

1R - 420

**Annual GW Mon.  
REPORTS**

**DATE:**

2009



2009  
ANNUAL MONITORING REPORT

RECEIVED  
FEB 16 2010  
Environmental Bureau  
Oil Conservation Division

**TEXACO SKELLY F**  
SW ¼ NW ¼ SECTION 21, TOWNSHIP 20 SOUTH, RANGE 37 EAST  
LEA COUNTY, NEW MEXICO  
PLAINS SRS NUMBER: 2002-11229  
NMOCD Reference Number 1R-0420

Prepared For:

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

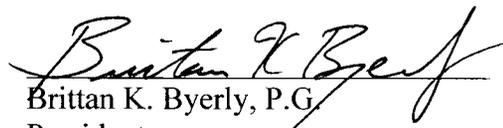


Prepared By:

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

February 2010

  
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 .....	1
LABORATORY RESULTS .....	2
SUMMARY .....	5
ANTICIPATED ACTIONS .....	6
LIMITATIONS .....	6
DISTRIBUTION.....	8

### FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – February 4, 2009

2B – Inferred Groundwater Gradient Map – May 7, 2009

2C – Inferred Groundwater Gradient Map – August 4, 2009

2D – Inferred Groundwater Gradient Map – November 3, 2009

Figure 3A – Groundwater Concentration and Inferred PSH Extent Map – February 4, 2009

3B – Groundwater Concentration and Inferred PSH Extent Map – May 7, 2009

3C – Groundwater Concentration and Inferred PSH Extent Map – August 4, 2009

3D – Groundwater Concentrations and Inferred PSH Extent Map – November 3, 2009

### TABLES

Table 1 – 2009 Groundwater Elevation Data

Table 2 – 2009 Concentrations of BTEX and TPH in Groundwater

Table 2 – 2009 Concentrations of PAH in Groundwater

### APPENDICES

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

### ENCLOSED ON DATA DISK

2009 Annual Monitoring Report

2009 Tables 1, 2 and 3 – Groundwater Elevation, BTEX, TPH and PAH Concentration Data

2009 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

Historic Table 1 and 2 – Groundwater Elevation and BTEX, TPH, PAH Concentration Tables

Historic Table 1 and 2 – Groundwater Elevation and BTEX, TPH, 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 for the Texaco Skelly F Site (the site) were assumed by NOVA. The site, which was formerly the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2009 only. However, historic data tables as well as 2009 laboratory analytical reports are presented on the enclosed data disk. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2009 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 sampled as per a NMOCD directive.

## **SITE DESCRIPTION AND BACKGROUND INFORMATION**

The legal description of the site is SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  Section 21, Township 20 South, Range 37 East. The release was discovered by the Texas-New Mexico Pipeline Company (TNM) on the four-inch crude oil transportation line. No information is currently available documenting the discovery date, release volume or nature of the pipeline failure. The Release Notification and Corrective Action Form (C-141) is provided as Appendix B. A Geoprobe<sup>®</sup> Rig was utilized during the initial site investigation to delineate crude oil impacted soil. Laboratory analysis of soil samples collected during this initial stage of the investigation indicates that subsurface soil impacted by the crude oil release were limited to areas at and below the surface staining.

Nine groundwater monitor wells (MW-1 through MW-9) and two product recovery wells (RW-1 and RW-2) are currently onsite. Manual product recovery is being conducted weekly from recovery wells RW-1 and RW-2 and monitor wells MW-7 (when present) and MW-8.

## **FIELD ACTIVITIES**

### **Product Recovery Efforts**

A measurable thickness of PSH was detected in monitor wells MW-7 and MW-8 and recovery wells RW-1 and RW-2 throughout the reporting period. A maximum thickness of 3.06 feet of PSH was detected in recovery well RW-2 on June 4, 2009. The average thickness of PSH exhibited in wells MW-7, MW-8, RW-1 and RW-2 was 0.49 feet. Groundwater Elevation data is provided as Table 1. Approximately 225 gallons (approximately 5.4 barrels) of PSH was recovered from the site during the 2009 reporting period. Approximately 1,372 gallons (approximately 32.7 barrels) of PSH has been recovered since project inception. To maximize product recovery efforts, Plains installed a solar recovery system during the 3<sup>rd</sup> quarter of 2009 which utilizes two total fluid pumps powered by two 12 volt solar panels and a 12 volt wind

turbine installed in recovery wells RW-1 and RW-2. The pumps operate on a cycle of approximately 3 minutes every 3 hours at an average pumping rate of approximately 2 gallons per minute. During the 3<sup>rd</sup> and 4<sup>th</sup> quarters of the reporting period, the recovery system averages approximately 15 gallons per month.

**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 22, 2005.

<b>NMOCD Approved Sampling Schedule</b>	
MW-1	Annually
MW-2	Annually
MW-3	Annually
MW-4	Quarterly
MW-5	Annually
MW-6	Annually
MW-7	Quarterly
MW-8	Quarterly
MW-9	Quarterly
RW-1	Quarterly
RW-2	Quarterly

The site monitor wells and recovery wells were gauged and sampled on February 4, May 7, August 4, and November 3, 2009. During each sampling event, sampled monitor wells were purged of a minimum of three well volumes of water or until the wells failed to produce water using a PVC bailer or electric 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. Pursuant to the request of the NMOCD, groundwater samples were collected from RW-1, RW-2 and MW-8 after PSH was bailed from the wells. 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 from measurements collected during the four quarterly events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2009 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 south as measured between groundwater monitor wells MW-1 and MW-7. This is consistent with data presented on Figures 2A through 2C from earlier in the year. Corrected groundwater elevations ranged between 3,491.45 and 3,494.73 feet above mean sea level, in monitor well MW-2 on August 4, 2009 and monitor well MW-1 on May 7, 2009, respectively.

**LABORATORY RESULTS**

Groundwater samples obtained during the quarterly sampling events of 2009 were delivered to TraceAnalysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and

Xylene (BTEX) constituent concentrations by EPA Method 8021B, and Polynuclear Aromatic Hydrocarbons (PAH) concentrations by EPA Method 8270C. Monitoring wells containing measurable amounts of PSH were analyzed for Total Petroleum Hydrocarbons (TPH) concentrations by EPA Method 8015M. A listing of BTEX and TPH constituent concentrations for 2009 are summarized in Table 2 and the PAH constituent concentrations for 2009 are summarized in Table 3. Copies of the laboratory reports generated for 2009 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-1** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below laboratory method detection limits (MDL) and NMOCD regulatory standards of 0.01 mg/L for benzene, 0.75 mg/L for toluene, 0.75 mg/L for ethylbenzene and 0.62 for xylene, during the 4<sup>th</sup> quarter sampling event. Monitor well MW-1 has exhibited 14 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-2** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards. Monitor well MW-2 has exhibited 14 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-3** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards. Monitor well MW-3 has exhibited 14 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-4** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0150 mg/L during the 1<sup>st</sup> quarter to 0.0601 mg/L during the 3<sup>rd</sup> quarter of 2009. 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. Ethylbenzene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 4<sup>th</sup> quarter to 0.0157 mg/L during the 3<sup>rd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above MDLs for 1-methylnaphthalene (0.00168 mg/L), and dibenzofuran (0.000677 mg/L), which are below WQCC standards.

**Monitor well MW-5** 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 4<sup>th</sup> quarter sampling event. Monitor well MW-5 has exhibited 14 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-6** 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 4<sup>th</sup> quarter sampling event. Monitor well MW-6 has exhibited 16 consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Monitor well MW-7** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0336 mg/L during the 4<sup>th</sup> quarter to 0.108 mg/L during the 1<sup>st</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 1<sup>st</sup> and 2<sup>nd</sup> quarters to 0.008 mg/L during the 4<sup>th</sup> quarter of 2009. Toluene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.001 mg/L during the 2<sup>nd</sup> quarter to 0.0215 mg/L during the 3<sup>rd</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 2<sup>nd</sup> quarter to 0.0412 mg/L during the 4<sup>th</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Laboratory analysis for PAH indicated during the 4<sup>th</sup> quarter sampling event elevated concentrations above MDLs for naphthalene (0.00121 mg/L), 1-methylnaphthalene (0.00375 mg/L), 2-methylnaphthalene (0.00189 mg/L), dibenzofuran (0.00119 mg/L), fluorine (0.000656 mg/L), and phenanthrene (0.000668 mg/L), which are below WQCC standards.

**Monitor well MW-8** is sampled/monitored on a quarterly schedule. Monitor well MW-8 was not sampled during the 1<sup>st</sup> or 3<sup>rd</sup> quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 0.11 feet and 0.39 feet were reported during the 1<sup>st</sup> and 3<sup>rd</sup> quarters of 2009, respectively. Benzene concentrations ranged from <0.001 mg/L during the 2<sup>nd</sup> quarter to 0.0146 mg/L during the 4<sup>th</sup> quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 2<sup>nd</sup> quarter to 0.0667 mg/L during the 4<sup>th</sup> quarter of 2009. Toluene concentrations were below NMOCD regulatory standards during the 2<sup>nd</sup> and 4<sup>th</sup> quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0034 mg/L during the 2<sup>nd</sup> quarter to 0.0551 mg/L during the 4<sup>th</sup> quarter of 2009. Ethylbenzene concentrations were below NMOCD regulatory standards during the 2<sup>nd</sup> and 4<sup>th</sup> quarters of the reporting period. Xylene concentrations ranged from 0.0097 mg/L during the 2<sup>nd</sup> quarter to 0.1340 mg/L during the 4<sup>th</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during the 2<sup>nd</sup> and 4<sup>th</sup> quarters of the reporting period. Analytical results indicated a total TPH result of 27.05 mg/L. Laboratory analysis for PAH indicated during the 4<sup>th</sup> quarter sampling event elevated concentrations above MDLs for naphthalene (0.00327 mg/L), 1-methylnaphthalene (0.0104 mg/L), 2-methylnaphthalene (0.00847 mg/L), dibenzofuran (0.00117 mg/L), and phenanthrene (0.00179 mg/L), which are below WQCC standards.

**Monitor well MW-9** is sampled on a quarterly schedule. Analytical results indicate total xylenes concentration ranged from 0.0046 mg/L during the 1<sup>st</sup> quarter to 0.0074 mg/L during the 2<sup>nd</sup> quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during the all four quarters of the reporting period. Analytical results indicate BTEX constituent concentrations were below the MDL and/or NMOCD regulatory standards during all four

quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

**Recovery well RW-1** is monitored on a quarterly schedule. Recovery well RW-1 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 0.30 feet, 0.21 feet and 0.19 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2009, respectively. Benzene concentrations were above the NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.0381 mg/L. Toluene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.0508 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.0971 mg/L. Xylene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.2010 mg/L. Analytical results indicated a total TPH result of 104.16 mg/L. Laboratory analysis for PAH during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards of 1-methylnaphthalene (0.0645 mg/L) and 2-methylnaphthalene (0.0527 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0150 mg/L), fluorene (0.00785 mg/L), phenanthrene (0.0119 mg/L) and dibenzofuran (0.00735 mg/L), which are below WQCC standards.

**Recovery well RW-2** is monitored on a quarterly schedule. Recovery well RW-2 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 0.37 feet, 0.28 feet and 0.31 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2009, respectively. Benzene concentrations were above the NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.059 mg/L. Toluene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.248 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.200 mg/L. Xylene concentrations were below NMOCD regulatory standards during the 4<sup>th</sup> quarter of the reporting period with a concentration of 0.319 mg/L. Analytical results indicated a total TPH result of 55.44 mg/L. Laboratory analysis for PAH during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards of 1-methylnaphthalene (0.0736 mg/L) and 2-methylnaphthalene (0.0675 mg/L). Additional PAH constituents detected above MDLs include naphthalene (0.0242 mg/L), phenanthrene (0.0114 mg/L) and dibenzofuran (0.00792 mg/L), which are below WQCC standards.

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 2009 annual monitoring period. Nine groundwater monitor wells (MW-1 through MW-9) and two recovery wells (RW-1 and RW-2) are currently onsite. Manual product recovery is conducted twice weekly from monitor well MW-7 and MW-8. A solar powered recovery system is operational for recovery wells RW-

1 and RW-2. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.003 feet/foot to the south.

Monitor wells MW-7 and MW-8 and recovery wells RW-1 and RW-2 contained measurable PSH throughout the reporting period and were not sampled during the first three sampling events. Approximately 225 gallons (approximately 5.4 barrels) of PSH was recovered from the site during the 2009 reporting period. Approximately 1,372 gallons (approximately 32.7 barrels) of PSH has been recovered since project inception.

Review of the laboratory analytical results of the groundwater samples obtained during this annual reporting period indicate BTEX constituent concentrations were below the applicable NMOCD regulatory standards in six of the eleven monitor and recovery wells on site. Monitor well MW-7 exhibited measurable PSH during at least one quarter of the reporting period. MW-8 exhibited measurable PSH during at least three quarters of 2009 and recovery wells RW-1 and RW-2 consistently exhibited measurable thicknesses of PSH during gauging events. Dissolved phase and phase separated hydrocarbon impact appears to be limited to monitor wells MW-4, MW-7 and MW-8 and recovery wells RW-1 and RW-2. Groundwater samples from monitor well MW-8 and recovery wells RW-1 and RW-2 exhibited elevated TPH concentrations for GRO and DRO. Analytical results on groundwater samples collected indicate PAH concentrations are demonstrating a decreasing trend in eight monitor wells (MW-1 through MW-6, MW-8 and MW-9), a fluctuating trend in two wells (MW-7 and RW-1) and a slight increasing trend in one monitor well (RW-2) at the site.

### **ANTICIPATED ACTIONS**

Quarterly monitoring, PSH recovery (as necessary) and groundwater sampling will continue in 2009. Manual product recovery, along with the solar recovery system, and gauging will be conducted on a weekly schedule and will be adjusted according to site conditions. An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2010.

Based on the results of the PAH analysis over the past several years, NOVA recommends that further PAH analysis be conducted only on those monitor and recovery wells (MW-7, MW-8 and MW-9 and RW-1 and RW-2) which have historically exhibited elevated constituents near or above the WQCC standards.

A Soil Closure Proposal intending to address the remaining soil issues at the site was submitted to the NMOCD in April, 2009. To date, Plains has not received a reply from the NMOCD on this proposal.

### **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  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Copy 2:     Larry Johnson  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division, District 1  
1625 French Drive  
Hobbs, NM 88240

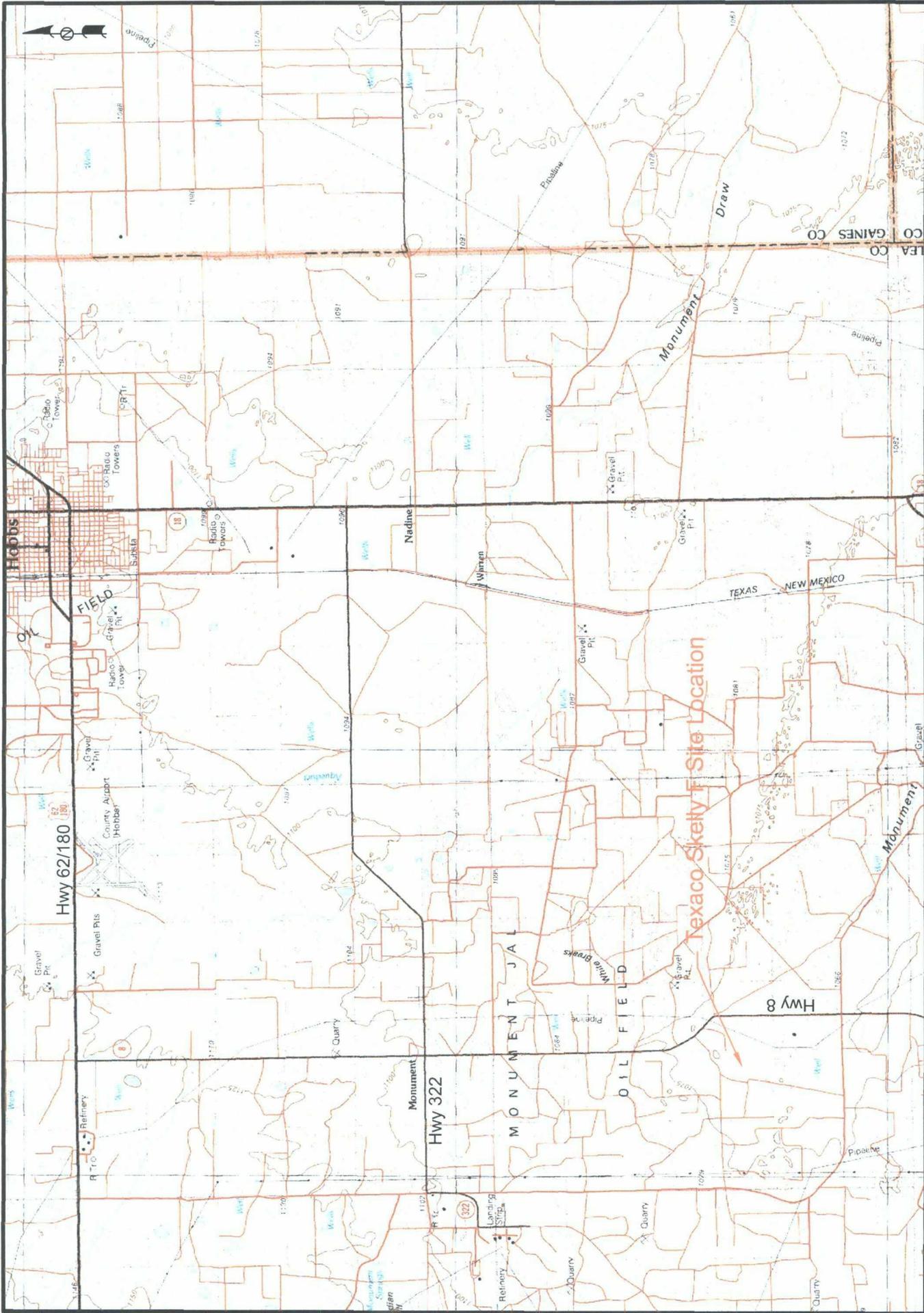
Copy 3:     Jason Henry  
Plains Marketing, L.P.  
2530 State Highway 214  
Denver City, TX 79323  
jhenry@paalp.com

Copy 4:     Jeff Dann  
Plains Marketing, L.P.  
333 Clay Street  
Suite 1600  
Houston, TX 77002  
jpdann@paalp.com

Copy 5:     NOVA Safety and Environmental  
2057 Commerce Street  
Midland, TX 79703  
rrounsaville@novatraining.cc



# Figures



SW1/4 NW1/4 Section 21, T20S, R37E



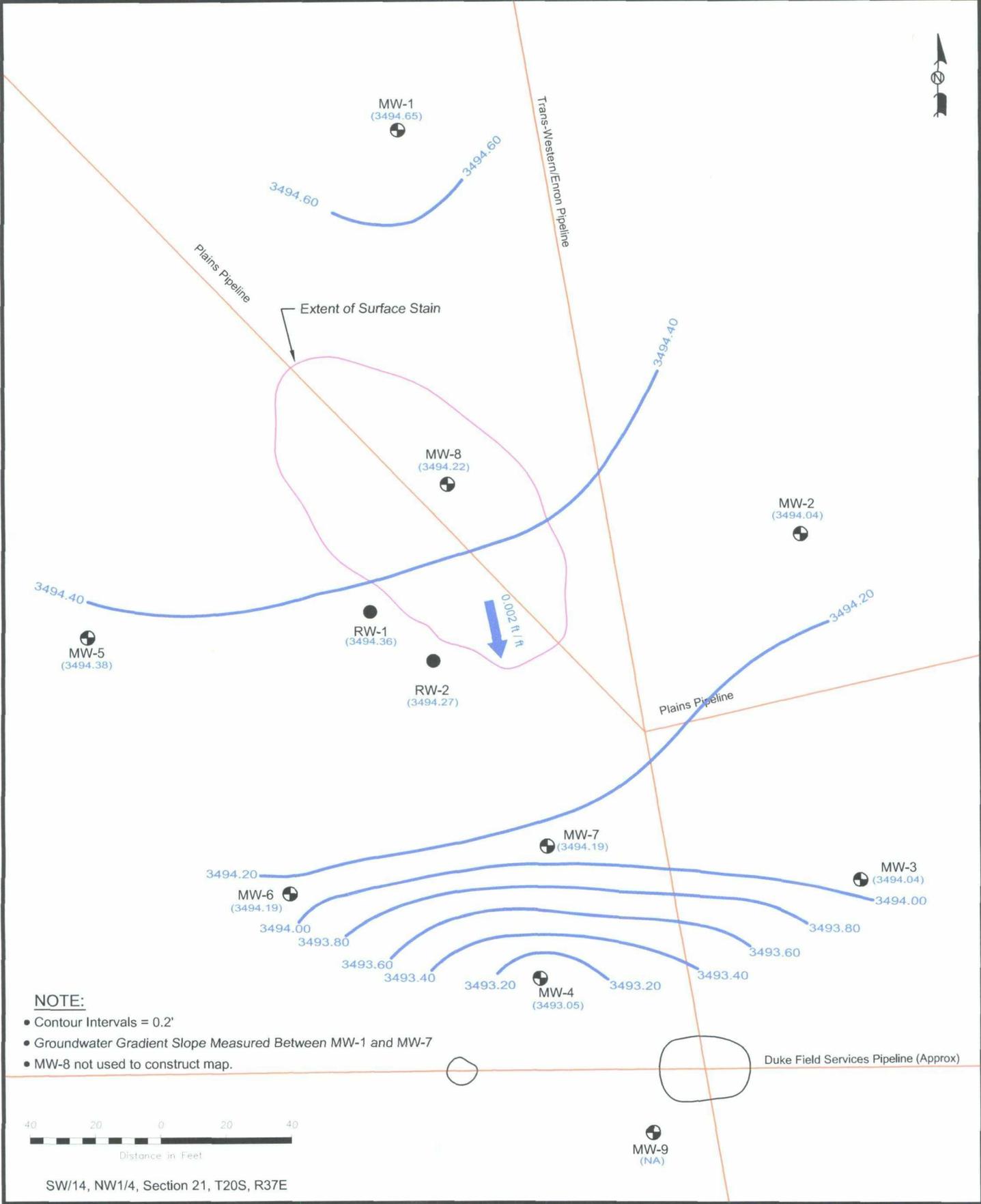
NMOC Reference # 1R-0420

Figure 1  
 Site Location Map  
 Plains Marketing, L.P.  
 Texaco Skelly F  
 Lea County, NM

NOVA Safety and Environmental



February 15, 2005  
 Scale: 1" = 6 Miles  
 Prep By: DPM  
 Checked By: MRE



**NOTE:**

- Contour Intervals = 0.2'
- Groundwater Gradient Slope Measured Between MW-1 and MW-7
- MW-8 not used to construct map.



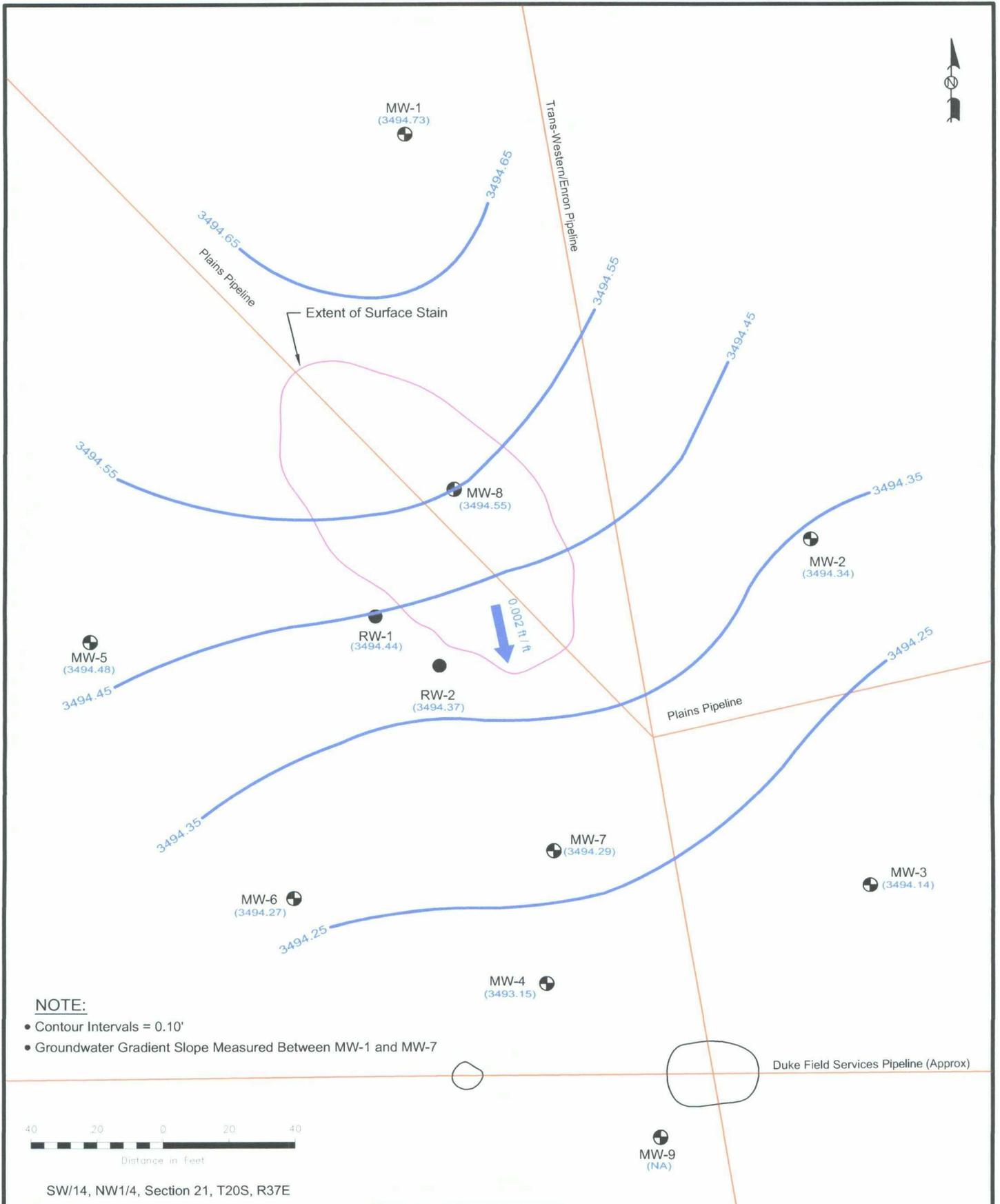
SW/14, NW1/4, Section 21, T20S, R37E

	Monitor Well Location		Groundwater Gradient Direction & Magnitude
(3492.54)	Groundwater Elevation		Groundwater Elevation Contour Line

Figure 2A  
Inferred Groundwater  
Gradient Map  
(02/04/09)  
Plains Marketing, L.P.  
Texaco Skelly "F" Site  
Lea County, NM  
NMOCD Ref# 1R-0420

**NOVA Safety and Environmental**

March 26, 2009	Scale: 1" = 40'	CAD By: SAT
		Checked By: T.J.L.



**NOTE:**

- Contour Intervals = 0.10'
- Groundwater Gradient Slope Measured Between MW-1 and MW-7

SW14, NW1/4, Section 21, T20S, R37E

**Legend:**

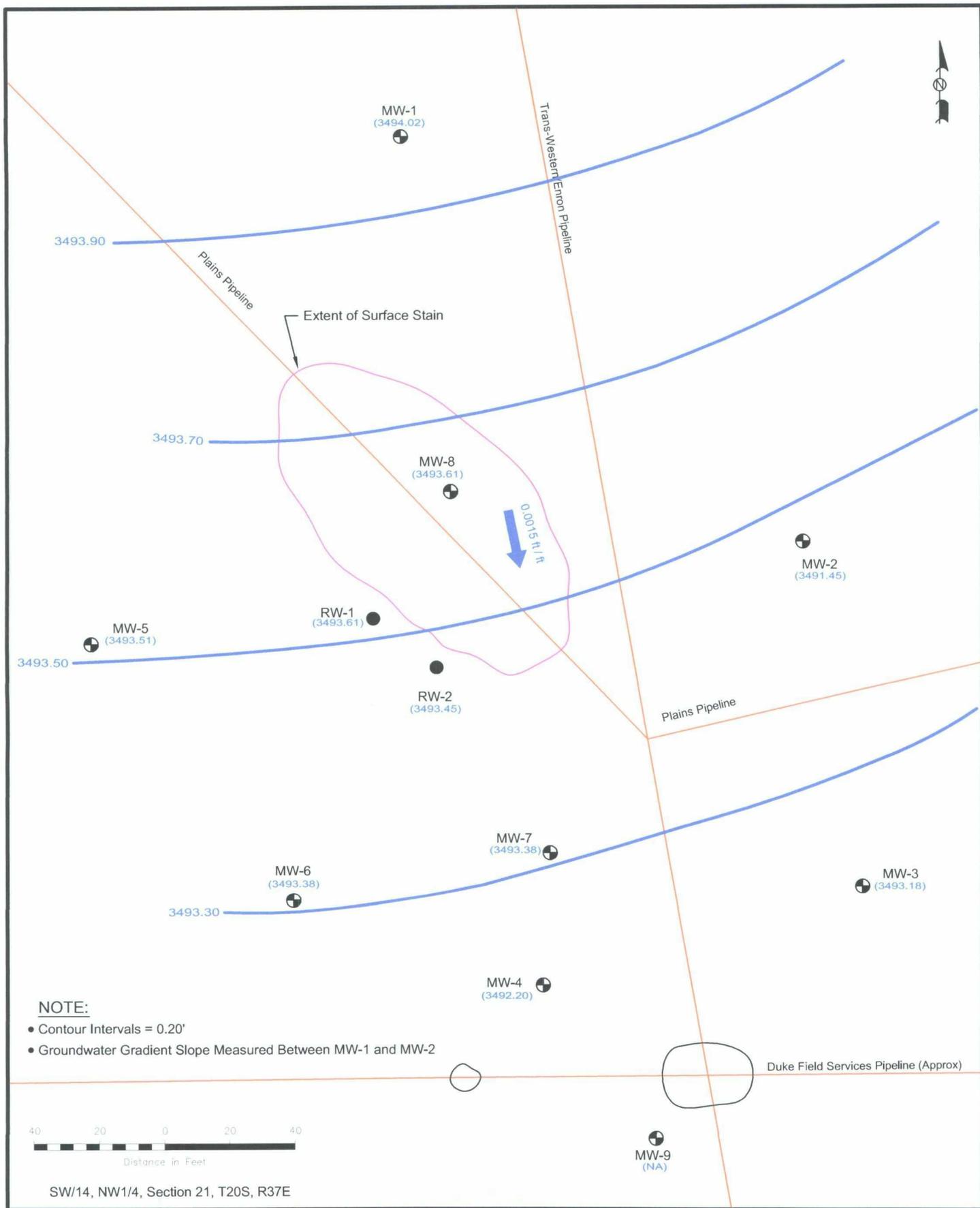
- Monitor Well Location
- Groundwater Gradient Direction & Magnitude
- Groundwater Elevation Contour Line
- (3492.54) Groundwater Elevation

Figure 2B  
Inferred Groundwater  
Gradient Map  
(05/07/09)  
Plains Marketing, L.P.  
Texaco Skelly "F" Site  
Lea County, NM  
NMOCD Ref# 1R-0420

NOVA Safety and Environmental



August 27, 2009	Scale: 1" = 40'	CAD By: SAT
		Checked By: RKR



**NOTE:**

- Contour Intervals = 0.20'
- Groundwater Gradient Slope Measured Between MW-1 and MW-2



SW/14, NW1/4, Section 21, T20S, R37E

**Legend:**

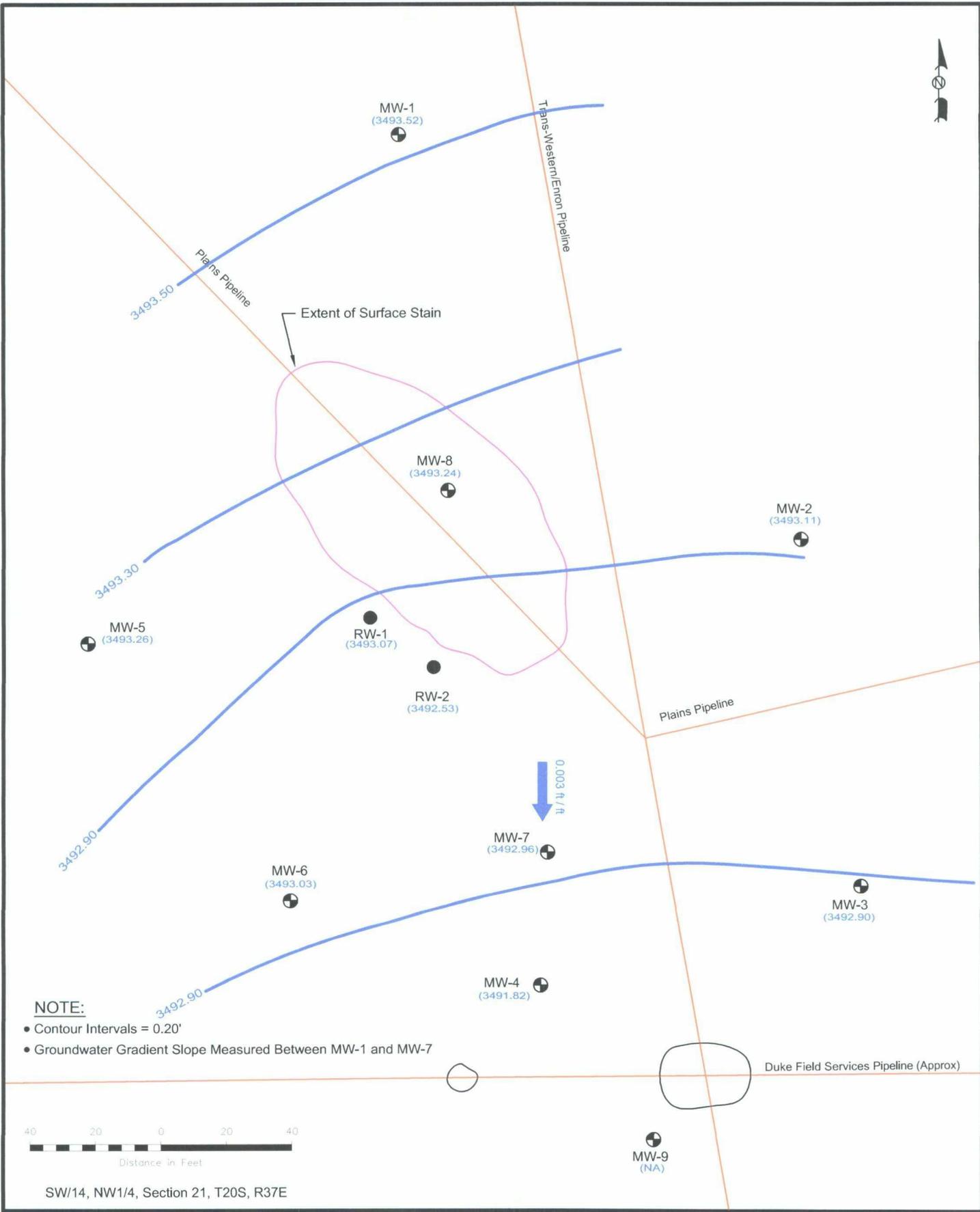
- Monitor Well Location
- (3492.54) Groundwater Elevation
- 0.002 ft/ft Groundwater Gradient Direction & Magnitude
- Groundwater Elevation Contour Line

Figure 2C  
Inferred Groundwater  
Gradient Map  
(08/04/09)  
Plains Marketing, L.P.  
Texaco Skelly "E" Site  
Lea County, NM  
NMOCD Ref# 1R-0420

NOVA Safety and Environmental



February 05, 2010	Scale: 1" = 40'	CAD By: SAT
		Checked By: RKR



**NOTE:**

- Contour Intervals = 0.20'
- Groundwater Gradient Slope Measured Between MW-1 and MW-7



SW/14, NW1/4, Section 21, T20S, R37E

	Monitor Well Location		0.002 ft/ft Groundwater Gradient Direction & Magnitude
(3492.54)	Groundwater Elevation		Groundwater Elevation Contour Line

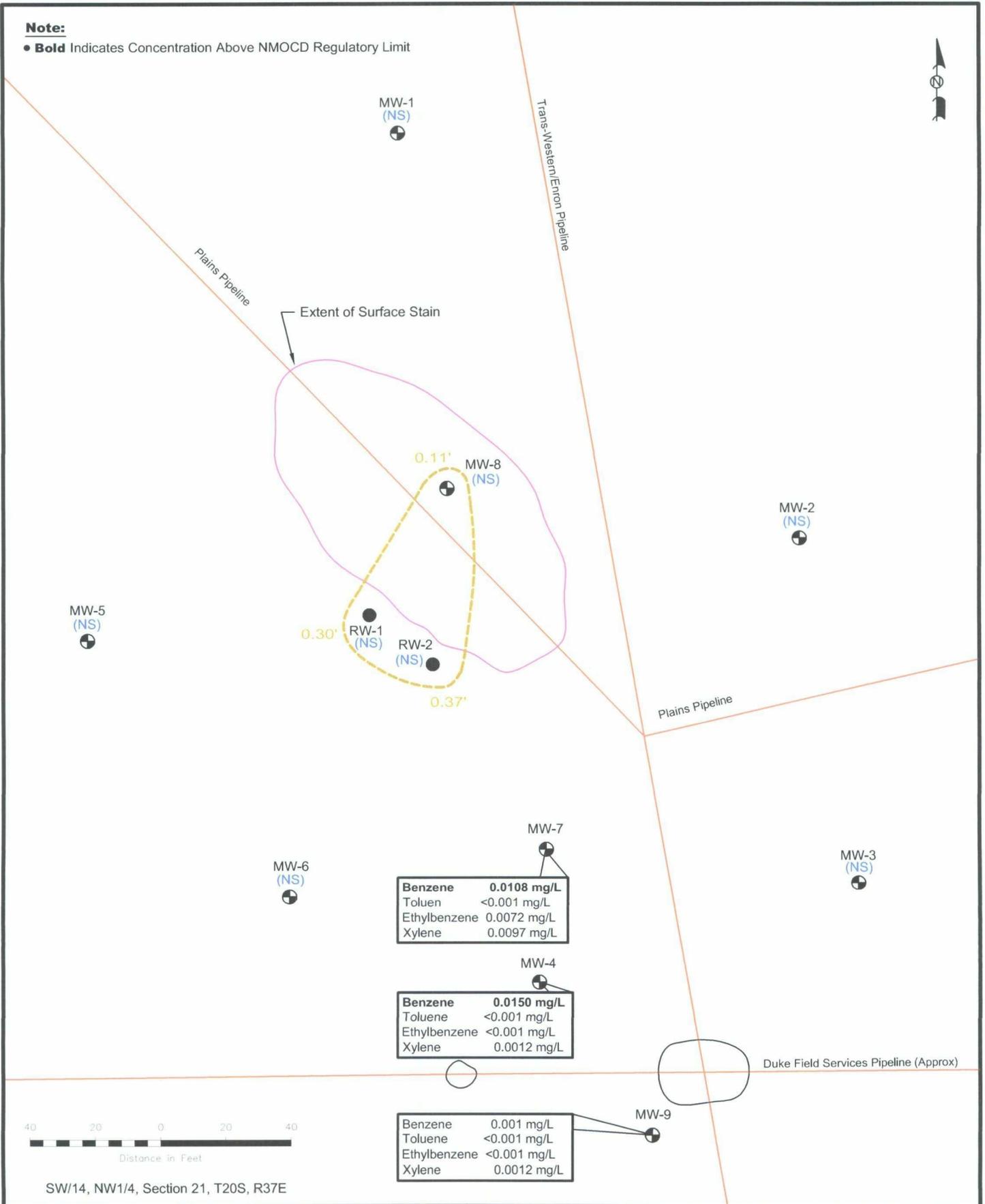
Figure 2D  
Inferred Groundwater  
Gradient Map  
(11/03/09)  
Plains Marketing, L.P.  
Texaco Skelly "E" Site  
Lea County, NM  
NMOCD Ref# 1R-0420

**NOVA Safety and Environmental**

February 05, 2010	Scale: 1" = 40'	CAD By: SAT
		Checked By: RKR

**Note:**

• **Bold** Indicates Concentration Above NMOCD Regulatory Limit



Benzene	<b>0.0108 mg/L</b>
Toluen	<0.001 mg/L
Ethylbenzene	0.0072 mg/L
Xylene	0.0097 mg/L

Benzene	<b>0.0150 mg/L</b>
Toluene	<0.001 mg/L
Ethylbenzene	<0.001 mg/L
Xylene	0.0012 mg/L

Benzene	0.001 mg/L
Toluene	<0.001 mg/L
Ethylbenzene	<0.001 mg/L
Xylene	0.0012 mg/L

SW/14, NW1/4, Section 21, T20S, R37E

●	Product Recovery Well	<0.001	Constituent Concentration (mg/L)
⊕	Monitor Well Location	(NS)	Not Sampled
—	Inferred Extent of PSH	1.90'	Depth of PSH (feet)

Figure 3A  
Groundwater Concentration  
and Inferred PSH Extent Map  
(02/04/09)  
Plains Pipeline, L.P.  
Texaco Skelly "F" Site  
Lea County, New Mexico  
NMOCD Ref# 1R-0420

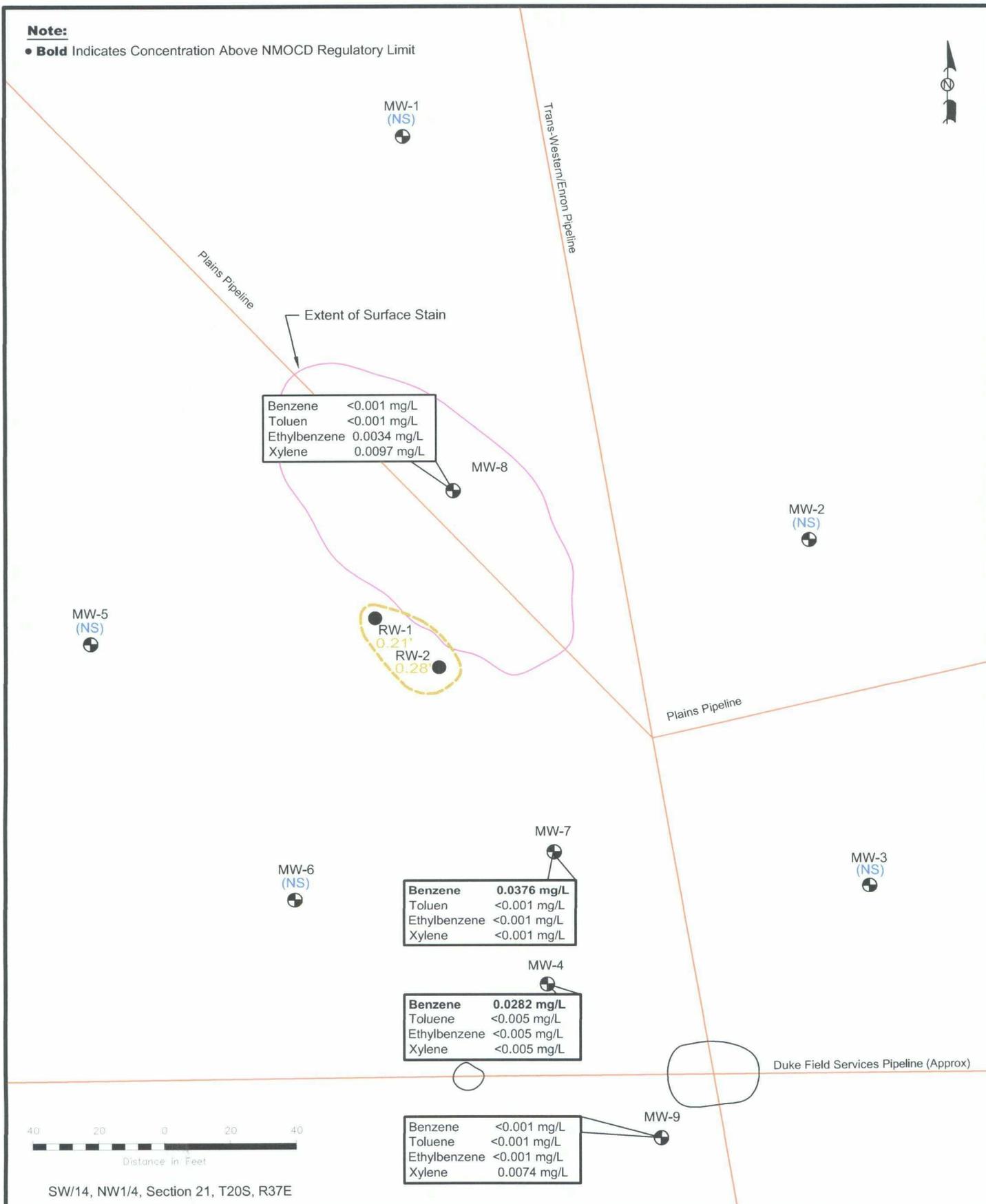
**NOVA**  
safety and environmental  
www.novasafetyandenvironmental.com

2057 Commerce Drive  
Midland, Texas 79703  
432.520.7720

Scale: 1" = 40'	CAD By: SAT	Checked By: CE
March 24, 2009	N 31° 25.326	W 102° 19.435

**Note:**

• **Bold** Indicates Concentration Above NMOCD Regulatory Limit



SW/14, NW1/4, Section 21, T20S, R37E

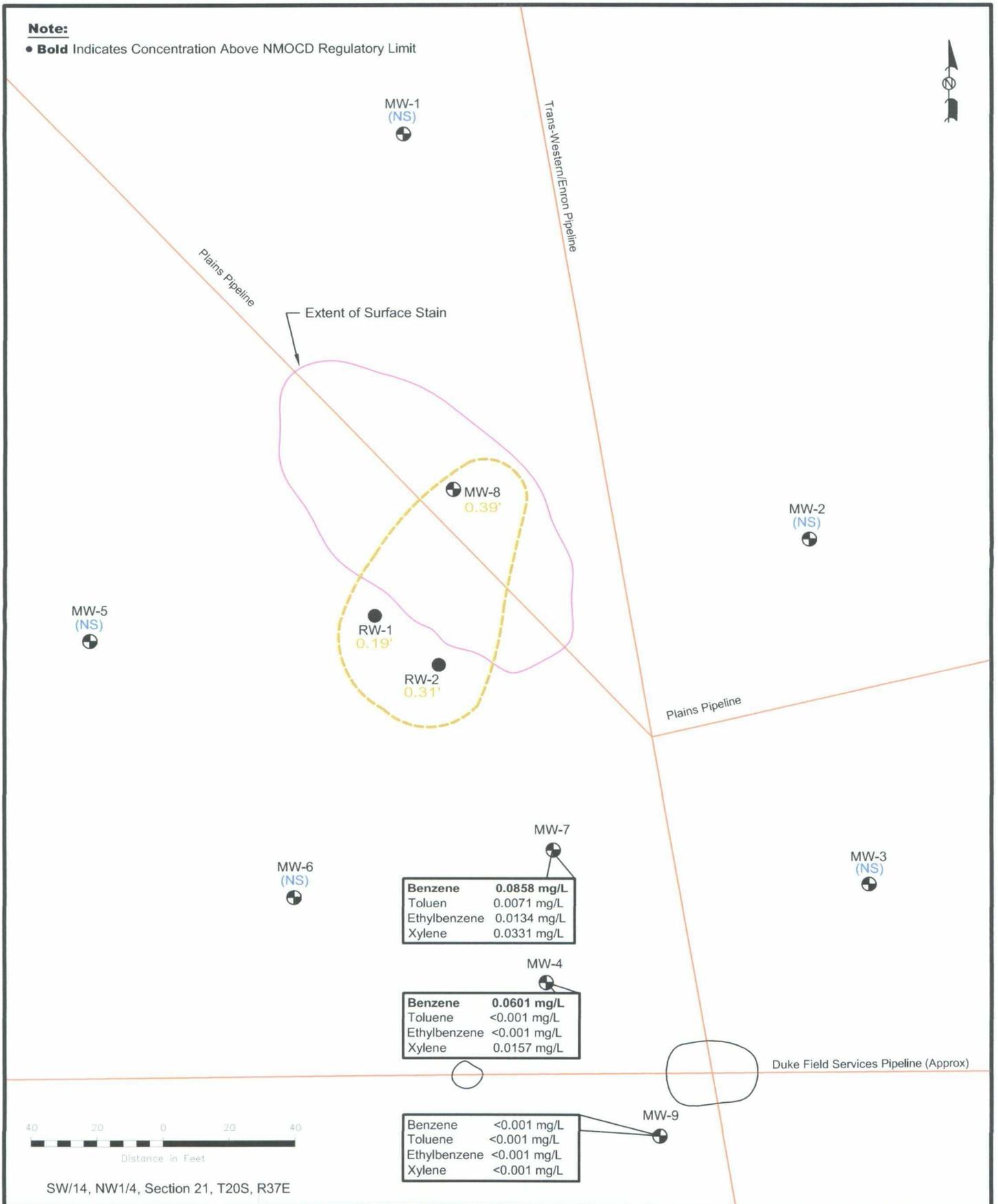
●	Product Recovery Well	<0.001	Constituent Concentration (mg/L)
⊕	Monitor Well Location	(NS)	Not Sampled
---	Inferred Extent of PSH	1.90'	Depth of PSH (feet)

Figure 3B  
Groundwater Concentration  
and Inferred PSH Extent Map  
(05/07/09)  
Plains Pipeline, L.P.  
Texaco Skelly "F" Site  
Lea County, New Mexico  
NMOCD Ref# 1R-0420

		2057 Commerce Drive Midland, Texas 79703 432-520-7720 www.novasafetyandenvironmental.com
Scale: NTS	CAD By: SAT	Checked By: RKR
August 19, 2009	N 31° 25.326	W 102° 19.435

**Note:**

• **Bold** Indicates Concentration Above NMOCD Regulatory Limit



<b>Benzene</b>	<b>0.0858 mg/L</b>
Toluen	0.0071 mg/L
Ethylbenzene	0.0134 mg/L
Xylene	0.0331 mg/L

<b>Benzene</b>	<b>0.0601 mg/L</b>
Toluene	<0.001 mg/L
Ethylbenzene	<0.001 mg/L
Xylene	0.0157 mg/L

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

SW/14, NW1/4, Section 21, T20S, R37E

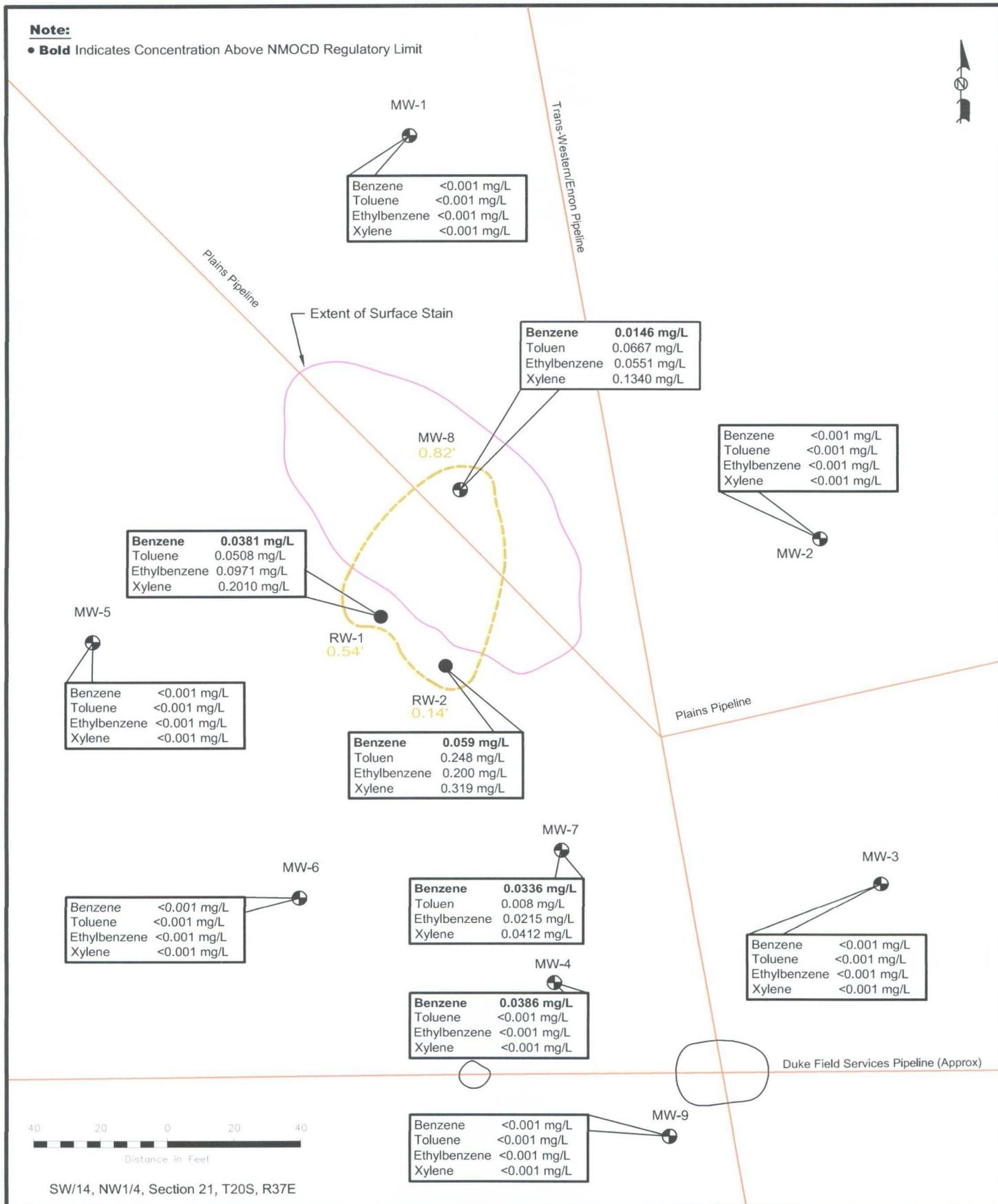
●	Product Recovery Well	<0.001	Constituent Concentration (mg/L)
⊕	Monitor Well Location	(NS)	Not Sampled
---	Inferred Extent of PSH	1.90'	Depth of PSH (feet)

Figure 3C  
Groundwater Concentration  
and Inferred PSH Extent Map  
(08/04/09)  
Plains Pipeline, L.P.  
Texaco Skelly "F" Site  
Lea County, New Mexico  
NMOCD Ref# 1R-0420

		2057 Commerce Drive Midland, Texas 79703 432.520.7720 <a href="http://www.novasafetyandenvironmental.com">www.novasafetyandenvironmental.com</a>
Scale: 1" = 40'	CAD By: SAT	Checked By: RKR
February 05, 2010	N 31° 25.326	W 102° 19.435

**Note:**

• **Bold** Indicates Concentration Above NMOCD Regulatory Limit



SW/14, NW1/4, Section 21, T20S, R37E

Legend:		
	Product Recovery Well	<0.001 Constituent Concentration (mg/L)
	Monitor Well Location	(NS) Not Sampled
	Inferred Extent of PSH	1.90' Depth of PSH (feet)

Figure 3D  
Groundwater Concentration and Inferred PSH Extent Map  
(11/03/09)  
Plains Pipeline, L.P.,  
Texaco Skelly "F" Site  
Lea County, New Mexico  
NMOCD Ref# 1R-0420

		2057 Commerce Drive Midland, Texas 79703 432.520.7720 <a href="http://www.novasafetyandenvironmental.com">www.novasafetyandenvironmental.com</a>
Scale: 1" = 40'	CAD By: SAT	Checked By: RKR
December 17, 2009	N 31° 25.326	W 102° 19.435



## Tables

TABLE 1

## 2009 - GROUNDWATER ELEVATION TABLE

**PLAINS MARKETING, L.P.**  
**TEXACO SKELLY F**  
**LEA COUNTY, NM**  
**NMOCB REFERENCE NUMBER 1R-0420**

Well Number	Date Measured	Top of Casing Elevation	Depth to Product	Depth to Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	02/04/09	3521.04	-	26.39	0.00	3494.65
MW - 1	05/07/09	3521.04	-	26.31	0.00	3494.73
MW - 1	08/04/09	3521.04	-	27.02	0.00	3494.02
MW - 1	11/03/09	3521.04	-	27.52	0.00	3493.52
MW - 2	02/04/09	3518.80	-	24.54	0.00	3494.26
MW - 2	05/07/09	3518.80	-	24.46	0.00	3494.34
MW - 2	08/04/09	3518.80	-	27.35	0.00	3491.45
MW - 2	11/03/09	3518.80	-	25.69	0.00	3493.11
MW - 3	02/04/09	3520.52	-	26.48	0.00	3494.04
MW - 3	05/07/09	3520.52	-	26.38	0.00	3494.14
MW - 3	08/04/09	3520.52	-	27.34	0.00	3493.18
MW - 3	11/03/09	3520.52	-	27.62	0.00	3492.90
MW - 4	01/12/09	3519.91	-	26.89		3493.02
MW - 4	01/15/09	3519.91	-	26.93		3492.98
MW - 4	01/19/09	3519.91	-	27.88		3492.03
MW - 4	01/21/09	3519.91	-	26.89		3493.02
MW - 4	01/26/09	3519.91	-	26.88		3493.03
MW - 4	02/04/09	3519.91	-	26.86		3493.05
MW - 4	02/12/09	3519.91	-	26.81		3493.10
MW - 4	02/25/09	3519.91	-	26.85		3493.06
MW - 4	03/03/09	3519.91	-	26.83		3493.08
MW - 4	03/05/09	3519.91	-	26.89		3493.02
MW - 4	03/10/09	3519.91	-	26.79		3493.12
MW - 4	03/16/09	3519.91	-	26.81		3493.10
MW - 4	03/18/09	3519.91	-	26.92		3492.99
MW - 4	03/20/09	3519.91	-	26.79		3493.12
MW - 4	03/25/09	3519.91	-	26.82		3493.09
MW - 4	03/26/09	3519.91	-	26.74		3493.17
MW - 4	04/02/09	3519.91	-	26.95		3492.96
MW - 4	04/07/09	3519.91	-	26.76		3493.15
MW - 4	04/09/09	3519.91	-	26.96		3492.95
MW - 4	04/14/09	3519.91	-	26.75		3493.16
MW - 4	04/16/09	3519.91	-	26.76		3493.15
MW - 4	04/24/09	3519.91	-	26.97		3492.94
MW - 4	04/28/09	3519.91	-	26.77		3493.14
MW - 4	05/07/09	3519.91	-	26.76		3493.15
MW - 4	05/19/09	3519.91	-	26.94		3492.97
MW - 4	06/04/09	3519.91	-	27.18		3492.73
MW - 4	06/11/09	3519.91	-	26.99		3492.92
MW - 4	06/15/09	3519.91	-	26.92		3492.99
MW - 4	06/22/09	3519.91	-	27.35		3492.56
MW - 4	06/25/09	3519.91	-	27.38		3492.53

TABLE 1

## 2009 - GROUNDWATER ELEVATION TABLE

PLAINS MARKETING, L.P.  
 TEXACO SKELLY F  
 LEA COUNTY, NM  
 NMOCD REFERENCE NUMBER 1R-0420

Well Number	Date Measured	Top of Casing Elevation	Depth to Product	Depth to Water	PSH Thickness	Corrected Groundwater Elevation
MW - 4	07/01/09	3519.91	-	27.45		3492.46
MW - 4	07/08/09	3519.91	-	27.58		3492.33
MW - 4	07/10/09	3519.91	-	25.57		3494.34
MW - 4	07/14/09	3519.91	-	27.65		3492.26
MW - 4	07/15/09	3519.91	-	27.69		3492.22
MW - 4	07/24/09	3519.91	-	27.78		3492.13
MW - 4	07/27/09	3519.91	-	27.78		3492.13
MW - 4	07/31/09	3519.91	-	27.67		3492.24
MW - 4	08/03/09	3519.91	-	27.68		3492.23
MW - 4	08/04/09	3519.91	-	27.71		3492.20
MW - 4	08/07/09	3519.91	-	27.75		3492.16
MW - 4	08/10/09	3519.91	-	27.79		3492.12
MW - 4	08/17/09	3519.91	-	27.85		3492.06
MW - 4	08/21/09	3519.91	-	27.91		3492.00
MW - 4	08/25/09	3519.91	-	27.98		3491.93
MW - 4	09/01/09	3519.91	-	28.05		3491.86
MW - 4	09/03/09	3519.91	-	28.25		3491.66
MW - 4	09/08/09	3519.91	-	27.67		3492.24
MW - 4	09/10/09	3519.91	-	28.11		3491.80
MW - 4	09/15/09	3519.91	-	27.68		3492.23
MW - 4	09/28/09	3519.91	-	28.04		3491.87
MW - 4	10/01/09	3519.91	-	28.05		3491.86
MW - 4	10/05/09	3519.91	-	28.10		3491.81
MW - 4	10/06/09	3519.91	-	27.66		3492.25
MW - 4	10/12/09	3519.91	-	28.12		3491.79
MW - 4	10/15/09	3519.91	-	28.14		3491.77
MW - 4	10/19/09	3519.91	-	28.17		3491.74
MW - 4	10/21/09	3519.91	-	28.12		3491.79
MW - 4	10/26/09	3519.91	-	28.16		3491.75
MW - 4	10/28/09	3519.91	-	28.05		3491.86
MW - 4	11/03/09	3519.91	-	28.09		3491.82
MW - 5	02/04/09	3519.62	-	25.24	0.00	3494.38
MW - 5	05/07/09	3519.62	-	25.14	0.00	3494.48
MW - 5	08/04/09	3519.62	-	26.11	0.00	3493.51
MW - 5	11/03/09	3519.62	-	26.36	0.00	3493.26
MW - 6	02/04/09	3520.71	-	26.52	0.00	3494.19
MW - 6	05/07/09	3520.71	-	26.44	0.00	3494.27
MW - 6	08/04/09	3520.71	-	27.33	0.00	3493.38
MW - 6	11/03/09	3520.71	-	27.68	0.00	3493.03
MW - 7	01/08/09	3521.02	-	26.84	0.00	3494.18
MW - 7	01/12/09	3521.02	-	26.91	0.00	3494.11
MW - 7	01/15/09	3521.02	-	26.29	0.00	3494.73

**TABLE 1**

**2009 - GROUNDWATER ELEVATION TABLE**

**PLAINS MARKETING, L.P.  
 TEXACO SKELLY F  
 LEA COUNTY, NM  
 NMOCD REFERENCE NUMBER 1R-0420**

<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 - 7	01/19/09	3521.02	-	26.87	0.00	3494.15
MW - 7	01/21/09	3521.02	-	26.84	0.00	3494.18
MW - 7	01/26/09	3521.02	-	26.90	0.00	3494.12
MW - 7	02/04/09	3521.02	-	26.83	0.00	3494.19
MW - 7	02/12/09	3521.02	-	26.80	0.00	3494.22
MW - 7	02/25/09	3521.02	-	27.82	0.00	3493.20
MW - 7	03/03/09	3521.02	-	26.79	0.00	3494.23
MW - 7	03/05/09	3521.02	-	26.83	0.00	3494.19
MW - 7	03/10/09	3521.02	-	26.80	0.00	3494.22
MW - 7	03/16/09	3521.02	-	26.82	0.00	3494.20
MW - 7	03/18/09	3521.02	-	26.84	0.00	3494.18
MW - 7	03/20/09	3521.02	-	26.80	0.00	3494.22
MW - 7	03/25/09	3521.02	-	26.75	0.00	3494.27
MW - 7	03/26/09	3521.02	-	26.75	0.00	3494.27
MW - 7	04/02/09	3521.02	-	26.86	0.00	3494.16
MW - 7	04/07/09	3521.02	-	26.74	0.00	3494.28
MW - 7	04/09/09	3521.02	26.73	26.85	0.12	3494.27
MW - 7	04/14/09	3521.02	26.73	26.74	0.01	3494.29
MW - 7	04/16/09	3521.02	26.72	26.73	0.01	3494.30
MW - 7	04/24/09	3521.02	26.73	26.84	0.11	3494.27
MW - 7	04/28/09	3521.02	26.73	26.79	0.06	3494.28
MW - 7	05/07/09	3521.02	26.73	26.73	0.00	3494.29
MW - 7	05/19/09	3521.02	26.73	26.92	0.19	3494.26
MW - 7	06/04/09	3521.02	26.73	27.15	0.42	3494.23
MW - 7	06/11/09	3521.02	-	26.97	0.00	3494.05
MW - 7	06/15/09	3521.02	-	26.94	0.00	3494.08
MW - 7	06/22/09	3521.02	-	27.32	0.00	3493.70
MW - 7	06/25/09	3521.02	-	27.33	0.00	3493.69
MW - 7	07/01/09	3521.02	-	27.13	0.00	3493.89
MW - 7	07/08/09	3521.02	-	27.58	0.00	3493.44
MW - 7	07/10/09	3521.02	-	27.59	0.00	3493.43
MW - 7	07/14/09	3521.02	-	27.66	0.00	3493.36
MW - 7	07/15/09	3521.02	-	27.72	0.00	3493.30
MW - 7	07/24/09	3521.02	-	27.82	0.00	3493.20
MW - 7	07/27/09	3521.02	-	27.75	0.00	3493.27
MW - 7	07/31/09	3521.02	-	28.07	0.00	3492.95
MW - 7	08/03/09	3521.02	-	27.68	0.00	3493.34
MW - 7	08/04/09	3521.02	-	27.64	0.00	3493.38
MW - 7	08/07/09	3521.02	-	27.74	0.00	3493.28
MW - 7	08/10/09	3521.02	-	27.78	0.00	3493.24
MW - 7	08/17/09	3521.02	-	27.88	0.00	3493.14
MW - 7	08/21/09	3521.02	-	27.90	0.00	3493.12
MW - 7	08/25/09	3521.02	-	27.98	0.00	3493.04
MW - 7	09/01/09	3521.02	-	28.02	0.00	3493.00
MW - 7	09/03/09	3521.02	-	28.02	0.00	3493.00

TABLE 1

## 2009 - GROUNDWATER ELEVATION TABLE

**PLAINS MARKETING, L.P.**  
**TEXACO SKELLY F**  
**LEA COUNTY, NM**  
**NMOC D REFERENCE NUMBER 1R-0420**

Well Number	Date Measured	Top of Casing Elevation	Depth to Product	Depth to Water	PSH Thickness	Corrected Groundwater Elevation
MW - 7	09/08/09	3521.02	-	28.07	0.00	3492.95
MW - 7	09/10/09	3521.02	-	28.08	0.00	3492.94
MW - 7	09/15/09	3521.02	-	28.08	0.00	3492.94
MW - 7	09/28/09	3521.02	-	27.99	0.00	3493.03
MW - 7	10/01/09	3521.02	-	28.02	0.00	3493.00
MW - 7	10/05/09	3521.02	-	28.09	0.00	3492.93
MW - 7	10/06/09	3521.02	-	28.06	0.00	3492.96
MW - 7	10/12/09	3521.02	-	28.09	0.00	3492.93
MW - 7	10/15/09	3521.02	-	28.11	0.00	3492.91
MW - 7	10/19/09	3521.02	-	28.13	0.00	3492.89
MW - 7	10/21/09	3521.02	-	28.10	0.00	3492.92
MW - 7	10/26/09	3521.02	-	28.19	0.00	3492.83
MW - 7	10/28/09	3521.02	-	28.01	0.00	3493.01
MW - 7	11/03/09	3521.02	-	28.06	0.00	3492.96
MW - 8	01/06/09	3519.78	25.33	25.48	0.15	3494.43
MW - 8	01/08/09	3519.78	25.39	25.51	0.12	3494.37
MW - 8	01/12/09	3519.78	25.41	25.51	0.10	3494.36
MW - 8	01/15/09	3519.78	25.39	25.52	0.13	3494.37
MW - 8	01/19/09	3519.78	25.41	25.48	0.07	3494.36
MW - 8	01/21/09	3519.78	25.33	25.39	0.06	3494.44
MW - 8	01/26/09	3519.78	25.36	25.43	0.07	3494.41
MW - 8	02/04/09	3519.78	25.29	25.40	0.11	3494.47
MW - 8	02/12/09	3519.78	25.28	25.41	0.13	3494.48
MW - 8	02/25/09	3519.78	25.29	25.85	0.56	3494.41
MW - 8	03/03/09	3519.78	25.34	25.90	0.56	3494.36
MW - 8	03/05/09	3519.78	25.39	25.86	0.47	3494.32
MW - 8	03/10/09	3519.78	25.27	25.29	0.02	3494.51
MW - 8	03/16/09	3519.78	sheen	25.29	0.00	3494.49
MW - 8	03/18/09	3519.78	sheen	25.89	0.00	3493.89
MW - 8	03/20/09	3519.78	sheen	25.24	0.00	3494.54
MW - 8	03/25/09	3519.78	sheen	25.29	0.00	3494.49
MW - 8	03/26/09	3519.78	sheen	25.26	0.00	3494.52
MW - 8	04/02/09	3519.78	sheen	25.93	0.00	3493.85
MW - 8	04/07/09	3519.78	sheen	25.29	0.00	3494.49
MW - 8	04/09/09	3519.78	sheen	25.94	0.00	3493.84
MW - 8	04/14/09	3519.78	sheen	25.24	0.00	3494.54
MW - 8	04/16/09	3519.78	sheen	25.26	0.00	3494.52
MW - 8	04/24/09	3519.78	sheen	25.94	0.00	3493.84
MW - 8	04/28/09	3519.78	sheen	25.25	0.00	3494.53
MW - 8	05/07/09	3519.78	sheen	25.23	0.00	3494.55
MW - 8	05/19/09	3519.78	sheen	25.41	0.00	3494.37
MW - 8	06/04/09	3519.78	sheen	25.76	0.00	3494.02
MW - 8	06/11/09	3519.78	sheen	25.65	0.00	3494.13
MW - 8	06/15/09	3519.78	sheen	25.63	0.00	3494.15

**TABLE 1**

**2009 - GROUNDWATER ELEVATION TABLE**

**PLAINS MARKETING, L.P.  
 TEXACO SKELLY F  
 LEA COUNTY, NM  
 NMOCD REFERENCE NUMBER 1R-0420**

<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 - 8	06/22/09	3519.78	25.78	26.02	0.24	3493.96
MW - 8	06/25/09	3519.78	25.83	26.44	0.61	3493.86
MW - 8	06/25/09	3519.78	25.06	25.40	0.34	3494.67
MW - 8	07/01/09	3519.78	25.86	26.11	0.25	3493.88
MW - 8	07/08/09	3519.78	25.91	26.91	1.00	3493.72
MW - 8	07/10/09	3519.78	25.98	26.51	0.53	3493.72
MW - 8	07/14/09	3519.78	26.04	26.68	0.64	3493.64
MW - 8	07/15/09	3519.78	26.08	26.45	0.37	3493.64
MW - 8	07/24/09	3519.78	26.10	27.03	0.93	3493.54
MW - 8	07/27/09	3519.78	26.14	26.79	0.65	3493.54
MW - 8	07/31/09	3519.78	26.10	26.58	0.48	3493.61
MW - 8	08/03/09	3519.78	26.12	26.68	0.56	3493.58
MW - 8	08/04/09	3519.78	26.11	26.50	0.39	3493.61
MW - 8	08/07/09	3519.78	26.18	26.85	0.67	3493.50
MW - 8	08/10/09	3519.78	26.22	26.80	0.58	3493.47
MW - 8	08/17/09	3519.78	26.26	27.02	0.76	3493.41
MW - 8	08/21/09	3519.78	26.31	26.93	0.62	3493.38
MW - 8	08/25/09	3519.78	26.39	27.02	0.63	3493.30
MW - 8	09/01/09	3519.78	26.44	27.25	0.81	3493.22
MW - 8	09/03/09	3519.78	26.43	26.95	0.52	3493.27
MW - 8	09/08/09	3519.78	26.12	26.49	0.37	3493.60
MW - 8	09/10/09	3519.78	26.47	27.45	0.98	3493.16
MW - 8	09/15/09	3519.78	26.14	26.48	0.34	3493.59
MW - 8	09/28/09	3519.78	26.35	27.74	1.39	3493.22
MW - 8	10/01/09	3519.78	26.40	27.25	0.85	3493.25
MW - 8	10/05/09	3519.78	26.45	27.21	0.76	3493.22
MW - 8	10/06/09	3519.78	26.13	26.46	0.33	3493.60
MW - 8	10/12/09	3519.78	26.46	27.33	0.87	3493.19
MW - 8	10/15/09	3519.78	26.51	27.13	0.62	3493.18
MW - 8	10/19/09	3519.78	26.54	27.19	0.65	3493.14
MW - 8	10/21/09	3519.78	26.50	26.90	0.40	3493.22
MW - 8	10/26/09	3519.78	26.54	27.14	0.60	3493.15
MW - 8	10/28/09	3519.78	26.43	26.84	0.41	3493.29
MW - 8	11/03/09	3519.78	26.42	27.24	0.82	3493.24
MW - 9	02/04/09			26.28	0.00	
MW - 9	05/07/09			26.21	0.00	
MW - 9	08/04/09			27.15	0.00	
MW - 9	11/03/09			27.46	0.00	
RW - 1	01/06/09	3519.68	25.31	25.71	0.40	3494.31
RW - 1	01/08/09	3519.68	25.29	25.61	0.32	3494.34
RW - 1	01/12/09	3519.68	25.29	25.61	0.32	3494.34
RW - 1	01/15/09	3519.68	25.34	25.51	0.17	3494.31
RW - 1	01/19/09	3519.68	25.41	25.49	0.08	3494.26

**TABLE 1**

**2009 - GROUNDWATER ELEVATION TABLE**

**PLAINS MARKETING, L.P.  
 TEXACO SKELLY F  
 LEA COUNTY, NM  
 NMOCD REFERENCE NUMBER 1R-0420**

<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>
RW - 1	01/21/09	3519.68	25.32	25.44	0.12	3494.34
RW - 1	01/26/09	3519.68	25.29	25.53	0.24	3494.35
RW - 1	02/04/09	3519.68	25.28	25.58	0.30	3494.36
RW - 1	02/12/09	3519.68	25.21	25.68	0.47	3494.40
RW - 1	02/25/09	3519.68	25.22	25.90	0.68	3494.36
RW - 1	03/03/09	3519.68	25.27	26.00	0.73	3494.30
RW - 1	03/05/09	3519.68	25.32	25.96	0.64	3494.26
RW - 1	03/10/09	3519.68	25.18	25.81	0.63	3494.41
RW - 1	03/16/09	3519.68	25.24	25.43	0.19	3494.41
RW - 1	03/18/09	3519.68	25.34	25.99	0.65	3494.24
RW - 1	03/20/09	3519.68	25.25	25.39	0.14	3494.41
RW - 1	03/25/09	3519.68	25.21	25.34	0.13	3494.45
RW - 1	03/26/09	3519.68	25.21	25.29	0.08	3494.46
RW - 1	04/02/09	3519.68	25.36	26.02	0.66	3494.22
RW - 1	04/07/09	3519.68	25.19	25.45	0.26	3494.45
RW - 1	04/09/09	3519.68	25.38	26.00	0.62	3494.21
RW - 1	04/14/09	3519.68	25.16	25.35	0.19	3494.49
RW - 1	04/16/09	3519.68	25.19	25.28	0.09	3494.48
RW - 1	04/24/09	3519.68	25.36	25.94	0.58	3494.23
RW - 1	04/28/09	3519.68	25.20	25.46	0.26	3494.44
RW - 1	05/07/09	3519.68	25.21	25.42	0.21	3494.44
RW - 1	05/19/09	3519.68	25.36	25.85	0.49	3494.25
RW - 1	06/04/09	3519.68	25.56	26.26	0.70	3494.02
RW - 1	06/11/09	3519.68	25.70	26.21	0.51	3493.90
RW - 1	06/15/09	3519.68	25.67	26.20	0.53	3493.93
RW - 1	06/22/09	3519.68	25.71	26.55	0.84	3493.84
RW - 1	06/25/09	3519.68	25.28	26.26	0.98	3494.25
RW - 1	06/25/09	3519.68	25.40	26.02	0.62	3494.19
RW - 1	07/01/09	3519.68	25.94	26.04	0.10	3493.73
RW - 1	07/08/09	3519.68	25.96	26.41	0.45	3493.65
RW - 1	07/10/09	3519.68	25.98	26.08	0.10	3493.69
RW - 1	07/14/09	3519.68	26.10	26.42	0.32	3493.53
RW - 1	07/15/09	3519.68	26.21	26.34	0.13	3493.45
RW - 1	07/24/09	3519.68	26.13	26.28	0.15	3493.53
RW - 1	07/27/09	3519.68	26.20	26.59	0.39	3493.42
RW - 1	07/31/09	3519.68	26.09	26.45	0.36	3493.54
RW - 1	08/03/09	3519.68	26.09	26.60	0.51	3493.51
RW - 1	08/04/09	3519.68	26.04	26.23	0.19	3493.61
RW - 1	08/07/09	3519.68	26.15	26.28	0.13	3493.51
RW - 1	08/10/09	3519.68	26.27	26.60	0.33	3493.36
RW - 1	08/17/09	3519.68	26.29	26.79	0.50	3493.32
RW - 1	08/21/09	3519.68	26.30	26.70	0.40	3493.32
RW - 1	08/25/09	3519.68	26.44	26.88	0.44	3493.17
RW - 1	09/01/09	3519.68	26.46	26.95	0.49	3493.15
RW - 1	09/03/09	3519.68	26.49	26.58	0.09	3493.18

TABLE 1

## 2009 - GROUNDWATER ELEVATION TABLE

PLAINS MARKETING, L.P.  
 TEXACO SKELLY F  
 LEA COUNTY, NM  
 NMOCD REFERENCE NUMBER 1R-0420

Well Number	Date Measured	Top of Casing Elevation	Depth to Product	Depth to Water	PSH Thickness	Corrected Groundwater Elevation
RW - 1	09/08/09	3519.68	26.49	26.88	0.39	3493.13
RW - 1	09/10/09	3519.68	26.50	27.09	0.59	3493.09
RW - 1	09/15/09	3519.68	26.51	26.87	0.36	3493.12
RW - 1	09/28/09	3519.68	26.36	27.36	1.00	3493.17
RW - 1	10/01/09	3519.68	26.48	26.73	0.25	3493.16
RW - 1	10/05/09	3519.68	26.50	26.75	0.25	3493.14
RW - 1	10/06/09	3519.68	26.53	26.85	0.32	3493.10
RW - 1	10/12/09	3519.68	26.54	26.96	0.42	3493.08
RW - 1	10/15/09	3519.68	26.58	26.82	0.24	3493.06
RW - 1	10/19/09	3519.68	26.61	26.90	0.29	3493.03
RW - 1	10/21/09	3519.68	26.51	26.68	0.17	3493.14
RW - 1	10/26/09	3519.68	26.59	26.89	0.30	3493.05
RW - 1	10/28/09	3519.68	26.45	26.67	0.22	3493.20
RW - 1	11/03/09	3519.68	26.53	27.07	0.54	3493.07
RW - 2	01/06/09	3520.24	25.96	26.39	0.43	3494.22
RW - 2	01/08/09	3520.24	25.94	26.05	0.11	3494.28
RW - 2	01/12/09	3520.24	26.03	26.29	0.26	3494.17
RW - 2	01/15/09	3520.24	26.09	26.29	0.20	3494.12
RW - 2	01/19/09	3520.24	26.97	27.14	0.17	3493.24
RW - 2	01/21/09	3520.24	25.94	26.07	0.13	3494.28
RW - 2	01/26/09	3520.24	26.00	26.35	0.35	3494.19
RW - 2	02/04/09	3520.24	25.91	26.28	0.37	3494.27
RW - 2	02/12/09	3520.24	25.89	26.65	0.76	3494.24
RW - 2	02/25/09	3520.24	25.85	26.61	0.76	3494.28
RW - 2	03/03/09	3520.24	25.87	26.74	0.87	3494.24
RW - 2	03/05/09	3520.24	25.94	26.72	0.78	3494.18
RW - 2	03/10/09	3520.24	25.71	27.18	1.47	3494.31
RW - 2	03/16/09	3520.24	25.96	26.51	0.55	3494.20
RW - 2	03/18/09	3520.24	25.97	26.75	0.78	3494.15
RW - 2	03/20/09	3520.24	25.91	26.08	0.17	3494.30
RW - 2	03/25/09	3520.24	25.95	26.15	0.20	3494.26
RW - 2	03/26/09	3520.24	25.91	26.01	0.10	3494.32
RW - 2	04/02/09	3520.24	25.96	26.78	0.82	3494.16
RW - 2	04/07/09	3520.24	25.92	26.28	0.36	3494.27
RW - 2	04/09/09	3520.24	25.97	26.77	0.80	3494.15
RW - 2	04/14/09	3520.24	25.89	26.10	0.21	3494.32
RW - 2	04/16/09	3520.24	25.90	25.99	0.09	3494.33
RW - 2	04/24/09	3520.24	25.98	26.73	0.75	3494.15
RW - 2	04/28/09	3520.24	25.90	26.24	0.34	3494.29
RW - 2	05/07/09	3520.24	25.83	26.11	0.28	3494.37
RW - 2	05/19/09	3520.24	25.96	27.03	1.07	3494.12
RW - 2	06/04/09	3520.24	25.96	29.02	3.06	3493.82
RW - 2	06/11/09	3520.24	25.97	26.57	0.60	3494.18
RW - 2	06/15/09	3520.24	25.90	26.54	0.64	3494.24

**TABLE 1****2009 - GROUNDWATER ELEVATION TABLE**

**PLAINS MARKETING, L.P.  
 TEXACO SKELLY F  
 LEA COUNTY, NM  
 NMOCD REFERENCE NUMBER 1R-0420**

<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>
RW - 2	06/22/09	3520.24	26.33	27.65	1.32	3493.71
RW - 2	06/25/09	3520.24	26.36	27.86	1.50	3493.66
RW - 2	06/25/09	3520.24	26.51	26.63	0.12	3493.71
RW - 2	07/01/09	3520.24	26.50	27.84	1.34	3493.54
RW - 2	07/08/09	3520.24	26.43	28.02	1.59	3493.57
RW - 2	07/10/09	3520.24	26.54	27.90	1.36	3493.50
RW - 2	07/14/09	3520.24	26.62	27.60	0.98	3493.47
RW - 2	07/15/09	3520.24	26.72	27.08	0.36	3493.47
RW - 2	07/24/09	3520.24	26.77	27.31	0.54	3493.39
RW - 2	07/27/09	3520.24	26.87	27.09	0.22	3493.34
RW - 2	07/31/09	3520.24	26.67	27.75	1.08	3493.41
RW - 2	08/03/09	3520.24	26.64	27.53	0.89	3493.47
RW - 2	08/04/09	3520.24	26.74	27.05	0.31	3493.45
RW - 2	08/07/09	3520.24	26.74	27.59	0.85	3493.37
RW - 2	08/10/09	3520.24	26.79	27.69	0.90	3493.32
RW - 2	08/17/09	3520.24	26.96	27.73	0.77	3493.16
RW - 2	08/21/09	3520.24	26.95	27.68	0.73	3493.18
RW - 2	09/03/09	3520.24	27.11	27.24	0.13	3493.11
RW - 2	09/08/09	3520.24	27.17	27.62	0.45	3493.00
RW - 2	11/03/09	3520.24	27.69	27.83	0.14	3492.53

*\* Complete Historical Tables are provided on the attached CD.*

TABLE 2

## 2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TEXACO SKELLY "F"  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER 1R-0420

*All concentrations are reported in mg/L*

SAMPLE LOCATION	SAMPLE DATE	SW 846-8015M GRO/DRO		EPA Method SW 846-8021B				
		GRO C <sub>6</sub> -C <sub>12</sub>	DRO >C <sub>12</sub> -C <sub>35</sub>	BENZENE	TOLUENE	ETHYL- BENZENE	m - p XYLENES	o - XYLENE
<b>NMOCD Regulatory Limit</b>				<b>0.0100</b>	<b>0.75</b>	<b>0.75</b>	<b>Total XYLENES</b> <b>0.62</b>	
MW - 1	02/04/09			Not sampled due to sample reduction				
MW - 1	05/07/09			Not sampled due to sample reduction				
MW - 1	08/04/09			Not sampled due to sample reduction				
MW - 1	11/03/09			<0.001	<0.001	<0.001	<0.001	
MW - 2	02/04/09			Not sampled due to sample reduction				
MW - 2	05/07/09			Not sampled due to sample reduction				
MW - 2	08/04/09			Not sampled due to sample reduction				
MW - 2	11/03/09			<0.001	<0.001	<0.001	<0.001	
MW - 3	02/04/09			Not sampled due to sample reduction				
MW - 3	05/07/09			Not sampled due to sample reduction				
MW - 3	08/04/09			Not sampled due to sample reduction				
MW - 3	11/03/09			<0.001	<0.001	<0.001	<0.001	
MW - 4	02/04/09			<b>0.0150</b>	<0.001	<0.001	0.0012	
MW - 4	05/07/09			<b>0.0282</b>	<0.005	<0.005	<0.005	
MW - 4	08/04/09			<b>0.0601</b>	<0.001	<0.001	0.0157	
MW - 4	11/03/09			<b>0.0386</b>	<0.001	<0.001	<0.001	
MW - 5	02/04/09			Not sampled due to sample reduction				
MW - 5	05/07/09			Not sampled due to sample reduction				
MW - 5	08/04/09			Not sampled due to sample reduction				
MW - 5	11/03/09			<0.001	<0.001	<0.001	<0.001	
MW - 6	02/04/09			Not sampled due to sample reduction				
MW - 6	05/07/09			Not sampled due to sample reduction				
MW - 6	08/04/09			Not sampled due to sample reduction				
MW - 6	11/03/09			<0.001	<0.001	<0.001	<0.001	
MW - 7	02/04/09			<b>0.1080</b>	<0.001	0.0072	0.0097	
MW - 7	05/07/09			<b>0.0376</b>	<0.001	<0.001	<0.001	
MW - 7	08/04/09			<b>0.0858</b>	0.0071	0.0134	0.0331	
MW - 7	11/03/09			<b>0.0336</b>	0.008	0.0215	0.0412	
MW - 8	02/04/09			Not sampled Due to PSH in Well				
MW - 8	05/07/09			<0.001	<0.001	0.0034	0.0097	
MW - 8	08/04/09			Not sampled Due to PSH in Well				
MW - 8	11/03/09	1.85	25.2	<b>0.0146</b>	0.0667	0.0551	0.1340	

TABLE 2

## 2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

**PLAINS MARKETING, L.P.  
TEXACO SKELLY "F"  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER 1R-0420**

*All concentrations are reported in mg/L*

SAMPLE LOCATION	SAMPLE DATE	SW 846-8015M GRO/DRO		EPA Method SW 846-8021B				
		GRO C <sub>6</sub> -C <sub>12</sub>	DRO >C <sub>12</sub> -C <sub>35</sub>	BENZENE	TOLUENE	ETHYL- BENZENE	m - p XYLENES	o - XYLENE
<b>NMOCD Regulatory Limit</b>				<b>0.0100</b>	<b>0.75</b>	<b>0.75</b>	<b>Total XYLENES</b>	
							<b>0.62</b>	
MW - 9	02/04/09			<0.001	<0.001	<0.001	0.0046	
MW - 9	05/07/09			<0.001	<0.001	<0.001	0.0074	
MW - 9	08/04/09			<0.001	<0.001	<0.001	<0.001	
MW - 9	11/03/09			<0.001	<0.001	<0.001	<0.001	
RW - 1	02/04/09			Not sampled Due to PSH in Well				
RW - 1	05/07/09			Not sampled Due to PSH in Well				
RW - 1	08/04/09			Not sampled Due to PSH in Well				
RW - 1	11/03/09	2.16	102	<b>0.0381</b>	0.0508	0.0971	0.2010	
RW - 2	02/04/09			Not sampled Due to PSH in Well				
RW - 2	05/07/09			Not sampled Due to PSH in Well				
RW - 2	08/04/09			Not sampled Due to PSH in Well				
RW - 2	11/03/09	2.84	52.6	<b>0.059</b>	0.248	0.200	0.319	

\* Complete Historical Tables are provided on the attached CD.





# Appendices



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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

x Initial Report  Final Report

Name of Company	Plains Pipeline, LP	Contact:	Camille Reynolds
Address:	3705 E. Hwy 158, Midland, TX 79706	Telephone No.	505-441-0965
Facility Name	Texaco Skelly F	Facility Type:	4" Steel Pipeline
Surface Owner:	Millard Deck Estate	Mineral Owner	Lease No.

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	21	20S	37E					Lea

**Latitude** 32 degrees 33' 48.02" **Longitude** 103 degrees 15' 48.08"

**NATURE OF RELEASE**

Type of Release:	Crude Oil	Volume of Release:	30	Volume Recovered	0
Source of Release:	4" Steel Pipeline	Date and Hour of Occurrence	09/15/1998	Date and Hour of Discovery	09/15/1998 02:00 PM
Was Immediate Notice Given?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required <input type="checkbox"/>	If YES, To Whom?	Donna Williams		
By Whom?	Frank Hernandez	Date and Hour	02/02/01 02:30 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Internal corrosion of 4" steel pipeline. Forty feet of the line was replaced.

Describe Area Affected and Cleanup Action Taken.\* Forty feet of the line was replaced. The aerial extent of surface impact was approximately 30' x 100'.

**NOTE: This information was obtained from historical EOTT files, Plains acquired EOTT/Link on April 1, 2004 and Plains assumes this information to be correct.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name:	Camille Reynolds	Approval Date:	Expiration Date:
Title:	Remediation Coordinator	Conditions of Approval:	Attached <input type="checkbox"/>
E-mail Address:	cjreynolds@paalp.com		
Date:	3/21/2005	Phone:	(505)441-0965

\* Attach Additional Sheets If Necessary