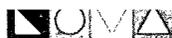


**GW - 294**

**REPORTS**

**DATE:**

**2006**



GW-294  
Report  
2006

2006  
ANNUAL MONITORING REPORT

**TNM 97-04**  
SE ¼ SE ¼ of SECTION 11, TOWNSHIP 16 SOUTH, RANGE 35 EAST  
LEA COUNTY, NEW MEXICO  
PLAINS EMS NUMBER: TNM 97-04  
NMOCD Reference GW-0294

PREPARED FOR:

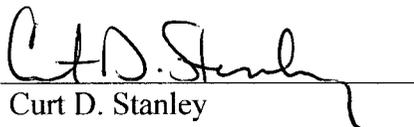
**PLAINS MARKETING, L.P.**  
333 CLAY STREET, SUITE 1600  
HOUSTON, TEXAS 77002

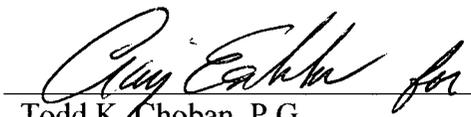


PREPARED BY:

**NOVA Safety and Environmental**  
2057 Commerce  
Midland, Texas 79703

March 2007

  
Curt D. Stanley  
Project Manager

  
Todd K. Choban, P.G.  
Vice-President Technical Services

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Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map - March 20, 2006

2B – Inferred Groundwater Gradient Map - June 21, 2006

2C – Inferred Groundwater Gradient Map - September 27, 2006

2D – Inferred Groundwater Gradient Map - December 4, 2006

Figure 3A – Groundwater Concentration and Inferred PSH Extent Map - March 20, 2006

3B – Groundwater Concentration and Inferred PSH Extent Map - June 21, 2006

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3D – Groundwater Concentration and Inferred PSH Extent Map - December 4, 2006

### TABLES

Table 1 – 2006 Groundwater Elevation Data

Table 2 – 2006 Concentrations of BTEX in Groundwater

### APPENDICES

Appendix A – Release Notification and Corrective Action (Form C-141)

### ENCLOSED ON DATA DISK

2006 Annual Monitoring Report

2006 Tables 1 and 2 - Groundwater Elevation and BTEX Concentration Data

2006 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

Historic Groundwater Elevation Tables

Historic BTEX Concentration Tables

## **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 97-04 site (the site), which was formerly the responsibility of Texas New Mexico Pipeline Company (TNM) is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2006 only. However, historic data tables as well as 2006 laboratory analytical reports are provided on the enclosed data disk. A Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2006 to assess the extent of dissolved phase constituents and the presence of Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in the monitor wells, checking for the presence of PSH and the 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 site is located in the SE 1/4 of the SE 1/4 of Section 11, Township 16 South, Range 35 East in Lea County, New Mexico. Initial site investigation activities were performed for TNM by other environmental consultants. No other specifics concerning the release are currently available. The Release Notification and Corrective Action Form (C-141) is provided as Appendix A.

The initial environmental consultant installed fifteen (15) monitor wells and one (1) recovery well at the site. In December of 2002, two (2) additional groundwater monitor wells (MW-16 and MW-17) were installed to further delineate the impact to groundwater at the site.

There are currently fourteen (14) monitor wells (MW-2 through MW-7, and MW-9 through MW-16) and one (1) recovery well (RW-1), on site. An automated recovery system operated at the site during 2006.

## **FIELD ACTIVITIES**

A measurable thickness of PSH was present in six (6) monitor wells (MW-2 through MW-6, and MW-9) and the recovery well (RW-1) during each quarter of the reporting period. The average thickness of PSH in monitor wells and recovery wells exhibiting PSH was 1.54 feet. The maximum thickness of PSH in monitor wells and recovery wells was 2.65 feet as recorded in monitor well MW-5 on January 17 and 31, 2006. PSH data for the 2006 gauging events can be found in Table 1. Approximately 546 gallons (approximately 13 barrels) of PSH was recovered

from the site during the 2006 reporting period. A total of approximately 6,453 gallons (approximately 154 barrels) of PSH have been recovered since project inception.

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 and amended in correspondences dated June 22, 2005 and May 5, 2006.

NMOCD Approved Sampling Schedule					
MW-1	Plugged & Abandoned	MW-7	Annual	MW-13	Quarterly
MW-2	Quarterly	MW-8	Plugged & Abandoned	MW-14	Quarterly
MW-3	Quarterly	MW-9	Quarterly	MW-15	Quarterly
MW-4	Quarterly	MW-10	Annual	MW-16	Semi-Annual
MW-5	Quarterly	MW-11	Annual	MW-17	Plugged & Abandoned
MW-6	Quarterly	MW-12	Annual	RW-1	Quarterly

The site monitor wells were gauged and sampled on March 20, June 21, September 29, and December 4, 2006. During each sampling event, monitor wells were purged of approximately three well volumes of water or until the wells failed to produce water. Purging was performed using a disposable polyethylene bailer for each well or electrical Grundfos pump and dedicated tubing. 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 each quarterly sampling event of 2006, are depicted on the Inferred Groundwater Gradient Maps, Figures 2A-2D. Groundwater elevation data for 2006 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.003 feet/foot to the southeast as measured between monitor well MW-9 and MW-13. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3922.26 and 3921.36 feet above mean sea level, in MW-10 on December 16, 2006 and in MW-13 on March 22, 2006, respectively.

## LABORATORY RESULTS

Monitor wells MW-2 through MW-6, MW-9 and recovery well RW-1 contained PSH and were not sampled during the 2006 reporting period.

All groundwater samples collected during the reporting period were delivered to TraceAnalysis, Inc. in Lubbock, Texas for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) constituent analysis using EPA Method SW 846-8021b. Analytical results of BTEX constituent concentrations for 2006 are summarized on Table 2. Historical BTEX constituent concentrations and copies of the laboratory reports for 2006 are provided on the enclosed data disk. The

quarterly groundwater analytical results are depicted on the Groundwater Concentration and Inferred PSH Extent Maps, Figures 3A-3D.

**Monitor well MW-2** is monitored on a quarterly schedule. Monitor well MW-2 was not sampled during any of four (4) quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 2.42 feet, 1.49 feet, 1.93 feet and 1.90 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2006, respectively.

**Monitor well MW-3** is monitored on a quarterly schedule. Monitor well MW-3 was not sampled during the 1<sup>st</sup> and 2<sup>nd</sup> quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 2.13 feet and 1.32 feet were reported during the 1<sup>st</sup> and 2<sup>nd</sup> quarters of 2006, respectively. The monitor well was not sampled during the 3<sup>rd</sup> and 4<sup>th</sup> quarters due to PSH and a well obstruction.

**Monitor well MW-4** is monitored on a quarterly schedule. Monitor well MW-4 was not sampled during any of four (4) quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 1.24 feet, 0.60 feet, 0.77 feet and 0.91 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2006, respectively.

**Monitor well MW-5** is monitored on a quarterly schedule. Monitor well MW-5 was not sampled during any of four (4) quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 2.57 feet, 2.14 feet, 2.09 feet and 0.91 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2006, respectively.

**Monitor well MW-6** is monitored on a quarterly schedule. Monitor well MW-6 was not sampled during any of four (4) quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 0.59 feet, 0.32 feet, 0.51 feet and 0.76 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2006, respectively.

**Monitor well MW-7** is sampled on an annual schedule and analytical results indicate benzene and toluene concentrations below laboratory method detection limits (MDL) and NMOCD regulatory standards of 0.01 mg/L and 0.75 mg/L, respectively during the 4<sup>th</sup> quarter of 2006. Ethylbenzene concentrations were 0.0309 mg/L during the 4<sup>th</sup> quarter of 2006. Ethylbenzene concentrations were below the NMOCD regulatory standard during the 4<sup>th</sup> quarter sampling events. Xylene concentrations were 0.0085 mg/L during the 4<sup>th</sup> quarter of the reporting period. Xylene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of 2006.

**Monitor well MW-9** is monitored on a quarterly schedule. Monitor well MW-9 was not sampled during any of four (4) quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 0.77 feet, 0.28 feet, 0.68 feet and 0.79 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2006, respectively.

**Monitor well MW-10** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-11** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarter sampling event. The NMOCD approved a sampling schedule modification for this monitor well in correspondence dated May 5, 2006. This monitor well was previously on a quarterly sampling schedule.

**Monitor well MW-12** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-13** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.293 mg/L in the 4<sup>th</sup> quarter to 0.001 mg/L during the 1<sup>st</sup> quarter of 2006. Benzene concentrations were above the NMOCD regulatory standard during the 3<sup>rd</sup> and 4<sup>th</sup> quarters of the reporting period. Toluene concentrations were below MDL and NMOCD regulatory standards during all four (4) quarters of 2006. Ethylbenzene concentrations ranged from 0.001 mg/L during the 1<sup>st</sup> quarter to 0.011 mg/L during the 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2006. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four (4) quarters of the reporting period. Xylene concentrations ranged from 0.0064 mg/L during the 2<sup>nd</sup> quarter to 0.0115 mg/L during the 3<sup>rd</sup> quarter of 2006. Xylene concentrations were below the NMOCD regulatory standard during all four (4) quarters of the reporting period.

**Monitor well MW-14** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.063 mg/L during the 3<sup>rd</sup> quarter to 0.414 mg/L during the 2<sup>nd</sup> quarter of 2006. Benzene concentrations were above the NMOCD regulatory standard during all four (4) quarters of the reporting period. Toluene concentrations ranged from 0.096 mg/L during the 3<sup>rd</sup> quarter to 0.352 mg/L during the 2<sup>nd</sup> quarter of 2006. Toluene concentrations were below the NMOCD regulatory standard during all four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.075 mg/L during the 3<sup>rd</sup> quarter to 0.322 mg/L during the 2<sup>nd</sup> quarter of 2006. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four (4) quarters of the reporting period. Xylene concentrations ranged from 0.222 mg/L during the 3<sup>rd</sup> quarter to 1.060 mg/L during the 2<sup>nd</sup> quarter of 2006. Xylene concentrations were above the NMOCD regulatory standard during the 1<sup>st</sup> and 2<sup>nd</sup> quarters of the reporting period.

**Monitor well MW-15** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.806 mg/L during the 3<sup>rd</sup> quarter to 4.720 mg/L during the 1<sup>st</sup> quarter of 2006. Benzene concentrations were above the NMOCD regulatory standard during all four (4) quarters of the reporting period. Toluene concentrations were below MDL and NMOCD regulatory standards during all four (4) quarters of 2006. Ethylbenzene concentrations ranged from 0.031 mg/L during the 3<sup>rd</sup> quarter to 0.224 mg/L during the 4<sup>th</sup> quarter of 2006. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four (4) quarters of the reporting period. Xylene concentrations ranged from 0.065 mg/L during the 3<sup>rd</sup> quarter to 0.346 mg/L during the 4<sup>th</sup> quarter of 2006. Xylene concentrations were below the NMOCD regulatory standard during all four (4) quarters of the reporting period.

**Monitor well MW-16** is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarter sampling events. This monitor well was previously on a quarterly sampling schedule and the schedule was modified with NMOCD approval.

**Monitor well MW-17** was plugged and abandoned with NMOCD approval on August 9, 2006. Groundwater was sampled during the 1<sup>st</sup> quarter of 2006 and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards for each BTEX constituent during the 1<sup>st</sup> quarter sampling events.

**Recovery well RW-1** is monitored on a quarterly schedule. Monitor well MW-6 was not sampled during any of four (4) quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 2.17 feet, 0.82 feet, 1.40 feet and 1.74 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2006, respectively.

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 2006 annual monitoring period. There are currently fourteen (14) monitor wells (MW-2 through MW-7, and MW-9 through MW-16) and one (1) recovery well (RW-1) on site. An automated recovery system operated at the site during 2006. Groundwater elevation contours generated from water level measurements indicate a general gradient of approximately 0.003 feet/foot to the southeast.

Six (6) monitor wells (MW-2 through MW-6, MW-9) and the recovery well (RW-1) contained measurable PSH thicknesses during each quarterly sampling event of 2006 and were not sampled. Approximately 546 gallons (approximately 13 barrels) of PSH was recovered from the site during the 2006 reporting period. A total of approximately 6,453 gallons (approximately 154 barrels) of PSH have been recovered since project inception. The average thickness of PSH in monitor wells and recovery wells displaying PSH was 1.54 feet. Generally, 2006 PSH monitoring indicates declining PSH thicknesses in the affected monitor and recovery wells.

Five (5) monitor well locations exhibited BTEX constituent concentrations below the appropriate NMOCD regulatory standards. One (1) monitor well (MW-17) was plugged and abandoned, with NMOCD approval during 2006. The remaining three (3) monitor well exhibited one or more BTEX constituent concentrations above the NMOCD regulatory standards.

## **ANTICIPATED ACTIONS**

Quarterly groundwater monitoring and sampling will continue in 2007. An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2008.

An additional monitor well may be required down gradient of monitor well MW-13 to fully delineate the dissolved phase hydrocarbon plume at the site.

## **LIMITATIONS**

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

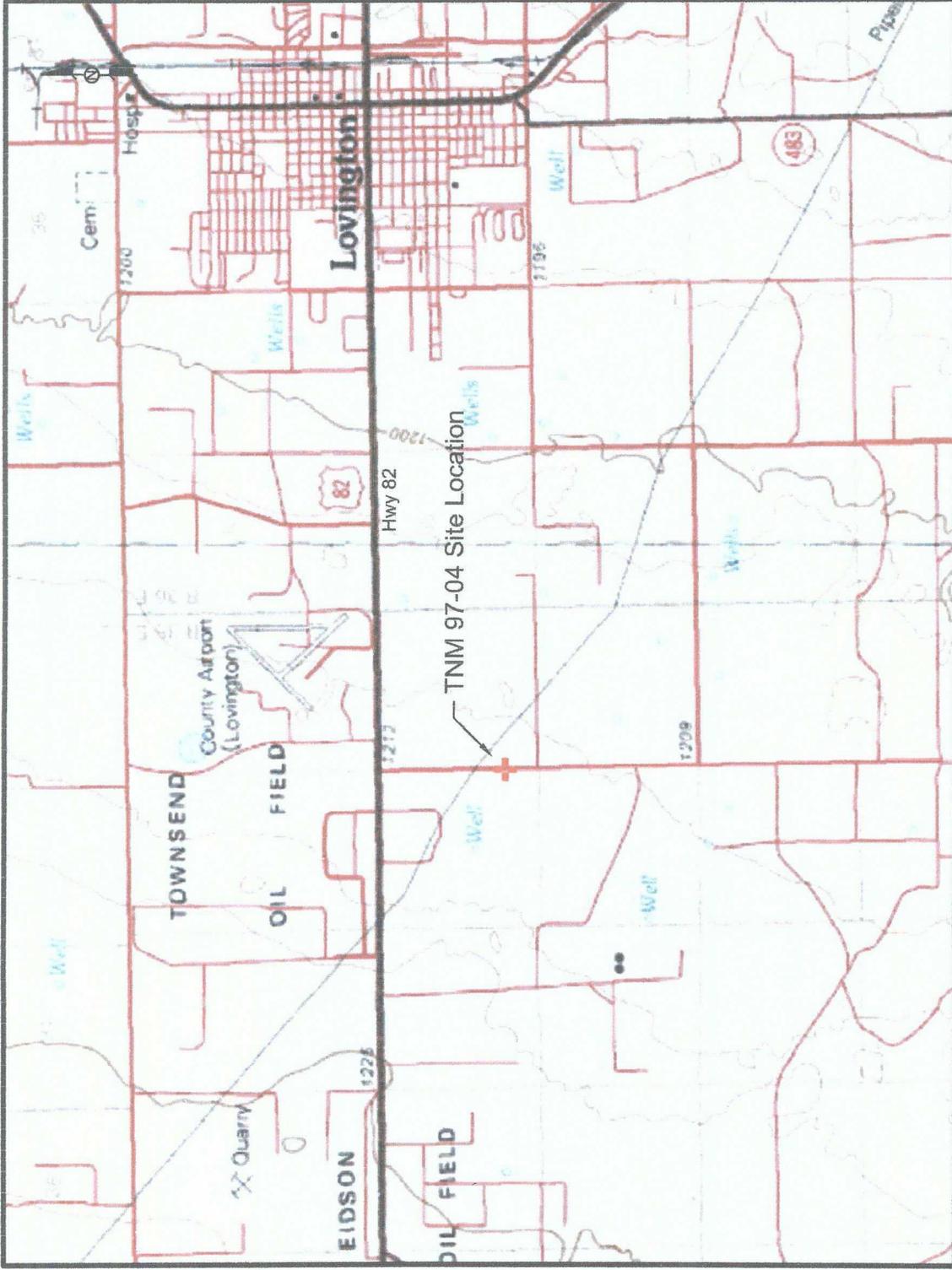
NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that 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.

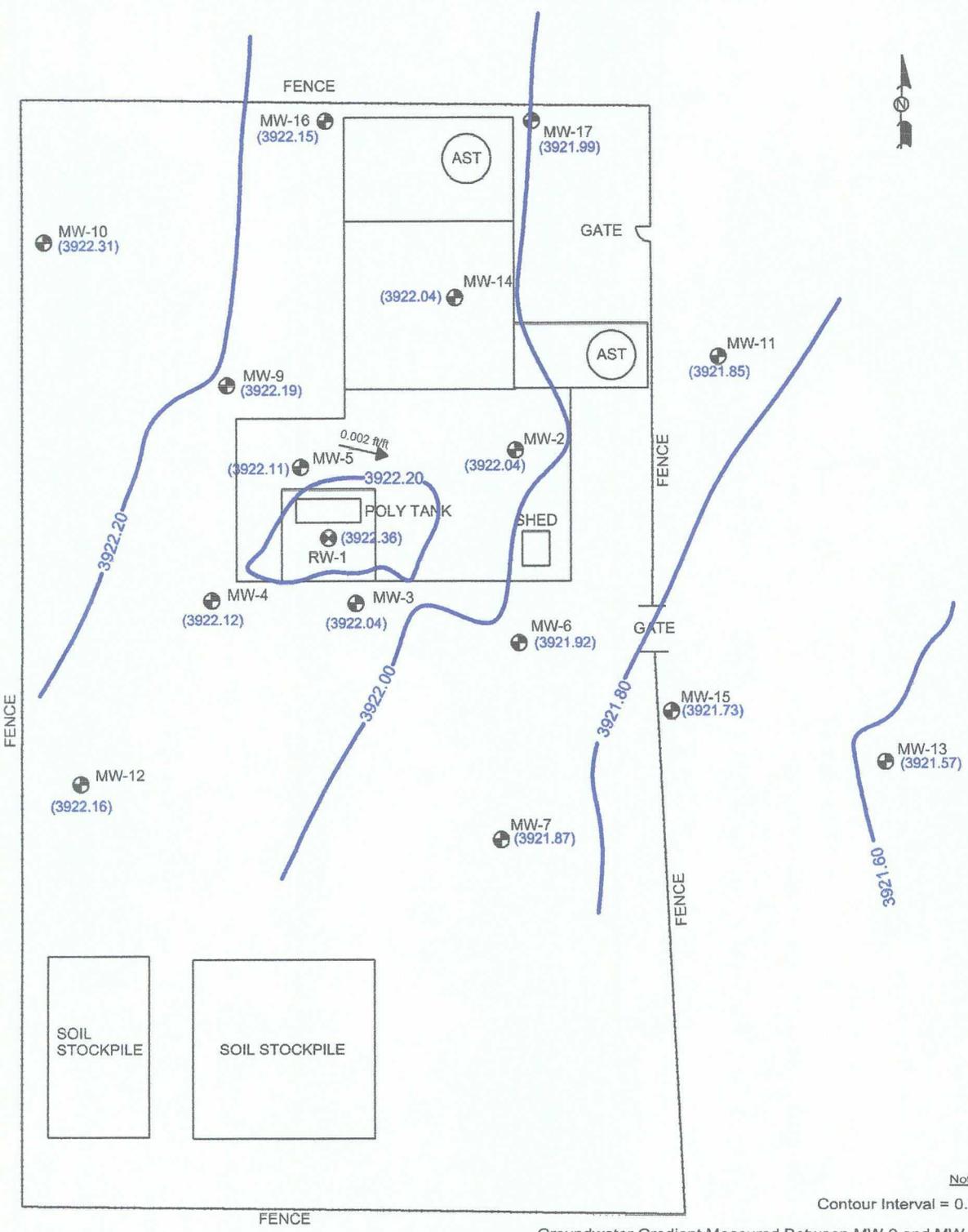
## DISTRIBUTION

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New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
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2057 Commerce Street  
Midland, TX 79703  
cstanley@novatraining.cc

**FIGURES**

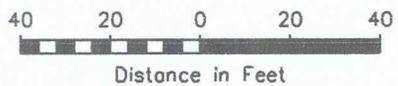


<p>Figure 1 Site Location Map Plains Marketing, L.P. TNM 97-04 Lea County, NM</p>	<p><b>NOVA Safety and Environmental</b></p>		
	<p>Scale: 1" = 500'</p>	<p>Prep By: CDS</p>	<p>Checked By: CDS</p>
<p>February 28, 2005</p>			<p>BE 1/4, SE 1/4, Sec 11 T16S R3E</p>
<p>Lat. N29° 55' 57.1" Long. W103° 25' 12.3"</p>			



Note  
Contour Interval = 0.20'

Groundwater Gradient Measured Between MW-9 and MW-13



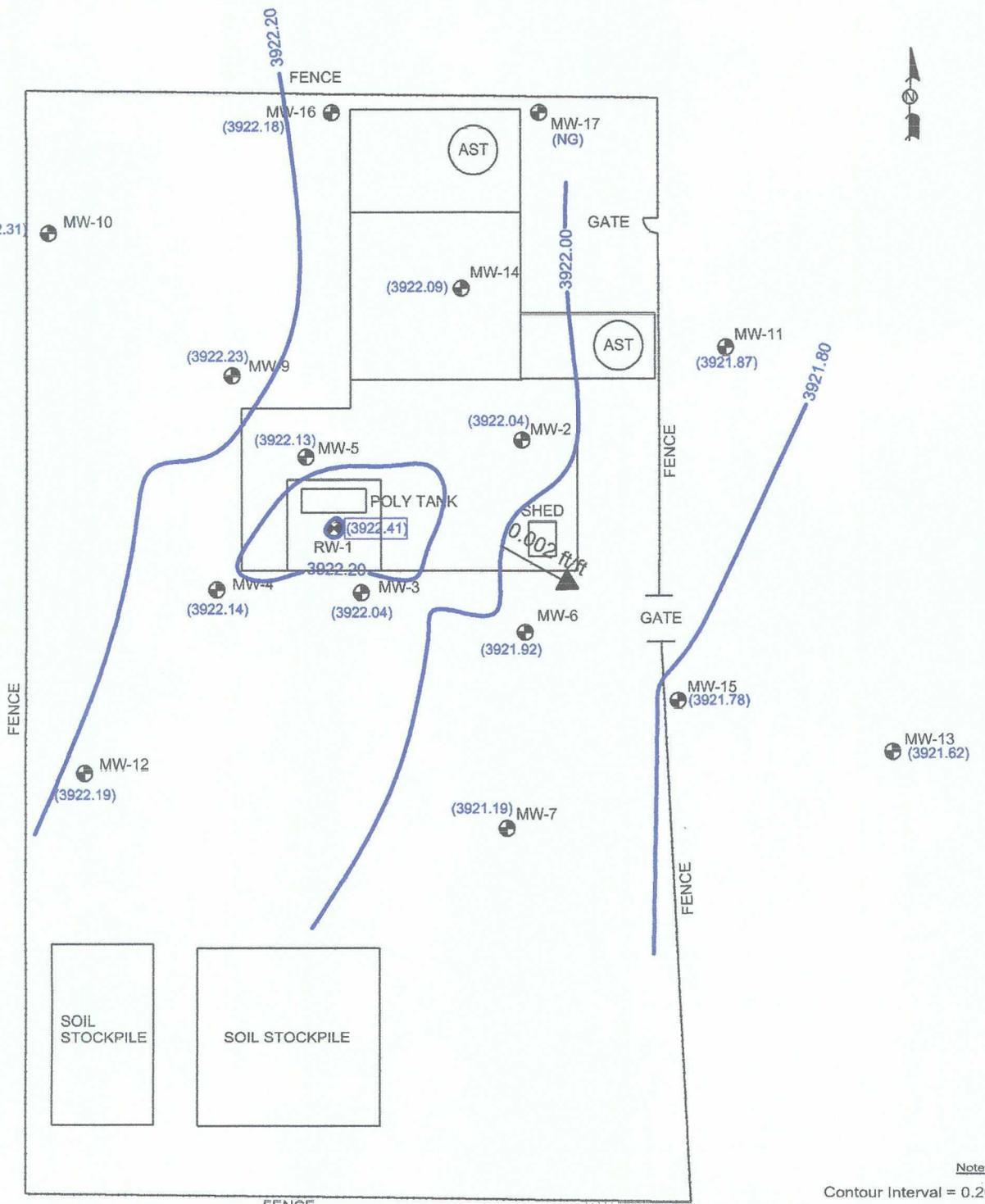
LEGEND:

- Monitor Well Location
- Groundwater Contour Lines
- (3921.20) Groundwater Elevation in Feet
- 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2A  
Inferred Groundwater  
Gradient Map  
(3/20/06)  
Plains Marketing, L.P.  
TNM 97-04  
Lea County, NM

NOVA Safety and Environmental

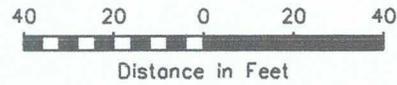
Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
May 24, 2006	NW1/4 SE1/4 Sec 18 T18S R36E	
		Lat. N32° 44' 50.3" Long. W103° 23' 38.5"



Note

Contour Interval = 0.20'

Groundwater Gradient Measured Between MW-5 and MW-13



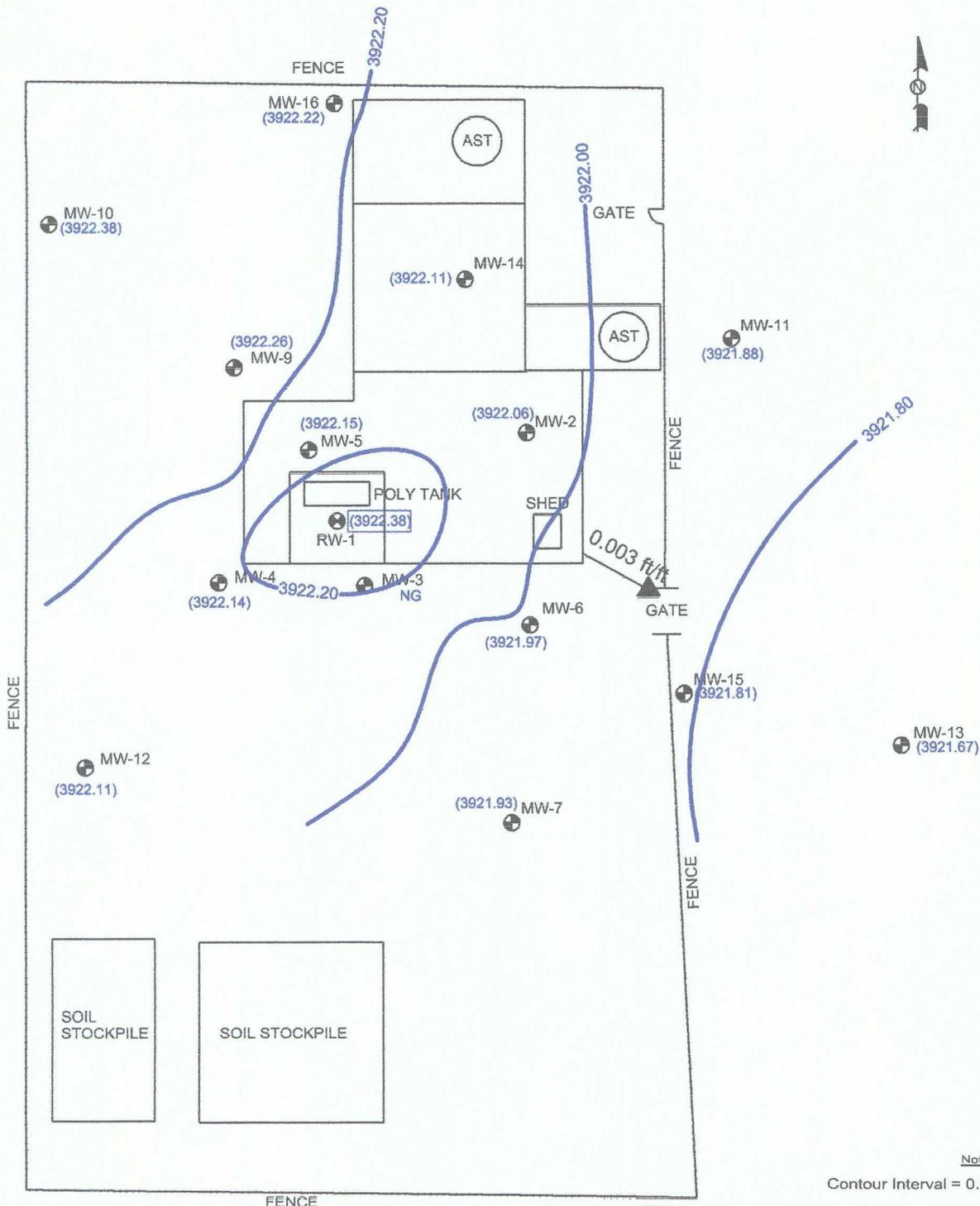
**LEGEND:**

	Monitor Well Location	(NG)	Not Gauged
	Groundwater Contour Lines		
	(3921.20) Groundwater Elevation in Feet		
	0.001 ft/ft Groundwater Gradient and Magnitude		

Figure 2B  
 Inferred Groundwater  
 Gradient Map  
 (6/21/06)  
 Plains Marketing, L.P.  
 TNM 97-04  
 Lea County, NM

NOVA Safety and Environmental

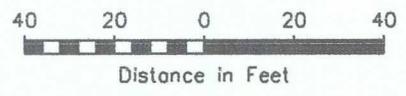
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Lat. N32° 44' 50.3" Long. W103° 23' 38.5"		



Note

Contour Interval = 0.20'

Groundwater Gradient Measured Between MW-9 and MW-13



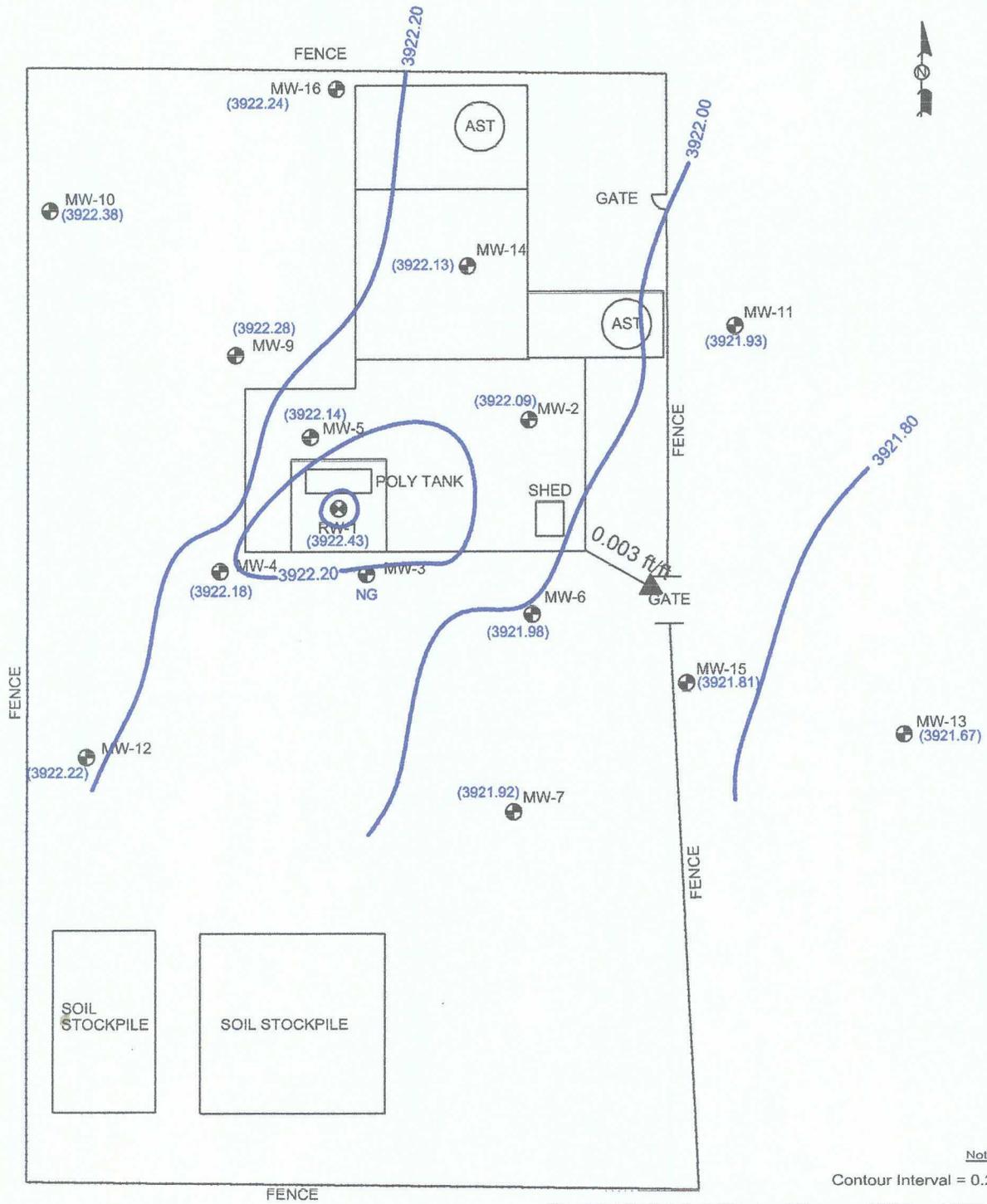
LEGEND:

- Monitor Well Location
- Groundwater Contour Lines
- (3921.20) Groundwater Elevation in Feet
- (NG) Not Gauged

Figure 2C  
 Inferred Groundwater  
 Gradient Map  
 (09/27/06)  
 Plains Marketing, L.P.  
 TNM 97-04  
 Lea County, NM

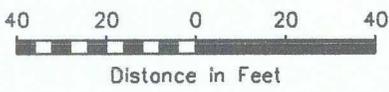
NOVA Safety and Environmental

Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
March 19, 2007	NW1/4 SE1/4 Sec 18 T18S R36E	
Lat. N32° 44' 50.3" Long. W103° 23' 38.5"		



Note  
Contour Interval = 0.20'

Groundwater Gradient Measured Between MW-9 and MW-13



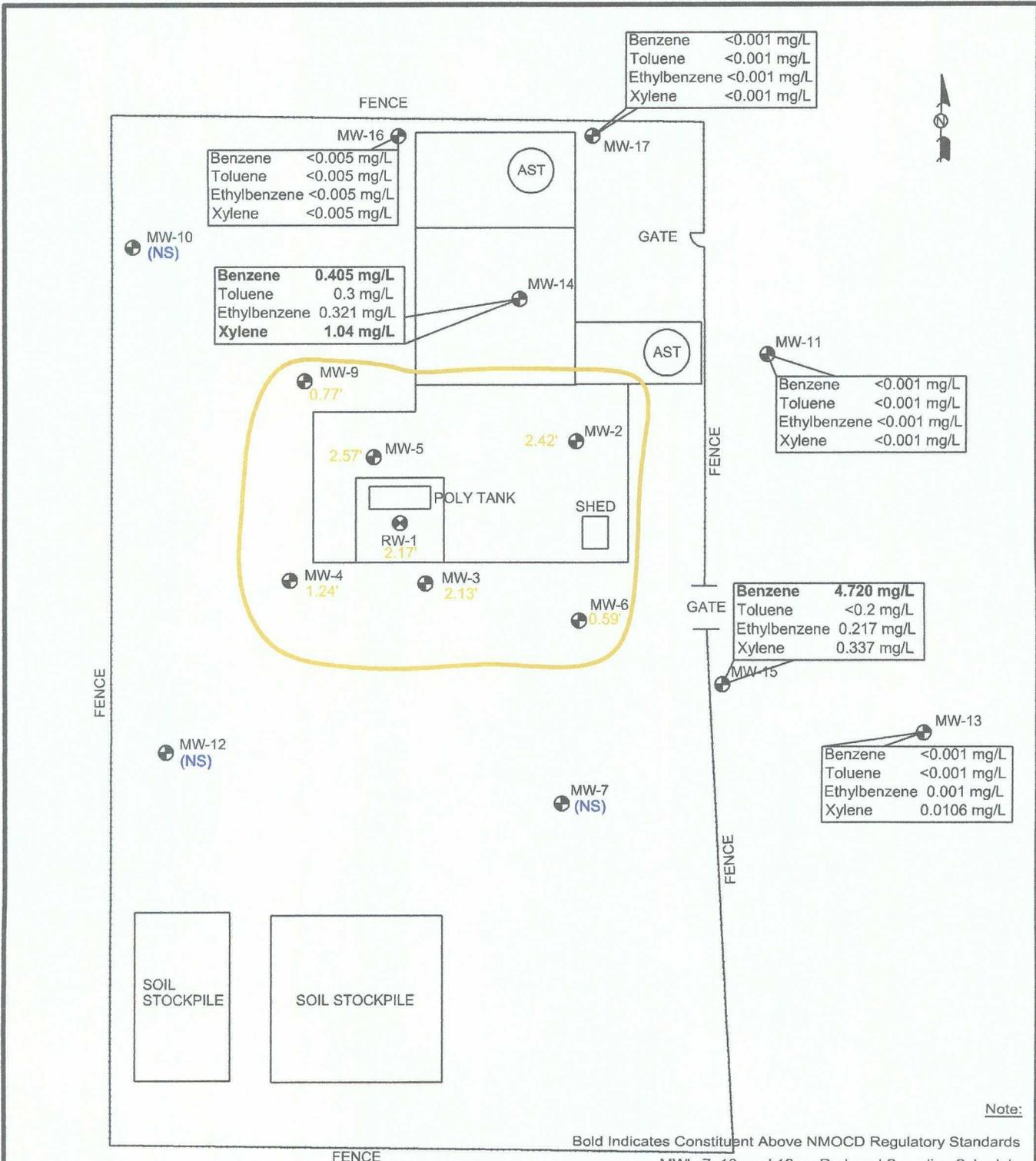
**LEGEND:**

- Monitor Well Location
- Groundwater Contour Lines
- (3921.20) Groundwater Elevation in Feet
- (NG) Not Gauged

Figure 2D  
Inferred Groundwater  
Gradient Map  
(12/04/06)  
Plains Marketing, L.P.  
TNM 97-04  
Lea County, NM

**NOVA Safety and Environmental**

Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
January 2, 2006	NW1/4 SE1/4 Sec 18 T18S R35E	
Lat. N32° 44' 50.3" Long. W103° 23' 38.5"		



MW-16  
 Benzene <0.005 mg/L  
 Toluene <0.005 mg/L  
 Ethylbenzene <0.005 mg/L  
 Xylene <0.005 mg/L

Benzene <0.001 mg/L  
 Toluene <0.001 mg/L  
 Ethylbenzene <0.001 mg/L  
 Xylene <0.001 mg/L

MW-14  
 Benzene 0.405 mg/L  
 Toluene 0.3 mg/L  
 Ethylbenzene 0.321 mg/L  
 Xylene 1.04 mg/L

MW-11  
 Benzene <0.001 mg/L  
 Toluene <0.001 mg/L  
 Ethylbenzene <0.001 mg/L  
 Xylene <0.001 mg/L

MW-9  
 0.77'

MW-5  
 2.57'

MW-2  
 2.42'

MW-4  
 1.24'

MW-3  
 2.13'

MW-6  
 0.59'

MW-15  
 Benzene 4.720 mg/L  
 Toluene <0.2 mg/L  
 Ethylbenzene 0.217 mg/L  
 Xylene 0.337 mg/L

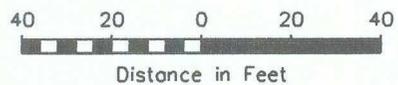
MW-12 (NS)

MW-7 (NS)

MW-13  
 Benzene <0.001 mg/L  
 Toluene <0.001 mg/L  
 Ethylbenzene 0.001 mg/L  
 Xylene 0.0106 mg/L

Note:

Bold Indicates Constituent Above NMOC Regulatory Standards  
 MW's 7, 10, and 12 on Reduced Sampling Schedule

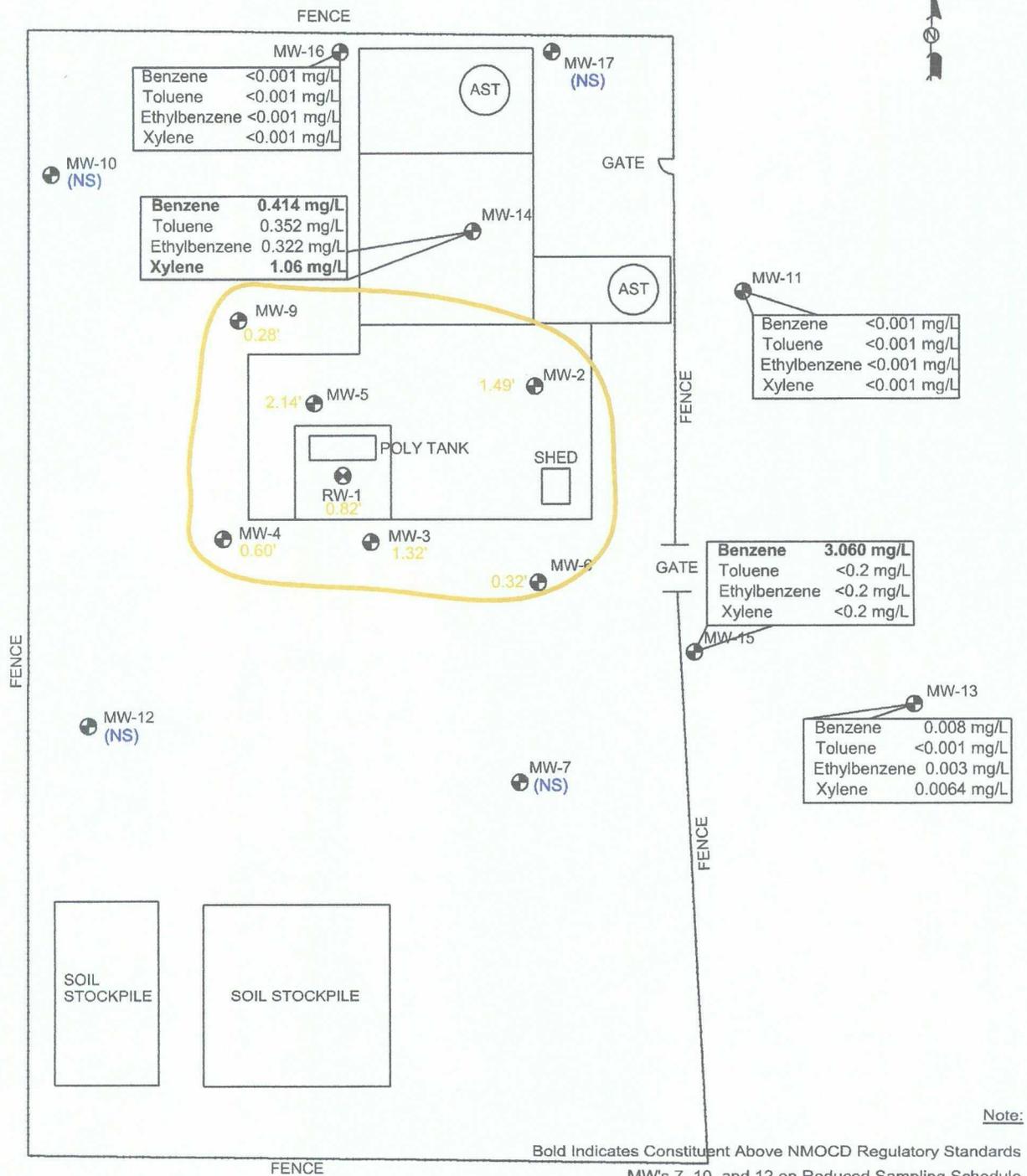


**LEGEND:**  
 ⊕ Monitor Well Location      2.42' Thickness of PSH (feet)  
 — Inferred PSH Extent      (NS) Not Sampled  
 <0.001 Constituent Concentration (mg/L)

Figure 3A  
 Groundwater Concentration  
 and Inferred PSH Extent Map  
 (03/20/06)  
 Plains Marketing, L.P.  
 TNM 97-04  
 Lea County, NM

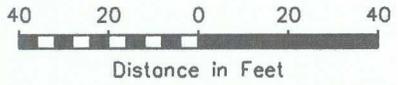
**NOVA Safety and Environmental**

Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
May 22, 2006	NW1/4 SE1/4 Sec 18 T18S R36E	
Lat. N32° 44' 50.3" Long. W103° 23' 38.5"		



Note:

Bold Indicates Constituent Above NMOCD Regulatory Standards  
MW's 7, 10, and 12 on Reduced Sampling Schedule



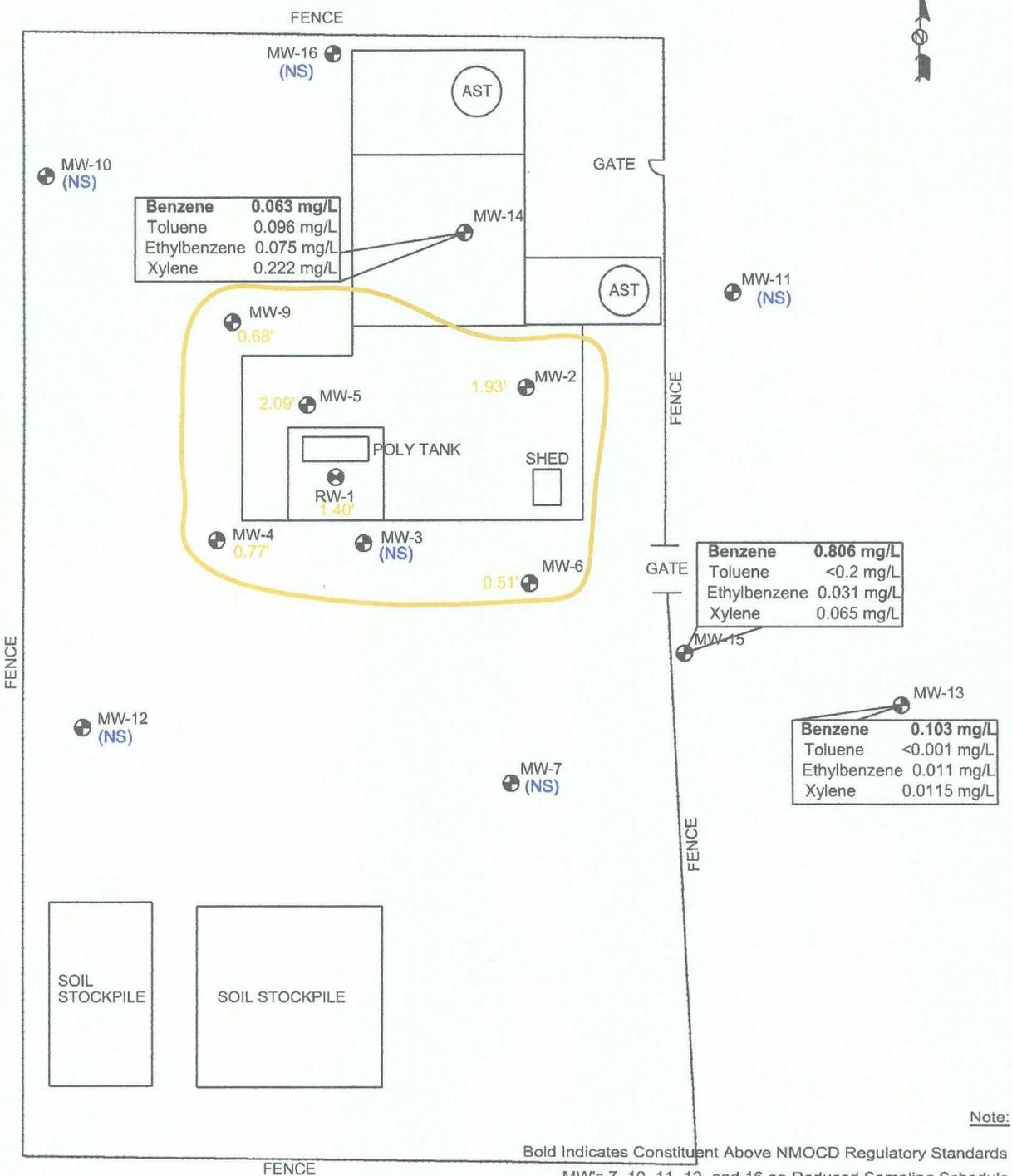
**LEGEND:**

- ⊕ Monitor Well Location
- Inferred PSH Extent
- <0.001 Constituent Concentration (mg/L)
- 2.42' Thickness of PSH (feet)
- (NS) Not Sampled

Figure 3B  
Groundwater Concentration  
and Inferred PSH Extent Map  
(06/21/06)  
Plains Marketing, L.P.  
TNM 97-04  
Lea County, NM

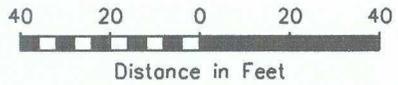
NOVA Safety and Environmental

Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
July 24, 2006	NW1/4 SE1/4 Sec 18 T18S R36E	
Lat. N32° 44' 50.3" Long. W103° 23' 38.5"		



Note:

Bold Indicates Constituent Above NMOCD Regulatory Standards  
MW's 7, 10, 11, 12, and 16 on Reduced Sampling Schedule



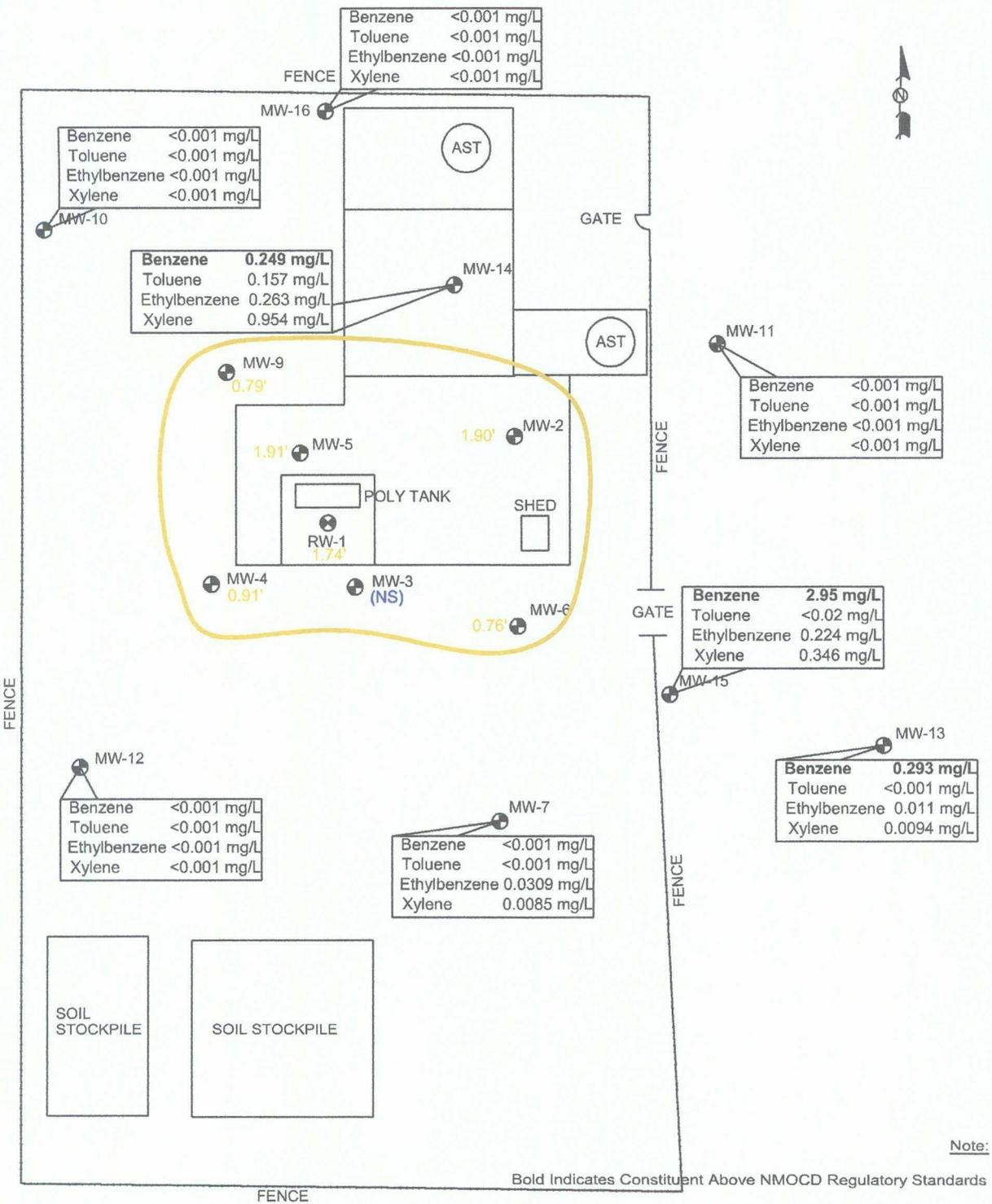
**LEGEND:**

- ⊕ Monitor Well Location
- ⊕ 2.42' Thickness of PSH (feet)
- Inferred PSH Extent
- (NS) Not Sampled
- <0.001 Constituent Concentration (mg/L)

Figure 3C  
Groundwater Concentration  
and Inferred PSH Extent Map  
(09/27/06)  
Plains Marketing, L.P.  
TNM 97-04  
Lea County, NM

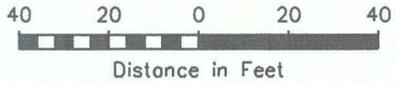
NOVA Safety and Environmental

Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
January 31, 2007	NW1/4 SE1/4 Sec 18 T18S R36E	
Lat. N32° 44' 50.3" Long. W103° 23' 38.5"		



Note:

Bold Indicates Constituent Above NMOCD Regulatory Standards



**LEGEND:**

- ⊕ Monitor Well Location
- Inferred PSH Extent
- 2.42' Thickness of PSH (feet)
- (NS) Not Sampled
- <0.001 Constituent Concentration (mg/L)

Figure 3D  
Groundwater Concentration  
and Inferred PSH Extent Map  
(12/04/06)  
Plains Marketing, L.P.  
TNM 97-04  
Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 40'	CAD By: DGC	Checked By: CDS
January 31, 2007	NW1/4 SE1/4 Sec 18 T16S R36E	
Lat. N32° 44' 50.3" Long. W103° 23' 38.5"		

**TABLES**

**TABLE 1**  
**2006 GROUNDWATER ELEVATION DATA**

**PLAINS MARKETING, L.P.**  
**TNM 97-04 (TOWNSEND)**  
**LEA COUNTY, NEW MEXICO**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW-2	01/04/06	3974.62	52.30	54.80	2.50	3921.95
	01/10/06	3974.62	52.29	54.80	2.51	3921.95
	01/17/06	3974.62	52.29	54.78	2.49	3921.96
	01/26/06	3974.62	52.26	54.78	2.52	3921.98
	01/31/06	3974.62	52.28	54.74	2.46	3921.97
	02/07/06	3974.62	52.27	54.73	2.46	3921.98
	02/09/06	3974.62	52.34	54.57	2.23	3921.95
	02/13/06	3974.62	52.28	54.60	2.32	3921.99
	02/22/06	3974.62	52.27	54.73	2.46	3921.98
	02/28/06	3974.62	52.29	54.70	2.41	3921.97
	03/07/06	3974.62	52.27	54.68	2.41	3921.99
	03/15/06	3974.62	52.24	54.70	2.46	3922.01
	03/20/06	3974.62	52.22	54.64	2.42	3922.04
	03/22/06	3974.62	52.60	53.40	0.80	3921.90
	03/29/06	3974.62	52.24	54.57	2.33	3922.03
	04/11/06	3974.62	52.21	54.59	2.38	3922.05
	04/18/06	3974.62	52.22	54.60	2.38	3922.04
	04/25/06	3974.62	52.29	54.63	2.34	3921.98
	05/02/06	3974.62	52.22	53.98	1.76	3922.14
	05/09/06	3974.62	52.21	54.43	2.22	3922.08
	05/16/06	3974.62	52.22	54.61	2.39	3922.04
	05/23/06	3974.62	52.23	54.59	2.36	3922.04
	05/31/06	3974.62	52.21	54.58	2.37	3922.05
	06/06/06	3974.62	52.22	54.54	2.32	3922.05
	06/13/06	3974.62	52.22	54.54	2.32	3922.05
	06/20/06	3974.62	52.21	54.51	2.30	3922.07
	06/21/06	3974.62	52.36	53.85	1.49	3922.04
	07/06/06	3974.62	52.20	54.53	2.33	3922.07
	07/12/06	3974.62	52.25	54.31	2.06	3922.06
	07/20/06	3974.62	52.29	53.18	0.89	3922.20
	07/25/06	3974.62	52.25	54.28	2.03	3922.07
	08/01/06	3974.62	52.26	54.31	2.05	3922.05
	08/16/06	3974.62	52.26	54.32	2.06	3922.05
	08/23/06	3974.62	52.27	53.26	0.99	3922.20
	08/28/06	3974.62	52.28	54.24	1.96	3922.05
	09/12/06	3974.62	52.25	54.27	2.02	3922.07
	09/22/06	3974.62	52.27	54.27	2.00	3922.05
	09/27/06	3974.62	52.27	54.20	1.93	3922.06
	10/06/06	3974.62	52.25	54.29	2.04	3922.06
	10/10/06	3974.62	52.69	54.19	1.50	3921.71
	10/16/06	3974.62	52.28	54.25	1.97	3922.04

TABLE 1

## 2006 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 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	10/26/06	3974.62	52.27	54.25	1.98	3922.05
	11/03/06	3974.62	52.27	54.24	1.97	3922.05
	11/09/06	3974.62	52.28	54.14	1.86	3922.06
	11/16/06	3974.62	52.26	54.18	1.92	3922.07
	11/22/06	3974.62	52.25	54.18	1.93	3922.08
	12/04/06	3974.62	52.25	54.15	1.90	3922.09
	12/08/06	3974.62	52.25	54.19	1.94	3922.08
	12/15/06	3974.62	52.16	54.37	2.21	3922.13
MW-3	01/04/06	3974.60	52.33	54.58	2.25	3921.93
	01/10/06	3974.60	52.29	54.58	2.29	3921.97
	01/17/06	3974.60	52.28	54.52	2.24	3921.98
	01/26/06	3974.60	52.27	54.52	2.25	3921.99
	01/31/06	3974.60	52.28	54.50	2.22	3921.99
	02/07/06	3974.60	52.27	54.46	2.19	3922.00
	02/09/06	3974.60	52.36	54.15	1.79	3921.97
	02/13/06	3974.60	52.25	54.49	2.24	3922.01
	02/22/06	3974.60	52.25	54.53	2.28	3922.01
	02/28/06	3974.60	52.27	54.50	2.23	3922.00
	03/07/06	3974.60	52.28	54.46	2.18	3921.99
	03/15/06	3974.60	52.25	54.44	2.19	3922.02
	03/20/06	3974.60	52.24	54.37	2.13	3922.04
	03/22/06	3974.60	52.71	52.78	0.07	3921.88
	03/29/06	3974.60	52.28	54.11	1.83	3922.05
	04/11/06	3974.60	52.23	54.29	2.06	3922.06
	04/18/06	3974.60	52.23	54.32	2.09	3922.06
	04/25/06	3974.60	52.32	54.12	1.80	3922.01
	05/02/06	3974.60	52.23	54.43	2.20	3922.04
	05/09/06	3974.60	52.22	54.30	2.08	3922.07
	05/16/06	3974.60	52.22	54.29	2.07	3922.07
	05/23/06	3974.60	52.23	54.30	2.07	3922.06
	05/31/06	3974.60	52.23	54.31	2.08	3922.06
	06/06/06	3974.60	52.22	54.21	1.99	3922.08
	06/13/06	3974.60	52.21	54.24	2.03	3922.09
	06/20/06	3974.60	52.21	54.23	2.02	3922.09
	06/21/06	3974.60	52.34	53.66	1.32	3922.06
	07/06/06	3974.60	52.22	54.25	2.03	3922.08
	07/12/06	3974.60	52.29	53.96	1.67	3922.06
	07/20/06	3974.60	52.25	53.99	1.74	3922.09
	07/25/06	3974.60	52.29	53.88	1.59	3922.07
	08/01/06	3974.60	52.29	53.90	1.61	3922.07

**TABLE 1**  
**2006 GROUNDWATER ELEVATION DATA**  
**PLAINS MARKETING, L.P.**  
**TNM 97-04 (TOWNSEND)**  
**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	08/16/06	3974.60	52.32	53.78	1.46	3922.06
	08/23/06	3974.60	53.33	53.75	0.42	3921.21
	08/28/06	3974.60	52.32	53.79	1.47	3922.06
	09/12/06	3974.60	52.32	53.77	1.45	3922.06
	09/22/06	3974.60	52.34	54.01	1.67	3922.01
	10/06/06	3974.60	Well Obstructed			
	10/10/06	3974.60	Well Obstructed			
	12/04/06	3974.60	Well Obstructed			
	12/15/06	3974.60	Well Obstructed			
	MW-4	01/04/06	3974.53	52.38	53.70	1.32
01/10/06		3974.53	52.25	53.70	1.45	3922.06
01/17/06		3974.53	52.26	53.65	1.39	3922.06
01/26/06		3974.53	52.23	53.63	1.40	3922.09
01/31/06		3974.53	52.25	53.60	1.35	3922.08
02/07/06		3974.53	52.25	53.56	1.31	3922.08
02/09/06		3974.53	52.27	53.65	1.38	3922.05
02/13/06		3974.53	52.29	53.55	1.26	3922.05
02/22/06		3974.53	52.25	53.71	1.46	3922.06
02/28/06		3974.53	52.29	53.68	1.39	3922.03
03/07/06		3974.53	52.30	53.63	1.33	3922.03
03/15/06		3974.53	52.23	53.55	1.32	3922.10
03/20/06		3974.53	52.22	53.46	1.24	3922.12
03/22/06		3974.53	52.52	52.54	0.02	3922.01
03/29/06		3974.53	52.25	53.32	1.07	3922.12
04/11/06		3974.53	52.22	53.39	1.17	3922.13
04/18/06		3974.53	52.22	53.40	1.18	3922.13
04/25/06		3974.53	52.29	53.14	0.85	3922.11
05/02/06		3974.53	52.22	53.34	1.12	3922.14
05/09/06		3974.53	52.21	53.30	1.09	3922.16
05/16/06		3974.53	52.23	52.31	0.08	3922.29
05/23/06		3974.53	52.23	53.29	1.06	3922.14
05/31/06		3974.53	52.20	53.36	1.16	3922.16
06/06/06		3974.53	52.22	53.26	1.04	3922.15
06/13/06		3974.53	52.23	53.29	1.06	3922.14
06/20/06		3974.53	52.20	53.28	1.08	3922.17
06/21/06		3974.53	52.30	52.90	0.60	3922.14
07/06/06		3974.53	52.21	53.30	1.09	3922.16
07/12/06	3974.53	52.23	53.17	0.94	3922.16	
07/20/06	3974.53	52.23	53.12	0.89	3922.17	
07/25/06	3974.53	52.25	53.11	0.86	3922.15	

TABLE 1

## 2006 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
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	08/01/06	3974.53	52.24	53.15	0.91	3922.15
	08/16/06	3974.53	52.33	52.81	0.48	3922.13
	08/23/06	3974.53	52.27	53.00	0.73	3922.15
	08/28/06	3974.53	52.27	53.00	0.73	3922.15
	09/12/06	3974.53	52.25	53.06	0.81	3922.16
	09/22/06	3974.53	52.25	53.15	0.90	3922.15
	09/27/06	3974.53	52.27	53.04	0.77	3922.14
	10/06/06	3974.53	52.21	53.24	1.03	3922.17
	10/10/06	3974.53	52.24	53.16	0.92	3922.15
	10/16/06	3974.53	52.23	53.30	1.07	3922.14
	10/26/06	3974.53	52.21	53.20	0.99	3922.17
	11/03/06	3974.53	52.22	53.18	0.96	3922.17
	11/09/06	3974.53	52.20	53.15	0.95	3922.19
	11/16/06	3974.53	52.22	53.18	0.96	3922.17
	11/22/06	3974.53	52.22	53.11	0.89	3922.18
	12/04/06	3974.53	52.21	53.12	0.91	3922.18
12/08/06	3974.53	52.21	53.17	0.96	3922.18	
12/15/06	3974.53	52.19	53.12	0.93	3922.20	
MW-5	01/04/06	3974.27	51.99	54.50	2.51	3921.90
	01/10/06	3974.27	51.90	54.52	2.62	3921.98
	01/17/06	3974.27	51.85	54.50	2.65	3922.02
	01/26/06	3974.27	51.83	54.47	2.64	3922.04
	01/31/06	3974.27	51.86	54.51	2.65	3922.01
	02/07/06	3974.27	51.83	54.45	2.62	3922.05
	02/09/06	3974.27	51.86	54.40	2.54	3922.03
	02/13/06	3974.27	51.89	54.49	2.60	3921.99
	02/22/06	3974.27	51.81	54.45	2.64	3922.06
	02/28/06	3974.27	51.83	54.44	2.61	3922.05
	03/07/06	3974.27	51.89	54.40	2.51	3922.00
	03/15/06	3974.27	51.81	54.40	2.59	3922.07
	03/20/06	3974.27	51.77	54.34	2.57	3922.11
	03/22/06	3974.27	52.12	53.31	1.19	3921.97
	03/29/06	3974.27	51.79	54.30	2.51	3922.10
	04/11/06	3974.27	51.76	54.30	2.54	3922.13
	04/18/06	3974.27	51.76	54.31	2.55	3922.13
	04/25/06	3974.27	51.84	54.25	2.41	3922.07
	05/02/06	3974.27	51.76	54.33	2.57	3922.12
05/09/06	3974.27	51.76	54.33	2.57	3922.12	
05/16/06	3974.27	51.78	54.30	2.52	3922.11	
05/23/06	3974.27	51.76	54.28	2.52	3922.13	

TABLE 1

## 2006 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-5	05/31/06	3974.27	51.76	54.30	2.54	3922.13
	06/06/06	3974.27	51.76	54.34	2.58	3922.12
	06/13/06	3974.27	51.77	54.26	2.49	3922.13
	06/20/06	3974.27	51.76	54.27	2.51	3922.13
	06/21/06	3974.27	51.82	53.96	2.14	3922.13
	07/06/06	3974.27	51.75	54.21	2.46	3922.15
	07/12/06	3974.27	51.81	53.91	2.10	3922.15
	07/20/06	3974.27	51.82	52.16	0.34	3922.40
	07/25/06	3974.27	51.87	53.84	1.97	3922.10
	08/01/06	3974.27	51.81	54.02	2.21	3922.13
	08/16/06	3974.27	52.13	52.70	0.57	3922.05
	08/23/06	3974.27	51.89	53.53	1.64	3922.13
	08/28/06	3974.27	51.86	53.75	1.89	3922.13
	09/12/06	3974.27	51.84	53.80	1.96	3922.14
	09/22/06	3974.27	51.84	53.80	1.96	3922.14
	09/27/06	3974.27	51.81	53.90	2.09	3922.15
	10/06/06	3974.27	51.82	53.84	2.02	3922.15
	10/10/06	3974.27	51.90	53.86	1.96	3922.08
	10/16/06	3974.27	51.87	53.84	1.97	3922.10
	10/26/06	3974.27	51.85	53.85	2.00	3922.12
	11/03/06	3974.27	51.83	53.82	1.99	3922.14
	11/09/06	3974.27	51.83	53.74	1.91	3922.15
	11/16/06	3974.27	51.89	53.78	1.89	3922.10
	11/22/06	3974.27	51.81	53.87	2.06	3922.15
12/04/06	3974.27	51.84	53.75	1.91	3922.14	
12/08/06	3974.27	51.85	53.78	1.93	3922.13	
12/15/06	3974.27	51.74	54.05	2.31	3922.18	
MW-6	01/04/06	3974.72	52.81	53.50	0.69	3921.81
	01/10/06	3974.72	52.72	53.50	0.78	3921.88
	01/17/06	3974.72	52.69	53.81	1.12	3921.86
	01/26/06	3974.72	52.68	53.83	1.15	3921.87
	01/31/06	3974.72	52.70	53.73	1.03	3921.87
	02/07/06	3974.72	52.73	53.60	0.87	3921.86
	02/09/06	3974.72	52.87	53.13	0.26	3921.81
	02/13/06	3974.72	52.73	53.51	0.78	3921.87
	02/22/06	3974.72	52.76	53.29	0.53	3921.88
	02/28/06	3974.72	52.75	53.28	0.53	3921.89
	03/07/06	3974.72	52.79	53.25	0.46	3921.86
	03/15/06	3974.72	52.72	53.37	0.65	3921.90
	03/20/06	3974.72	52.71	53.30	0.59	3921.92

TABLE 1

## 2006 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-6	03/22/06	3974.72	52.94	52.95	0.01	3921.78
	03/29/06	3974.72	52.78	52.99	0.21	3921.91
	04/11/06	3974.72	52.72	53.17	0.45	3921.93
	04/18/06	3974.72	52.72	53.15	0.43	3921.94
	04/25/06	3974.72	52.79	52.93	0.14	3921.91
	05/02/06	3974.72	52.74	53.10	0.36	3921.93
	05/09/06	3974.72	52.72	53.03	0.31	3921.95
	05/16/06	3974.72	52.72	53.20	0.48	3921.93
	05/23/06	3974.72	52.74	53.15	0.41	3921.92
	05/31/06	3974.72	52.71	53.13	0.42	3921.95
	06/06/06	3974.72	52.71	53.10	0.39	3921.95
	06/13/06	3974.72	52.70	53.11	0.41	3921.96
	06/20/06	3974.72	52.71	53.13	0.42	3921.95
	06/21/06	3974.72	52.75	53.07	0.32	3921.92
	07/06/06	3974.72	52.68	53.31	0.63	3921.95
	07/12/06	3974.72	52.66	53.46	0.80	3921.94
	07/20/06	3974.72	52.65	53.27	0.62	3921.98
	07/25/06	3974.72	52.65	53.40	0.75	3921.96
	08/01/06	3974.72	52.68	53.34	0.66	3921.94
	08/16/06	3974.72	52.65	53.54	0.89	3921.94
	08/23/06	3974.72	52.67	53.42	0.75	3921.94
	08/28/06	3974.72	52.73	53.23	0.50	3921.92
	09/12/06	3974.72	52.25	53.52	1.27	3922.28
	09/22/06	3974.72	53.15	54.00	0.85	3921.44
09/27/06	3974.72	52.67	53.18	0.51	3921.97	
10/06/06	3974.72	52.61	53.54	0.93	3921.97	
10/10/06	3974.72	52.70	53.20	0.50	3921.95	
10/16/06	3974.72	52.69	53.21	0.52	3921.95	
10/26/06	3974.72	52.65	53.40	0.75	3921.96	
11/03/06	3974.72	52.64	53.30	0.66	3921.98	
11/09/06	3974.72	52.65	53.25	0.60	3921.98	
11/16/06	3974.72	52.68	53.21	0.53	3921.96	
11/22/06	3974.72	52.67	53.17	0.50	3921.98	
12/04/06	3974.72	52.63	53.39	0.76	3921.98	
12/08/06	3974.72	52.59	53.49	0.90	3922.00	
12/15/06	3974.72	52.64	53.23	0.59	3921.99	
MW-7	03/20/06	3974.60	-	52.73	0.00	3921.87
	06/21/06	3974.60	-	52.69	0.00	3921.91
	09/27/06	3974.60	-	52.67	0.00	3921.93
	12/04/06	3974.60	-	52.68	0.00	3921.92

TABLE 1

## 2006 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-9	01/04/06	3975.06	52.76	53.51	0.75	3922.19
	01/10/06	3975.06	52.68	53.51	0.83	3922.26
	01/17/06	3975.06	52.77	53.85	1.08	3922.13
	01/26/06	3975.06	52.75	53.80	1.05	3922.15
	01/31/06	3975.06	52.79	53.75	0.96	3922.13
	02/07/06	3975.06	52.79	53.70	0.91	3922.13
	02/09/06	3975.06	52.90	53.10	0.20	3922.13
	02/13/06	3975.06	52.76	53.58	0.82	3922.18
	02/22/06	3975.06	52.79	53.60	0.81	3922.15
	02/28/06	3975.06	52.77	53.60	0.83	3922.17
	03/07/06	3975.06	52.76	53.58	0.82	3922.18
	03/15/06	3975.06	52.75	53.60	0.85	3922.18
	03/20/06	3975.06	52.75	53.52	0.77	3922.19
	03/22/06	3975.06	52.96	52.98	0.02	3922.10
	03/29/06	3975.06	52.80	53.21	0.41	3922.20
	04/11/06	3975.06	52.74	53.42	0.68	3922.22
	04/18/06	3975.06	52.75	53.41	0.66	3922.21
	04/25/06	3975.06	52.83	53.07	0.24	3922.19
	05/02/06	3975.06	52.74	53.34	0.60	3922.23
	05/09/06	3975.06	52.73	53.34	0.61	3922.24
	05/16/06	3975.06	52.74	53.43	0.69	3922.22
	05/23/06	3975.06	52.71	53.48	0.77	3922.23
	05/31/06	3975.06	52.71	53.54	0.83	3922.23
	06/06/06	3975.06	52.73	53.88	1.15	3922.16
	06/13/06	3975.06	52.72	53.38	0.66	3922.24
	06/20/06	3975.06	52.72	53.38	0.66	3922.24
	06/21/06	3975.06	52.79	53.07	0.28	3922.23
	07/06/06	3975.06	52.69	53.52	0.83	3922.25
	07/12/06	3975.06	52.66	53.66	1.00	3922.25
	07/20/06	3975.06	52.63	53.61	0.98	3922.28
	07/25/06	3975.06	52.75	53.70	0.95	3922.17
	08/01/06	3975.06	52.70	53.49	0.79	3922.24
	08/16/06	3975.06	52.68	53.69	1.01	3922.23
	08/23/06	3975.06	52.70	53.47	0.77	3922.24
	08/28/06	3975.06	52.72	53.36	0.64	3922.24
	09/12/06	3975.06	52.67	53.65	0.98	3922.24
	09/22/06	3975.06	52.65	53.60	0.95	3922.27
	09/27/06	3975.06	52.70	53.38	0.68	3922.26
	10/06/06	3975.06	52.64	53.64	1.00	3922.27
	10/10/06	3975.06	52.71	53.30	0.59	3922.26

TABLE 1

2006 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-9	10/16/06	3975.06	52.74	53.39	0.65	3922.22
	10/26/06	3975.06	52.68	53.49	0.81	3922.26
	11/03/06	3975.06	52.69	53.39	0.70	3922.27
	11/09/06	3975.06	52.70	53.35	0.65	3922.26
	11/16/06	3975.06	52.70	53.35	0.65	3922.26
	11/22/06	3975.06	52.71	53.29	0.58	3922.26
	12/04/06	3975.06	52.66	53.45	0.79	3922.28
	12/08/06	3975.06	52.65	53.55	0.90	3922.28
	12/15/06	3975.06	52.67	53.32	0.65	3922.29
MW-10	03/20/06	3975.02	-	52.71	0.00	3922.31
	06/21/06	3975.02	-	52.71	0.00	3922.31
	09/27/06	3975.02	-	52.64	0.00	3922.38
	12/04/06	3975.02	-	52.64	0.00	3922.38
MW-11	03/20/06	3975.30	-	53.45	0.00	3921.85
	06/21/06	3975.30	-	53.43	0.00	3921.87
	09/27/06	3975.30	-	53.42	0.00	3921.88
	12/04/06	3975.30	-	53.37	0.00	3921.93
MW-12	03/20/06	3974.55	-	52.39	0.00	3922.16
	06/21/06	3974.55	-	52.36	0.00	3922.19
	09/27/06	3974.55	-	52.44	0.00	3922.11
	12/04/06	3974.55	-	52.33	0.00	3922.22
MW-13	03/20/06	3975.00	-	53.43	0.00	3921.57
	06/21/06	3975.00	-	53.38	0.00	3921.62
	09/27/06	3975.00	-	53.33	0.00	3921.67
	12/04/06	3975.00	-	53.33	0.00	3921.67
MW-14	03/20/06	3976.15	-	54.11	0.00	3922.04
	06/21/06	3976.15	-	54.06	0.00	3922.09
	09/27/06	3976.15	-	54.04	0.00	3922.11
	12/04/06	3976.15	-	54.02	0.00	3922.13
MW-15	03/20/06	3974.69	-	52.96	0.00	3921.73
	06/21/06	3974.69	-	52.91	0.00	3921.78
	09/27/06	3974.69	-	52.88	0.00	3921.81
	12/04/06	3974.69	-	52.88	0.00	3921.81
MW-16	03/20/06	3975.12	-	52.97	0.00	3922.15

TABLE 1

2006 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-16	06/21/06	3975.12	-	52.94	0.00	3922.18
	09/27/06	3975.12	-	52.90	0.00	3922.22
	12/04/06	3975.12	-	52.88	0.00	3922.24
MW-17	03/20/06	3975.93	-	53.94	0.00	3921.99
	06/21/06	Not Sampled				
	08/09/06	Plugged and Abandoned				
RW-1	01/04/06	3970.79	48.14	50.40	2.26	3922.31
	01/10/06	3970.79	48.10	50.53	2.43	3922.33
	01/17/06	3970.79	48.10	50.45	2.35	3922.34
	01/26/06	3970.79	48.10	50.45	2.35	3922.34
	01/31/06	3970.79	48.10	50.42	2.32	3922.34
	02/07/06	3970.79	48.11	50.34	2.23	3922.35
	02/09/06	3970.79	48.12	50.43	2.31	3922.32
	02/13/06	3970.79	48.12	50.45	2.33	3922.32
	02/22/06	3970.79	48.13	50.47	2.34	3922.31
	02/28/06	3970.79	48.11	50.46	2.35	3922.33
	03/07/06	3970.79	48.13	50.39	2.26	3922.32
	03/15/06	3970.79	48.09	50.36	2.27	3922.36
	03/20/06	3970.79	48.10	50.27	2.17	3922.36
	03/22/06	3970.79	48.14	50.43	2.29	3922.31
	03/29/06	3970.79	48.09	50.40	2.31	3922.35
	04/11/06	3970.79	47.96	50.37	2.41	3922.47
	04/18/06	3970.79	48.02	50.31	2.29	3922.43
	04/25/06	3970.79	48.05	50.29	2.24	3922.40
	05/02/06	3970.79	48.00	50.31	2.31	3922.44
	05/09/06	3970.79	48.03	50.21	2.18	3922.43
	05/16/06	3970.79	48.05	50.22	2.17	3922.41
	05/23/06	3970.79	48.03	50.20	2.17	3922.43
	05/31/06	3970.79	48.06	50.18	2.12	3922.41
	06/06/06	3970.79	48.10	50.09	1.99	3922.39
	06/13/06	3970.79	48.05	50.05	2.00	3922.44
	06/20/06	3970.79	48.10	50.10	2.00	3922.39
	06/21/06	3970.79	48.26	49.08	0.82	3922.41
	07/06/06	3970.79	48.09	50.18	2.09	3922.39
07/12/06	3970.79	48.06	50.17	2.11	3922.41	
07/20/06	3970.79	49.89	50.16	0.27	3920.86	
07/25/06	3970.79	48.01	50.21	2.20	3922.45	
08/01/06	3970.79	48.01	50.23	2.22	3922.45	
08/16/06	3970.79	48.01	50.25	2.24	3922.44	

TABLE 1

2006 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW-1	08/23/06	3970.79	48.06	50.11	2.05	3922.42
	08/28/06	3970.79	48.03	50.03	2.00	3922.46
	09/12/06	3970.79	48.09	49.80	1.71	3922.44
	09/22/06	3970.79	48.14	49.90	1.76	3922.39
	09/27/06	3970.79	48.20	49.60	1.40	3922.38
	10/06/06	3970.79	48.04	50.00	1.96	3922.46
	10/10/06	3970.79	48.20	49.34	1.14	3922.42
	10/16/06	3970.79	48.13	49.52	1.39	3922.45
	10/26/06	3970.79	48.05	49.83	1.78	3922.47
	11/03/06	3970.79	48.18	49.70	1.52	3922.38
	11/09/06	3970.79	48.10	49.60	1.50	3922.47
	11/16/06	3970.79	48.19	49.16	0.97	3922.45
	11/22/06	3970.79	48.20	49.56	1.36	3922.39
	12/04/06	3970.79	48.10	49.84	1.74	3922.43
	12/08/06	3970.79	48.08	49.99	1.91	3922.42
	12/15/06	3970.79	48.09	49.53	1.44	3922.48

TABLE 2

2006 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS PIPELINE, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030			
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES
MW-2	03/20/06	Not Sampled Due to PSH in Well			
	06/21/06	Not Sampled Due to PSH in Well			
	09/27/06	Not Sampled Due to PSH in Well			
	12/04/06	Not Sampled Due to PSH in Well			
MW-3	03/20/06	Not Sampled Due to PSH in Well			
	06/21/06	Not Sampled Due to PSH in Well			
	09/27/06	Not Sampled Due to PSH in Well			
	12/04/06	Not Sampled Due to PSH in Well and Well Obstruction			
MW-4	03/20/06	Not Sampled Due to PSH in Well			
	06/21/06	Not Sampled Due to PSH in Well			
	09/27/06	Not Sampled Due to PSH in Well			
	12/04/06	Not Sampled Due to PSH in Well			
MW-5	03/20/06	Not Sampled Due to PSH in Well			
	06/21/06	Not Sampled Due to PSH in Well			
	09/27/06	Not Sampled Due to PSH in Well			
	12/04/06	Not Sampled Due to PSH in Well			
MW-6	03/20/06	Not Sampled Due to PSH in Well			
	06/21/06	Not Sampled Due to PSH in Well			
	09/27/06	Not Sampled Due to PSH in Well			
	12/04/06	Not Sampled Due to PSH in Well			
MW-7	03/20/06	Not Sampled Due to Sample Reduction			
	06/21/06	Not Sampled Due to Sample Reduction			
	09/27/06	Not Sampled Due to Sample Reduction			
	12/04/06	<0.001	<0.001	0.0309	0.0085
MW-9	03/20/06	Not Sampled Due to PSH in Well			
	06/21/06	Not Sampled Due to PSH in Well			
	09/27/06	Not Sampled Due to PSH in Well			
	12/04/06	Not Sampled Due to PSH in Well			
MW-10	03/20/06	Not Sampled Due to Sample Reduction			
	06/21/06	Not Sampled Due to Sample Reduction			
	09/27/06	Not Sampled Due to Sample Reduction			

TABLE 2

## 2006 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS PIPELINE, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO

*All Concentrations are reported in mg/L*

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
MW-10	12/04/06	<0.001	<0.001	<0.001	<0.001	
MW-11	03/20/06	<0.001	<0.001	<0.001	<0.001	
	06/21/06	<0.001	<0.001	<0.001	<0.001	
	09/27/06	Not Sampled Due to Sample Reduction				
	12/04/06	<0.001	<0.001	<0.001	<0.001	
MW-12	03/20/06	Not Sampled Due to Sample Reduction				
	06/21/06	Not Sampled Due to Sample Reduction				
	09/27/06	Not Sampled Due to Sample Reduction				
	12/04/06	<0.001	<0.001	<0.001	<0.001	
MW-13	03/20/06	0.001	<0.001	0.001	0.0106	
	06/21/06	0.008	<0.001	0.003	0.0064	
	09/27/06	<b>0.103</b>	<0.001	0.011	0.0115	
	12/04/06	<b>0.293</b>	<0.001	0.011	0.0094	
MW-14	03/20/06	<b>0.405</b>	0.300	0.321	<b>1.040</b>	
	06/21/06	<b>0.414</b>	0.352	0.322	<b>1.060</b>	
	09/27/06	<b>0.063</b>	0.096	0.075	0.222	
	12/04/06	<b>0.249</b>	0.157	0.263	0.954	
MW-15	03/20/06	<b>4.720</b>	<0.2	0.217	0.337	
	06/21/06	<b>3.060</b>	<0.2	<0.2	<0.2	
	09/27/06	<b>0.806</b>	<0.02	0.031	0.065	
	12/04/06	<b>2.950</b>	<0.02	0.224	0.346	
MW-16	03/20/06	<0.005	<0.005	<0.005	<0.005	
	06/21/06	<0.001	<0.001	<0.001	<0.001	
	09/27/06	Not Sampled Due to Sample Reduction				
	12/04/06	<0.001	<0.001	<0.001	<0.001	
MW-17	03/20/06	<0.001	<0.001	<0.001	<0.001	
	06/21/06	Not Sampled P&A approved by NMOCD				
	08/09/06	Plugged and Abandoned				
RW-1	03/20/06	Not Sampled Due to PSH in Well				
	06/21/06	Not Sampled Due to PSH in Well				

TABLE 2

2006 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS PIPELINE, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO

*All Concentrations are reported in mg/L*

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
RW-1	09/27/06	Not Sampled Due to PSH in Well				
	12/04/06	Not Sampled Due to PSH in Well				

**APPENDICES**

**APPENDIX A:**  
**Release Notification and Corrective Action**  
**(Form C-141)**

**DISTRICT I**  
P.O. BOX 1980, HOBBS, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

SUBMIT 2 COPIES TO  
APPROPRIATE DISTRICT  
OFFICE IN ACCORDANCE  
WITH RULE 116 PRINTED  
ON BACK SIDE OF FORM

**DISTRICT II**  
P.O. DRAWER DD, ARTESIA, NM 88211-0719

**OIL CONSERVATION DIVISION**

**DISTRICT III**  
1000 Rio Brazos Rd, Aztec, NM 87410

TNM-97-04

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

*Initial Report*

**NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS**

OPERATOR Texas-New Mexico Pipe Line Company			ADDRESS P. O. Box 60023, San Angelo, TX 76905			TELEPHONE (915) 947-9000	
REPORT OF	FIRE	BREAK	SPILL	LEAK X	BLOWOUT	OTHER*	
TYPE OF FACILITY	DRUG WELL	PROD WELL	TANK BTRY	PIPE LINE X	GASO PLANT	OIL RFY	OTHER*
FACILITY NAME: 4" gathering line							
LOCATION OF FACILITY Qtr/Qtr Sec. or Footage: SW/4 SW/4 SE/4 SE/4							
DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK: 2 miles west of Lovington							
DATE AND HOUR OF OCCURRENCE: Unknown				DATE AND HOUR OF DISCOVERY: April 16, 1997 4:00 p.m.			
WAS IMMEDIATE NOTICE GIVEN?		YES	NO	NOT REQUIRED X	IF YES, TO WHOM: Wayne Price		
BY WHOM: B. D. Chapman (reported that quantity may be more than 10 barrels)					DATE AND HOUR: April 25, 1997 9:00 a.m.		
TYPE OF FLUID LOST: Sweet Crude			QUANTITY OF LOSS: Unknown (*see note below)		VOLUME RECOVERED: None		
DID ANY FLUIDS REACH A WATERCOURSE?		YES	NO X	QUANTITY			
IF YES, DESCRIBE FULLY**							
DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN** External Corrosion. Leak successfully clamped off.							
DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN** Approximately 1500 sq. ft. pasture land. Will remediate on site. *Originally estimated at 10 barrels. Under investigation. An amended report will be issued when quantity is determined.							
DESCRIPTION OF AREA		FARMING	GRAZING X	URBAN	OTHER*		
SURFACE CONDITION		SANDY	SANDY LOAM	CLAY	ROCKY X	WET	DRY X SNOW
DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC)** 75 degrees, clear							
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF							
SIGNED: <i>[Signature]</i>			PRINTED NAME AND TITLE Edwin H. Gripp, District Manager			DATE: April 25, 1997	

\*SPECIFY State Corp. Commission Pipe Line Division  
Hazardous Waste Section NM Environmental Improvement Div.