

AP - 013

ANNUAL MONITORING REPORT

YEAR(S):
2004

2004
ANNUAL MONITORING REPORT

AP-13

TNM 97-18
SW ¼ NE ¼ of SECTION 28, TOWNSHIP 20 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS MARKETING EMS NUMBER: TNM 97-18-KNOWN

Prepared For:

PLAINS MARKETING, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002



Prepared By:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

April, 2005


Rebecca Haskell
Project Manager

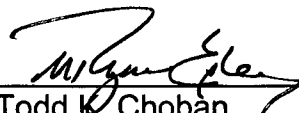
for: 
Todd K. Choban
Vice-President Technical Services

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ENCLOSED ON CD

2004 Annual Monitoring Report

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2004 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

Historic Table 1 and 2 – Groundwater Elevation and BTEX Concentration Table

INTRODUCTION

On behalf of Plains Marketing, L.P., (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on May 29, 2004, project management responsibilities were assumed by NOVA, having previously been managed by Environmental Technology Group, Inc. (ETGI). The TNM 97-18 pipeline release site, formally the responsibility of Enron Oil Trading and Transportation (EOTT) is now the responsibility of Plains. This report is intended to be viewed as a complete document with figures, attachments, tables and text. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2004 only. For reference, the Site Location Map is provided as Figure 1. Cumulative tables and laboratory data are provided on the attached compact disk.

Groundwater monitoring was conducted during four (4) quarterly events in calendar year 2004 to assess the levels and extent of dissolved phase and Phase-Separated Hydrocarbon (PSH) constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The TNM 97-18 release occurred on September 10, 1997. An estimated 83 barrels of crude oil was released from the 16-inch pipeline of which none was recovered. Approximately 799 cubic yards of impacted soil was excavated from the area around the release point and stockpiled onsite prior to ETGI involvement.

Currently there are thirty monitor wells (MW-1 through MW-30) and two recovery wells (RW-1 and RW-2) onsite. A pneumatic product recovery system is operating onsite incorporating three monitor wells (MW-4, MW-5 and MW-7). Manual product recovery has been conducted at monitor wells MW-4, MW-5, MW-7, and MW-10 and on recovery wells RW-1, and RW-2 during the 2004 calendar year.

FIELD ACTIVITIES

Quarterly monitoring events for the reporting period were performed according to the following reduced sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004:

NMOCD APPROVED SAMPLING SCHEDULE					
Location	Schedule	Location	Schedule	Location	Schedule
MW-1	Annually	MW-12	Annually	MW-23	Quarterly
MW-2	Quarterly	MW-13	Annually	MW-24	Quarterly
MW-3	Quarterly	MW-14	Annually	MW-25	Quarterly
MW-4	Quarterly	MW-15	Annually	MW-26	Semi-Annually
MW-5	Quarterly	MW-16	Annually	MW-27	Quarterly

NMOCD APPROVED SAMPLING SCHEDULE					
Location	Schedule	Location	Schedule	Location	Schedule
MW-6	Quarterly	MW-17	Quarterly	MW-28	Semi-Annually
MW-7	Quarterly	MW-18	Quarterly	MW-29	Semi-Annually
MW-8	Annually	MW-19	Annually	MW-30	Semi-Annually
MW-9	Annually	MW-20	Annually	RW-1	Quarterly
MW-10	Quarterly	MW-21	Annually	RW-2	Quarterly
MW-11	Annually	MW-22	Semi-Annually		

The site monitor wells were gauged and sampled on February 10, May 10, August 25, and December 1, 2004. During each sampling event the monitor wells were purged of approximately three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Key Energy utilizing a licensed disposal facility (NMOCD AO SWD-730).

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four (4) quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2004 is provided as Table 1. Historic groundwater elevation data beginning at project inception is enclosed on the attached data disk.

Groundwater elevation contours generated from water level measurements acquired during the quarterly sampling events of 2004 indicated a general gradient of approximately 0.008 ft/ft to the southeast. The corrected groundwater elevations ranged between 3465.19 to 3476.84 feet above mean sea level, in MW-30 on February 10, 2004 and in MW-6 on August 25, 2004, respectively.

A measurable thickness of PSH was measured in nine (9) monitor wells and recovery wells during the reporting period. The average thickness of PSH in monitor wells and recovery wells during the first, second, third and fourth quarters of 2004 were 1.15 feet, 2.03 feet, 1.72 feet, and 1.45 feet, respectively. The maximum thickness of PSH in monitor wells and recovery wells during the first, second, third and fourth quarters of 2004 were 2.94 feet, 10.60 feet, 5.33 feet, and 4.38 feet, respectively. PSH data for the 2004 gauging events can be found in Table 1. Approximately 250 gallons of PSH was recovered from the site during the 2004 reporting period. A total of approximately 1,051 gallons of PSH has been recovered since the start of product inception.

LABORATORY RESULTS

Groundwater samples collected during the first three quarterly monitoring events were delivered to AnalySys Inc., Austin, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method SW846-8260b. Fourth quarter sample analysis was performed by Trace Analysis, Inc., of Lubbock, Texas for determination of BTEX constituent concentrations by EPA Method SW846-8021b. 2004 BTEX constituent concentrations are summarized on Table 2. Historical BTEX constituent concentrations and copies of the laboratory reports for 2004 are provided on the attached data disk. The quarterly

groundwater sample results for benzene and BTEX concentrations are depicted on Figures 3A-3D.

Review of laboratory analytical results of the groundwater samples obtained during the 2004 monitoring period indicate that benzene and BTEX concentrations were below NMOCD regulatory standards in 22 monitor wells and six (6) were above NMOCD regulatory standards. However, during at least one quarterly monitor event, samples from 12 monitor wells and recovery wells displayed concentrations of benzene above the applicable NMOCD Regulatory Standard. Seven (7) monitor wells and recovery wells contained measurable thicknesses of PSH (ranging from 0.01 to 10.60 feet) during the annual monitoring period and were not sampled for at least one quarterly sampling event.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

This report presents the results of monitoring activities for the 2004 annual monitoring period. Currently, there are 30 groundwater monitor wells (MW-1 through MW-30) and two (2) product recovery wells (RW-1 through RW-2) on-site. Manual product recovery occurs on a bi-weekly schedule. Groundwater elevation contours generated from water level measurements acquired indicated a general gradient of approximately 0.008 ft/ft to the southeast.

As discussed above nine (9) monitor wells and recovery wells contained measurable PSH thicknesses in 2004. Approximately 250 gallons of PSH was recovered from the site during the 2004 reporting period. A total of approximately 1,051 gallons of PSH has been recovered since the start of product inception. The average thickness of PSH in monitor wells and recovery wells during the first, second, third and fourth quarters of 2004 were 1.15 feet, 2.03 feet, 1.72 feet, and 1.45 feet, respectively. Throughout 2004 PSH amounts have fluctuated at the site with no obvious increases or decreases.

As discussed above benzene concentrations were above NMOCD regulatory standards in 12 monitor and recovery wells during 2004. Total BTEX concentrations observed in monitor wells on-site exceeded the NMOCD regulatory standard in six (6) monitor wells during the reporting period and 22 were below NMOCD standards. There were seven well locations that contained measurable amounts of PSH during the annual monitoring period and were not sampled.

The Release Notification and Corrective Action Form (C-141) is provided as Appendix A.

ANTICIPATED ACTIONS

Plains is requesting permission from the NMOCD to plug and abandon monitor wells MW-13, MW-19, and MW-29 due to the following conditions.

- Up gradient control along the northern perimeter of the leak zone is provided by MW-1.

- MW-13 and MW-29 have not displayed detectable concentrations of dissolved phase impact in nine (9) consecutive sampling events since 2002.
- MW-19 has not displayed concentrations of dissolved phase impact above the NMOCD Regulatory Limit in nine (9) consecutive quarters since 2002. One (1) detectable concentration of benzene (0.001 mg/L), which was below the applicable NMOCD Regulatory Standard, was detected in that time.

It is also requested that monitor wells MW-22 and MW-26 be placed on an annual sampling schedule based on nine (9) consecutive sampling events in which concentrations of dissolved phase impact have been below NMOCD Regulatory Standards.

A plan will be developed to address the impacted and/or excavated soil remaining on site. Any soil proposals will be addressed under separate cover from this report.

LIMITATIONS

NOVA has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

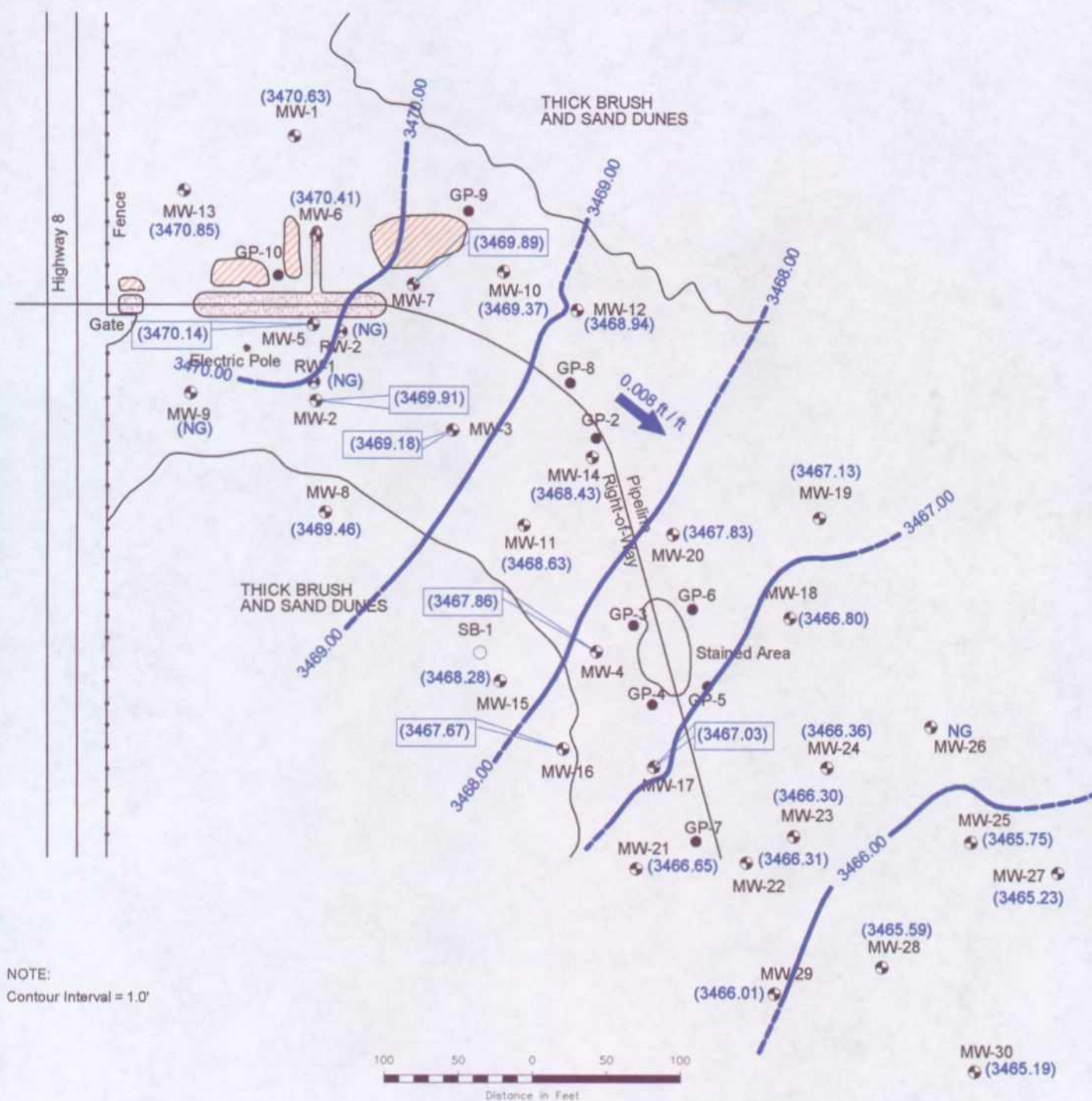
This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

DISTRIBUTION

- Copy 1 Ed Martin
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
- Copy 2: Paul Sheeley and Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 French Drive
Hobbs, NM 88240
- Copy 3: Camille Reynolds
Plains Marketing, L.P.
3112 Highway 82
Lovington, NM
cjreynolds@paalp.com
- Copy 4: Jeff Dann
Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, TX 77002
jpdann@paalp.com
- Copy 5: NOVA Safety and Environmental
2057 Commerce Street
Midland, TX 79703
rhaskell@novatraining.cc

Copy Number:

Figures



LEGEND:			
	Stockpile Soil	NG	Not Gauged
	Excavated Area	NS	Not Sampled
	(3467.57) Groundwater Elevation in Feet	0.008 ft/ft	Groundwater Gradient Direction and Magnitude
	Groundwater Contour Line		

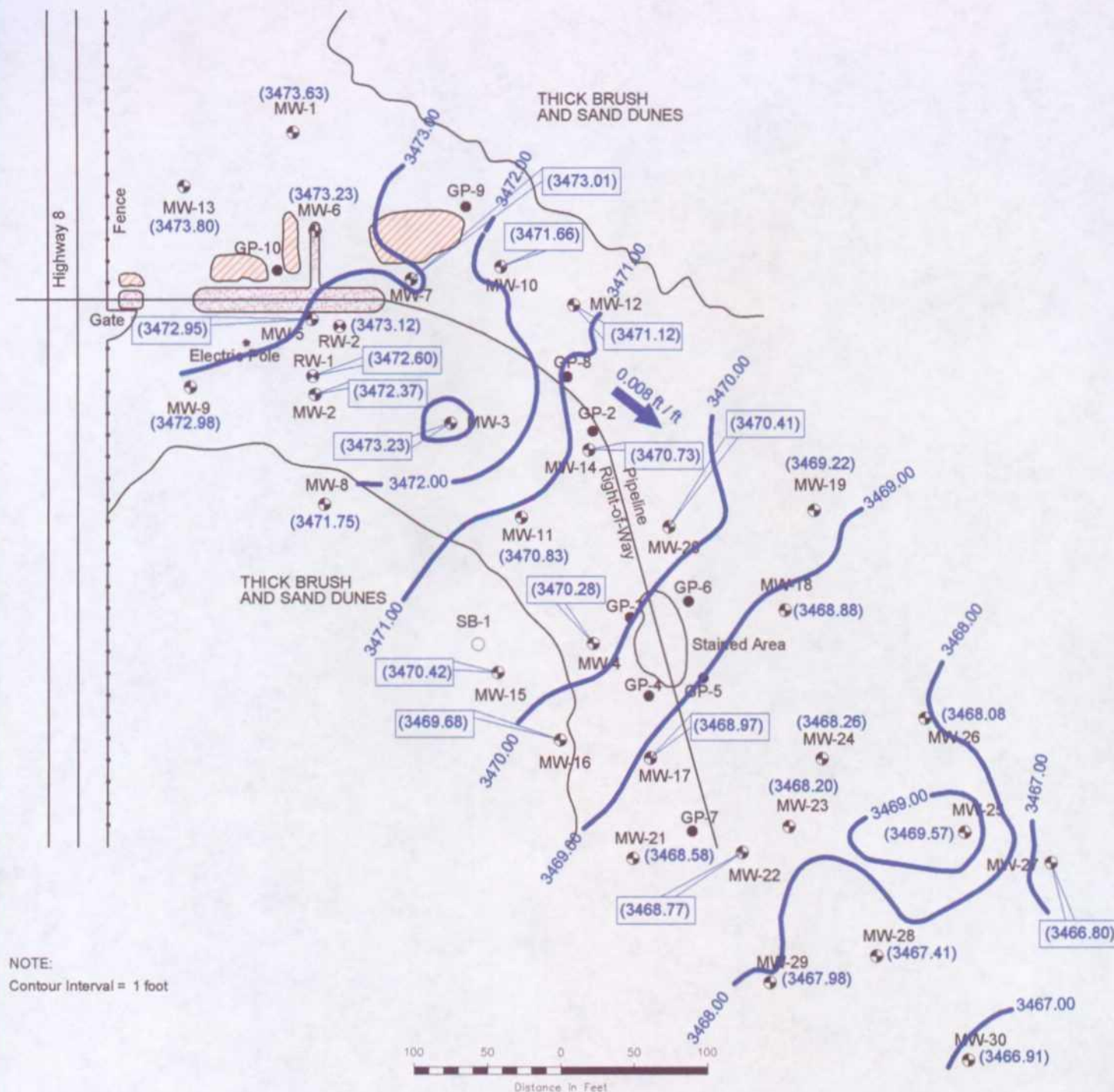
Figure 2A
Inferred Groundwater
Gradient Map
(2/10/04)
Plains Marketing, L.P.
TNM 97-18
Lee County, NM

NOVA Safety and Environmental



Scale: 1" = 100'
February 11, 2005

Prep By: DPM Checked By: R&I



NOTE:
Contour Interval = 1 foot

SW1/4, NE 1/4, Section 28, T20S, R37E

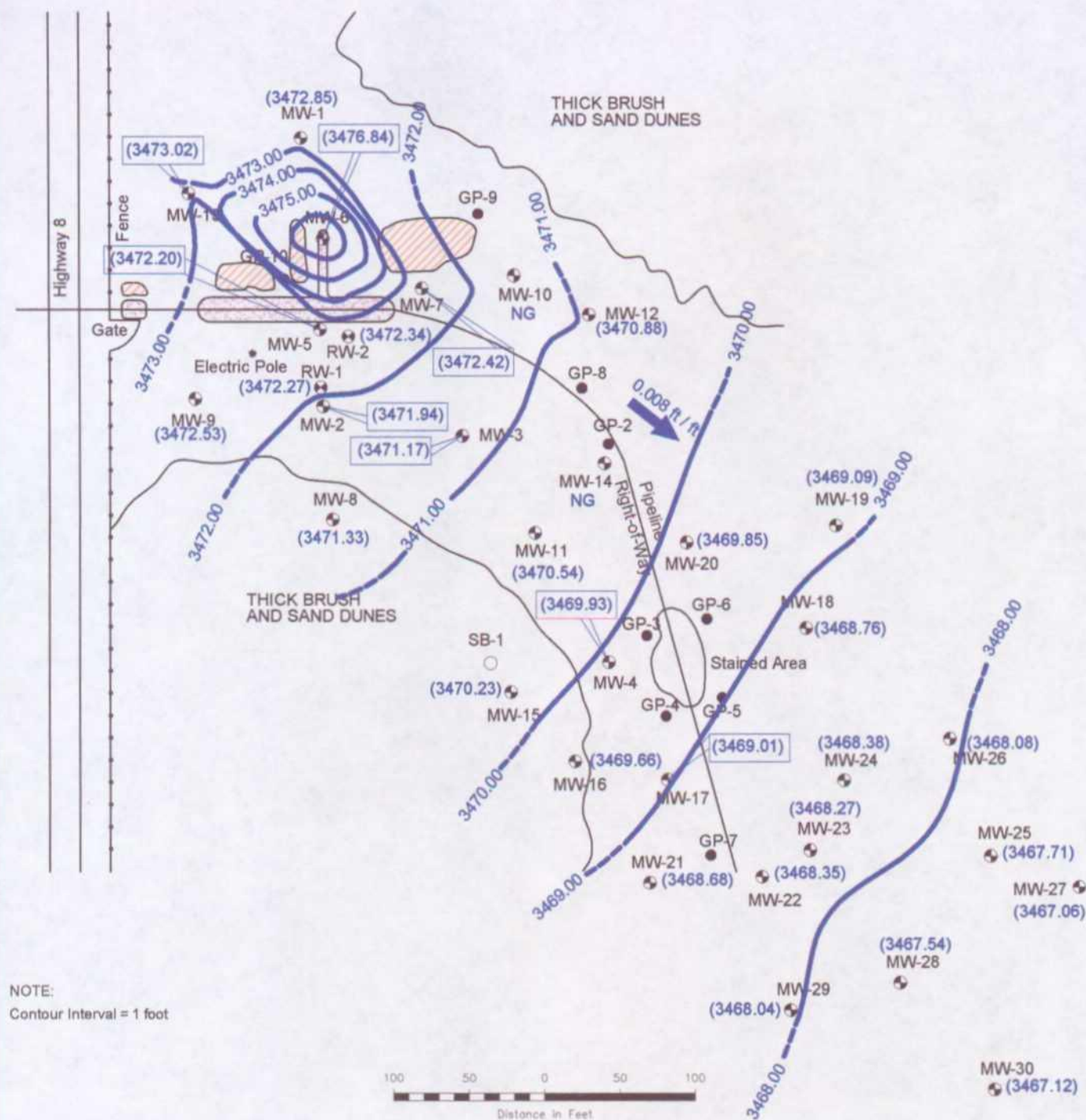
LEGEND:			
	Monitor Well		Stockpile Soil
	Recovery Well		Excavated Area
	Soil Boring		(3467.57) Groundwater Elevation in Feet
	Geoprobe Location		Groundwater Contour Line
			Groundwater Gradient Direction and Magnitude
		NG	Not Gauged
		NS	Not Sampled
		0.008 ft/ft	

Figure 28
Inferred Groundwater
Gradient Map
(5/10/04)
Plains Marketing, L.P.
TNM 97-18
Lee County, NM

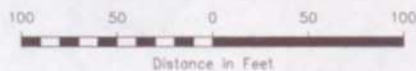
NOVA Safety and Environmental



Scale: 1" = 100' Prep By: DPM Checked By: RPH
February 14, 2005



NOTE:
Contour Interval = 1 foot



SW1/4, NE 1/4, Section 28, T20S, R37E

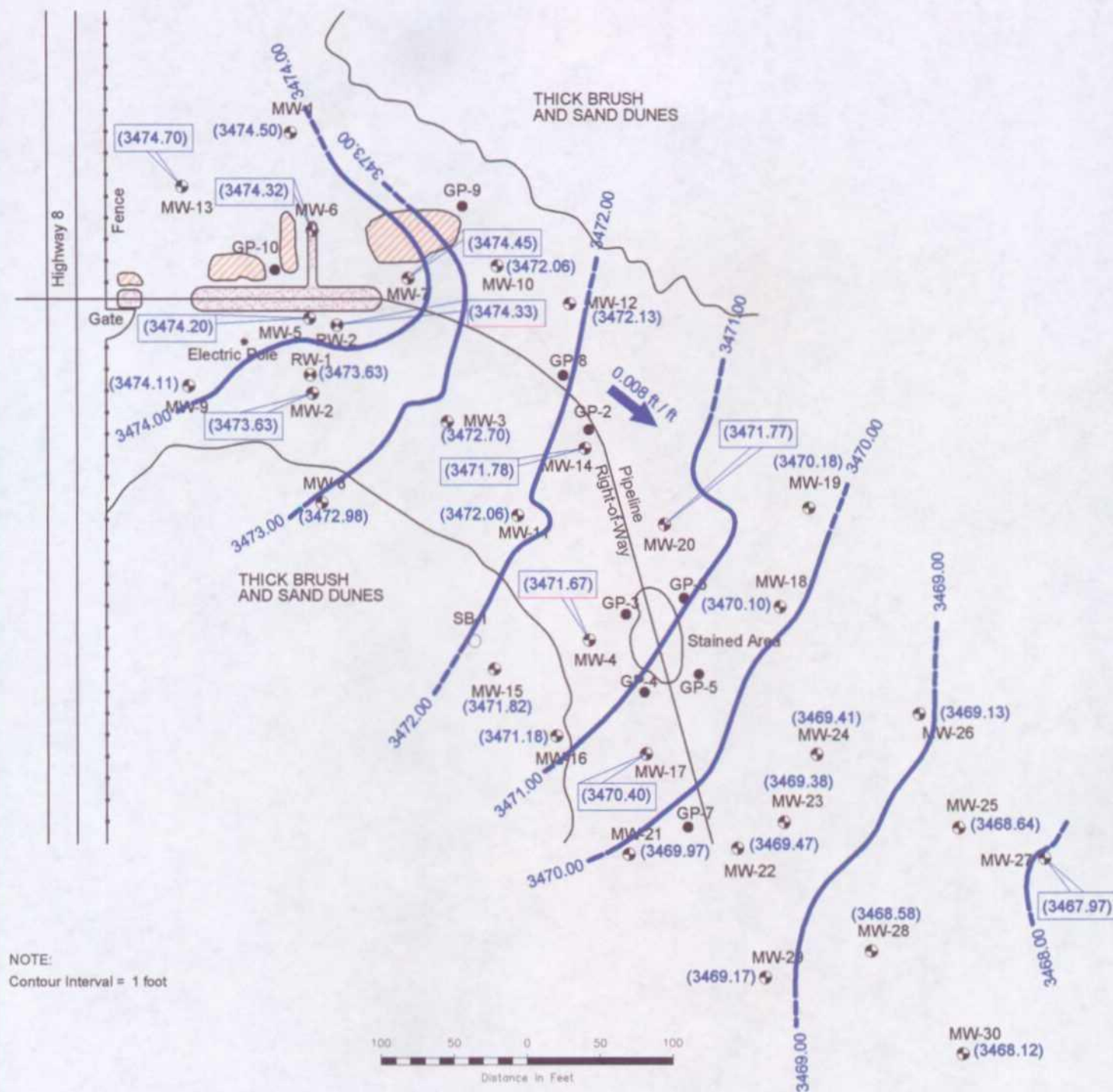
LEGEND:	
	Monitor Well
	Recovery Well
	Soil Boring
	Geoprobe Location
	Stockpile Soil
	Excavated Area
	(3467.57) Groundwater Elevation in Feet
	Groundwater Contour Line
	NG Not Gauged
	NS Not Sampled
	0.008 ft/ft Groundwater Gradient Direction and Magnitude

Figure 2C
Inferred Groundwater
Gradient Map
(8/25/04)
Plains Marketing, L.P.
TNM 97-18
Lee County, NM

NOVA Safety and Environmental



Scale: 1" = 100' Prep By: DPM Checked By: RRM
February 14, 2005



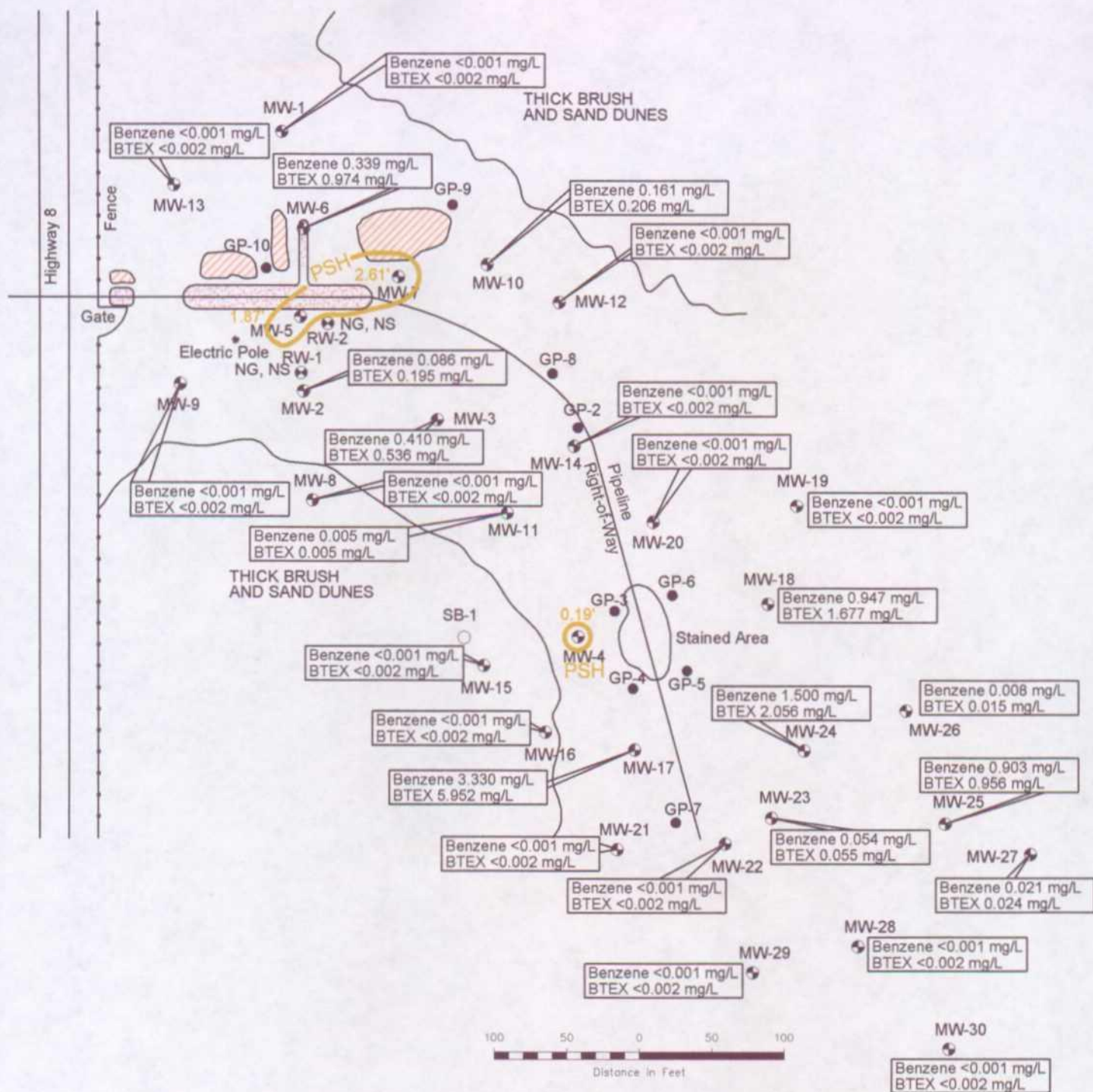
SW1/4, NE 1/4, Section 28, T20S, R37E

LEGEND:	
	Monitor Well
	Recovery Well
	Soil Boring
	Geoprobe Location
	Stockpile Soil
	Excavated Area
	(3467.57) Groundwater Elevation in Feet
	Groundwater Contour Line
	Groundwater Gradient Direction and Magnitude
	NG Not Gauged
	NS Not Sampled

Figure 2D
Inferred Groundwater
Gradient Map
(12/01 Thru 12/02/04)
Paine Marketing, L.P.
T20S R37E
Lea County, NM

NOVA Safety and Environmental





100 50 0 50 100
Distance in Feet

LEGEND:

- Monitor Well
- Recovery Well
- Soil Boring
- Geoprobe Location

- Stockpile Soil
- Excavated Area
- Inferred PSH Extent

Note: PSH thickness in feet

NG Not Gauged

NS Not Sampled



Figure 3A

Groundwater Concentration and Inferred PSH Extent Map (2/10/04)

Plains Marketing, L.P.

TNM 97-18

Lea County, NM

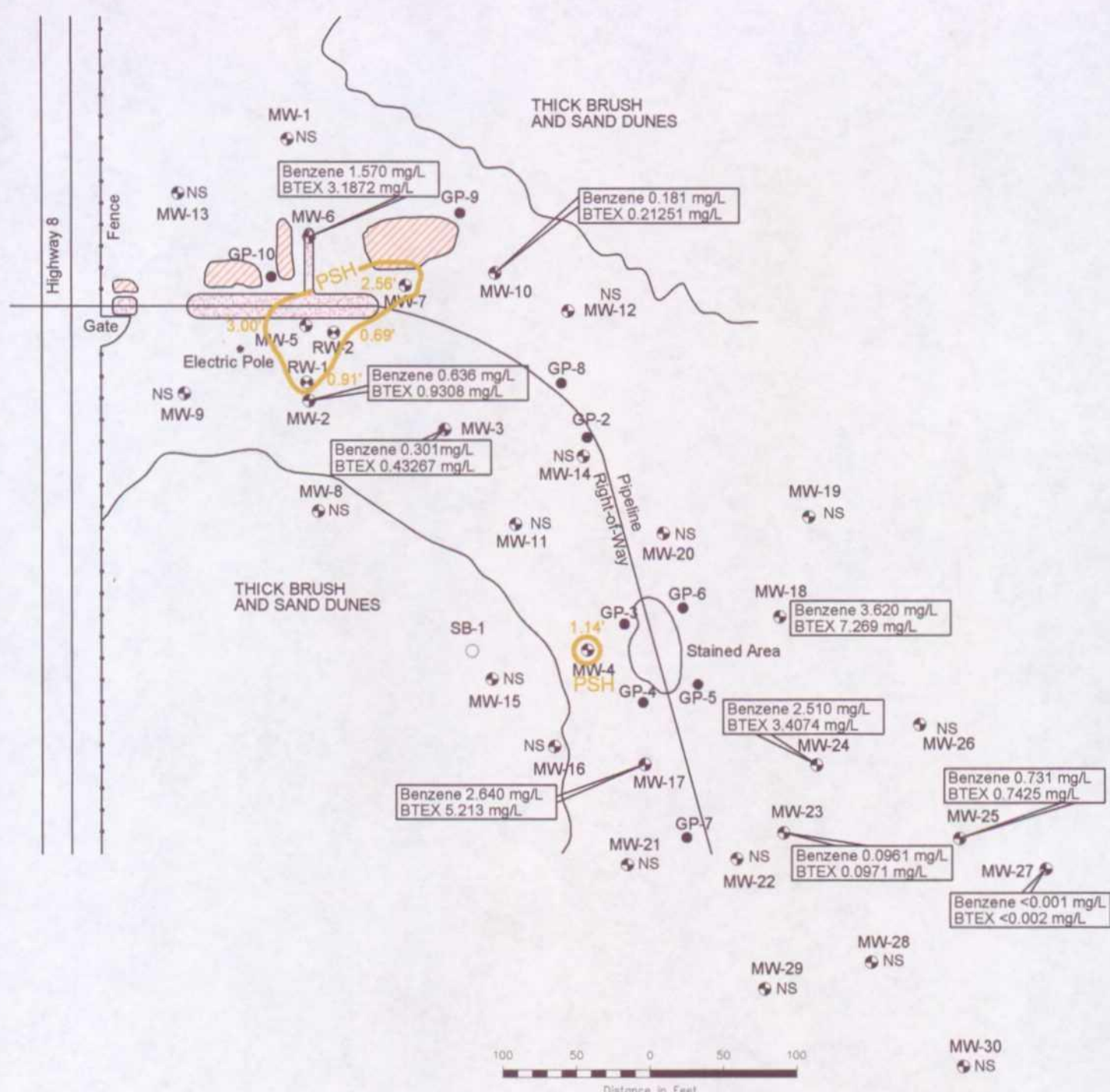
NOVA Safety and Environmental

Scale: 1" = 100'

Prep By: OPM

Checked By: RSH

February 18, 2005



LEGEND: Stockpile Soil SW1/4, NE 1/4, Section 28, T20S, R37E

- Monitor Well
- Recovery Well
- Soil Boring
- Geoprobe Location

- Excavated Area
- Inferred PSH Extent

Note: PSH thickness in feet

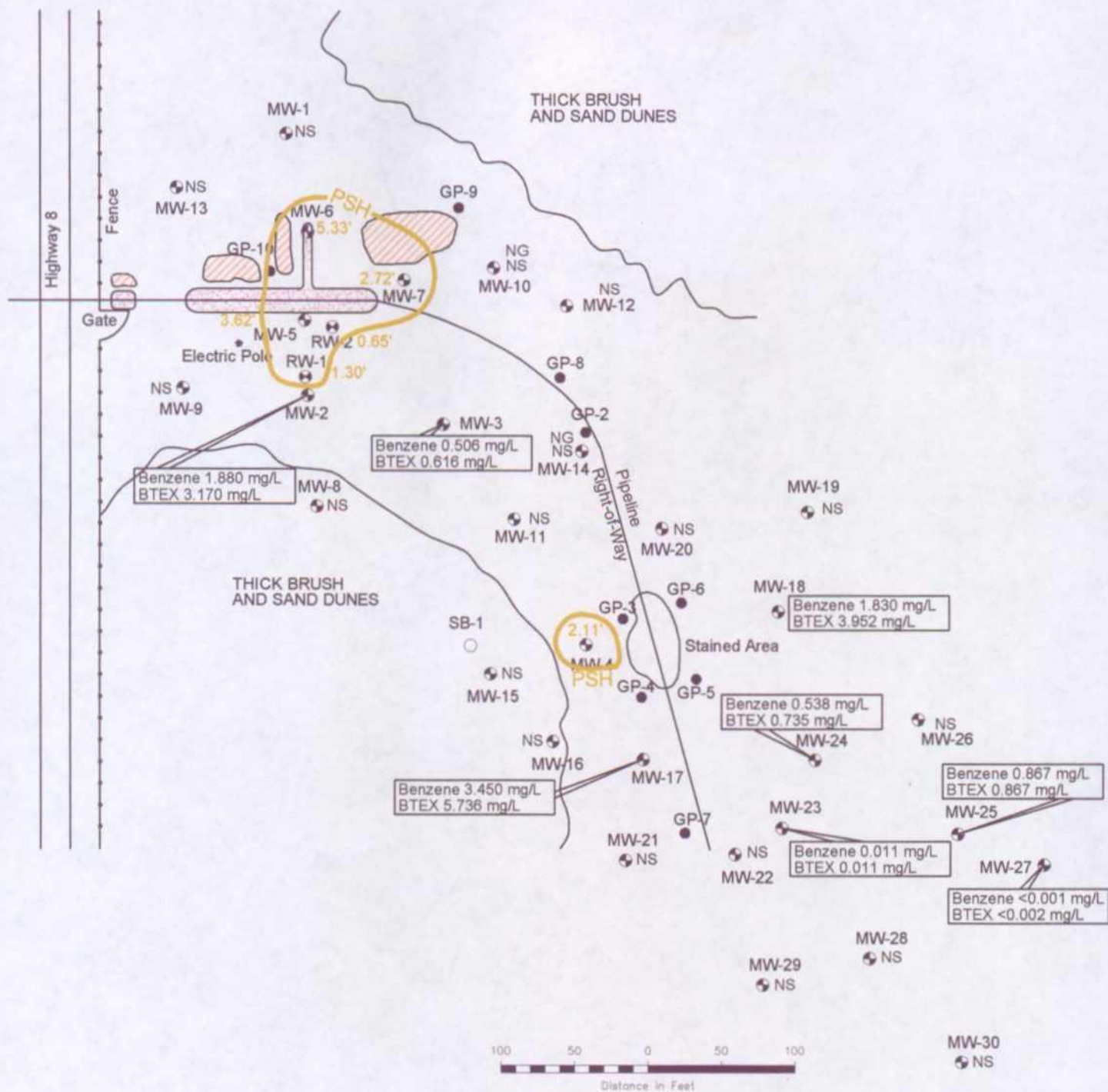
NG Not Gauged
NS Not Sampled



Figure 3B
Groundwater Concentration
and Inferred PSH Extent
Map (5/10/04)
Plains Marketing, L.P.
TNM 97-18
Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 100' Prep By: DPM Checked By: RRM
February 18, 2005



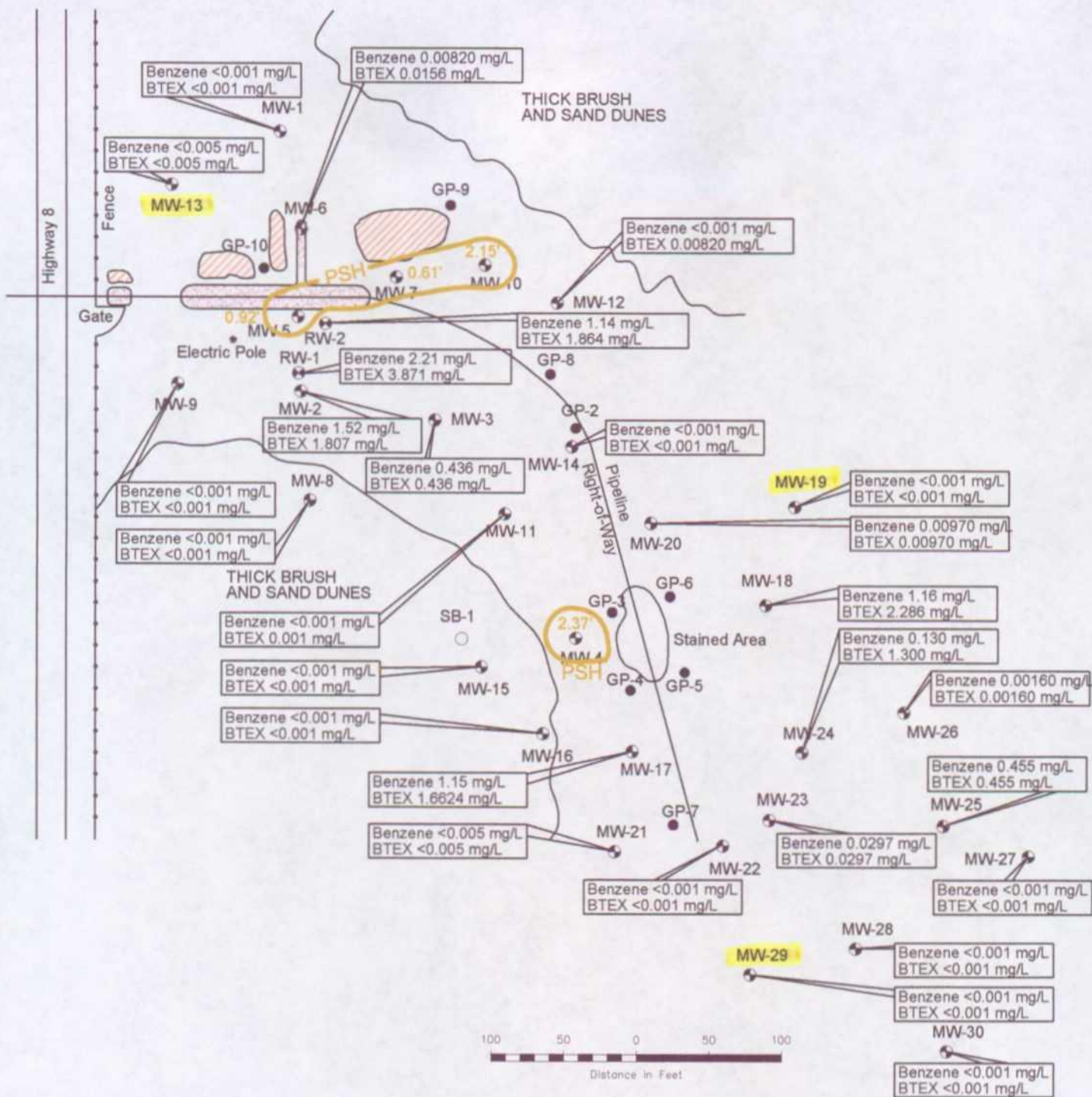
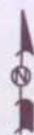
LEGEND:			
	Monitor Well		Stockpile Soil
	Recovery Well		Excavated Area
	Soil Boring		Inferred PSH Extent
	Geoprobe Location		
			Note: PSH thickness in feet
			SW1/4, NE 1/4, Section 28, T20S, R37E



Figure 3C
Groundwater Concentration
and Inferred PSH Extent
Map (8/25/04)
Plains Marketing, L.P.
TNM 97-18
Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 100' Prep By: DPM Checked By: RRM
February 18, 2005



LEGEND: Stockpile Soil SW1/4, NE 1/4, Section 28, T20S, R37E

Monitor Well
Recovery Well
Soil Boring
Geoprobe Location

Excavated Area
Inferred PSH Extent

Note: PSH thickness in feet

NG Not Gauged
NS Not Sampled

NOVA
safety and environmental

Figure 3D
Groundwater Concentration and Inferred PSH Extent Map (12/1 Thru 12/2/04)
Plains Marketing, L.P.
TNM 97-18
Lee County, NM

NOVA Safety and Environmental

Scale: 1" = 100' Prep By: DPM Checked By: RMI
February 18, 2005

Tables

TABLE 1
GROUNDWATER ELEVATION DATA
FOR 2004
PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	02/10/04	3,500.17	-	29.54	0.00	3,470.63
	05/10/04	3,500.17	-	26.54	0.00	3,473.63
	08/25/04	3,500.17	-	27.32	0.00	3,472.85
	12/01/04	3,500.17	-	25.67	0.00	3,474.50
MW - 2	01/27/04	3,499.19	-	29.70	0.00	3,469.49
	02/02/04	3,499.19	-	29.61	0.00	3,469.58
	02/10/04	3,499.19	-	29.28	0.00	3,469.91
	02/20/04	3,499.19	-	29.50	0.00	3,469.69
	03/04/04	3,499.19	-	29.27	0.00	3,469.92
	03/16/04	3,499.19	-	29.55	0.00	3,469.64
	03/25/04	3,499.19	-	29.63	0.00	3,469.56
	03/31/04	3,499.19	-	29.60	0.00	3,469.59
	04/01/04	3,499.19	-	29.65	0.00	3,469.54
	04/08/04	3,499.19	-	27.11	0.00	3,472.08
	04/14/04	3,499.19	-	27.67	0.00	3,471.52
	04/16/04	3,499.19	-	27.86	0.00	3,471.33
	04/22/04	3,499.19	26.98	26.99	0.01	3,472.21
	04/29/04	3,499.19	-	26.82	0.00	3,472.37
	05/05/04	3,499.19	Sheen	27.11	0.00	3,472.08
	05/10/04	3,499.19	-	26.82	0.00	3,472.37
	06/08/04	3,499.19	-	26.76	0.00	3,472.43
	06/17/04	3,499.19	Sheen	26.95	0.00	3,472.24
	06/22/04	3,499.19	-	26.98	0.00	3,472.21
	06/25/04	3,499.19		26.96	0.00	3,472.23
	06/26/04	3,499.19	-	26.96	0.00	3,472.23
	06/29/04	3,499.19	-	26.95	0.00	3,472.24
	07/01/04	3,499.19	Sheen	26.99	0.00	3,472.20
	07/08/04	3,499.19		26.96	0.00	3,472.23
	07/13/04	3,499.19		27.04	0.00	3,472.15
	07/20/04	3,499.19		27.98	0.00	3,471.21
	08/04/04	3,499.19	Sheen	27.17	0.00	3,472.02
	08/10/04	3,499.19	-	27.18	0.00	3,472.01
	08/17/04	3,499.19	Sheen	27.38	0.00	3,471.81
	08/23/04	3,499.19	-	27.20	0.00	3,471.99
	08/25/04	3,499.19	-	27.25	0.00	3,471.94
	08/31/04	3,499.19	Sheen	27.35	0.00	3,471.84
	09/13/04	3,499.19	27.26	27.28	0.02	3,471.93
	09/20/04	3,499.19	27.38	27.40	0.02	3,471.81
	09/30/04	3,499.19	Sheen	27.61	0.00	3,471.58
	10/04/04	3,499.19	Sheen	26.46	0.00	3,472.73
	10/11/04	3,499.19	Sheen	26.14	0.00	3,473.05
	10/18/04	3,499.19	Sheen	25.95	0.00	3,473.24
	10/27/04	3,499.19	Sheen	26.02	0.00	3,473.17
	11/02/04	3,499.19	Sheen	25.92	0.00	3,473.27
	11/08/04	3,499.19	Sheen	25.88	0.00	3,473.31
	11/15/04	3,499.19	Sheen		0.00	
	11/23/04	3,499.19	Sheen	25.75	0.00	3,473.44
	12/01/04	3,499.19	Sheen	25.56	0.00	3,473.63

TABLE 1
GROUNDWATER ELEVATION DATA
FOR 2004
PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-2	12/02/04	3,499.19	Sheen	25.56	0.00	3,473.63
	12/08/04	3,499.19	Sheen	25.42	0.00	3,473.77
	12/14/04	3,499.19	Sheen	25.44	0.00	3,473.75
	12/21/04	3,499.19	Sheen	25.38	0.00	3,473.81
	12/29/04	3,499.19	Sheen	25.29	0.00	3,473.90
MW - 3	01/27/04	3,500.05	-	31.57	0.00	3,468.48
	02/02/04	3,500.05	-	31.54	0.00	3,468.51
	02/10/04	3,500.05	-	30.87	0.00	3,469.18
	02/20/04	3,500.05	-	31.04	0.00	3,469.01
	03/04/04	3,500.05	-	30.85	0.00	3,469.20
	03/16/04	3,500.05	-	31.17	0.00	3,468.88
	03/25/04	3,500.05	-	31.20	0.00	3,468.85
	03/31/04	3,500.05	31.19	31.20	0.01	3,468.86
	04/01/04	3,500.05	-	31.42	0.00	3,468.63
	04/08/04	3,500.05	-	29.29	0.00	3,470.76
	04/14/04	3,500.05	-	29.76	0.00	3,470.29
	04/22/04	3,500.05	28.86	28.87	0.01	3,471.19
	04/29/04	3,500.05	-	28.71	0.00	3,471.34
	05/05/04	3,500.05	-	29.21	0.00	3,470.84
	05/10/04	3,500.05	-	26.82	0.00	3,473.23
	06/08/04	3,500.05	-	28.54	0.00	3,471.51
	06/17/04	3,500.05	Sheen	28.71	0.00	3,471.34
	06/22/04	3,500.05	-	28.76	0.00	3,471.29
	06/25/04	3,500.05	-	28.73	0.00	3,471.32
	06/29/04	3,500.05	-	28.69	0.00	3,471.36
	07/01/04	3,500.05	Sheen	28.72	0.00	3,471.33
	07/08/04	3,500.05	-	28.72	0.00	3,471.33
	07/13/04	3,500.05	-	28.77	0.00	3,471.28
	07/20/04	3,500.05	-	28.85	0.00	3,471.20
	08/04/04	3,500.05	-	28.87	0.00	3,471.18
	08/10/04	3,500.05	-	28.89	0.00	3,471.16
	08/17/04	3,500.05	Sheen	29.00	0.00	3,471.05
	08/23/04	3,500.05	Sheen	28.82	0.00	3,471.23
	08/25/04	3,500.05	-	28.88	0.00	3,471.17
	08/31/04	3,500.05	Sheen	29.00	0.00	3,471.05
	09/13/04	3,500.05	Sheen	28.95	0.00	3,471.10
	09/20/04	3,500.05	Sheen	29.00	0.00	3,471.05
	09/30/04	3,500.05	Sheen	29.10	0.00	3,470.95
	10/04/04	3,500.05	Sheen	28.28	0.00	3,471.77
	10/11/04	3,500.05	Sheen	28.10	0.00	3,471.95
	11/15/04	3,500.05	Sheen		0.00	
	10/18/04	3,500.05	Sheen	27.77	0.00	3,472.28
	10/27/04	3,500.05	Sheen	27.84	0.00	3,472.21
	11/02/04	3,500.05	Sheen	27.70	0.00	3,472.35
	11/08/04	3,500.05	Sheen	27.65	0.00	3,472.40
	11/23/04	3,500.05	Sheen	27.60	0.00	3,472.45
	12/01/04	3,500.05	Sheen	27.35	0.00	3,472.70
	12/02/04	3,500.05	Sheen	27.35	0.00	3,472.70

TABLE 1
GROUNDWATER ELEVATION DATA
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PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-3	12/08/04	3,500.05	Sheen	27.21	0.00	3,472.84
	12/14/04	3,500.05	Sheen	27.30	0.00	3,472.75
	12/21/04	3,500.05	Sheen	27.17	0.00	3,472.88
	12/29/04	3,500.05	Sheen	27.09	0.00	3,472.96
MW - 4	01/27/04	3,498.38	31.12	31.15	0.03	3467.26
	02/02/04	3,498.38	31.11	31.14	0.03	3467.27
	02/10/04	3,498.38	30.49	30.68	0.19	3467.86
	02/20/04	3,498.38	30.59	30.64	0.05	3467.78
	03/04/04	3,498.38	30.45	30.70	0.25	3467.89
	03/16/04	3,498.38	31.15	31.19	0.04	3467.22
	03/25/04	3,498.38	31.17	31.19	0.02	3467.21
	03/31/04	3,498.38	31.16	31.18	0.02	3467.22
	04/01/04	3,498.38	30.96	30.99	0.03	3467.42
	04/08/04	3,498.38	-	29.21	0.00	3469.17
	04/14/04	3,498.38	28.75	29.24	0.49	3469.56
	04/16/04	3,498.38	28.84	29.42	0.58	3469.45
	04/22/04	3,498.38	28.01	29.02	1.01	3470.22
	04/29/04	3,498.38	28.03	29.33	1.30	3470.16
	05/05/04	3,498.38	28.32	29.69	1.37	3469.85
	05/10/04	3,498.38	27.93	29.07	1.14	3470.28
	06/08/04	3,498.38	27.79	29.68	1.89	3470.31
	06/17/04	3,498.38	28.01	29.93	1.92	3470.08
	06/22/04	3,498.38	28.03	29.91	1.88	3470.07
	06/25/04	3,498.38	28.01	29.90	1.89	3470.09
	06/29/04	3,498.38	27.94	29.87	1.93	3470.15
	07/01/04	3,498.38	27.98	29.84	1.86	3470.12
	07/08/04	3,498.38	27.89	27.91	0.02	3470.49
	07/13/04	3,498.38	28.04	29.88	1.84	3470.06
	07/20/04	3,498.38	28.09	30.39	2.30	3469.95
	08/04/04	3,498.38	28.10	30.38	2.28	3469.94
	08/10/04	3,498.38	28.11	30.36	2.25	3469.93
	08/17/04	3,498.38	28.26	30.29	2.03	3469.82
	08/23/04	3,498.38	28.08	30.14	2.06	3469.99
	08/25/04	3,498.38	28.13	30.24	2.11	3469.93
	08/31/04	3,498.38	28.24	30.38	2.14	3469.82
	09/13/04	3,498.38	28.22	29.65	1.43	3469.95
	09/20/04	3,498.38	28.30	29.95	1.65	3469.83
	09/30/04	3,498.38	28.45	30.01	1.56	3469.70
	10/04/04	3,498.38	27.52	29.40	1.88	3470.58
	10/11/04	3,498.38	27.29	29.17	1.88	3470.81
	10/18/04	3,498.38	27.40	28.94	1.54	3470.75
	10/27/04	3,498.38	27.59	28.97	1.38	3470.58
	11/02/04	3,498.38	26.91	29.25	2.34	3471.12
	11/08/04	3,498.38	26.90	29.40	2.50	3471.11
	11/15/04	3,498.38	26.81	29.29	2.48	3471.20
	11/23/04	3,498.38	26.69	28.78	2.09	3471.38
	12/01/04	3,498.38	26.35	28.72	2.37	3471.67
	12/02/04	3,498.38	26.35	28.72	2.37	3471.67

TABLE 1
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PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-4	12/08/04	3,498.38	26.49	29.00	2.51	3471.51
	12/14/04	3,498.38	26.53	28.44	1.91	3471.56
	12/21/04	3,498.38	26.35	27.80	1.45	3471.81
	12/29/04	3,498.38	26.19	27.42	1.23	3472.01
MW - 5	01/27/04	3,500.12	30.25	31.97	1.72	3469.61
	02/02/04	3,500.12	30.20	31.95	1.75	3469.66
	02/10/04	3,500.12	29.70	31.57	1.87	3470.14
	02/20/04	3,500.12	29.85	31.92	2.07	3469.96
	03/04/04	3,500.12	29.71	31.55	1.84	3470.13
	03/16/04	3,500.12	30.04	31.40	1.36	3469.88
	03/25/04	3,500.12	30.10	31.39	1.29	3469.83
	03/31/04	3,500.12	30.13	31.40	1.27	3469.80
	04/01/04	3,500.12	30.04	31.47	1.43	3469.87
	04/08/04	3,500.12	23.14	24.37	1.23	3476.80
	04/14/04	3,500.12	26.06	36.66	10.60	3472.47
	04/16/04	3,500.12	26.33	36.71	10.38	3472.23
	04/22/04	3,500.12	26.32	32.35	6.03	3472.90
	04/29/04	3,500.12	26.38	32.98	6.60	3472.75
	05/05/04	3,500.12	26.93	31.04	4.11	3472.57
	05/10/04	3,500.12	26.72	29.72	3.00	3472.95
	06/08/04	3,500.12	26.89	30.48	3.59	3472.69
	06/17/04	3,500.12	27.10	30.81	3.71	3472.46
	06/22/04	3,500.12	27.13	30.76	3.63	3472.45
	06/25/04	3,500.12	27.09	30.72	3.63	3472.49
	06/29/04	3,500.12	27.07	30.78	3.71	3472.49
	07/01/04	3,500.12	27.09	30.64	3.55	3472.50
	07/08/04	3,500.12	27.08	30.76	3.68	3472.49
	07/13/04	3,500.12	27.14	30.55	3.41	3472.47
	07/20/04	3,500.12	27.15	32.22	5.07	3472.21
	08/04/04	3,500.12	27.17	32.21	5.04	3472.19
	08/10/04	3,500.12	27.20	32.22	5.02	3472.17
	08/17/04	3,500.12	29.56	30.58	1.02	3470.41
	08/23/04	3,500.12	27.36	30.98	3.62	3472.22
	08/25/04	3,500.12	27.38	31.00	3.62	3472.20
	08/31/04	3,500.12	27.49	31.21	3.72	3472.07
	09/13/04	3,500.12	27.60	30.55	2.95	3472.08
	09/20/04	3,500.12	27.74	29.96	2.22	3472.05
	09/30/04	3,500.12	27.94	30.05	2.11	3471.86
	10/04/04	3,500.12	25.77	30.15	4.38	3473.69
	10/11/04	3,500.12	25.42	28.10	2.68	3474.30
	10/18/04	3,500.12	25.36	28.39	3.03	3474.31
	10/27/04	3,500.12	25.61	28.29	2.68	3474.11
	11/02/04	3,500.12	26.26	26.95	0.69	3473.76
	11/08/04	3,500.12	26.35	27.15	0.80	3473.65
	11/15/04	3,500.12	26.26	26.86	0.60	3473.77
	11/23/04	3,500.12	26.03	27.00	0.97	3473.94
	12/01/04	3,500.12	25.78	26.70	0.92	3474.20
	12/02/04	3,500.12	25.78	26.70	0.92	3474.20

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WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-5	12/08/04	3,500.12	25.40	27.20	1.80	3474.45
	12/14/04	3,500.12	25.97	26.57	0.60	3474.06
	12/21/04	3,500.12	25.80	26.72	0.92	3474.18
	12/29/04	3,500.12	25.81	26.70	0.89	3474.18
MW-6	01/27/04	3,499.82	-	29.94	0.00	3469.88
	02/02/04	3,499.82	-	29.89	0.00	3469.93
	02/10/04	3,499.82	-	29.41	0.00	3470.41
	02/20/04	3,499.82	-	29.55	0.00	3470.27
	03/04/04	3,499.82	-	29.39	0.00	3470.43
	03/16/04	3,499.82	-	29.70	0.00	3470.12
	03/25/04	3,499.82	-	29.73	0.00	3470.09
	03/31/04	3,499.82	-	29.72	0.00	3470.10
	04/01/04	3,499.82	-	29.68	0.00	3470.14
	04/08/04	3,499.82	25.10	26.72	1.62	3474.48
	04/14/04	3,499.82	-	26.90	0.00	3472.92
	04/16/04	3,499.82	-	27.10	0.00	3472.72
	04/22/04	3,499.82	-	26.44	0.00	3473.38
	04/29/04	3,499.82	-	26.46	0.00	3473.36
	05/05/04	3,499.82	-	26.91	0.00	3472.91
	05/10/04	3,499.82	-	26.59	0.00	3473.23
	06/08/04	3,499.82	-	26.72	0.00	3473.10
	06/17/04	3,499.82	Sheen	26.89	0.00	3472.93
	06/22/04	3,499.82	-	26.94	0.00	3472.88
	06/25/04	3,499.82	-	26.91	0.00	3472.91
	06/29/04	3,499.82	Sheen	26.87	0.00	3472.95
	07/01/04	3,499.82	Sheen	26.90	0.00	3472.92
	07/08/04	3,499.82	-	26.89	0.00	3472.93
	07/13/04	3,499.82	-	26.94	0.00	3472.88
	07/20/04	3,499.82	27.03	27.49	0.46	3472.72
	08/04/04	3,499.82	27.05	27.50	0.45	3472.70
	08/10/04	3,499.82	27.03	27.49	0.46	3472.72
	08/17/04	3,499.82	26.38	26.69	0.31	3473.39
	08/23/04	3,499.82	27.14	27.43	0.29	3472.64
	08/25/04	3,499.82	22.18	27.51	5.33	3476.84
	08/31/04	3,499.82	27.27	27.63	0.36	3472.50
	09/13/04	3,499.82	26.48	26.55	0.07	3473.33
	09/20/04	3,499.82	27.57	27.65	0.08	3472.24
	09/30/04	3,499.82	27.67	27.81	0.14	3472.13
	10/04/04	3,499.82	Sheen	26.31	0.00	3473.51
	10/11/04	3,499.82	26.05	26.16	0.11	3473.75
	10/18/04	3,499.82	25.8	25.88	0.08	3474.01
	10/27/04	3,499.82	Sheen	25.97	0.00	3473.85
	11/02/04	3,499.82	25.88	26.10	0.22	3473.91
	11/08/04	3,499.82	Sheen	26.95	0.00	3472.87
	11/15/04	3,499.82	Sheen		0.00	
	11/23/04	3,499.82	Sheen	25.75	0.00	3474.07
	12/01/04	3,499.82	Sheen	25.50	0.00	3474.32
	12/02/04	3,499.82	Sheen	25.50	0.00	3474.32

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WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-6	12/08/04	3,499.82	Sheen	25.40	0.00	3474.42
	12/14/04	3,499.82	Sheen	25.38	0.00	3474.44
	12/21/04	3,499.82	Sheen	25.40	0.00	3474.42
	12/29/04	3,499.82	Sheen	25.34	0.00	3474.48
MW-7	01/27/04	3,498.33	28.64	31.11	2.47	3469.32
	02/02/04	3,498.33	28.70	31.14	2.44	3469.26
	02/10/04	3,498.33	28.05	30.66	2.61	3469.89
	02/20/04	3,498.33	28.17	31.11	2.94	3469.72
	03/04/04	3,498.33	28.07	30.67	2.60	3469.87
	03/16/04	3,498.33	28.42	30.08	1.66	3469.66
	03/25/04	3,498.33	28.48	30.06	1.58	3469.61
	03/31/04	3,498.33	28.46	30.04	1.58	3469.63
	04/01/04	3,498.33	28.47	29.91	1.44	3469.64
	04/08/04	3,498.33	25.10	26.72	1.62	3472.99
	04/14/04	3,498.33	24.21	27.00	2.79	3473.70
	04/16/04	3,498.33	24.66	27.65	2.99	3473.22
	04/22/04	3,498.33	24.20	27.43	3.23	3473.65
	04/29/04	3,498.33	24.54	27.49	2.95	3473.35
	05/05/04	3,498.33	25.10	27.83	2.73	3472.82
	05/10/04	3,498.33	24.88	27.44	2.56	3473.07
	06/08/04	3,498.33	25.30	27.68	2.38	3472.67
	06/17/04	3,498.33	25.57	27.81	2.24	3472.42
	06/22/04	3,498.33	25.62	27.84	2.22	3472.38
	06/25/04	3,498.33	25.58	27.88	2.30	3472.41
	06/29/04	3,498.33	25.51	27.80	2.29	3472.48
	07/01/04	3,498.33	25.55	27.89	2.34	3472.43
	07/08/04	3,498.33	25.48	27.83	2.35	3472.50
	07/13/04	3,498.33	25.61	27.92	2.31	3472.37
	07/20/04	3,498.33	25.64	28.06	2.42	3472.33
	08/04/04	3,498.33	25.67	28.05	2.38	3472.30
	08/10/04	3,498.33	25.69	28.04	2.35	3472.29
	08/17/04	3,498.33	25.95	28.18	2.23	3472.05
	08/23/04	3,498.33	25.40	28.10	2.70	3472.53
	08/25/04	3,498.33	25.50	28.22	2.72	3472.42
	08/31/04	3,498.33	25.81	28.24	2.43	3472.16
	09/13/04	3,498.33	25.99	27.76	1.77	3472.07
	09/20/04	3,498.33	26.11	27.70	1.59	3471.98
	09/30/04	3,498.33	26.26	27.73	1.47	3471.85
	10/04/04	3,498.33	23.32	27.15	3.83	3474.44
	10/11/04	3,498.33	22.99	26.55	3.56	3474.81
	10/18/04	3,498.33	23.35	26.40	3.05	3474.52
	10/27/04	3,498.33	23.59	26.10	2.51	3474.36
	11/02/04	3,498.33	24.25	26.30	2.05	3473.77
	11/08/04	3,498.33	24.35	26.35	2.00	3473.68
	11/15/04	3,498.33	24.00	24.22	0.22	3474.30
	11/23/04	3,498.33	24.10	24.60	0.50	3474.16
	12/01/04	3,498.33	23.79	24.40	0.61	3474.45
	12/02/04	3,498.33	23.79	24.40	0.61	3474.45

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WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-7	12/08/04	3,498.33	23.97	24.88	0.91	3474.22
	12/14/04	3,498.33	23.99	25.40	1.41	3474.13
	12/21/04	3,498.33	24.00	25.55	1.55	3474.10
	12/29/04	3,498.33	24.00	25.40	1.40	3474.12
MW - 8	02/10/04	3,502.23	-	32.77	0.00	3469.46
	05/10/04	3,502.23	-	30.48	0.00	3471.75
	08/25/04	3,502.23	-	30.9	0.00	3471.33
	12/01/04	3,502.23	-	29.25	0.00	3472.98
MW - 9	02/10/04	3,502.24	-	31.77	0.00	3470.47
	05/10/04	3,502.24	-	29.26	0.00	3472.98
	08/25/04	3,502.24	-	29.71	0.00	3472.53
	12/01/04	3,502.24	-	28.13	0.00	3474.11
MW-10	01/27/04	3,499.42	-	30.71	0.00	3468.71
	02/02/04	3,499.42	-	30.72	0.00	3468.70
	02/10/04	3,499.42	-	30.05	0.00	3469.37
	02/20/04	3,499.42	-	30.21	0.00	3469.21
	03/04/04	3,499.42	-	30.03	0.00	3469.39
	03/16/04	3,499.42	-	30.33	0.00	3469.09
	03/25/04	3,499.42	-	30.37	0.00	3469.05
	03/31/04	3,499.42	-	30.35	0.00	3469.07
	04/01/04	3,499.42	-	30.52	0.00	3468.90
	04/08/04	3,499.42	-	29.64	0.00	3469.78
	04/14/04	3,499.42	-	28.90	0.00	3470.52
	04/16/04	3,499.42	-	28.98	0.00	3470.44
	04/22/04	3,499.42	28.07	28.08	0.01	3471.35
	04/29/04	3,499.42	-	27.84	0.00	3471.58
	05/05/04	3,499.42	Sheen	28.16	0.00	3471.26
	05/10/04	3,499.42	-	27.77	0.00	3471.65
	06/08/04	3,499.42	27.66	28.10	0.44	3471.69
	06/17/04	3,499.42	27.76	28.50	0.74	3471.55
	06/22/04	3,499.42	27.80	28.42	0.62	3471.53
	06/25/04	3,499.42	27.77	28.33	0.56	3471.57
	06/29/04	3,499.42	27.75	28.38	0.63	3471.58
	07/01/04	3,499.42	27.77	28.30	0.53	3471.57
	07/08/04	3,499.42	27.73	28.37	0.64	3471.59
	07/13/04	3,499.42	27.81	28.24	0.43	3471.55
	12/02/04	3,499.42	26.35	28.50	2.15	3472.75
	12/08/04	3,499.42	26.21	28.31	2.10	3472.90
	12/14/04	3,499.42	26.40	27.69	1.29	3472.83
	12/21/04	3,499.42	26.39	27.12	0.73	3472.92
	12/29/04	3,499.42	26.22	27.20	0.98	3473.05
MW - 11	02/10/04	3,498.18	-	29.55	0.00	3468.63
	05/10/04	3,498.18	-	27.35	0.00	3470.83
	08/25/04	3,498.18	-	27.64	0.00	3470.54
	12/02/04	3,498.18		26.12	0.00	3472.06

TABLE 1
GROUNDWATER ELEVATION DATA
FOR 2004
PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 12	02/10/04	3,499.66	-	30.72	0.00	3468.94
	05/10/04	3,499.66	-	28.54	0.00	3471.12
	08/25/04	3,499.66	-	28.78	0.00	3470.88
	12/02/04	3,499.66	-	27.53	0.00	3472.13
MW - 13	02/10/04	3,501.60	-	30.75	0.00	3470.85
	05/10/04	3,501.60	-	27.80	0.00	3473.80
	08/25/04	3,501.60	-	28.58	0.00	3473.02
	12/01/04	3,501.60	-	26.90	0.00	3474.70
MW - 14	02/10/04	3,498.54	-	30.11	0.00	3468.43
	05/10/04	3,498.54	-	27.81	0.00	3470.73
	12/02/04	3,498.54	-	26.76	0.00	3471.78
MW - 15	02/10/04	3,500.65	-	32.37	0.00	3468.28
	05/10/04	3,500.65	-	30.23	0.00	3470.42
	08/25/04	3,500.65	-	30.42	0.00	3470.23
	12/01/04	3,500.65	-	28.83	0.00	3471.82
MW - 16	02/10/04	3,501.45	-	33.78	0.00	3467.67
	05/10/04	3,501.45	-	31.77	0.00	3469.68
	08/25/04	3,501.45	-	31.79	0.00	3469.66
	12/01/04	3,501.45	-	30.27	0.00	3471.18
MW - 17	02/10/04	3,498.32	-	31.29	0.00	3467.03
	05/10/04	3,498.32	-	29.35	0.00	3468.97
	08/25/04	3,498.32	-	29.31	0.00	3469.01
	12/01/04	3,498.32	-	27.92	0.00	3470.40
MW - 18	02/10/04	3,497.25	-	30.45	0.00	3466.80
	05/10/04	3,497.25	-	28.37	0.00	3468.88
	08/25/04	3,497.25	-	28.49	0.00	3468.76
	12/02/04	3,497.25	-	27.15	0.00	3470.10
MW - 19	02/10/04	3,498.24	-	31.11	0.00	3467.13
	05/10/04	3,498.24	-	29.02	0.00	3469.22
	08/25/04	3,498.24	-	29.15	0.00	3469.09
	12/02/04	3,498.24	-	28.06	0.00	3470.18
MW - 20	02/10/04	3,496.59	-	28.76	0.00	3467.83
	05/10/04	3,496.59	-	26.18	0.00	3470.41
	08/25/04	3,496.59	-	26.74	0.00	3469.85
	12/02/04	3,496.59	-	24.82	0.00	3471.77
MW - 21	02/10/04	3,503.03	-	36.38	0.00	3466.65
	05/10/04	3,503.03	-	34.45	0.00	3468.58
	08/25/04	3,503.03	-	34.35	0.00	3468.68
	12/01/04	3,503.03	-	33.06	0.00	3469.97

TABLE 1
GROUNDWATER ELEVATION DATA
FOR 2004
PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 22	02/10/04	3,500.05	-	33.74	0.00	3466.31
	05/10/04	3,500.05	-	31.78	0.00	3468.27
	08/25/04	3,500.05	-	31.7	0.00	3468.35
	12/01/04	3,500.05	-	30.58	0.00	3469.47
MW - 23	02/10/04	3,498.88	-	32.58	0.00	3466.30
	05/10/04	3,498.88	-	30.68	0.00	3468.20
	08/25/04	3,498.88	-	30.61	0.00	3468.27
	12/01/04	3,498.88	-	29.5	0.00	3469.38
MW - 24	02/10/04	3,498.79	-	32.43	0.00	3466.36
	05/10/04	3,498.79	-	30.53	0.00	3468.26
	08/25/04	3,498.79	-	30.41	0.00	3468.38
	12/01/04	3,498.79	-	29.38	0.00	3469.41
MW - 25	02/10/04	3,498.08	-	32.33	0.00	3465.75
	05/10/04	3,498.08	-	28.51	0.00	3469.57
	08/25/04	3,498.08	-	30.37	0.00	3467.71
	12/01/04	3,498.08	-	29.44	0.00	3468.64
MW - 26	05/10/04	3,499.18	-	31.10	0.00	3468.08
	08/25/04	3,499.18	-	31.10	0.00	3468.08
	12/01/04	3,499.18	-	30.05	0.00	3469.13
MW - 27	02/10/04	3,498.03	-	32.80	0.00	3465.23
	05/10/04	3,498.03	-	31.23	0.00	3466.80
	08/25/04	3,498.03	-	30.97	0.00	3467.06
	12/01/04	3,498.03	-	30.06	0.00	3467.97
MW - 28	02/10/04	3,498.69	-	33.10	0.00	3465.59
	05/10/04	3,498.69	-	31.28	0.00	3467.41
	08/25/04	3,498.69	-	31.15	0.00	3467.54
	12/01/04	3,498.69	-	30.11	0.00	3468.58
MW - 29	02/10/04	3,500.79	-	34.78	0.00	3466.01
	05/10/04	3,500.79	-	32.81	0.00	3467.98
	08/25/04	3,500.79	-	32.75	0.00	3468.04
	12/01/04	3,500.79	-	31.62	0.00	3469.17
MW - 30	02/10/04	3,498.65	-	33.46	0.00	3465.19
	05/10/04	3,498.65	-	31.74	0.00	3466.91
	08/25/04	3,498.65	-	31.53	0.00	3467.12
	12/01/04	3,498.65	-	30.53	0.00	3468.12
RW - 1	02/20/04	3,498.89	28.89	30.19	1.30	3469.81
	03/16/04	3,498.89	29.04	30.10	1.06	3469.69
	03/25/04	3,498.89	29.08	30.15	1.07	3469.65
	03/31/04	3,498.89	29.10	30.13	1.03	3469.64

TABLE 1
GROUNDWATER ELEVATION DATA
FOR 2004
PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
	04/08/04	3,498.89	26.82	27.36	0.54	3471.99
	04/14/04	3,498.89	26.90	27.68	0.78	3471.87
	04/29/04	3,498.89	26.24	27.50	1.26	3472.46
	05/05/04	3,498.89	26.49	27.41	0.92	3472.26
	05/10/04	3,498.89	26.15	27.06	0.91	3472.60
	06/08/04	3,498.89	26.21	27.49	1.28	3472.49
	06/17/04	3,498.89	26.37	27.81	1.44	3472.30
	06/22/04	3,498.89	26.42	27.93	1.51	3472.24
	06/25/04	3,498.89	26.38	27.90	1.52	3472.28
	06/29/04	3,498.89	26.34	27.99	1.65	3472.30
	07/01/04	3,498.89	26.37	28.11	1.74	3472.26
	07/08/04	3,498.89	26.35	29.97	3.62	3472.00
	07/13/04	3,498.89	26.43	28.15	1.72	3472.20
	07/20/04	3,498.89	26.58	28.35	1.77	3472.04
	08/04/04	3,498.89	26.59	28.34	1.75	3472.04
	08/10/04	3,498.89	26.64	28.32	1.68	3472.00
	08/17/04	3,498.89	26.70	28.70	2.00	3471.89
	08/23/04	3,498.89	26.68	27.09	0.41	3472.15
	08/25/04	3,498.89	26.43	27.73	1.30	3472.27
	08/31/04	3,498.89	26.85	27.52	0.67	3471.94
	09/13/04	3,498.89	26.85	27.31	0.46	3471.97
	09/20/04	3,498.89	26.95	27.50	0.55	3471.86
	09/30/04	3,498.89	27.11	27.52	0.41	3471.72
	10/04/04	3,498.89	26.11	26.33	0.22	3472.75
	10/11/04	3,498.89	25.89	26.11	0.22	3472.97
	10/18/04	3,498.89	Sheen	25.85	0.00	3473.04
	10/27/04	3,498.89	Sheen	25.89	0.00	3473.00
	11/02/04	3,498.89	Sheen	25.65	0.00	3473.24
	11/08/04	3,498.89	Sheen	25.59	0.00	3473.30
	11/15/04	3,498.89	Sheen		0.00	
	11/23/04	3,498.89	25.45	25.50	0.05	3473.43
	12/01/04	3,498.89	Sheen	25.26	0.00	3473.63
	12/02/04	3,498.89	Sheen	25.26	0.00	3473.63
	12/08/04	3,498.89	Sheen	25.05	0.00	3473.84
	12/14/04	3,498.89	Sheen	25.15	0.00	3473.74
	12/21/04	3,498.89	Sheen	25.15	0.00	3473.74
	12/29/04	3,498.89	Sheen	25.02	0.00	3473.87
RW - 2	02/20/04	3,498.99	28.99	29.46	0.47	3469.93
	03/16/04	3,498.99	29.07	29.46	0.39	3469.86
	03/25/04	3,498.99	29.04	29.48	0.44	3469.88
	03/31/04	3,498.99	29.07	29.46	0.39	3469.86
	04/08/04	3,498.99	22.89	23.44	0.55	3476.02
	04/14/04	3,498.99	24.81	25.62	0.81	3474.06
	04/29/04	3,498.99	25.42	26.32	0.90	3473.44
	05/05/04	3,498.99	25.89	26.80	0.91	3472.96
	05/10/04	3,498.99	25.77	26.46	0.69	3473.12
	06/08/04	3,498.99	25.99	26.99	1.00	3472.85
	06/17/04	3,498.99	26.22	27.28	1.06	3472.61

TABLE 1
GROUNDWATER ELEVATION DATA
FOR 2004
PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW-2	06/22/04	3,498.99	26.26	27.24	0.98	3472.58
	06/25/04	3,498.99	26.22	27.30	1.08	3472.61
	06/29/04	3,498.99	26.17	27.27	1.10	3472.66
	07/01/04	3,498.99	26.19	27.35	1.16	3472.63
	07/08/04	3,498.99	26.18	27.29	1.11	3472.64
	07/13/04	3,498.99	26.23	27.37	1.14	3472.59
	07/20/04	3,498.99	26.34	27.74	1.40	3472.44
	08/04/04	3,498.99	26.36	27.75	1.39	3472.42
	08/10/04	3,498.99	26.39	27.74	1.35	3472.40
	08/17/04	3,498.99	26.59	28.10	1.51	3472.17
	08/23/04	3,498.99	26.46	26.90	0.44	3472.46
	08/25/04	3,498.99	26.55	27.20	0.65	3472.34
	08/31/04	3,498.99	26.65	27.35	0.70	3472.24
	09/13/04	3,498.99	26.73	27.19	0.46	3472.19
	09/20/04	3,498.99	26.80	27.29	0.49	3472.12
	09/30/04	3,498.99	26.95	27.21	0.26	3472.00
	10/04/04	3,498.99	25.12	25.27	0.15	3473.85
	10/11/04	3,498.99	24.98	25.22	0.24	3473.97
	10/18/04	3,498.99	Sheen	25.23	0.00	3473.76
	10/27/04	3,498.99	Sheen	25.50	0.00	3473.49
	11/02/04	3,498.99	Sheen	25.39	0.00	3473.60
	11/08/04	3,498.99	Sheen	25.35	0.00	3473.64
	11/15/04	3,498.99	Sheen		0.00	
	11/23/04	3,498.99	24.84	24.85	0.01	3474.15
	12/01/04	3,498.99	Sheen	24.66	0.00	3474.33
	12/02/04	3,498.99	Sheen	24.66	0.00	3474.33
	12/08/04	3,498.99	Sheen	24.64	0.00	3474.35
	12/14/04	3,498.99	Sheen	24.80	0.00	3474.19
	12/21/04	3,498.99	Sheen	24.72	0.00	3474.27
	12/29/04	3,498.99	Sheen	24.73	0.00	3474.26

Elevation based on the North American Vertical Datum of 1929.

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
FOR 2004

PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NM

All concentrations are reported in mg/L

SW 846-8012B, 5030						
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
Regulatory limit		0.01 mg/L	0.75 mg/L	0.75mg/L	0.62 mg/L	
MW - 1	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW - 2	02/10/04	0.086	<0.001	0.100	0.007	0.002
	05/10/04	0.636	0.114	0.133	0.029	0.019
	08/25/04	1.880	0.428	0.653	0.113	0.096
	12/02/04	1.520	0.031	0.256	<0.200	
MW-3	02/10/04	0.410	<0.001	0.083	0.043	<0.001
	05/10/04	0.301	0.004	0.086	0.037	0.005
	08/25/04	0.506	0.006	0.056	0.043	0.006
	12/02/04	0.436	<0.100	<0.100	<0.100	
MW - 6	02/10/04	0.339	<0.001	0.583	0.052	<0.001
	05/10/04	1.570	0.224	1.060	0.316	0.017
	12/02/04	0.008	0.002	0.003	0.002	
MW-8	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW-9	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW-10	02/10/04	0.161	<0.001	0.032	0.012	0.001
	05/10/04	0.181	<0.001	0.023	0.008	<0.001
MW-11	02/10/04	0.005	<0.001	<0.001	<0.002	<0.001
	12/02/04	<0.001	<0.001	<0.001	0.001	
MW-12	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/02/04	<0.001	<0.001	<0.001	0.008	
MW-13	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.005	<0.005	<0.005	<0.005	
MW-14	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/02/04	<0.001	<0.001	<0.001	<0.001	
MW-15	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW-16	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
FOR 2004

PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NM

All concentrations are reported in mg/L

		SW 846-8012B, 5030				
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
Regulatory limit		0.01 mg/L	0.75 mg/L	0.75mg/L	0.62 mg/L	
MW-16	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW-17	02/10/04	3.330	0.001	2.190	0.418	0.013
	05/10/04	2.640	0.001	2.270	0.297	0.005
	08/25/04	3.450	0.002	1.990	0.280	0.014
	12/01/04	1.150	<0.05	0.414	0.098	
MW-18	02/10/04	0.947	0.006	0.621	0.094	0.009
	05/10/04	3.620	0.326	2.770	0.410	0.143
	08/25/04	1.830	0.002	2.000	0.096	0.023
	12/02/04	1.160	<0.0200	0.984	0.142	
MW-19	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/02/04	<0.001	<0.001	<0.001	<0.001	
MW-20	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/02/04	0.0097	<0.005	<0.005	<0.005	
MW-21	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW-22	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW-23	02/10/04	0.054	<0.001	0.001	<0.002	<0.001
	05/10/04	0.096	<0.001	0.001	<0.002	<0.001
	08/25/04	0.011	<0.001	<0.001	<0.002	<0.001
	12/01/04	0.030	<0.001	<0.001	<0.001	
MW-24	02/10/04	1.500	0.030	0.431	0.077	0.018
	05/10/04	2.510	0.043	0.714	0.113	0.027
	08/25/04	0.538	0.004	0.109	0.080	0.004
	12/01/04	1.300	<0.020	0.196	0.038	
MW-25	02/10/04	0.903	<0.001	0.049	0.002	0.002
	05/10/04	0.731	<0.001	0.012	<0.002	<0.001
	08/25/04	0.867	<0.001	<0.001	<0.002	<0.001
	12/01/04	0.455	<0.0200	<0.0200	<0.020	
MW-26	02/10/04	0.008	<0.001	0.007	<0.002	<0.001
	12/01/04	0.002	<0.001	<0.001	<0.001	

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
FOR 2004

PLAINS PIPELINE, L.P.
TNM 97-18
LEA COUNTY, NM

All concentrations are reported in mg/L

		SW 846-8012B, 5030				
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
Regulatory limit		0.01 mg/L	0.75 mg/L	0.75mg/L	0.62 mg/L	
MW-27	02/10/04	0.021	<0.001	0.003	<0.002	<0.001
	05/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	08/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW-28	02/10/04	0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW-29	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
MW-30	02/10/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/01/04	<0.001	<0.001	<0.001	<0.001	
RW-1	12/02/04	2.210	0.618	0.556	0.487	
RW-2	12/02/04	1.140	<0.200	0.354	0.370	

Note: m, p and o xylenes combined when analyzed by Trace Laboratories Inc., only.

Appendices

Appendix A
Notification of Release and Corrective
Action

District I - (505) 393-6161

P.O. Box 1980

Hobbs, NM 88241-1980

District II - (505) 748-1283

811 South First

Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Road

Aztec, NM 87410

District IV - (505) 827-7131

State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-141
Originated 2/13/97

Submit 2 copies to
Appropriate District
Office in accordance
with Rule 116 on
back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name Texas-New Mexico Pipe Line Company	Contact Edwin H. Gripp
Address Box 60028, San Angelo, TX 76906	Telephone No. (915) 947-9000
Facility Name 16" main line	Facility Type pipe line

Surface Owner Millard Deck Estate	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	205	37E					Dea

NATURE OF RELEASE

Type of Release sour crude	Volume of Release 83 barrels	Volume Recovered none
Source of Release 16" main line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 9-10-97 4:30pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Elizabeth	
By Whom? Mike Pearce	Date and Hour 9-11-97 1:30 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Internal Corrosion
Leak successfully clamped off.

Describe Area Affected and Cleanup Action Taken.*

3600 sq. ft. pasture land.
Contaminated soil will be excavated.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.).*

95° cloudy

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
Signature: Edwin H. Gripp

Printed Name: Edwin H. Gripp

Title: District Manager

Date: 9-11-97

Phone: 915-947-9001

OIL CONSERVATION DIVISION

Approved by
District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

State Corp. Commission
Pipe Line Division

Hazardous Waste Section
NM Environmental Improvement Div.

TNM-97-18

JWC JAS

Site Name: 97-18

Remediation Plan: AP -13

Company: EOTT

Contractor: ETGI

Date Inspected: September 25, 2003 by Ed Martin, Larry Johnson and Paul Sheeley

Delineation at this site is complete. Soil stockpile needs to be sampled. It is the intention of the contractor to install a clay barrier and backfill. Monitoring will continue.



Recommendation: Obtain schedule for completion of tasks at this site.