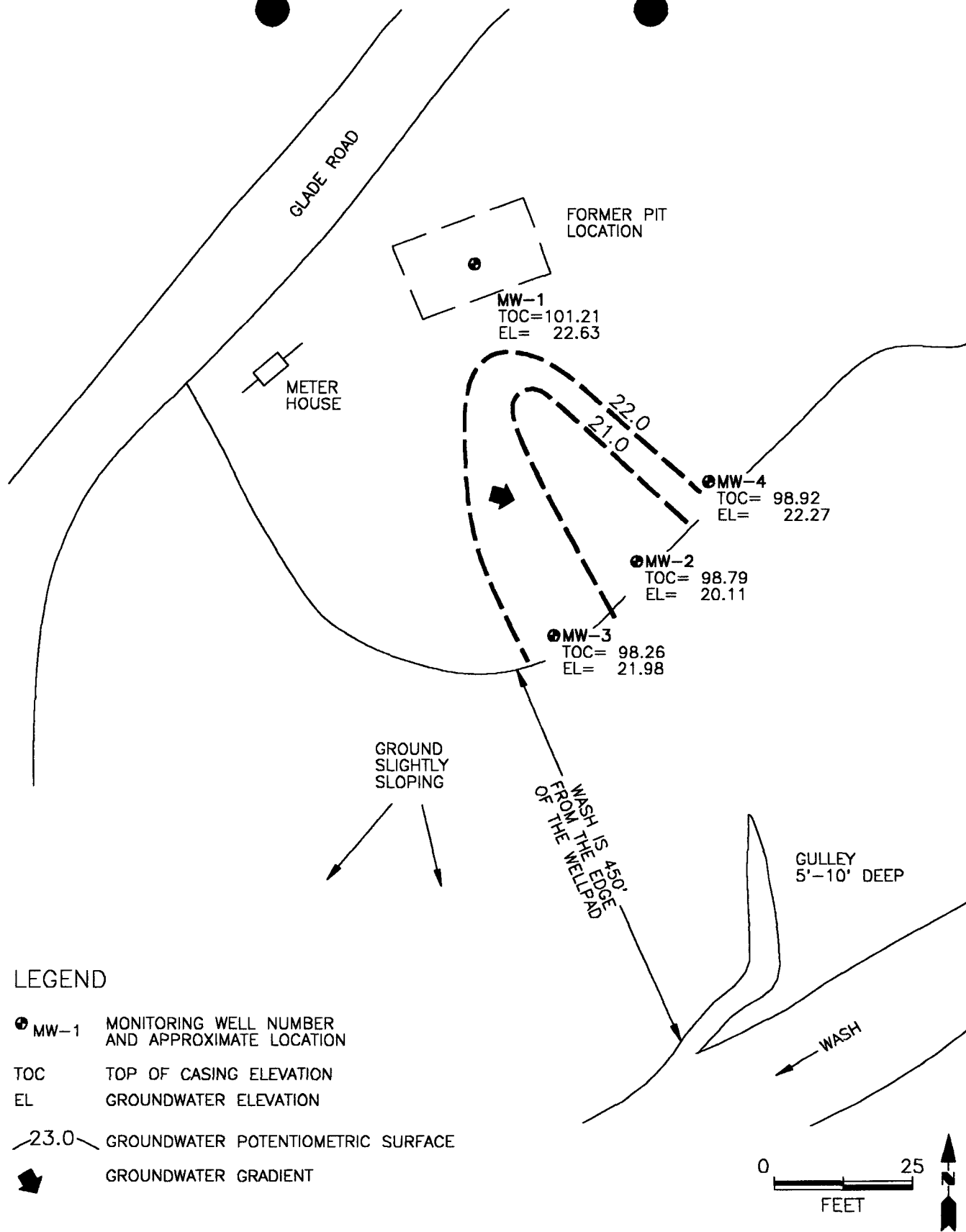
TITLE:
STATE GAS COM N#1
71669
FEBRUARY 17, 1999

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

DES.: CC
APPD:
REV.: 0

PROJECT NO.: 17520
EPFS GW PITS

FIGURE 1



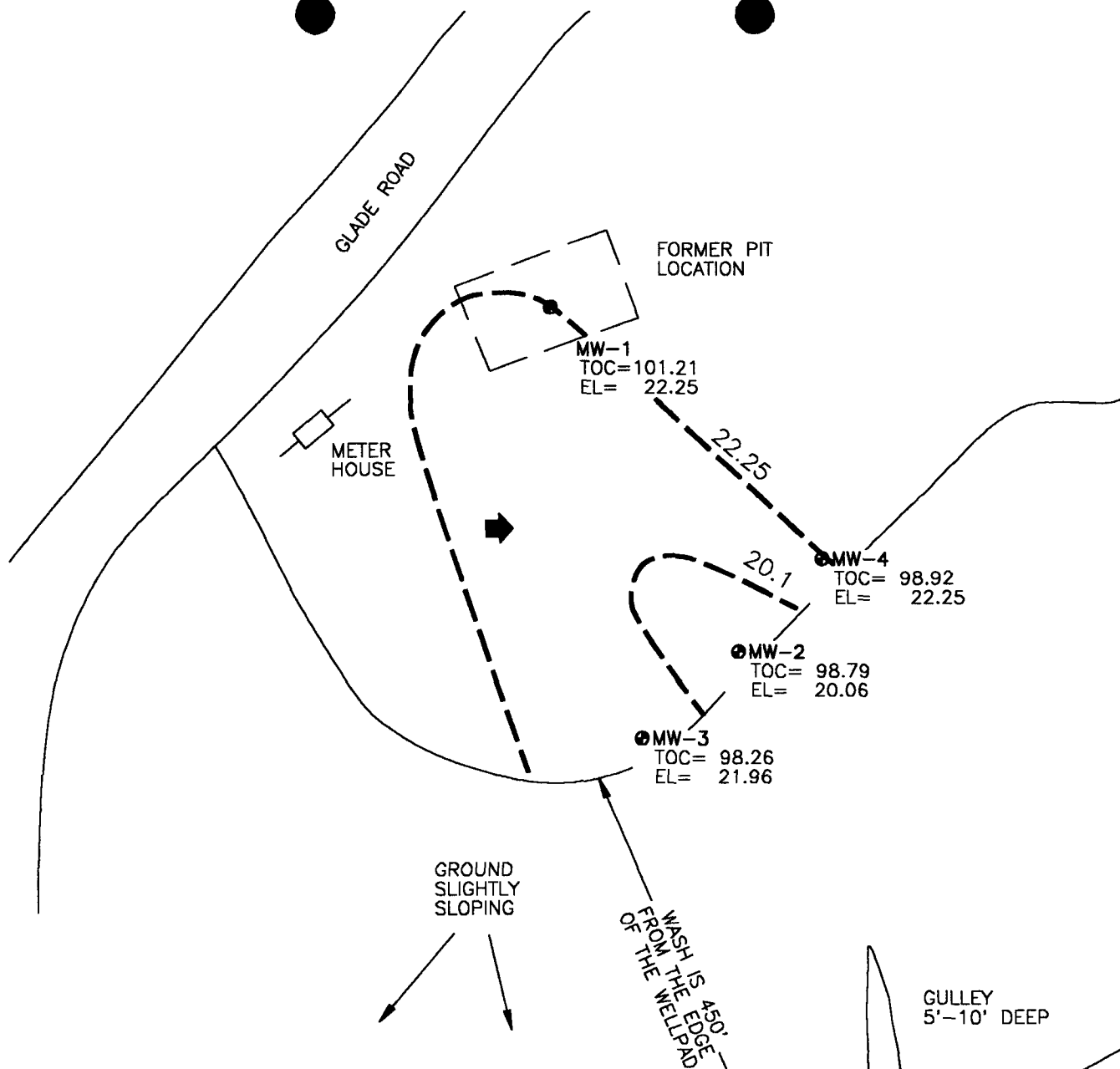
COL 17520B0-00B



TITLE:
STATE GAS COM N#1
71669
SEPTEMBER 14, 1999

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

PROJECT NO.: 17520 EPFS GW PITS
FIGURE 2



LEGEND

● MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION

TOC TOP OF CASING ELEVATION

EL GROUNDWATER ELEVATION

—23.0— GROUNDWATER POTENTIOMETRIC SURFACE

➔ GROUNDWATER GRADIENT

GROUNDWATER GRADIENT WITH SKIMMERS REMOVED FOR 1 WEEK

0 25
FEET



COL 1752080-009



TITLE:

STATE GAS COM N#1
71669
NOVEMBER 4, 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/Well
71669	STATE GAS COM #1	01/05/99	1	79.47	79.83	0.36	0.75	69.55
71669	STATE GAS COM #1	01/11/99	1	79.51	79.68	0.17	0.25	69.80
71669	STATE GAS COM #1	02/03/99	1	79.15	79.77	0.62	0.34	70.14
71669	STATE GAS COM #1	02/17/99	1	79.37	79.90	0.53	1.25	71.39
71669	STATE GAS COM #1	03/02/99	1	79.15	79.77	0.62	0.33	71.72
71669	STATE GAS COM #1	03/05/99	1	79.35	79.62	0.27	0.33	72.05
71669	STATE GAS COM #1	03/11/99	1	79.22	79.44	0.22	0.50	72.55
71669	STATE GAS COM #1	03/25/99	1	78.30	78.41	0.11	0.33	72.88
71669	STATE GAS COM #1	03/31/99	1	79.16	79.27	0.11	0.33	73.21
71669	STATE GAS COM #1	04/09/99	1	79.39	79.44	0.06	0.50	73.71
71669	STATE GAS COM #1	04/16/99	1	79.05	79.45	0.40	0.33	74.04
71669	STATE GAS COM #1	04/30/99	1	79.30	79.56	0.26	0.50	74.54
71669	STATE GAS COM #1	05/27/99	1	79.23	79.25	0.02	0.75	75.29
71669	STATE GAS COM #1	08/06/99	1	78.39	79.35	0.96	1.00	76.29
71669	STATE GAS COM #1	08/16/99	1	77.01	77.75	0.74	0.00	76.29
71669	STATE GAS COM #1	09/14/99	1	78.56	78.58	0.02	1.50	77.79
71669	STATE GAS COM #1	10/01/99	1	77.05	77.65	0.60	0.00	77.79
71669	STATE GAS COM #1	10/15/99	1	0.00	78.85	0.00	0.25	78.04
71669	STATE GAS COM #1	10/29/99	1	78.88	78.88	0.01	0.01	78.05
71669	STATE GAS COM #1	11/04/99	1	78.95	78.96	0.01	0.00	78.05
71669	STATE GAS COM #1	12/08/99	1	76.99	77.16	0.17	0.00	78.05
71669	STATE GAS COM #1	01/05/99	2	78.02	80.36	2.34	1.25	107.77
71669	STATE GAS COM #1	01/11/99	2	78.46	80.13	1.67	1.25	109.02
71669	STATE GAS COM #1	02/03/99	2	78.12	80.06	1.94	1.34	110.36

TABLE 2

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed (Gallons)	Cumulative Gallons/Well
71669	STATE GAS COM #1	02/17/99	2	77.93	80.27	2.34	1.27	111.63
71669	STATE GAS COM #1	03/05/99	2	78.47	79.23	0.76	1.33	112.96
71669	STATE GAS COM #1	03/11/99	2	78.49	79.31	0.82	1.25	114.21
71669	STATE GAS COM #1	03/25/99	2	78.26	78.71	0.45	1.50	115.71
71669	STATE GAS COM #1	03/31/99	2	78.94	79.48	0.54	1.50	117.21
71669	STATE GAS COM #1	04/09/99	2	78.02	79.99	1.97	1.50	118.71
71669	STATE GAS COM #1	04/16/99	2	78.31	80.30	1.99	1.25	119.96
71669	STATE GAS COM #1	05/27/99	2	78.15	80.65	2.50	1.75	121.71
71669	STATE GAS COM #1	06/09/99	2	78.08	80.58	2.50	1.25	122.96
71669	STATE GAS COM #1	08/06/99	2	77.61	79.87	2.26	0.50	123.46
71669	STATE GAS COM #1	08/16/99	2	77.98	79.88	1.90	1.00	124.46
71669	STATE GAS COM #1	09/14/99	2	77.95	80.41	2.46	0.25	124.71
71669	STATE GAS COM #1	10/01/99	2	76.29	77.65	1.36	0.00	124.71
71669	STATE GAS COM #1	10/15/99	2	78.31	79.42	1.11	1.50	126.21
71669	STATE GAS COM #1	10/22/99	2	78.81	78.95	0.15	1.50	127.71
71669	STATE GAS COM #1	10/29/99	2	78.58	78.60	0.02	1.00	128.71
71669	STATE GAS COM #1	11/04/99	2	78.70	78.81	0.11	0.00	128.71
71669	STATE GAS COM #1	11/29/99	2	76.52	77.35	0.83	0.00	128.71
71669	STATE GAS COM #1	12/08/99	2	76.27	77.13	0.86	0.00	128.71
71669	STATE GAS COM #1	12/15/99	2	78.05	78.95	0.90	0.00	128.71
71669	STATE GAS COM #1	01/05/99	3	0.00	77.28	0.00	0.01	36.52
71669	STATE GAS COM #1	01/11/99	3	0.00	77.20	0.00	0.00	36.52
71669	STATE GAS COM #1	02/03/99	3	77.25	77.26	0.01	0.34	36.86

TABLE 2

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed (Gallons)	Cumulative Gallons/Well
71669	STATE GAS COM #1	02/17/99	3	77.27	77.29	0.02	1.27	38.13
71669	STATE GAS COM #1	03/05/99	3	77.13	77.16	0.03	0.00	38.13
71669	STATE GAS COM #1	03/11/99	3	77.04	77.05	0.01	0.00	38.13
71669	STATE GAS COM #1	03/25/99	3	77.22	77.22	0.00	0.00	38.13
71669	STATE GAS COM #1	03/31/99	3	77.01	77.02	0.01	0.00	38.13
71669	STATE GAS COM #1	04/09/99	3	77.02	77.02	0.00	0.16	38.29
71669	STATE GAS COM #1	04/16/99	3	77.23	77.23	0.00	0.00	38.29
71669	STATE GAS COM #1	06/09/99	3	0.00	76.14	0.00	0.00	38.29
71669	STATE GAS COM #1	08/06/99	3	76.16	76.55	0.39	0.00	38.29
71669	STATE GAS COM #1	08/16/99	3	76.33	76.78	0.45	0.00	38.29
71669	STATE GAS COM #1	09/14/99	3	76.14	76.61	0.47	0.00	38.29
71669	STATE GAS COM #1	10/01/99	3	76.09	76.58	0.49	0.00	38.29
71669	STATE GAS COM #1	10/29/99	3	76.07	76.62	0.55	0.00	38.29
71669	STATE GAS COM #1	11/04/99	3	76.13	76.72	0.59	0.00	38.29
71669	STATE GAS COM #1	11/29/99	3	77.69	78.37	0.68	0.50	38.79
71669	STATE GAS COM #1	12/08/99	3	76.05	76.05	0.45	0.00	38.79
71669	STATE GAS COM #1	12/15/99	3	77.33	77.34	0.01	1.50	40.29
71669	STATE GAS COM #1	02/17/99	4	76.50	76.52	0.02	0.00	0.00
71669	STATE GAS COM #1	04/30/99	4	76.56	76.57	0.01	0.00	0.00
71669	STATE GAS COM #1	06/09/99	4	0.00	76.14	0.00	0.00	0.00
71669	STATE GAS COM #1	08/06/99	4	0.00	76.64	0.00	0.00	0.00
71669	STATE GAS COM #1	08/16/99	4	0.00	76.79	0.00	0.00	0.00
71669	STATE GAS COM #1	09/14/99	4	0.00	76.65	0.00	0.00	0.00
71669	STATE GAS COM #1	10/01/99	4	76.04	76.05	0.01	0.00	0.00
71669	STATE GAS COM #1	10/29/99	4	0.00	76.57	0.00	0.00	0.00
71669	STATE GAS COM #1	11/04/99	4	76.66	76.67	0.01	0.00	0.00
71669	STATE GAS COM #1	12/08/99	4	76.50	76.50	0.00	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 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

STATE GAS COM N #1
Meter/Line ID - 71669

RECEIVED

APR 05 1999

SITE DETAILS

Legals - Twn: 31N Rng: 12W

Sec: 16

Unit: H

ENVIRONMENTAL BUREAU

NMOCD Hazard Ranking: 30

Land Type: STATE

OIL CONSERVATION DIVISION

Operator: AMOCO PRODUCTION COMPANY

PREVIOUS ACTIVITIES

Site Assessment: Mar-94

Excavation: May-94 (80 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, MW-2 and MW-3 continued through 1998. Groundwater level data and PSH recovery data are presented in Table 2. A site map is presented as Figure 1.

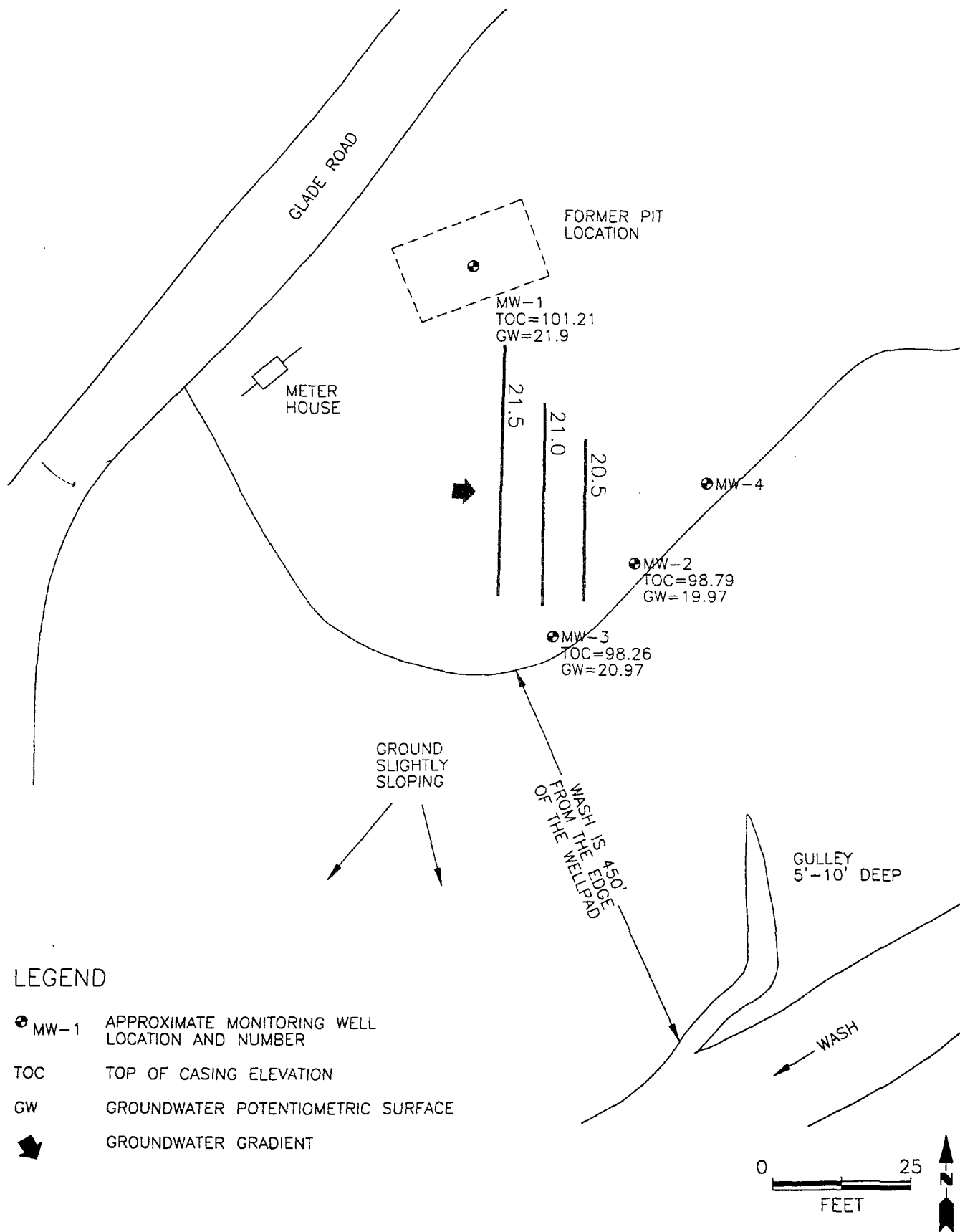
CONCLUSIONS

A total of 211.83 gallons of PSH have been removed from the site to date. A total of 27.1 gallons of PSH was removed from MW-1 in 1998. A total of 41.52 gallons of PSH was removed from MW-2 in 1998. A total of 23.01 gallons of PSH was removed from MW-3 in 1998. All PSH has been disposed of at the EPFS Kutz Separator in Bloomfield, NM. Using the most reliable set of data collected for groundwater elevations the apparent groundwater gradient is toward the east.

Pertinent data from the 1997 groundwater report includes the following: Based on groundwater levels collected from four monitoring wells, the groundwater flow trends to the southeast on this site. Product has been measured in all four monitoring wells, but currently exists only in monitoring wells MW-1, MW-2 and MW-3. Due to the depth to groundwater and difficult drilling conditions the horizontal extent of migration of hydrocarbon constituents in the groundwater has not been determined. Offsite work will be required to determine the down-gradient extent.

RECOMMENDATIONS

- Continue product removal at MW-1, MW-2, and MW-3 as needed.
- Off-site permission required to complete down-gradient investigation.
- Following removal of product, sample annually until BTEX levels are below New Mexico Groundwater Standards, then sample quarterly for closure.
- Collect groundwater elevation data at least 24 hours after removing passive skimmers from hydrocarbon recovery monitor wells.



LEGEND

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

COL. 1752080-006



TITLE:
STATE GAS COM N#1
METER 71669
10/8/98

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
71669	State Gas Com N#1	01/12/98	2	77.16	79.85	2.69	1.25	66.25
71669	State Gas Com N#1	01/12/98	1	78.46	79.99	1.53	1.25	42.95
71669	State Gas Com N#1	01/12/98	3	76.89	78.10	1.21	1.25	14.75
71669	State Gas Com N#1	01/15/98	2	0.00	0.00	0.00	1.25	67.50
71669	State Gas Com N#1	01/19/98	1	78.42	79.91	1.49	1.25	44.20
71669	State Gas Com N#1	01/19/98	3	76.89	77.70	0.81	1.25	16.00
71669	State Gas Com N#1	01/19/98	4	77.44	77.46	0.02	0.00	0.00
71669	State Gas Com N#1	01/23/98	1	78.67	80.02	1.35	1.25	43.45
71669	State Gas Com N#1	01/23/98	2	75.92	77.35	1.43	0.00	67.50
71669	State Gas Com N#1	01/23/98	3	77.07	77.83	0.76	1.25	17.25
71669	State Gas Com N#1	01/23/98	4	0.00	77.60	0.00	0.00	0.00
71669	State Gas Com N#1	01/26/98	2	0.00	0.00	0.00	4.59	72.09
71669	State Gas Com N#1	01/26/98	1	78.98	79.97	0.99	1.25	44.70
71669	State Gas Com N#1	01/26/98	3	77.29	77.65	0.36	1.25	18.50
71669	State Gas Com N#1	02/06/98	2	0.00	0.00	0.00	4.78	76.87
71669	State Gas Com N#1	02/06/98	1	78.97	80.22	1.25	1.25	45.95
71669	State Gas Com N#1	02/06/98	3	77.26	77.85	0.59	1.25	19.75
71669	State Gas Com N#1	02/06/98	4	0.00	77.67	0.00	0.00	0.00
71669	State Gas Com N#1	02/13/98	2	0.00	0.00	0.00	1.91	78.78
71669	State Gas Com N#1	02/13/98	1	78.85	80.09	1.24	1.25	47.20
71669	State Gas Com N#1	02/13/98	3	77.10	77.64	0.54	1.25	21.00
71669	State Gas Com N#1	02/20/98	2	0.00	0.00	0.00	2.87	81.65
71669	State Gas Com N#1	02/20/98	1	78.82	80.07	1.25	1.25	48.45
71669	State Gas Com N#1	02/20/98	3	77.07	77.70	0.63	1.25	22.25
71669	State Gas Com N#1	02/20/98	4	0.00	77.63	0.00	0.00	0.00
71669	State Gas Com N#1	02/23/98	2	0.00	0.00	0.00	0.57	82.22
71669	State Gas Com N#1	02/23/98	1	79.14	80.09	0.95	1.25	49.70
71669	State Gas Com N#1	02/23/98	3	77.30	77.67	0.37	1.25	23.50

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
71669	State Gas Com N#1	03/02/98	2	0.00	0.00	0.00	2.29	84.51
71669	State Gas Com N#1	03/02/98	1	79.16	80.08	0.92	1.25	50.95
71669	State Gas Com N#1	03/02/98	3	77.17	77.71	0.54	1.25	24.75
71669	State Gas Com N#1	03/04/98	2	0.00	0.00	0.00	0.00	84.51
71669	State Gas Com N#1	03/04/98	1	79.17	79.70	0.53	1.25	52.20
71669	State Gas Com N#1	03/04/98	3	77.16	77.43	0.27	1.25	26.00
71669	State Gas Com N#1	03/06/98	2	0.00	0.00	0.00	0.57	85.08
71669	State Gas Com N#1	03/06/98	1	79.29	79.61	0.32	1.25	53.45
71669	State Gas Com N#1	03/06/98	3	77.16	77.32	0.16	1.25	27.25
71669	State Gas Com N#1	03/09/98	2	0.00	0.00	0.00	1.53	86.61
71669	State Gas Com N#1	03/09/98	1	79.44	79.88	0.44	1.25	54.70
71669	State Gas Com N#1	03/09/98	3	77.34	77.63	0.29	1.25	28.50
71669	State Gas Com N#1	03/10/98	1	79.46	79.75	0.29	1.25	55.95
71669	State Gas Com N#1	03/10/98	3	77.46	77.63	0.18	1.25	29.75
71669	State Gas Com N#1	03/12/98	2	0.00	0.00	0.00	0.19	86.80
71669	State Gas Com N#1	03/12/98	1	79.50	79.67	0.17	1.25	57.20
71669	State Gas Com N#1	03/12/98	3	77.35	77.48	0.13	1.25	31.00
71669	State Gas Com N#1	03/16/98	2	76.25	76.43	0.18	0.00	86.80
71669	State Gas Com N#1	03/16/98	1	76.82	77.09	0.27	0.00	57.20
71669	State Gas Com N#1	03/16/98	3	75.74	75.99	0.25	0.00	31.00
71669	State Gas Com N#1	03/17/98	2	0.00	0.00	0.00	0.00	86.80
71669	State Gas Com N#1	03/17/98	1	78.76	78.77	0.01	0.50	57.70
71669	State Gas Com N#1	03/17/98	3	76.87	76.88	0.01	0.50	31.50
71669	State Gas Com N#1	04/09/98	1	79.15	79.18	0.03	1.25	58.95
71669	State Gas Com N#1	04/09/98	3	77.37	77.38	0.01	1.00	32.50
71669	State Gas Com N#1	04/09/98	2	76.51	76.61	0.10	1.34	88.14
71669	State Gas Com N#1	04/28/98	2	0.00	0.00	0.00	0.00	88.14
71669	State Gas Com N#1	04/28/98	1	79.37	79.42	0.05	1.25	60.20

TABLE 2

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed	Cumulative
71669	State Gas Com N#1	04/28/98	3	77.25	77.26	0.01	0.50	33.00
71669	State Gas Com N#1	05/18/98	2	0.00	0.00	0.00	0.38	88.52
71669	State Gas Com N#1	05/18/98	1	79.22	79.75	0.53	0.50	60.70
71669	State Gas Com N#1	05/18/98	3	77.27	77.30	0.03	0.75	33.75
71669	State Gas Com N#1	06/10/98	2	78.01	78.97	0.96	1.25	89.77
71669	State Gas Com N#1	06/10/98	1	79.21	79.65	0.44	0.50	61.70
71669	State Gas Com N#1	06/10/98	3	0.00	77.17	0.00	0.25	34.25
71669	State Gas Com N#1	06/03/98	2	76.11	77.44	1.33	0.00	88.52
71669	State Gas Com N#1	06/03/98	1	78.76	79.62	0.86	0.50	61.20
71669	State Gas Com N#1	06/03/98	3	0.00	77.09	0.00	0.25	34.00
71669	State Gas Com N#1	06/03/98	4	0.00	76.37	0.00	0.00	0.00
71669	State Gas Com N#1	06/18/98	2	78.26	79.24	0.98	1.25	91.02
71669	State Gas Com N#1	06/18/98	1	79.47	79.72	0.25	0.50	62.20
71669	State Gas Com N#1	06/18/98	3	0.00	77.31	0.00	0.10	34.35
71669	State Gas Com N#1	06/24/98	2	78.77	79.01	0.24	1.25	92.27
71669	State Gas Com N#1	06/24/98	1	79.45	79.63	0.18	0.25	62.45
71669	State Gas Com N#1	06/24/98	3	0.00	77.15	0.00	0.00	34.35
71669	State Gas Com N#1	07/14/98	1	79.51	79.83	0.32	0.50	62.95
71669	State Gas Com N#1	07/14/98	2	78.33	79.71	1.38	1.25	93.52
71669	State Gas Com N#1	07/14/98	3	77.25	77.26	0.01	0.25	34.60
71669	State Gas Com N#1	10/05/98	1	78.64	80.59	1.95	1.25	64.20
71669	State Gas Com N#1	10/05/98	2	77.79	80.20	2.41	1.25	94.77
71669	State Gas Com N#1	10/05/98	3	77.53	77.64	0.11	1.25	35.85
71669	State Gas Com N #1	10/08/98	1	79.17	79.78	0.61	1.25	65.45
71669	State Gas Com N #1	10/08/98	2	78.58	79.75	1.17	1.25	96.02
71669	State Gas Com N #1	10/08/98	3	77.35	77.36	0.01	0.50	36.35
71669	State Gas Com N #1	10/26/98	1	79.47	79.73	0.26	0.50	65.95
71669	State Gas Com N #1	10/26/98	2	78.12	79.73	1.61	1.50	97.52

TABLE 2

Meter/Line #	Location/Line Name	Date	MW	Depth to Product	Depth to Water	Product Thickness	Volume Removed	Cumulative
71669	State Gas Com N #1	10/26/98	3	0.00	77.17	0.00	0.10	36.45
71669	State Gas Com N #1	11/10/98	3	0.00	77.25		0.10	36.55
71669	State Gas Com N #1	11/10/98	2	78.03	79.93	1.90	1.50	99.02
71669	State Gas Com N #1	11/10/98	1	79.47	79.86	0.39	1.25	67.20
71669	State Gas Com N #1	11/19/98	1	79.52	79.76	0.24	0.50	67.70
71669	State Gas Com N #1	11/19/98	2	78.42	79.67	1.25	1.50	100.52
71669	State Gas Com N #1	11/19/98	3	0.00	77.24	0.00	0.01	36.46
71669	State Gas Com N #1	11/24/98	1	0.00	79.27	0.00	0.50	68.20
71669	State Gas Com N #1	11/24/98	2	78.80	79.41	0.61	1.50	102.02
71669	State Gas Com N #1	11/24/98	3	0.00	77.20	0.00	0.00	36.46
71669	State Gas Com N #1	12/07/98	2	78.23	79.82	1.59	1.50	103.52
71669	State Gas Com N #1	12/07/98	1	79.37	79.81	0.44	0.50	68.70
71669	State Gas Com N #1	12/07/98	3	0.00	77.25	0.00	0.05	36.51
71669	State Gas Com N #1	12/14/98	1	79.52	79.67	0.15	0.25	68.95
71669	State Gas Com N #1	12/14/98	2	78.42	80.16	1.74	1.50	105.02
71669	State Gas Com N #1	12/14/98	3	0.00	77.22	0.00	0.00	36.51
71669	State Gas Com N #1	12/21/98	2	78.31	79.76	1.45	1.50	106.52
71669	State Gas Com N #1	12/21/98	1	79.55	79.75	0.20	0.10	68.80
71669	State Gas Com N #1	12/21/98	3	0.00	77.19	0.00	0.00	36.51