

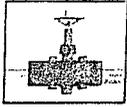
AP -

9

ANNUAL MONITORING REPORT

YEAR(S):

2010



PLAINS
ALL AMERICAN

RECEIVED

March 23, 2011

MAR 29 2011

Mr. Edward Hansen
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

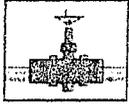
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Plains All American – 2010 Annual Monitoring Reports
20 Sites in Lea County, New Mexico

Dear Mr. Hansen:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

34 Junc. to Lea Sta.	1R-0386 ✓	Section 21, Township 20 South, Range 37 East, Lea County
34 Junction South	1R-0456 ✓	Section 02, Township 17 South, Range 36 East, Lea County
Bob Durham	AP-0016 ✓	Section 32, Township 19 South, Range 37 East, Lea County
Darr Angell #1	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County
Darr Angell #2	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County Section 14, Township 15 South, Range 37 East, Lea County
Darr Angell #4	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County Section 02, Township 15 South, Range 37 East, Lea County
Denton Station	1R-0234 ✓	Section 14, Township 15 South, Range 37 East, Lea County
HDO-90-23	AP-009 ✓	Section 06, Township 20 South, Range 37 East, Lea County
LF-59	1R-0103	Section 32, Township 19 South, Range 37 East, Lea County
Monument 2	1R-0110	Section 06, Township 20 South, Range 37 East, Lea County Section 07, Township 20 South, Range 37 East, Lea County
Monument 10	1R-0119	Section 30, Township 19 South, Range 37 East, Lea County
Monument 17	1R-123	Section 29, Township 19 South, Range 37 East, Lea County
Monument 18	1R-0124	Section 07, Township 20 South, Range 37 East, Lea County
S. Mon. Gath. Sour	1R-951	Section 05, Township 20 South, Range 37 East, Lea County
SPS-11	GW-0140 ✓	Section 18, Township 18 South, Range 36 East, Lea County
Texaco Skelly F	1R-0420	Section 11, Township 21 South, Range 37 East, Lea County
TNM 97-04	GW-0294 ✓	Section 11, Township 16 South, Range 35 East, Lea County
TNM 97-17	AP-017 ✓	Section 21, Township 20 South, Range 37 East, Lea County
TNM 97-18	AP-0013 ✓	Section 28, Township 20 South, Range 37 East, Lea County
TNM 98-05A	AP-12	Section 26, Township 21 South, Range 37 East, Lea County



PLAINS
ALL AMERICAN

Nova Safety and Environmental (Nova) prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed Nova personnel in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

If you have any questions or require further information, please contact me at (575) 441-1099.

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures



**2010
ANNUAL MONITORING REPORT**

HDO-90-23

NE ¼, NW ¼, SECTION 6, TOWNSHIP 20 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: HDO-90-23
NMOCD REFERENCE AP-009

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

March 2011

Ronald K. Rounsaville
Senior Project Manager

Brittan K. Byerly, P.G.
President

TABLE OF CONTENTS

INTRODUCTION	1
SITE DESCRIPTION AND BACKGROUND INFORMATION	1
FIELD ACTIVITIES.....	2
LABORATORY RESULTS.....	3
SUMMARY.....	6
ANTICIPATED ACTIONS	6
LIMITATIONS	6
DISTRIBUTION.....	8

FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – February 8, 2010
2B – Inferred Groundwater Gradient Map – May 11, 2010
2C – Inferred Groundwater Gradient Map – August 10, 2010
2D – Inferred Groundwater Gradient Map – November 9, 2010

Figure 3A – Groundwater Concentration and Inferred PSH Extent Map – February 8, 2010
3B – Groundwater Concentration and Inferred PSH Extent Map – May 11, 2010
3C – Groundwater Concentration and Inferred PSH Extent Map – August 10, 2010
3D – Groundwater Concentrations and Inferred PSH Extent Map – November 9, 2010

TABLES

Table 1 – 2010 Groundwater Elevation Data
Table 2 – 2010 Concentrations of BTEX and TPH in Groundwater
Table 3 – 2010 Concentrations of PAH in Groundwater

APPENDICES

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

ENCLOSED ON DATA DISK

2010 Annual Monitoring Report
2010 Tables 1, 2 and 3 – Groundwater Elevation, BTEX and PAH Concentration Data
2010 Figures 1, 2A-2D, and 3A-3D
Electronic Copies of Laboratory Reports
Historic Table 1 and 2 – Groundwater Elevation, BTEX and PAH 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. The HDO-90-23 Site, which was formally 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 2010 only. However, historic data tables as well as 2010 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 2010 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column 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 site is located in the NE 1/4 of the NW 1/4 of Section 6, Township 20 South, Range 37 East in Lea County. The HDO 90-23 release was discovered by TNM personnel and reported on March 27, 1990. According to the release report, an estimated 750 barrels of crude oil were released and 550 barrels were recovered. The release occurred from a 14-inch Texas-New Mexico Pipeline Company (TNM) pipeline and was attributed to structural failure associated with internal pipeline corrosion. Limited excavation occurred around the release point to repair the pipeline. The Release Notification and Corrective Action (Form C-141) is provided as Appendix A.

In February 1998, nine soil borings were advanced and five monitoring wells were installed by a previous contractor to assess the subsurface conditions. In September 1999, three additional monitor wells were installed. In the fall of 2002, monitor wells MW-9 through MW-15 were installed. In November 2004, NOVA installed two additional monitor wells (MW-16 and MW-17) to further delineate the southeast extent of the dissolved phase plume.

On August 9, 2005, NOVA personnel discovered and documented a leaking produced water pipeline approximately 100 feet north of monitor well MW-3. The leaking pipeline was reported to NMOCD, Hobbs District Office on the same day. The pipeline was identified as a Mar Oil and Gas (MAR) Pipeline. A MAR employee was successful in closing an off site valve to stop the produced water flow. On August 12, 2005, MAR employees began limited excavation surrounding monitor well MW-3, stockpiling the soil on site. Since the activities of August 2005, the excavated soil has been stockpiled on site.

In February 2007, NOVA personnel discovered and documented a crude oil release approximately 500 feet northwest of monitor well MW-15. The release was associated with a production pump jack operated by MAR and to date this release has not been remediated.

On November 12, 2009, NOVA personnel advanced five soil borings in the vicinity of monitor wells MW-6, MW-2 and RW-1 and RW-2 to determine current soil concentration conditions. A report documenting the Soil Investigation Activities was submitted to the NMOCD under separate cover in March 2010.

On June 22, 2010, Plains received approval from the NMOCD for soil closure activities and requested additional assessment activities with the advancement of two soil borings, each in the vicinity of monitor well MW-2 to at least 40 feet below ground surface (bgs), to be conducted in June 2011 and in November 2012.

Currently, thirteen groundwater monitor wells (MW-2 through MW-6, MW-8, MW-9 and MW-12 through MW-17) and two product recovery wells (RW-1 and RW-2) are onsite.

FIELD ACTIVITIES

Product Recovery Efforts

A measurable thickness of PSH was detected in monitor wells MW-2 and MW-6 during all four sampling events of 2010. A maximum PSH thickness of 1.56 feet was recorded in monitor well MW-6 on October 13, 2010 and is shown on Table 1. The average thickness of PSH in wells MW-2 and MW-6 during 2010 was 0.81 feet. Approximately 71 gallons (1.68 barrels) of PSH were recovered from the site during the 2010 reporting period. Approximately 894 gallons (21.3 barrels) of PSH have been recovered through automated and manual recovery methods since project inception.

Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004 and amended by NMOCD correspondence dated June 21, 2005.

NMOCD Approved Sampling Schedule	
MW-1	Plugged and Abandoned
MW-2	Quarterly
MW-3	Quarterly
MW-4	Semi-Annually
MW-5	Semi-Annually
MW-6	Quarterly
MW-7	Plugged and Abandoned
MW-8	Annually
MW-9	Semi-Annually
MW-10	Plugged and Abandoned
MW-11	Plugged and Abandoned
MW-12	Quarterly
MW-13	Quarterly
MW-14	Quarterly
MW-15	Quarterly

MW-16	Annually
MW-17	Quarterly
RW-1	Quarterly
RW-2	Quarterly

The site monitor wells were gauged and sampled on February 8, May 11, August 10, and November 9, 2010. During each sampling event, sampled monitor wells were purged a minimum of 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 collected using disposable Teflon samplers. Water samples were placed 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 at a licensed disposal facility. Locations of the monitor wells and the inferred groundwater gradient, which were constructed utilizing measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D. Groundwater elevation data for 2010 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 wells MW-4 and MW-9. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevation has ranged between 3,418.98 and 3,419.85 feet above mean sea level, in monitor well MW-17 on November 9, 2010 and monitor well MW-2 on July 13, 2010.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2010 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis was not conducted during the 2010 calendar year on monitor wells MW-2 and MW-6 due to the presence of PSH. Based upon historic PAH analytical data, only those wells exhibiting elevated constituent concentrations above WQCC standards are sampled, with the exclusion of those wells containing measurable PSH thicknesses. A listing of BTEX constituent concentrations for 2010 are summarized in Table 2 and the Historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2010 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

Monitor well MW-2 is sampled on a quarterly schedule. Monitor well MW-2 was not sampled during the 1st, 2nd, 3rd and 4th quarters of the reporting period, due to the presence of PSH in the monitor well. PSH thicknesses of 0.02 feet, 0.44 feet, 0.10 feet and 0.07 feet were reported during the 1st, 2nd, 3rd and 4th quarters of 2010, respectively. PAH analysis was not conducted during the 4th quarter sampling event, due to the presence of PSH.

Monitor well MW-3 is sampled on a quarterly schedule. Analytical results indicate BTEX constituent concentrations were below the MDL and NMOC regulatory standards for each BTEX constituent during all four quarters of 2010. The analytical results indicate BTEX

constituent concentrations have been below NMOCD regulatory standards for the last nine consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-4 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 2nd and 4th quarter sampling events. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty-one consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-5 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 2nd and 4th quarter sampling events. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-6 is monitored on a quarterly schedule. Monitor well MW-6 was not sampled during the 1st, 2nd, 3rd and 4th quarters of the reporting period, due to the presence of PSH in the monitor well. PSH thicknesses of 1.39 feet, 1.34 feet, 1.34 feet and 1.23 feet were reported during the 1st, 2nd, 3rd and 4th quarters of 2010, respectively. PAH analysis was not conducted during the 4th quarter sampling event, due to the presence of PSH.

Monitor well MW-8 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty-seven consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-9 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 2nd and 4th quarters of 2010. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty-one consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-12 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of 2010. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty-three consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-13 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of 2010. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-

three consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-14 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 2nd and 4th quarters to 0.0023 mg/L during the 1st quarter of 2010. Benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of 2010. Ethyl-benzene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0082 mg/L during the 1st quarter of 2010. Ethyl-benzene concentrations were below the NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0037 mg/L during the 1st quarter of the reporting period. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-15 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of 2010. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twelve consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-16 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-two consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-17 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of 2010. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-four consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Recovery well RW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.426 mg/L during the 2nd quarter to 0.580 mg/L during the 3rd quarter of 2010. Benzene concentrations were above NMOCD regulatory standards all four quarters of the reporting period. Toluene concentrations ranged from <0.005 mg/L during the 1st and 2nd quarters to 0.0355 mg/L during the 4th quarter of 2010. Toluene concentrations were below the NMOCD regulatory standards during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from <0.001 mg/L during the 3rd quarter to 0.0679 mg/L during the 4th quarter of 2010. Ethyl-benzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 3rd quarter to 0.0966 mg/L during the 4th quarter of 2010. Xylene concentrations were

below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis was not conducted during the 4th quarter sampling event.

Recovery well RW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0560 mg/L during the 2nd quarter to 0.1200 mg/L during the 4th quarter of 2010. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from <0.001 mg/L during the 3rd quarter to 0.0487 mg/L during the 2nd quarter of 2010. Ethyl-benzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 3rd quarter to 0.0572 mg/L during the 2nd quarter of 2010. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis was not conducted during the 4th quarter 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 annual monitoring period of 2010. Currently, there are thirteen groundwater monitor wells (MW-2 through MW-6, MW-8, MW-9 and MW-12 through MW-17) and two recovery wells (RW-1 and RW-2) on-site. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.003 feet/foot to the southeast.

Monitor wells MW-2 and MW-6 contained PSH and was not sampled during the 1st, 2nd, 3rd and 4th quarters of the reporting period. The average thickness of PSH in monitor and recovery wells containing PSH during 2010 was 0.81 feet.

Approximately 71 gallons (1.68 barrels) of PSH were recovered from the site during the 2010 reporting period. Approximately 894 gallons (21.3 barrels) of PSH have been recovered through automated and manual recovery methods since project inception.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2010 monitoring period indicates BTEX constituent concentrations are below NMOCD regulatory standards in eleven of the thirteen monitor wells and two recovery wells.

ANTICIPATED ACTIONS

Quarterly groundwater monitoring, sampling and manual weekly PSH recovery will continue in 2011. An Annual Monitoring Report will be submitted to the NMOCD by April 1, 2012.

Based on the results of the PAH analysis over the past several years, PAH analysis will be conducted only on monitor well MW-2 and MW-6 when free of PSH, which have historically exhibited elevated constituents near or above the WQCC standards.

One soil boring will be advanced in the vicinity of monitor well MW-2 to a depth of at least 40 feet bgs during June or July 2011.

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.

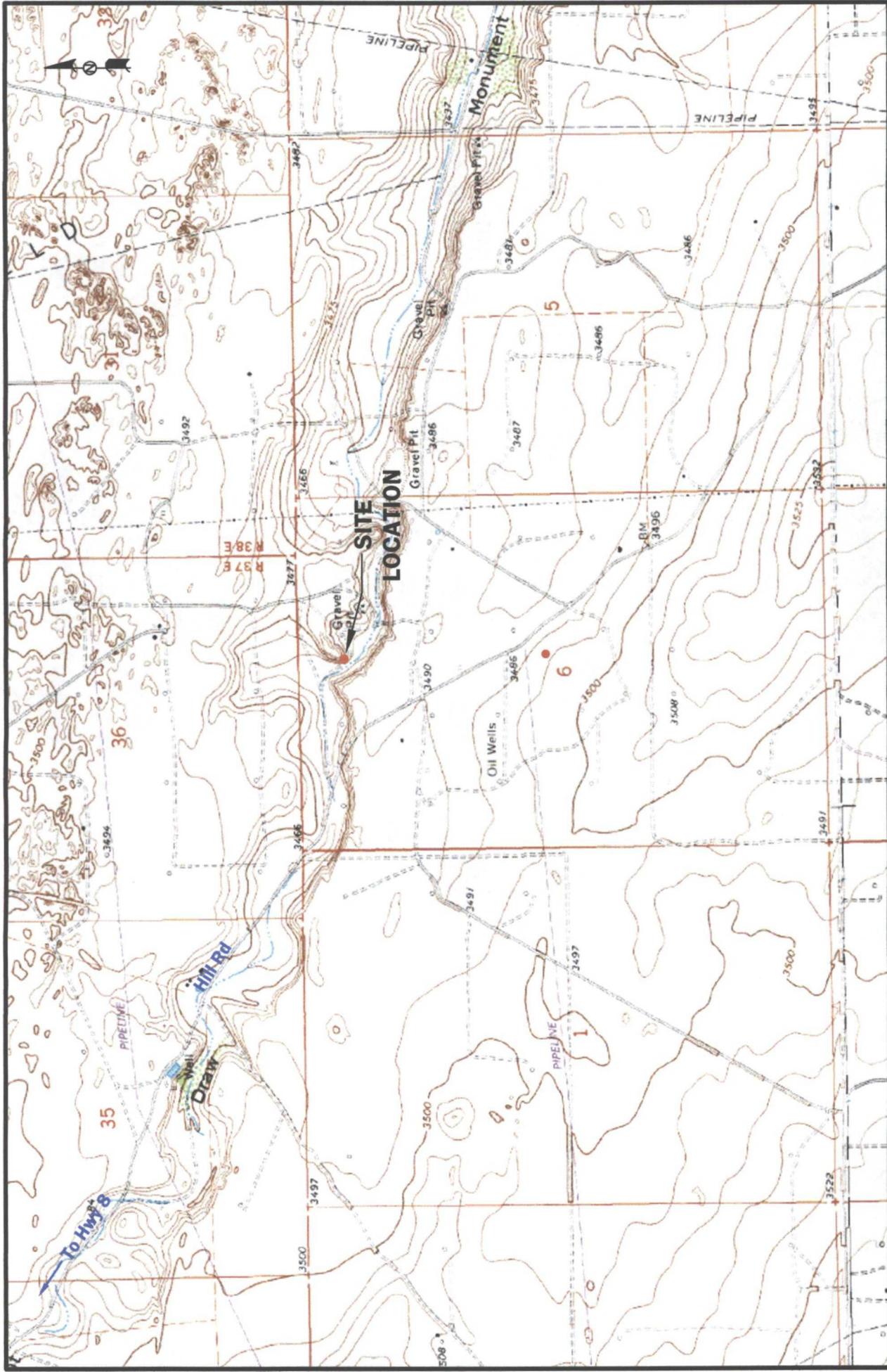
This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

DISTRIBUTION

- Copy 1 Ed Hansen
New Mexico Energy, Minerals and Natural Resources Department
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Santa Fe, NM 87505
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New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 French Drive
Hobbs, NM 88240
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Plains Marketing, L.P.
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Denver City, TX 79323
jhenry@paalp.com
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Houston, TX 77002
jpdann@paalp.com
- Copy 5: NOVA Safety and Environmental
2057 Commerce Street
Midland, TX 79703
rrounsaville@novatraining.cc



Figures



LEGEND:



Distance in Feet

Figure 1
Site Location Map
HDO 90-23
Plains Marketing, L.P.
Lea County, NM

NOVA
 safety and environmental

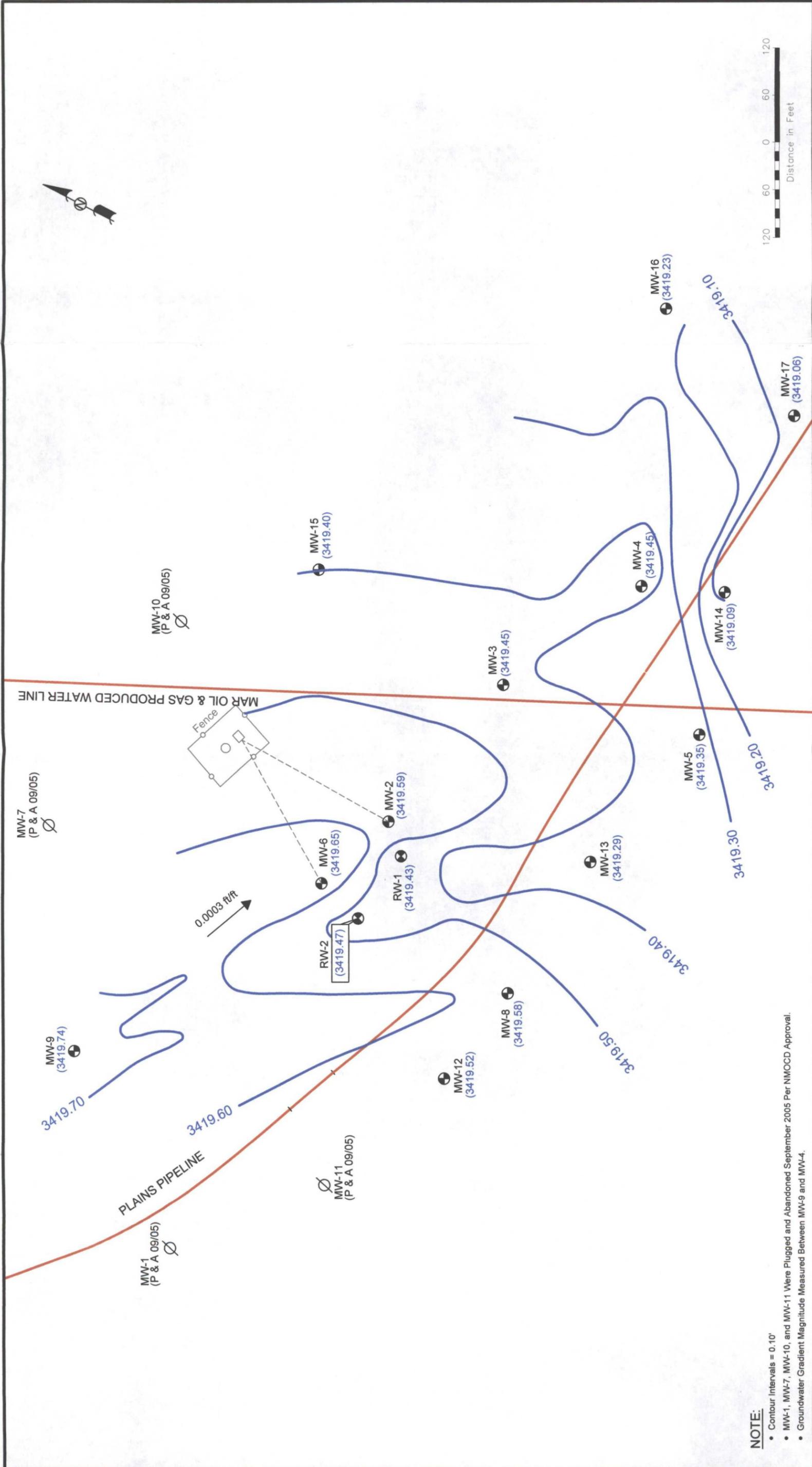
2057 Commerce Drive
 Midland, Texas 79703
 432.520.7720

www.novasafetyandenvironmental.com

February 28, 2011 | Scale: 1" = 2000' | CAD By: TA | Checked By: RKR

LATITUDE & LONGITUDE COORDINATES: N 32° 31' 12.1" W 103° 12' 2.86"

NMOC Reference #AP-009



NOTE:

- Contour Intervals = 0.10'
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.
- Groundwater Gradient Magnitude Measured Between MW-9 and MW-4.

LEGEND:

- Monitor Well Location
- Recovery Well Location
- Pipeline
- Groundwater Elevation Contour
- Groundwater Elevation in feet
- Inferred Groundwater Gradient and Magnitude

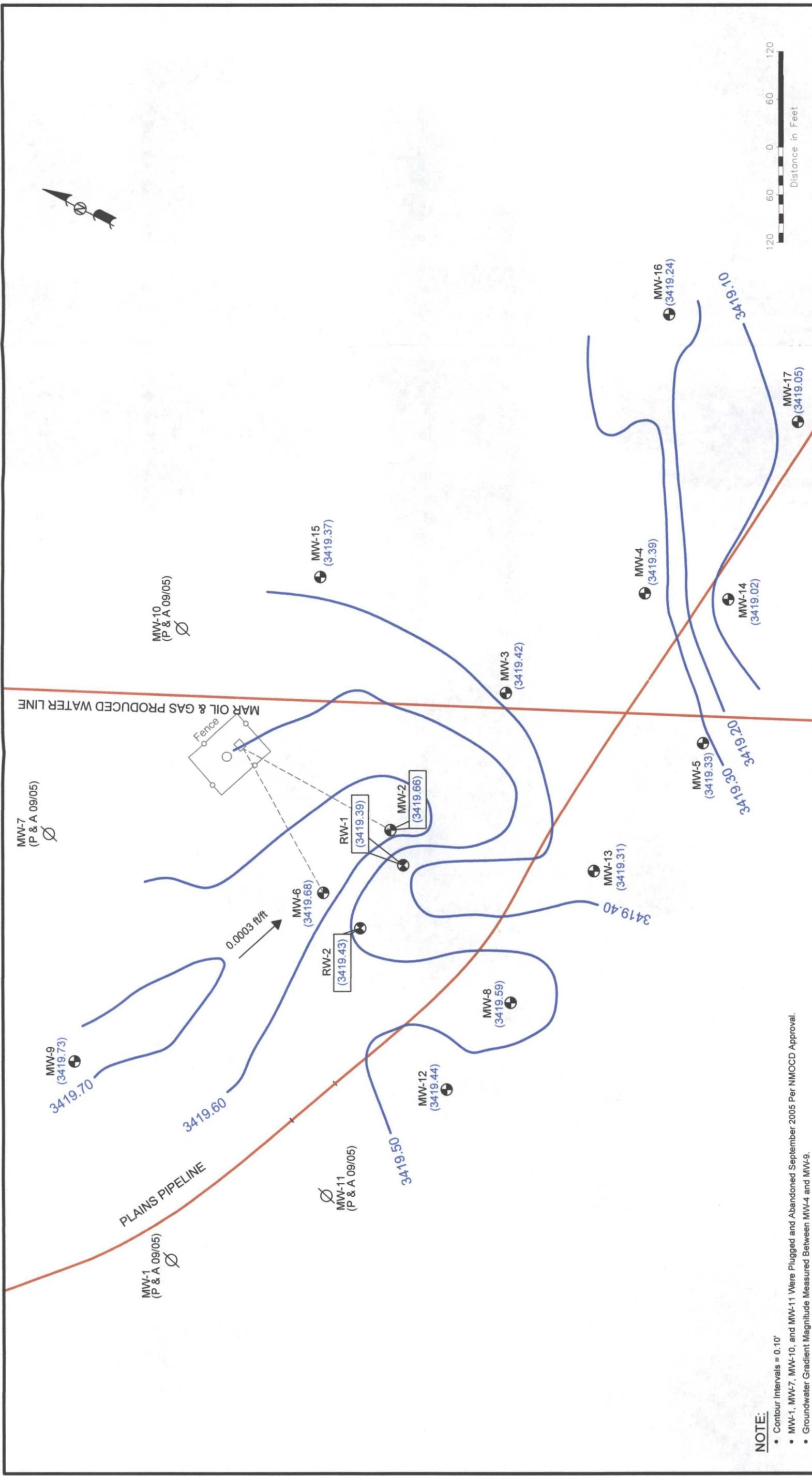
Figure 2A

Inferred Groundwater Gradient Map
(02/08/2010)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 120'	Prep By: SAT	Checked By: RKR
April 15, 2010		



NOTE:

- Contour Intervals = 0.10'
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

LEGEND:

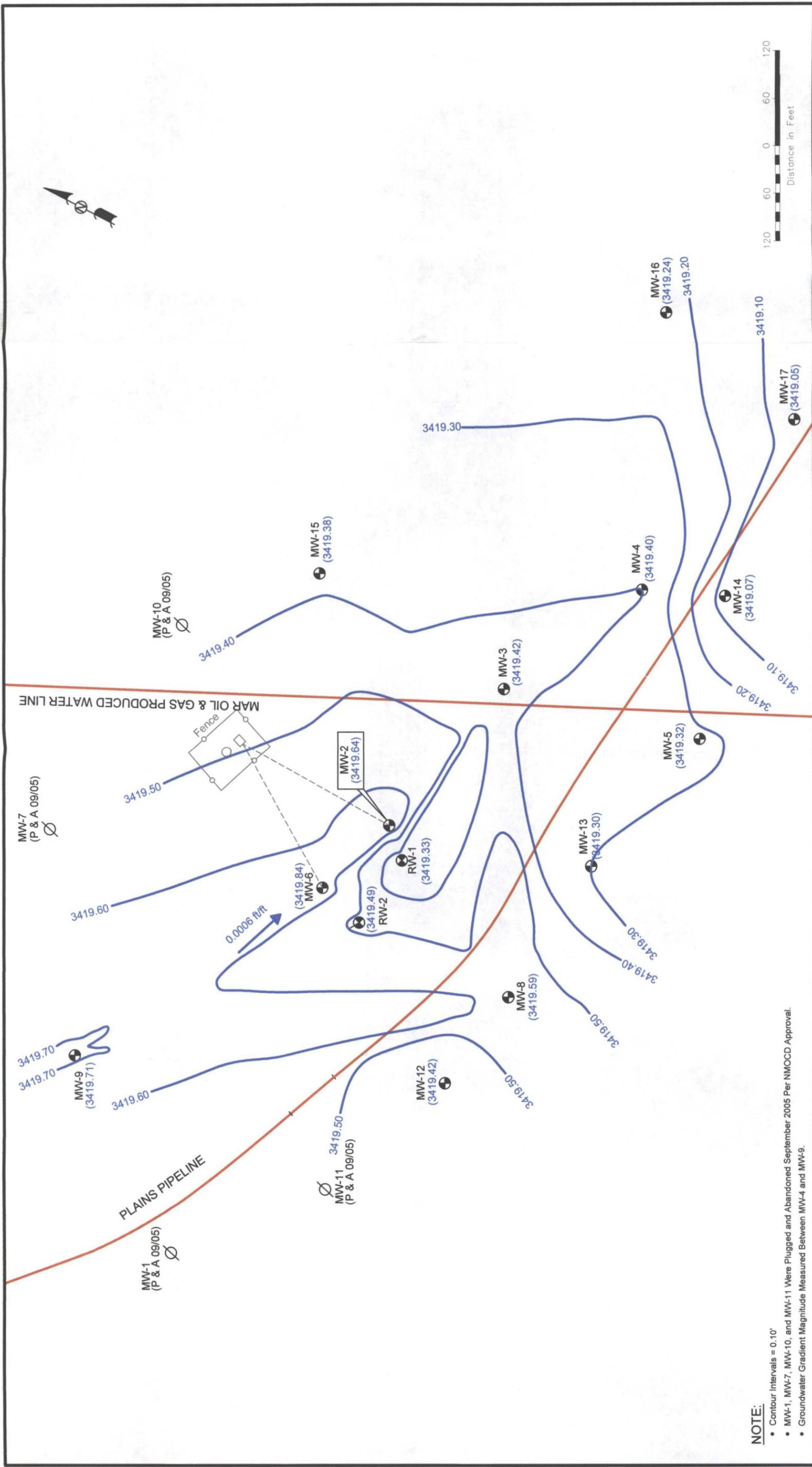
- Monitor Well Location
- Recovery Well Location
- Pipeline
- Groundwater Elevation Contour
- 0.007 ft / ft Inferred Groundwater Gradient and Magnitude
- (3418.72) Groundwater Elevation in feet

Figure 2B
Inferred Groundwater Gradient Map
 (05/10/10) thru (05/11/10)
 Plains Marketing, L.P.
 HDO 90-23
 Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 120'
 Prep By: SAT
 Checked By: RKR
 May 27, 2010



NOTE:

- Contour Intervals = 0.10'
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

LEGEND:

- Monitor Well Location
- Recovery Well Location
- Pipeline
- Groundwater Elevation Contour
- 0.007 ft / ft Inferred Groundwater Gradient and Magnitude
- (3418.72) Groundwater Elevation in feet

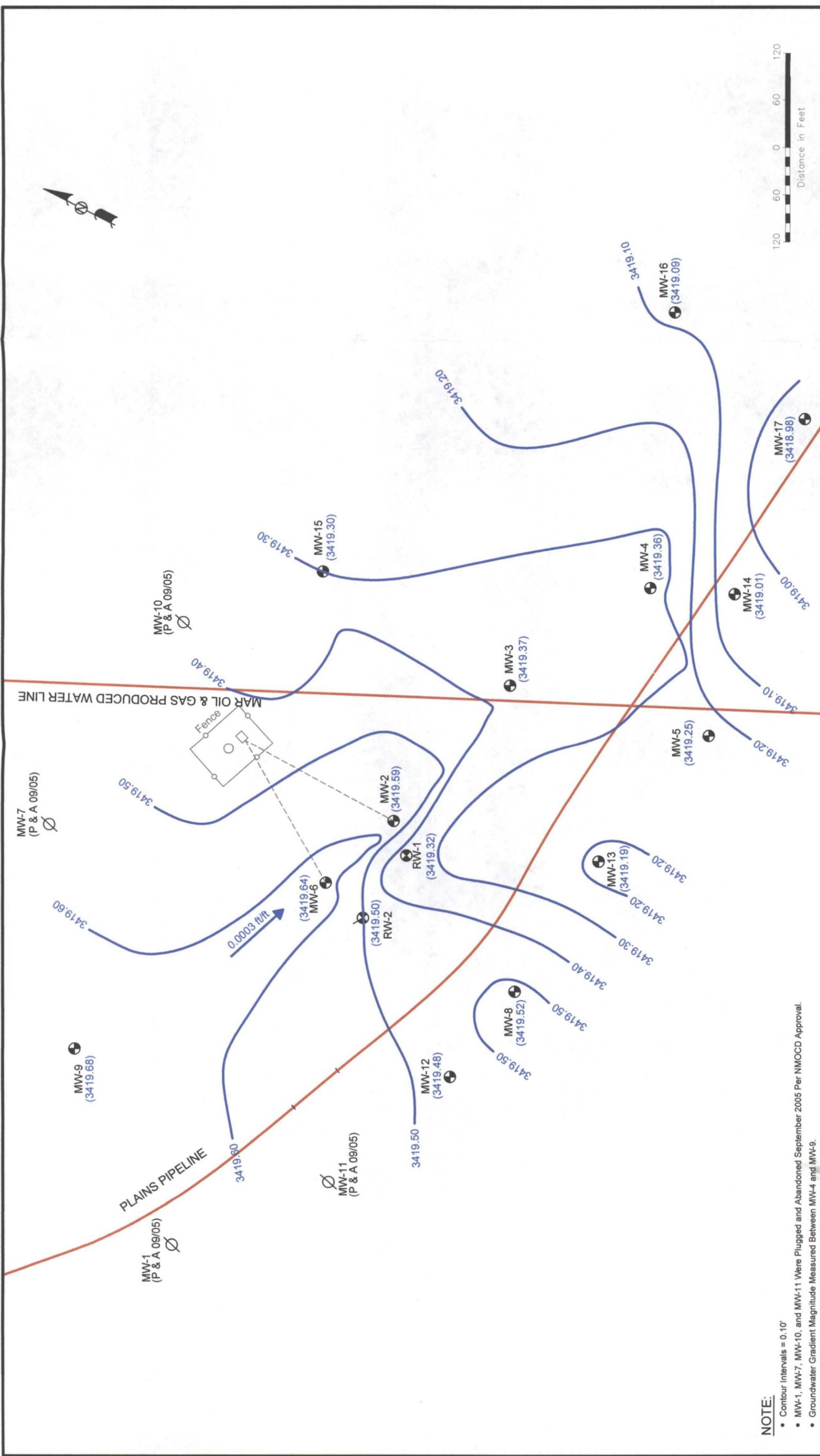
Figure 2C
Inferred Groundwater
Gradient Map

(08/10/10)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 120'	Prep By: TA	Checked By: RKR
September 8, 2010		



NOTE:

- Contour Intervals = 0.10'
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

LEGEND:

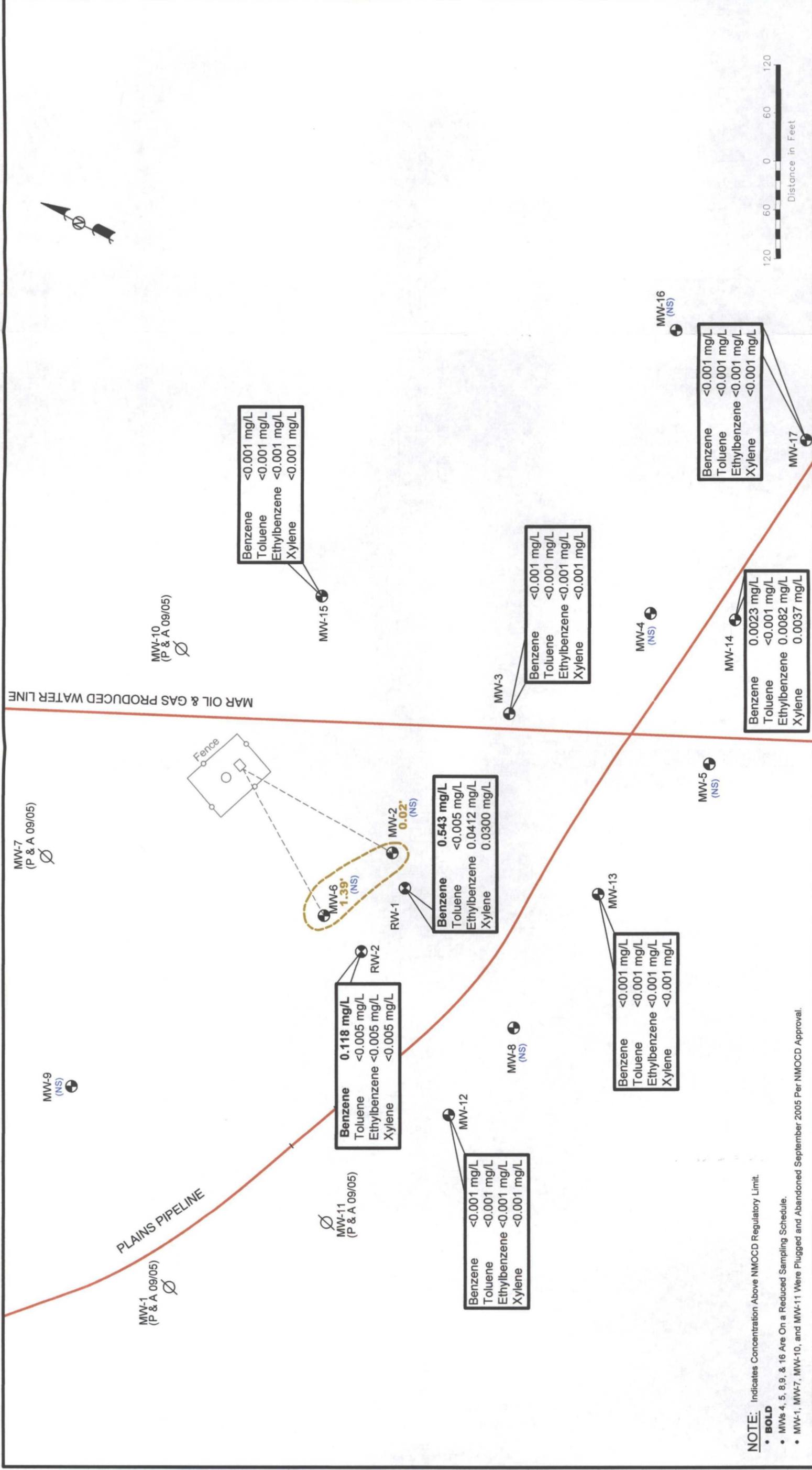
- Monitor Well Location
- Recovery Well Location
- Pipeline
- Groundwater Elevation Contour
- 0.007 ft / ft Inferred Groundwater Gradient and Magnitude
- (3418.72) Groundwater Elevation in feet

Figure 2D
Inferred Groundwater Gradient Map
 (11/9/10)
 Plains Marketing, L.P.
 HDO 90-23
 Lea County, NM

NOVA Safety and Environmental



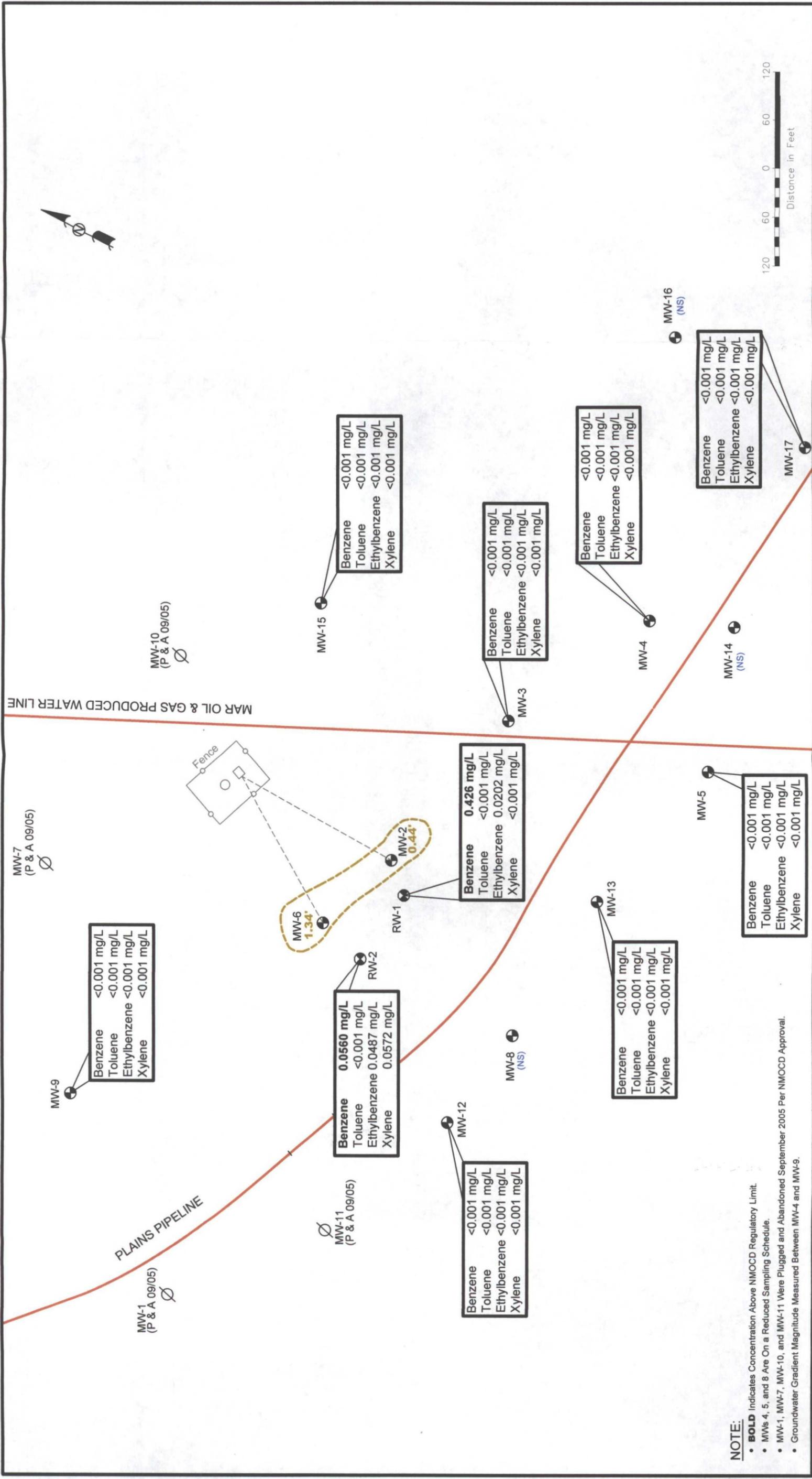
Scale: 1" = 120'
 Prep By: TA
 Checked By: CJB
 December 10, 2010



NOTE: Indicates Concentration Above NMOCCD Regulatory Limit.
BOLD
 • MWs 4, 5, 8, 9, & 16 Are On a Reduced Sampling Schedule.
 • MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCCD Approval.

LEGEND:
 • Monitor Well Location
 • Recovery Well Location
 — Pipeline
 - - - Inferred PSH Extent
 (NS) Not Sampled

Figure 3A
 Groundwater Concentration
 and Inferred PSH Extent Map
 (02/08/2010)
 Plains Marketing, L.P.
 HDO 90-23
 Lea County, NM



NOTE:

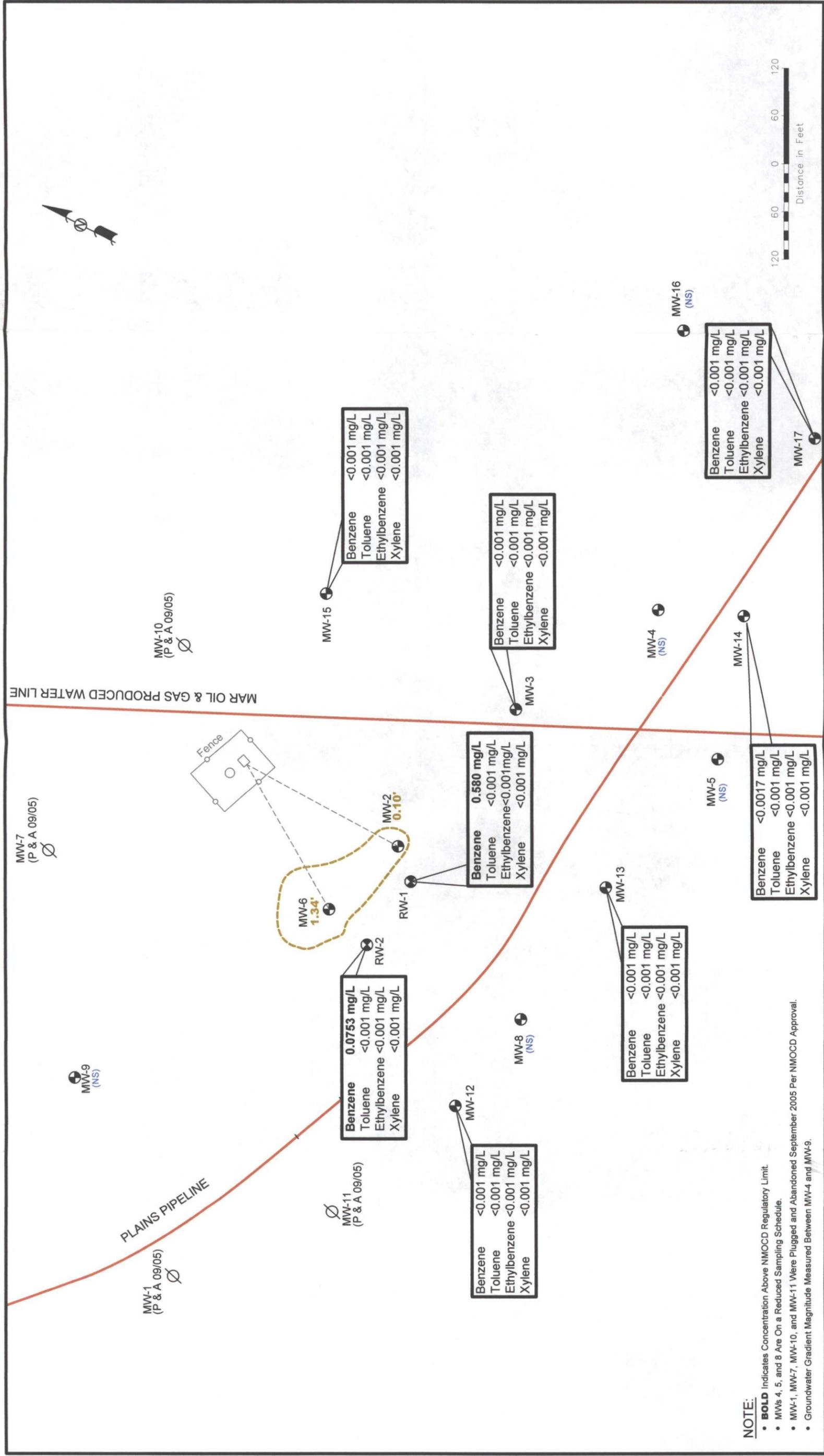
- **BOLD** Indicates Concentration Above NMOCOD Regulatory Limit.
- MWs 4, 5, and 8 Are On a Reduced Sampling Schedule.
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCOD Approval.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

LEGEND:

- Monitor Well Location
- Recovery Well Location
- Pipeline
- - - Inferred PSH Extent
- (NS) Not Sampled

<0.001 Constituent Concentration (mg/L)

Figure 3B
 Groundwater Concentration
 and Inferred PSH Extent Map
 (05/10/10) thru (05/11/10)
 Plains Marketing, L.P.
 HDO 90-23
 Lea County, NM



NOTE:

- **BOLD** Indicates Concentration Above NMOCD Regulatory Limit.
- MWs 4, 5, and 8 Are On a Reduced Sampling Schedule.
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

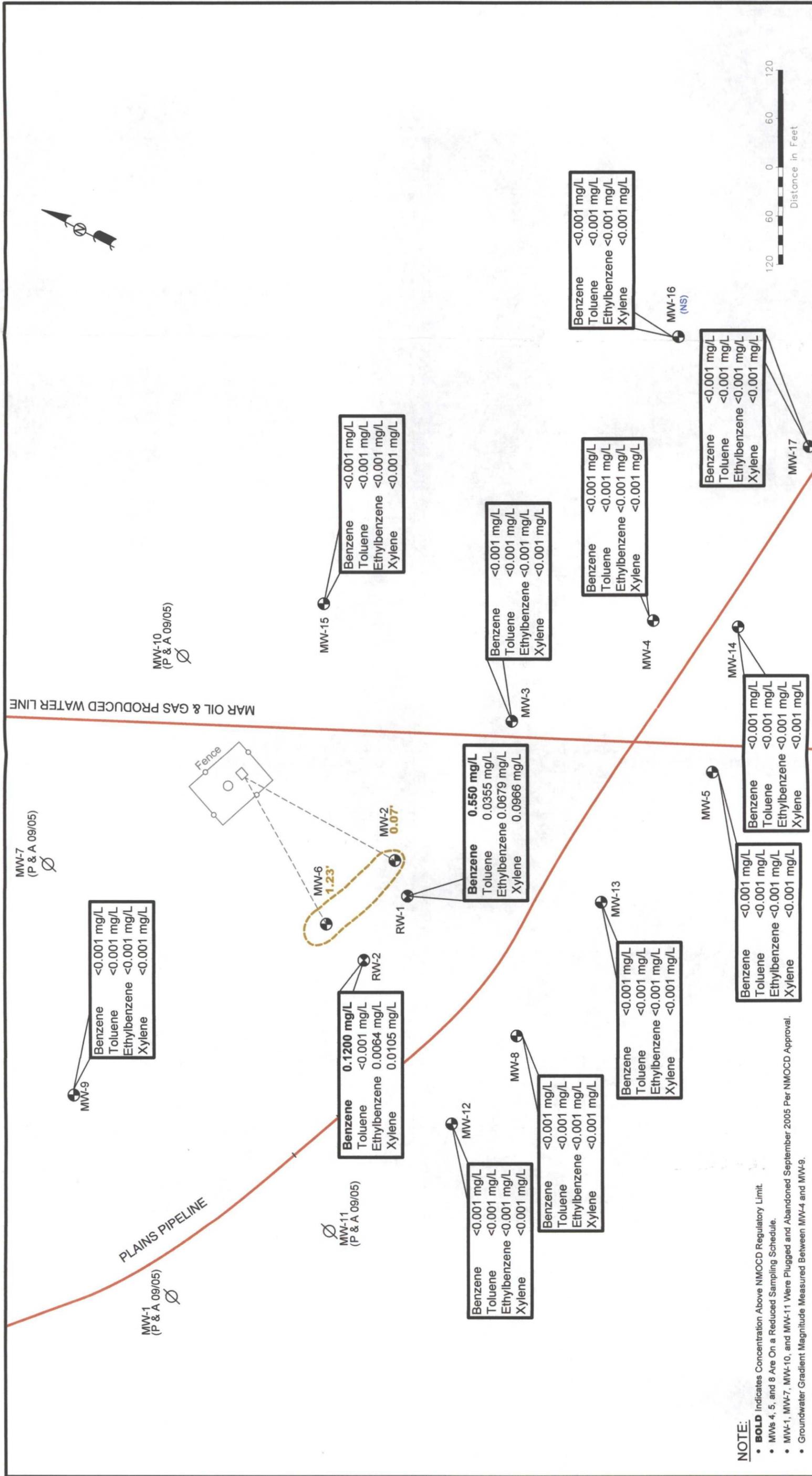
LEGEND:

- Monitor Well Location
- Recovery Well Location
- Pipeline
- - - Inferred PSH Extent
- (NS) Not Sampled

<0.001 Constituent Concentration (mg/L)

Figure 3C
 Groundwater Concentration
 and Inferred PSH Extent Map
 (08/10/10)
 Plains Marketing, L.P.
 HDO 90-23
 Lea County, NM





NOTE:

- **BOLD** Indicates Concentration Above NMOCDD Regulatory Limit
- MWs 4, 5, and 8 Are On a Reduced Sampling Schedule.
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCDD Approval.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

LEGEND:

- Monitor Well Location
- ⊕ Recovery Well Location
- Pipeline
- - - Inferred PSH Extent
- (NS) Not Sampled

NOVA
safety and environmental

Figure 3D
Groundwater Concentration
and Inferred PSH Extent Map
(11/9/10)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

Scale: 1" = 120'
Prep By: TA
Checked By: CJB
December 10, 2010



Tables

TABLE 1

GROUNDWATER ELEVATION DATA - 2010

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOC REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	01/06/10	3,465.44	sheen	45.82	0.00	3,419.62
MW - 2	01/20/10	3,465.44	sheen	45.77	0.00	3,419.67
MW - 2	02/08/10	3,465.44	45.85	45.87	0.02	3,419.59
MW - 2	03/03/10	3,465.44	45.75	45.97	0.22	3,419.66
MW - 2	03/16/10	3,465.44	45.72	45.99	0.27	3,419.68
MW - 2	03/23/10	3,465.44	45.74	45.97	0.23	3,419.67
MW - 2	04/05/10	3,465.44	45.67	45.93	0.26	3,419.73
MW - 2	04/15/10	3,465.44	45.74	46.12	0.38	3,419.64
MW - 2	05/11/10	3,465.44	45.71	46.15	0.44	3,419.66
MW - 2	05/26/10	3,465.44	45.72	46.08	0.36	3,419.67
MW - 2	06/08/10	3,465.44	45.7	46.19	0.49	3,419.67
MW - 2	06/16/10	3,465.44	45.75	46.00	0.25	3,419.65
MW - 2	06/25/10	3,465.44	45.78	45.90	0.12	3,419.64
MW - 2	07/08/10	3,465.44	45.79	46.15	0.36	3,419.60
MW - 2	07/13/10	3,465.44	45.54	45.90	0.36	3,419.85
MW - 2	07/28/10	3,465.44	45.55	46.06	0.51	3,419.81
MW - 2	08/04/10	3,465.44	45.52	46.06	0.54	3,419.84
MW - 2	08/10/10	3,465.44	45.79	45.89	0.10	3,419.64
MW - 2	08/19/10	3,465.44	45.66	46.14	0.48	3,419.71
MW - 2	08/27/10	3,465.44	45.71	45.99	0.28	3,419.69
MW - 2	09/03/10	3,465.44	45.77	45.86	0.09	3,419.66
MW - 2	09/09/10	3,465.44	45.8	45.88	0.08	3,419.63
MW - 2	09/17/10	3,465.44	45.56	46.03	0.47	3,419.81
MW - 2	10/01/10	3,465.44	45.82	45.89	0.07	3,419.61
MW - 2	10/06/10	3,465.44	45.84	45.89	0.05	3,419.59
MW - 2	10/13/10	3,465.44	45.76	46.21	0.45	3,419.61
MW - 2	10/26/10	3,465.44	45.86	45.90	0.04	3,419.57
MW - 2	11/05/10	3,465.44	45.75	46.17	0.42	3,419.63
MW - 2	11/09/10	3,465.44	45.84	45.91	0.07	3,419.59
MW - 2	11/12/10	3,465.44	45.96	46.21	0.25	3,419.44
MW - 2	12/10/10	3,465.44	45.83	46.22	0.39	3,419.55
MW - 2	12/13/10	3,465.44	45.83	45.90	0.07	3,419.60
MW - 3	01/06/10	3,464.68	-	45.21	0.00	3,419.47
MW - 3	02/08/10	3,464.68	-	45.23	0.00	3,419.45
MW - 3	03/03/10	3,464.68	-	45.18	0.00	3,419.50
MW - 3	05/11/10	3,464.68	-	45.26	0.00	3,419.42
MW - 3	08/10/10	3,464.68	-	45.26	0.00	3,419.42
MW - 3	11/09/10	3,464.68	-	45.31	0.00	3,419.37
MW - 4	01/06/10	3,465.76	-	46.31	0.00	3,419.45
MW - 4	02/08/10	3,465.76	-	46.31	0.00	3,419.45
MW - 4	05/11/10	3,465.76	-	46.37	0.00	3,419.39
MW - 4	08/10/10	3,465.76	-	46.36	0.00	3,419.40
MW - 4	11/09/10	3,465.76	-	46.40	0.00	3,419.36

TABLE 1

GROUNDWATER ELEVATION DATA - 2010

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	01/06/10	3,467.40	-	48.05	0.00	3,419.35
MW - 5	02/08/10	3,467.40	-	48.05	0.00	3,419.35
MW - 5	05/11/10	3,467.40	-	48.07	0.00	3,419.33
MW - 5	08/10/10	3,467.40	-	48.08	0.00	3,419.32
MW - 5	11/09/10	3,467.40	-	48.15	0.00	3,419.25
MW - 6	01/06/10	3,465.42	45.54	46.96	1.42	3,419.67
MW - 6	01/20/10	3,465.42	45.50	46.79	1.29	3,419.73
MW - 6	02/08/10	3,465.42	45.56	46.95	1.39	3,419.65
MW - 6	03/03/10	3,465.42	45.53	46.99	1.46	3,419.67
MW - 6	03/16/10	3,465.42	45.51	46.77	1.26	3,419.72
MW - 6	03/23/10	3,465.42	45.58	46.71	1.13	3,419.67
MW - 6	04/05/10	3,465.42	45.46	46.61	1.15	3,419.79
MW - 6	04/15/10	3,465.42	45.57	46.85	1.28	3,419.66
MW - 6	05/11/10	3,465.42	45.54	46.88	1.34	3,419.68
MW - 6	05/26/10	3,465.42	45.50	46.86	1.36	3,419.72
MW - 6	06/08/10	3,465.42	45.49	46.82	1.33	3,419.73
MW - 6	06/16/10	3,465.42	45.53	46.79	1.26	3,419.70
MW - 6	06/25/10	3,465.42	45.59	46.91	1.32	3,419.63
MW - 6	07/08/10	3,465.42	45.55	47.05	1.50	3,419.65
MW - 6	07/13/10	3,465.42	45.55	46.65	1.10	3,419.71
MW - 6	07/28/10	3,465.42	45.45	46.54	1.09	3,419.81
MW - 6	08/04/10	3,465.42	45.46	46.59	1.13	3,419.79
MW - 6	08/10/10	3,465.42	45.58	46.92	1.34	3,419.64
MW - 6	08/19/10	3,465.42	45.49	46.81	1.32	3,419.73
MW - 6	08/27/10	3,465.42	45.51	46.83	1.32	3,419.71
MW - 6	09/03/10	3,465.42	45.55	46.85	1.30	3,419.68
MW - 6	09/09/10	3,465.42	45.59	46.90	1.31	3,419.63
MW - 6	09/17/10	3,465.42	45.47	46.72	1.25	3,419.76
MW - 6	10/01/10	3,465.42	45.58	46.87	1.29	3,419.65
MW - 6	10/06/10	3,465.42	45.59	46.87	1.28	3,419.64
MW - 6	10/13/10	3,465.42	45.54	47.10	1.56	3,419.65
MW - 6	10/26/10	3,465.42	45.61	46.85	1.24	3,419.62
MW - 6	11/05/10	3,465.42	45.51	47.06	1.55	3,419.68
MW - 6	11/09/10	3,465.42	45.60	46.83	1.23	3,419.64
MW - 6	11/12/10	3,465.42	45.48	47.02	1.54	3,419.71
MW - 6	12/10/10	3,465.42	45.55	46.93	1.38	3,419.66
MW - 6	12/13/10	3,465.42	45.62	46.82	1.20	3,419.62
MW - 8	01/06/10	3,467.61	-	48.03	0.00	3,419.58
MW - 8	02/08/10	3,467.61	-	48.03	0.00	3,419.58
MW - 8	05/11/10	3,467.61	-	48.02	0.00	3,419.59
MW - 8	08/10/10	3,467.61	-	48.02	0.00	3,419.59
MW - 8	11/09/10	3,467.61	-	48.09	0.00	3,419.52

TABLE 1

GROUNDWATER ELEVATION DATA - 2010

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOC REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	01/06/10	3,465.74	-	46.00	0.00	3,419.74
MW - 9	02/08/10	3,465.74	-	46.00	0.00	3,419.74
MW - 9	05/11/10	3,465.74	-	46.01	0.00	3,419.73
MW - 9	08/10/10	3,465.74	-	46.03	0.00	3,419.71
MW - 9	11/09/10	3,465.74	-	46.06	0.00	3,419.68
MW - 12	01/06/10	3466.69	-	47.15	0.00	3,419.54
MW - 12	02/08/10	3466.69	-	47.17	0.00	3,419.52
MW - 12	05/11/10	3466.69	-	47.25	0.00	3,419.44
MW - 12	08/10/10	3466.69	-	47.27	0.00	3,419.42
MW - 12	11/09/10	3466.69	-	47.21	0.00	3,419.48
MW - 13	01/06/10	3466.98	-	47.69	0.00	3,419.29
MW - 13	02/08/10	3466.98	-	47.69	0.00	3,419.29
MW - 13	05/11/10	3466.98	-	47.67	0.00	3,419.31
MW - 13	08/10/10	3466.98	-	47.68	0.00	3,419.30
MW - 13	11/09/10	3466.98	-	47.79	0.00	3,419.19
MW - 14	01/06/10	3466.50	-	47.40	0.00	3,419.10
MW - 14	02/08/10	3466.50	-	47.41	0.00	3,419.09
MW - 14	03/03/10	3466.50	-	47.39	0.00	3,419.11
MW - 14	03/23/10	3466.50	-	47.37	0.00	3,419.13
MW - 14	04/15/10	3466.50	-	47.41	0.00	3,419.09
MW - 14	05/11/10	3466.50	-	47.43	0.00	3,419.07
MW - 14	08/10/10	3466.50	-	47.43	0.00	3,419.07
MW - 14	11/09/10	3466.50	-	47.49	0.00	3,419.01
MW - 15	01/06/10	3466.10	-	46.70	0.00	3,419.40
MW - 15	02/08/10	3466.10	-	46.70	0.00	3,419.40
MW - 15	03/03/10	3466.10	-	46.69	0.00	3,419.41
MW - 15	05/11/10	3466.10	-	46.73	0.00	3,419.37
MW - 15	08/10/10	3466.10	-	46.72	0.00	3,419.38
MW - 15	11/09/10	3466.10	-	46.80	0.00	3,419.30
MW - 16	01/06/10	3465.93	-	46.70	0.00	3,419.23
MW - 16	02/08/10	3465.93	-	46.70	0.00	3,419.23
MW - 16	05/11/10	3465.93	-	46.69	0.00	3,419.24
MW - 16	08/10/10	3465.93	-	46.69	0.00	3,419.24
MW - 16	11/09/10	3465.93	-	46.84	0.00	3,419.09
MW - 17	01/06/10	3468.68	-	49.62	0.00	3,419.06
MW - 17	02/08/10	3468.68	-	49.62	0.00	3,419.06
MW - 17	05/11/10	3468.68	-	49.63	0.00	3,419.05
MW - 17	08/10/10	3468.68	-	49.63	0.00	3,419.05
MW - 17	11/09/10	3468.68	-	49.70	0.00	3,418.98

TABLE 1

GROUNDWATER ELEVATION DATA - 2010

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	01/06/10	3465.02	-	45.64	0.00	3,419.38
RW - 1	01/20/10	3465.02	-	45.49	0.00	3,419.53
RW - 1	02/08/10	3465.02	-	45.59	0.00	3,419.43
RW - 1	03/03/10	3465.02	-	45.65	0.00	3,419.37
RW - 1	03/16/10	3465.02	-	45.55	0.00	3,419.47
RW - 1	03/23/10	3465.02	-	45.61	0.00	3,419.41
RW - 1	04/05/10	3465.02	-	45.49	0.00	3,419.53
RW - 1	04/15/10	3465.02	-	45.61	0.00	3,419.41
RW - 1	05/11/10	3465.02	-	45.63	0.00	3,419.39
RW - 1	05/26/10	3465.02	-	45.53	0.00	3,419.49
RW - 1	06/08/10	3465.02	-	45.53	0.00	3,419.49
RW - 1	06/16/10	3465.02	-	45.51	0.00	3,419.51
RW - 1	06/25/10	3465.02	-	45.56	0.00	3,419.46
RW - 1	07/08/10	3465.02	-	45.59	0.00	3,419.43
RW - 1	07/13/10	3465.02	-	45.63	0.00	3,419.39
RW - 1	07/28/10	3465.02	-	45.43	0.00	3,419.59
RW - 1	08/04/10	3465.02	-	45.45	0.00	3,419.57
RW - 1	08/10/10	3465.02	-	45.69	0.00	3,419.33
RW - 1	08/19/10	3465.02	-	45.53	0.00	3,419.49
RW - 1	08/27/10	3465.02	-	45.52	0.00	3,419.50
RW - 1	09/03/10	3465.02	-	45.72	0.00	3,419.30
RW - 1	09/09/10	3465.02	-	45.70	0.00	3,419.32
RW - 1	09/17/10	3465.02	-	45.48	0.00	3,419.54
RW - 1	10/01/10	3465.02	-	45.71	0.00	3,419.31
RW - 1	10/06/10	3465.02	-	45.70	0.00	3,419.32
RW - 1	10/13/10	3465.02	-	45.60	0.00	3,419.42
RW - 1	10/26/10	3465.02	-	45.70	0.00	3,419.32
RW - 1	11/05/10	3465.02	-	45.62	0.00	3,419.40
RW - 1	11/09/10	3465.02	-	45.70	0.00	3,419.32
RW - 1	11/12/10	3465.02	-	45.59	0.00	3,419.43
RW - 1	12/10/10	3465.02	-	45.56	0.00	3,419.46
RW - 1	12/13/10	3465.02	-	45.70	0.00	3,419.32
RW - 2	01/06/10	3465.21	-	45.82	0.00	3419.39
RW - 2	01/20/10	3465.21	-	45.65	0.00	3419.56
RW - 2	02/08/10	3465.21	-	45.74	0.00	3419.47
RW - 2	03/03/10	3465.21	-	45.84	0.00	3419.37
RW - 2	03/16/10	3465.21	-	45.73	0.00	3419.48
RW - 2	03/23/10	3465.21	-	45.76	0.00	3419.45
RW - 2	04/05/10	3465.21	-	45.67	0.00	3419.54
RW - 2	04/15/10	3465.21	-	45.76	0.00	3419.45
RW - 2	05/11/10	3465.21	-	45.78	0.00	3419.43
RW - 2	05/26/10	3465.21	-	45.75	0.00	3419.46
RW - 2	06/08/10	3465.21	-	45.69	0.00	3419.52
RW - 2	06/16/10	3465.21	-	45.67	0.00	3419.54
RW - 2	06/25/10	3465.21	-	45.72	0.00	3419.49
RW - 2	07/08/10	3465.21	-	45.74	0.00	3419.47

TABLE 1

GROUNDWATER ELEVATION DATA - 2010

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 2	07/13/10	3465.21	-	45.37	0.00	3419.84
RW - 2	07/28/10	3465.21	-	45.61	0.00	3419.60
RW - 2	08/04/10	3465.21	-	45.61	0.00	3419.60
RW - 2	08/10/10	3465.21	-	45.72	0.00	3419.49
RW - 2	08/19/10	3465.21	-	45.68	0.00	3419.53
RW - 2	08/27/10	3465.21	-	45.69	0.00	3419.52
RW - 2	09/03/10	3465.21	-	45.56	0.00	3419.65
RW - 2	09/09/10	3465.21	-	45.71	0.00	3419.50
RW - 2	09/17/10	3465.21	-	45.63	0.00	3419.58
RW - 2	10/01/10	3465.21	-	45.73	0.00	3419.48
RW - 2	10/06/10	3465.21	-	45.72	0.00	3419.49
RW - 2	10/13/10	3465.21	-	45.75	0.00	3419.46
RW - 2	10/26/10	3465.21	-	45.71	0.00	3419.50
RW - 2	11/05/10	3465.21	-	45.71	0.00	3419.50
RW - 2	11/09/10	3465.21	-	45.71	0.00	3419.50
RW - 2	11/12/10	3465.21	-	45.76	0.00	3419.45
RW - 2	12/10/10	3465.21	-	45.67	0.00	3419.54
RW - 2	12/13/10	3465.21	-	45.71	0.00	3419.50

* Complete Historical Tables are provided on the attached CD.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM HDO 90-23
LEA COUNTY, NEW MEXICO
NMOCD Reference # AP-009

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.0100	0.75	0.7500	0.620	
MW - 2	02/08/10	Not Sampled due to PSH in Well				
MW - 2	05/11/10	Not Sampled due to PSH in Well				
MW - 2	08/10/10	Not Sampled due to PSH in Well				
MW - 2	11/09/10	Not Sampled due to PSH in Well				
MW - 3	02/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/11/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/10/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/08/10	Not Sampled on Current Sample Schedule				
MW - 4	05/11/10	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/10/10	Not Sampled on Current Sample Schedule				
MW - 4	11/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/08/10	Not Sampled on Current Sample Schedule				
MW - 5	05/11/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/10/10	Not Sampled on Current Sample Schedule				
MW - 5	11/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/08/10	Not Sampled due to PSH in Well				
MW - 6	05/11/10	Not Sampled due to PSH in Well				
MW - 6	08/10/10	Not Sampled due to PSH in Well				
MW - 6	11/09/10	Not Sampled due to PSH in Well				
MW - 8	02/08/10	Not Sampled on Current Sample Schedule				
MW - 8	05/11/10	Not Sampled on Current Sample Schedule				
MW - 8	08/10/10	Not Sampled on Current Sample Schedule				
MW - 8	11/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/08/10	Not Sampled on Current Sample Schedule				
MW - 9	05/11/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/10/10	Not Sampled on Current Sample Schedule				
MW - 9	11/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 12	02/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 12	05/11/10	<0.001	<0.001	<0.001	<0.001	
MW - 12	08/10/10	<0.001	<0.001	<0.001	<0.001	
MW - 12	11/09/10	<0.001	<0.001	<0.001	<0.001	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM HDO 90-23
LEA COUNTY, NEW MEXICO
NMOCD Reference # AP-009

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030					
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	
NMOCD REGULATORY LIMIT		0.0100	0.75	0.7500	0.620		
MW - 13	02/08/10	<0.001	<0.001	<0.001	<0.001		
MW - 13	05/11/10	<0.001	<0.001	<0.001	<0.001		
MW - 13	08/10/10	<0.001	<0.001	<0.001	<0.001		
MW - 13	11/09/10	<0.001	<0.001	<0.001	<0.001		
MW - 14	02/08/10	0.0023	<0.001	0.0082	0.0037		
MW - 14	05/11/10	<0.001	<0.001	<0.001	<0.001		
MW - 14	08/10/10	0.0017	<0.001	<0.001	<0.001		
MW - 14	11/09/10	<0.001	<0.001	<0.001	<0.001		
MW - 15	02/08/10	<0.001	<0.001	<0.001	<0.001		
MW - 15	05/11/10	<0.001	<0.001	<0.001	<0.001		
MW - 15	08/10/10	<0.001	<0.001	<0.001	<0.001		
MW - 15	11/09/10	<0.001	<0.001	<0.001	<0.001		
MW - 16	02/08/10	Not Sampled on Current Sample Schedule					
MW - 16	05/11/10	Not Sampled on Current Sample Schedule					
MW - 16	08/10/10	Not Sampled on Current Sample Schedule					
MW - 16	11/09/10	<0.001	<0.001	<0.001	<0.001		
MW - 17	02/08/10	<0.001	<0.001	<0.001	<0.001		
MW - 17	05/11/10	<0.001	<0.001	<0.001	<0.001		
MW - 17	08/10/10	<0.001	<0.001	<0.001	<0.001		
MW - 17	11/09/10	<0.001	<0.001	<0.001	<0.001		
RW - 1	02/08/10	0.543	<0.005	0.0412	0.03		
RW - 1	05/11/10	0.426	<0.005	0.0202	<0.005		
RW - 1	08/10/10	0.580	<0.001	<0.001	<0.001		
RW - 1	11/09/10	0.550	0.0355	0.0679	0.0966		
RW - 2	02/08/10	0.1180	<0.005	<0.005	<0.005		
RW - 2	05/11/10	0.0560	<0.005	0.0487	0.0572		
RW - 2	08/10/10	0.0753	<0.001	<0.001	<0.001		
RW - 2	11/09/10	0.1200	<0.001	0.0064	0.0105		

* Complete Historical Tables are provided on the attached CD.

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
 TNM HDO-90-23
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER AP-009

All water concentrations are reported in mg/L
 EPA SW846-8270C.3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benz[a]pyrene	Benz[b]fluoranthene	Benz[ghi]perylene	Benz[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran	
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.	MW-12	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.0003 mg/L	0.0003 mg/L	--	0.0004 mg/L	--	--	0.03 mg/L	0.03 mg/L	0.03 mg/L	--	
		<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
	MW-13	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
	MW-14	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000703	<0.000183	0.000874	<0.000183	0.00465	<0.000183	0.06638	0.0141	0.00647	0.00458
MW-15	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183		
MW-16	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183		
MW-17	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183		

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM HDO-90-23

LEA COUNTY, NEW MEXICO

NMOC D REFERENCE NUMBER AP-009

All water concentrations are reported in mg/L.

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benz[a]pyrene	Benz[b]fluoranthene	Benz[e,h,i]perylene	Benz[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran	
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.	11/06/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000549	<0.000184	0.0187	0.0136	0.0106	0.00117	
	11/16/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.00607	0.00394	0.00125	0.000618	
	11/09/10	Not Sampled as part of Quarterly Monitoring Event.																		
RW-2	11/06/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000774	<0.000185	<0.000185	
	11/16/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
	11/09/10	Not Sampled as part of Quarterly Monitoring Event.																		



Appendices



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

OIL CONSERVATION DIVISION

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

NAME OF OPERATOR				ADDRESS			
TEXAS-NEW MEXICO PIPE LINE CO.				P. O. Box 2528, Hobbs, N.M. 88240			
REPORT OF	FIRE	BREAK	SPILL	LEAK	BLOWOUT	OTHER*	
				X			
TYPE OF FACILITY	DRUG WELL	PROD WELL	TANK PTY	PIPE LINE	GASO PLNT	GIL RFY	OTHER*
				X			
NAME OF FACILITY 14" Trunk Line							
LOCATION OR FACILITY (QUARTER/QUARTER SECTION OR FOOTAGE DESCRIPTION)				SEC.	TWP.	RGE.	COUNTY
NW/4 NE/4				6	21	37	Lea
DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK							
6 Mi. NNW of Eunice & 3 Mi. N.W. of Loop 18							
DATE AND HOUR OF OCCURRENCE				DATE AND HOUR OF DISCOVERY			
Unknown				3/27/90 2:15 P.M.			
WAS IMMEDIATE NOTICE GIVEN?				IF YES, NMOCC TO WHOM			
YES X NO				SCC - B. Pritchard SCC - D. Trujillo			
NOT REQUIRED							
BY WHOM				DATE AND HOUR			
NMOCC - M. Criswell SCC - G. Johnson				3/27/90: NMOCC - 3:35 P.M. 3/28/90: SCC - 9:05 A.M.			
TYPE OF FLUID LOST				QUANTITY OF LOSS		VOLUME RECOVERED	
Sour Crude				750 BBLs		550 BBLs	
DID ANY FLUIDS REACH A WATERCOURSE?				QUANTITY			
YES NO X							
IF YES, DESCRIBE FULLY**							
DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN**							
External Corrosion Line clamped off							
DESCRIBE AREA AFFECTED AND CLEARUP ACTION TAKEN**							
45,000 sq ft pasture land; 40,000 sq ft equipment damage. Cattle in the area Oil soaked earth covered with fresh soil in prospects of full restoration							
DESCRIPTION OF AREA		FARMING	GRAZING	URBAN	OTHER*		
			X				
SURFACE CONDITIONS		SANDY	SANDY LOAM	CLAY	ROCKY	WET	DRY
			X			X	
DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC)**							
55°							
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF							
SIGNED		B.L. Lechnicky TITLE Dist. Manager				DATE 3/28/90	

*SPECIFY

**ATTACH ADDITIONAL SHEETS IF NECESSARY

HDO 90-23

cc: Hazardous Waste Section
N.M. Environmental Improvement Div.

90-063530