

1R - 420

# REPORTS

DATE:

2005

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# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

June 22, 2005

Ms. Camille Reynolds  
Plains Pipeline  
3112 West Highway 82  
Lovington, NM 88260

Re: 2004 Annual Monitoring Report  
Texaco Skelly F Release Site  
SW/4 NW/4 of Section 21, Township 20 South, Range 37 East  
Lea County, New Mexico  
Plains EMS Number: 2002-11229  
NMOCD Reference 1R-0420

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the above report submitted on behalf of Plains Marketing, L.P. (Plains) by Nova Safety and Environmental and dated April 2005. This report is accepted with the following understandings and conditions:

1. Quarterly sampling and annual reporting will continue throughout 2005.
2. Product recovery will continue throughout 2005.
3. The "work plan", mentioned in the "Anticipated Actions" section of the report, has not been submitted to the NMOCD Santa Fe office for review. Please provide a copy of this work plan that describes the delineation activities that will take or have taken place at this site.
4. Plains may reduce the sampling frequency on monitor wells MW-1, MW-2, MW-3, MW-5 and MW-6 from quarterly to annually as long as these wells continue to show analytical results below applicable NMOCD regulatory standards.

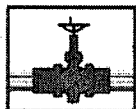
NMOCD acceptance does not relieve Plains of responsibility should its operations at this site prove to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other federal, state, or local governmental entity.

If you have any questions, contact me at (505) 476-3492 or [ed.martin@state.nm.us](mailto:ed.martin@state.nm.us)

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin  
Environmental Bureau

Cc: NMOCD, Hobbs



# PLAINS ALL AMERICAN

March 29, 2005

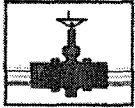
Mr. Ed Martin  
New Mexico Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

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

Dear Mr. Martin:

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:

LF-59	Section 32, Township 19 South, Range 37 East, Lea County
TNM 97-04	Section 11, Township 16 South, Range 35 East, Lea County
HDO 90-23	Section 06, Township 20 South, Range 37 East, Lea County
Darr Angell 2	Section 11, 14, Township 15 South, Range 37 East, Lea County
SPS 11	Section 18, Township 18 South, Range 36 East, Lea County
TNM 97-17	Section 21, Township 20 South, Range 37 East, Lea County
TNM 97-18	Section 28, Township 20 South, Range 37 East, Lea County
TNM 98-05A	Section 26, Township 21 South, Range 37 East, Lea County
Red Byrd # 1	Section 01, Township 20 South, Range 36 East, Lea County
Bob Durham	Section 31, 32, Township 19 South, Range 37 East, Lea County
Monument Site 11	Section 30, Township 19 South, Range 37 East, Lea County
Darr Angell 1	Section 11, Township 15 South, Range 37 East, Lea County
TNM 98-05B	Section 26, Township 21 South, Range 37 East, Lea County
Monument Site 2	Section 6, 7, Township 20 South, Range 37 East, Lea County
Monument Site 10	Section 32, Township 19 South, Range 37 East, Lea County
Monument Site 17	Section 29, Township 19 South, Range 37 East, Lea County
Monument Site 18	Section 07, Township 20 South, Range 37 East, Lea County
Monument Barber 10" PL	Section 32, Township 19 South, Range 37 East, Lea County
Darr Angell 4	Section 11, 02, Township 15 South, Range 37 East, Lea County
Monument to Lea 6"	Section 05, Township 20 South, Range 37 East, Lea County
<u>Texaco Skelly "F"</u>	Section 21, Township 20 South, Range 37 East, Lea County



## PLAINS ALL AMERICAN

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 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 21 facilities.

If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

*Camille Reynolds for CR*

Camille Reynolds  
Remediation Coordinator  
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

2004  
ANNUAL MONITORING REPORT

1R-420

**TEXACO SKELLY F**  
SW ¼ NW ¼ SECTION 21, TOWNSHIP 20 SOUTH, RANGE 37 EAST  
LEA COUNTY, NEW MEXICO  
PLAINS EMS NUMBER: 2002-11229

Prepared For:


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

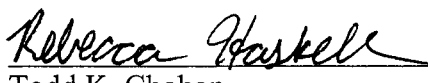


Prepared By:

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

April, 2005

  
Ryan Epley  
Geologist / Project Manager

  
Todd K. Choban  
Vice President Technical Services

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2B – Inferred Groundwater Gradient Map – May 17, 2004

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Figure 3A – Groundwater Concentration and Inferred PSH Extent Map – February 25, 2004

3B – Groundwater Concentration and Inferred PSH Extent Map – May 17, 2004

3C – Groundwater Concentration and Inferred PSH Extent Map – September 7, 2004

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### ENCLOSED ON DATA DISK

2004 Annual Monitoring Report

2004 Tables 1 and 2 - Groundwater Elevation and BTEX Concentration Data

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

Electronic Copies of Laboratory Reports

Historic Tables 1 and 2 - Groundwater Elevation and BTEX Concentration Tables

## **INTRODUCTION**

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1<sup>st</sup> 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 was previously managed by Environmental Technology Group, Inc (ETGI). The site, which was formerly operated by Enron Oil Trading and Transportation (EOTT), is now owned and operated by 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 2004 only. However, historic data tables as well as 2004 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 of four (4) quarters during 2004 to assess the levels and extent of dissolved phase and phase separated hydrocarbon (PSH) constituents. Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH atop 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 legal description of the site is SW ¼ NW ¼ 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. The pipeline was apparently repaired with a clamp. There was no information available documenting the discovery date, release volume or nature of line failure. No site excavation activities have been conducted onsite regarding this release. A Geoprobe® 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.

Six groundwater monitor wells (MW-1 through MW-6) and one product recovery well (RW-1) are currently onsite. Manual product recovery is now being conducted weekly from recovery well RW-1 and, when present, from monitor well MW-4. All monitor and product recovery wells are sampled on a quarterly schedule.

## **FIELD ACTIVITIES**

The site monitor wells were gauged and sampled on the following dates in 2004: February 25<sup>th</sup>, May 17<sup>th</sup>, September 7<sup>th</sup>, and December 21<sup>st</sup>. During each sampling event, sampled monitor wells were purged of approximately 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 obtained using disposable Teflon samplers. Water samples were



collected in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Key Energy of Hobbs, New Mexico utilizing a licensed disposal facility (NMOCD AO SWD-730). All wells are currently sampled on a quarterly basis.

Locations of the monitor wells and the inferred groundwater gradients, which were constructed from measurements collected during the four (4) quarterly events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2004 is provided as Table 1. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.002 ft./ft. to the south-southeast as measured between groundwater monitor well MW-1 and recovery well RW-1. This is consistent with data presented on Figures 2A through 2C from earlier in the year. Corrected groundwater elevations ranged between 3490.95 and 3,494.20 feet above mean sea level, in MW-4 on February 25, 2004 and MW-1 on December 21, 2004, respectively.

During each quarterly event, only recovery well RW-1 displayed a measurable thickness of PSH. A maximum depth of 2.19 feet in RW-1 was detected on February 25, 2004, which is recorded on Table 1 and Figure 3A. No other sampling locations displayed measurable thicknesses over 0.01 feet of PSH during the reporting period. Approximately 175 gallons of PSH has been recovered since project inception. Approximately 102 gallons of PSH was recovered from the site during the 2004 reporting period.

## **LABORATORY RESULTS**

Groundwater samples collected during the first three quarterly monitoring events were delivered to AnalySys Inc., Austin, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method SW846-8260b. Fourth quarter sample analysis was performed by Trace Analysis, Inc., of Lubbock, Texas for determination of BTEX constituent concentrations by EPA Method SW846-8021b. A listing of BTEX constituent concentrations for 2004 is summarized in Table 2 and copies of the laboratory reports for 2004 are provided on the enclosed disk. The inferred extent of PSH and groundwater sampling results for benzene and total BTEX concentrations are depicted on Figures 3A-3D, the Groundwater Concentration Maps.

Review of the laboratory results generated from analysis of the groundwater samples obtained during this annual reporting period indicate a benzene concentration above the applicable NMOCD regulatory standards in monitor well MW-4 only. The total BTEX constituent concentration displayed by this sample was below the applicable NMOCD regulatory standard. Review of the laboratory analytical results of the groundwater samples obtained during this annual reporting period from monitor wells MW-1, MW-2, MW-3, MW-5 and MW-6 indicate both benzene and BTEX constituent concentrations remain below the applicable NMOCD regulatory 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 2004 annual monitoring period. Six groundwater monitor wells (MW-1 through MW-6) and one product recovery well (RW-1) are currently onsite. Manual product recovery is now being conducted weekly from recovery well RW-1 and, when present, from monitor well MW-4. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.002 ft./ft. to the south-southeast.

As discussed above, only recovery well RW-1 displayed measurable thicknesses of PSH during each gauging event of the reporting period. No other sampling location displayed measurable thicknesses over 0.01 feet during the reporting period. Approximately eight (8) gallons of PSH has been recovered from the site during the reporting period, with approximately forty-nine (49) gallons of PSH having been recovered from the site since project inception in January of 2003. At this time, PSH impact appears to be limited to RW-1.

Review of the laboratory analytical results of the groundwater samples obtained during this annual reporting period indicate benzene and total BTEX concentrations are below the applicable NMOCD regulatory standards in five (5) of the seven (7) monitor and recovery wells on site. RW-1 consistently displayed measurable thicknesses of PSH during the reporting period. Additionally, the dissolved phase benzene concentration in two (2) of the four (4) quarterly samples collected from MW-4 has been above the NMOCD regulatory standard.

Given the results of both gauging and sampling events, dissolved phase impact above the applicable NMOCD regulatory standard appears to be limited to the area bounded by monitor well MW-4 and recovery well RW-1 at this time. No trends with respect to changing dissolved phase impact are apparent from the analytical data.

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

## ANTICIPATED ACTIONS

Additional site delineation is required with respect to the occurrence of PSH and dissolved phase constituents in groundwater. A work plan is currently in place to further delineate the extent of impact to the northern and southern portions of the site with the installation of one additional monitor well and one additional recovery well. It is anticipated that drilling will commence in the Spring of 2005.

Plains requests permission from the NMOCD to reduce the sampling schedule from quarterly to annually for monitor wells MW-1, MW-2, MW-3, MW-5, and MW-6. None of these monitor wells has ever reported groundwater analytical results in excess of the applicable NMOCD regulatory standards since project inception.

## **LIMITATIONS**

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

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

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

## DISTRIBUTION

- Copy 1      Ed Martin  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505
- Copy 2:      Paul Sheeley and Larry Johnson  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division, District 1  
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Copy Number:

# Tables

**TABLE 1**  
**GROUNDWATER ELEVATION DATA FOR 2004**

**PLAINS MARKETING, L.P.**  
**TEXACO SKELLY F**  
**LEA COUNTY, NM**

Well Number	Date Measured	Top of Casing Elevation	Depth to Product	Depth to Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	02/25/04	3,521.04	-	28.51	0.00	3,492.53
2"	05/17/04	3,521.04	-	27.57	0.00	3,493.47
	09/07/04	3,521.04	-	27.97	0.00	3,493.07
	12/21/04	3,521.04	-	26.84	0.00	3,494.20
MW - 2	02/25/04	3,518.80	-	26.65	0.00	3,492.15
2"	05/17/04	3,518.80	-	25.70	0.00	3,493.10
	09/07/04	3,518.80	-	26.05	0.00	3,492.75
	12/21/04	3,518.80	-	24.83	0.00	3,493.97
MW - 3	02/25/04	3,520.52	-	28.59	0.00	3,491.93
2"	05/17/04	3,520.52	-	27.62	0.00	3,492.90
	09/07/04	3,520.52	-	27.98	0.00	3,492.54
	12/21/04	3,520.52	-	26.70	0.00	3,493.82
MW - 4	02/20/04	3,519.91	29.05	29.25	0.20	3,490.83
2"	02/23/04	3,519.91	-	29.28	0.00	3,490.63
	02/25/04	3,519.91	-	28.96	0.00	3,490.95
	04/07/04	3,519.91	29.13	29.35	0.22	3,490.75
	04/12/04	3,519.91	29.05	29.06	0.01	3,490.86
	04/15/04	3,519.91	-	29.04	0.00	3,490.87
	04/19/04	3,519.91	-	28.34	0.00	3,491.57
	05/17/04	3,519.91	-	28.05	0.00	3,491.86
	06/15/04	3,519.91	sheen	28.13	0.00	3,491.78
	06/21/04	3,519.91	sheen	28.20	0.00	3,491.71
	06/28/04	3,519.91	sheen	28.24	0.00	3,491.67
	07/07/04	3,519.91		28.25	0.00	3,491.66
	07/14/04	3,519.91	sheen	28.15	0.00	3,491.76
	08/11/04	3,519.91	-	28.26	0.00	3,491.65
	08/16/04	3,519.91	28.30	28.31	0.01	3,491.61
	09/07/04	3,519.91	-	28.41	0.00	3,491.50
	12/21/04	3,519.91	-	27.15	0.00	3,492.76
MW - 5	02/25/04	3,519.62	-	27.31	0.00	3,492.31
2"	05/17/04	3,519.62	-	26.43	0.00	3,493.19
	09/07/04	3,519.62	-	26.83	0.00	3,492.79
	12/21/04	3,519.62	-	25.68	0.00	3,493.94
MW - 6	02/25/04	3,520.71	-	28.63	0.00	3,492.08
2"	05/17/04	3,520.71	-	27.70	0.00	3,493.01
	09/07/04	3,520.71	-	28.09	0.00	3,492.62
	12/21/04	3,520.71	-	26.87	0.00	3,493.84
RW - 1	02/18/04	3,519.68	27.37	29.74	2.37	3,491.95
2"	02/23/04	3,519.68	27.56	28.83	1.27	3,491.93
	02/25/04	3,519.68	27.19	29.38	2.19	3,492.16
	03/03/04	3,519.68	27.53	28.83	1.30	3,491.96
	03/11/04	3,519.68	27.29	29.64	2.35	3,492.04
RW - 1	03/15/04	3,519.68	27.21	29.62	2.41	3,492.11

**TABLE 1**  
**GROUNDWATER ELEVATION DATA FOR 2004**

**PLAINS MARKETING, L.P.**  
**TEXACO SKELLY F**  
**LEA COUNTY, NM**

Well Number	Date Measured	Top of Casing Elevation	Depth to Product	Depth to Water	PSH Thickness	Corrected Groundwater Elevation
2"	03/17/04	3,519.68	27.61	29.47	1.86	3,491.79
	03/22/04	3,519.68	27.54	29.61	2.07	3,491.83
	03/24/04	3,519.68	26.99	28.91	1.92	3,492.40
	03/29/04	3,519.68	27.55	29.29	1.74	3,491.87
	03/31/04	3,519.68	27.59	29.26	1.67	3,491.84
	04/07/04	3,519.68	27.55	28.63	1.08	3,491.97
	04/12/04	3,519.68	27.44	28.78	1.34	3,492.04
	04/15/04	3,519.68	27.41	28.31	0.90	3,492.14
	04/19/04	3,519.68	26.72	27.36	0.64	3,492.86
	05/03/04	3,519.68	26.81	27.40	0.59	3,492.78
	05/11/04	3,519.68	26.92	27.24	0.32	3,492.71
	05/17/04	3,519.68	26.52	26.64	0.12	3,493.14
	06/03/04	3,519.68	26.53	26.66	0.13	3,493.13
	06/07/04	3,519.68	26.52	26.62	0.10	3,493.15
	06/15/04	3,519.68	26.62	26.72	0.10	3,493.05
	06/21/04	3,519.68	26.60	26.90	0.30	3,493.04
	06/28/04	3,519.68	26.58	27.04	0.46	3,493.03
	07/07/04	3,519.68	26.57	27.04	0.47	3,493.04
	07/14/04	3,519.68	26.57	27.23	0.66	3,493.01
	08/11/04	3,519.68	26.58	28.14	1.56	3,492.87
	08/16/04	3,519.68	26.61	28.23	1.62	3,492.83
	09/07/04	3,519.68	26.65	28.80	2.15	3,492.71
	09/20/04	3,519.68	26.65	28.80	2.15	3,492.71
	10/08/04	3,519.68	26.60	28.78	2.18	3,492.75
	10/14/04	3,519.68	26.31	28.60	2.29	3,493.03
	10/18/04	3,519.68	26.31	28.60	2.29	3,493.03
	10/20/04	3,519.68	26.32	27.45	1.13	3,493.19
	10/28/04	3,519.68	26.44	27.51	1.07	3,493.08
	11/04/04	3,519.68	26.17	27.75	1.58	3,493.27
	11/17/04	3,519.68	26.41	27.49	1.08	3,493.11
	12/06/04	3,519.68	26.01	27.10	1.09	3,493.51
	12/21/04	3,519.68	25.50	27.40	1.90	3,493.90
	12/29/04	3,519.68	26.24	26.87	0.63	3,493.35

*Note : NM denotes parameter not measured due to site access restrictions imposed by landowner.*

*Note: Elevations based on the North American Vertical Datum of 1929.*

TABLE 2

## CONCENTRATIONS OF BTEX IN GROUNDWATER FOR 2004

PLAINS MARKETING, L.P.  
 TEXACO SKELLY "F"  
 LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA Method SW 846-8021B				
		BENZENE	TOLUENE	ETHYL-BENZENE	m - p XYLENES	o - XYLENE
NMOCD Regulatory Limit		0.01	0.75	0.75	Total XYLENES 0.62	
MW - 1	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/21/04	<0.001	<0.001	<0.001	<0.001	
MW - 2	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/21/04	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/21/04	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/25/04	0.021	<0.001	0.018	0.003	0.003
	05/17/04	0.00537	<0.001	0.01	0.00528	0.00292
	09/07/04	0.00552	<0.001	0.00957	0.00539	0.00342
	12/21/04	0.0255	0.002	0.0273	0.0194	
MW - 5	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/21/04	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/25/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/17/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/21/04	<0.001	<0.001	<0.001	<0.001	

Note : NS denotes well not sampled due to site access restrictions imposed by landowner.

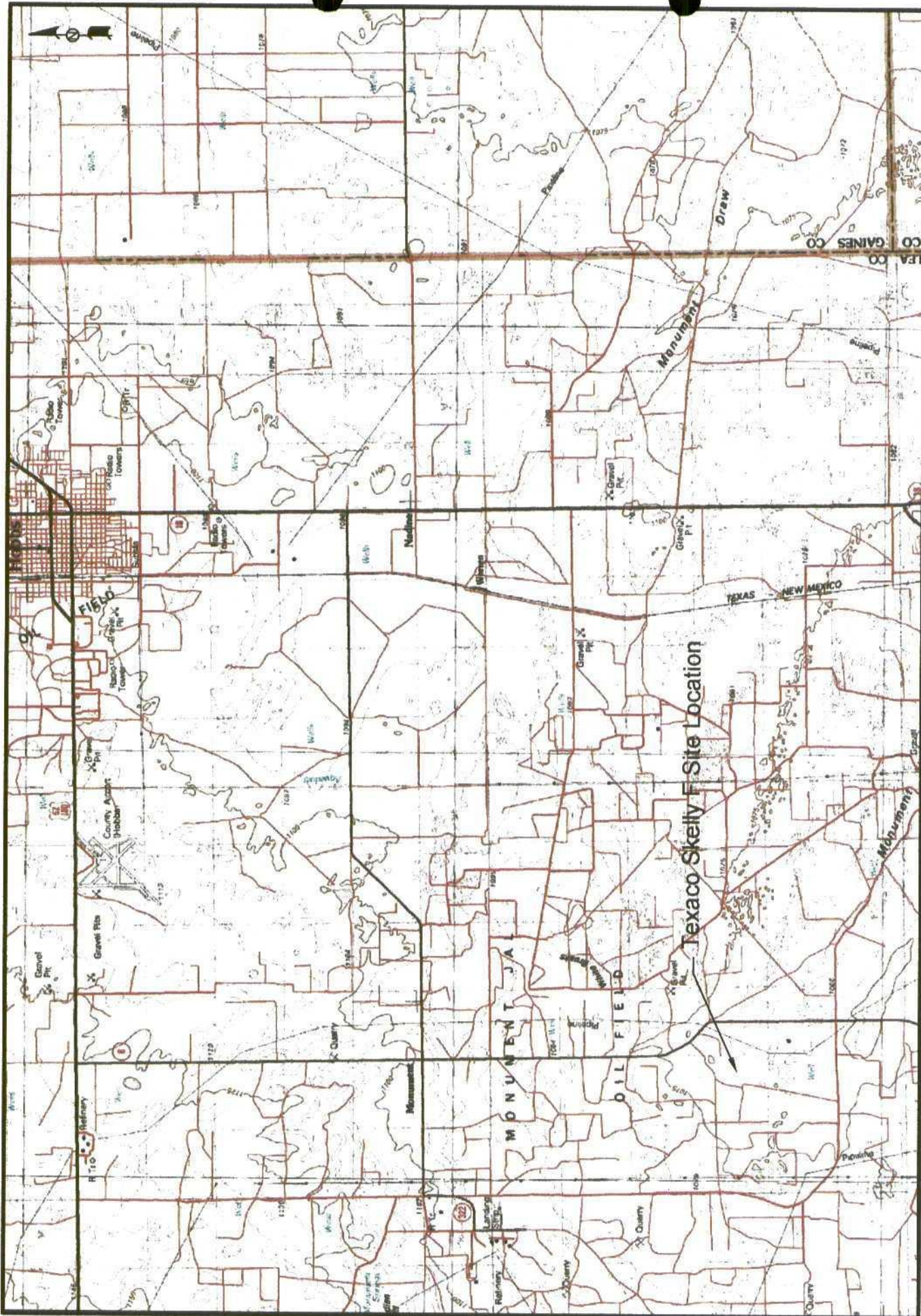
EB-1 denotes equipment blank collected on sampling date.

Concentrations in **BOLD** are above the applicable NMOCD Regulatory Standard.



# 2004 Laboratory Reports

# Figures



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



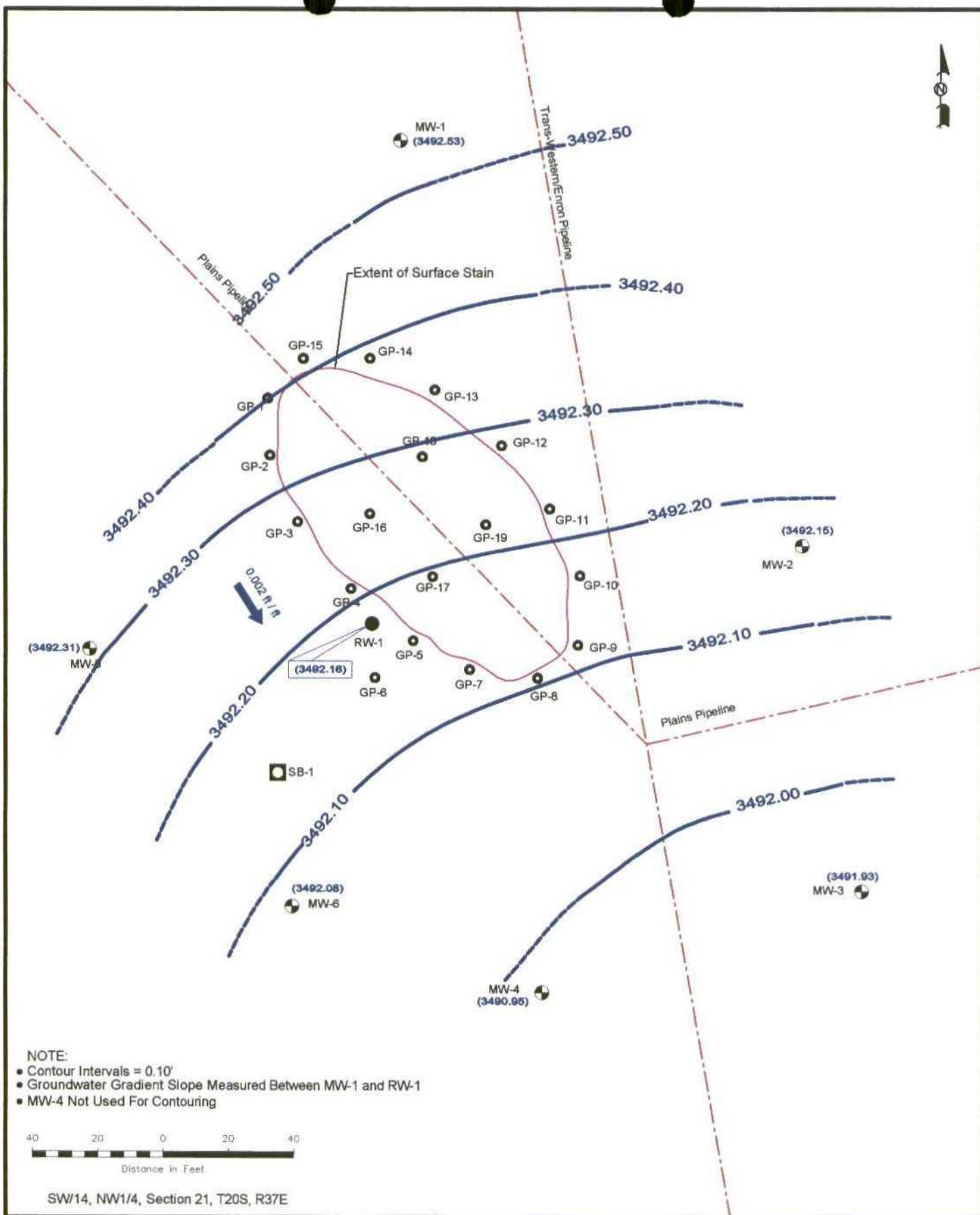
Figure 1  
Site Location Map  
Plains Marketing, L.P.  
Texaco Skelly F  
Lea County, NM

NOVA Safety and Environmental



February 15, 2005  
Scale: 1" = 0.1 Miles  
Prep By: DPM  
Checked By: MRE





Legend:

- GeoProbe® Sample Location
- Monitor Well Location
- (3492.08) Groundwater Elevation
- 0.002 ft/ft Groundwater Gradient Direction & Magnitude
- Soil Boring Location
- Groundwater Elevation Contour Line

Figure 2A  
Inferred Groundwater  
Gradient Map  
(2/25/04)  
Plains Marketing, L.P.  
Texaco Skelly "E" Site  
Lea County, NM

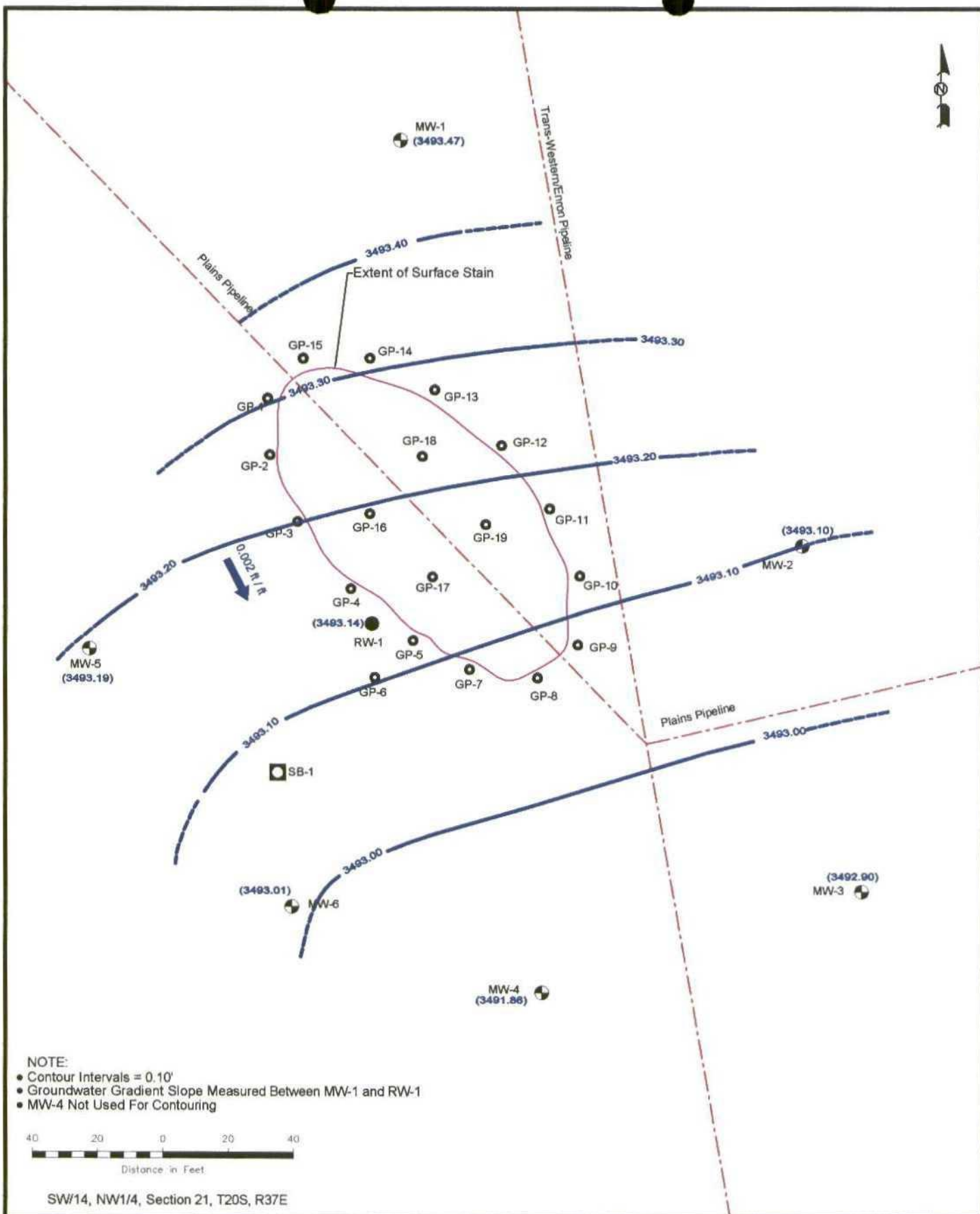
NOVA Safety and Environmental



February 1, 2005 Scale: 1" = 40'

Prep By: DPM

Checked By: MRE



Legend:

- GeoProbe® Sample Location
- Monitor Well Location
- (3493.10) Groundwater Elevation

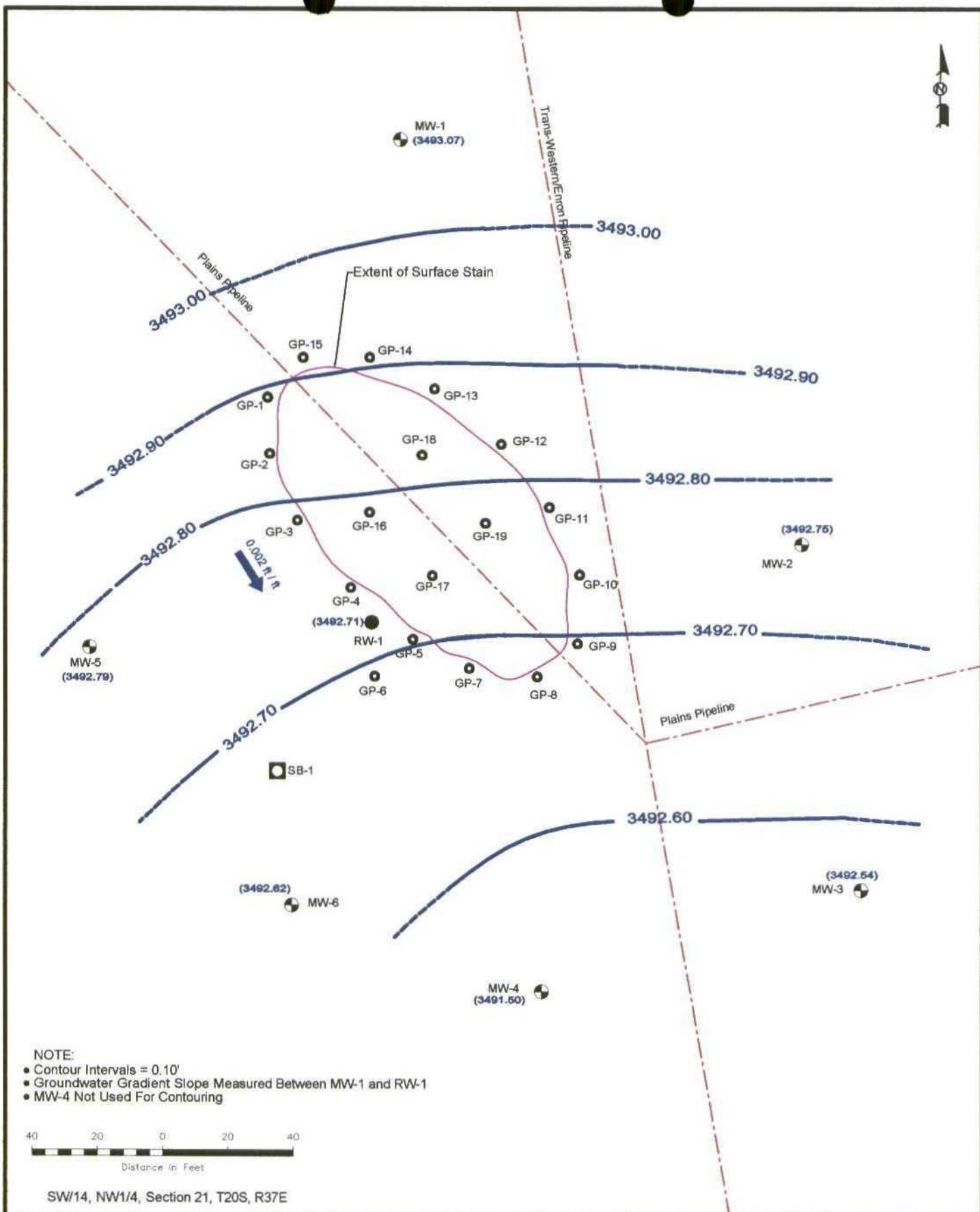
- 0.002 ft/ft Groundwater Gradient Direction & Magnitude
- Soil Boring Location
- Groundwater Elevation Contour Line

Figure 2B  
Inferred Groundwater  
Gradient Map  
(6/17/04)  
Plains Marketing, L.P.  
Texaco Skelly "F" Site  
Lea County, NM

NOVA Safety and Environmental



January 31, 2005	Scale: 1" = 40'	Prep By: OPM
		Checked By: MRE



- Legend:**
- GeoProbe® Sample Location
  - Monitor Well Location
  - (3492.54) Groundwater Elevation
  - Groundwater Gradient Direction & Magnitude
  - Soil Boring Location
  - Groundwater Elevation Contour Line

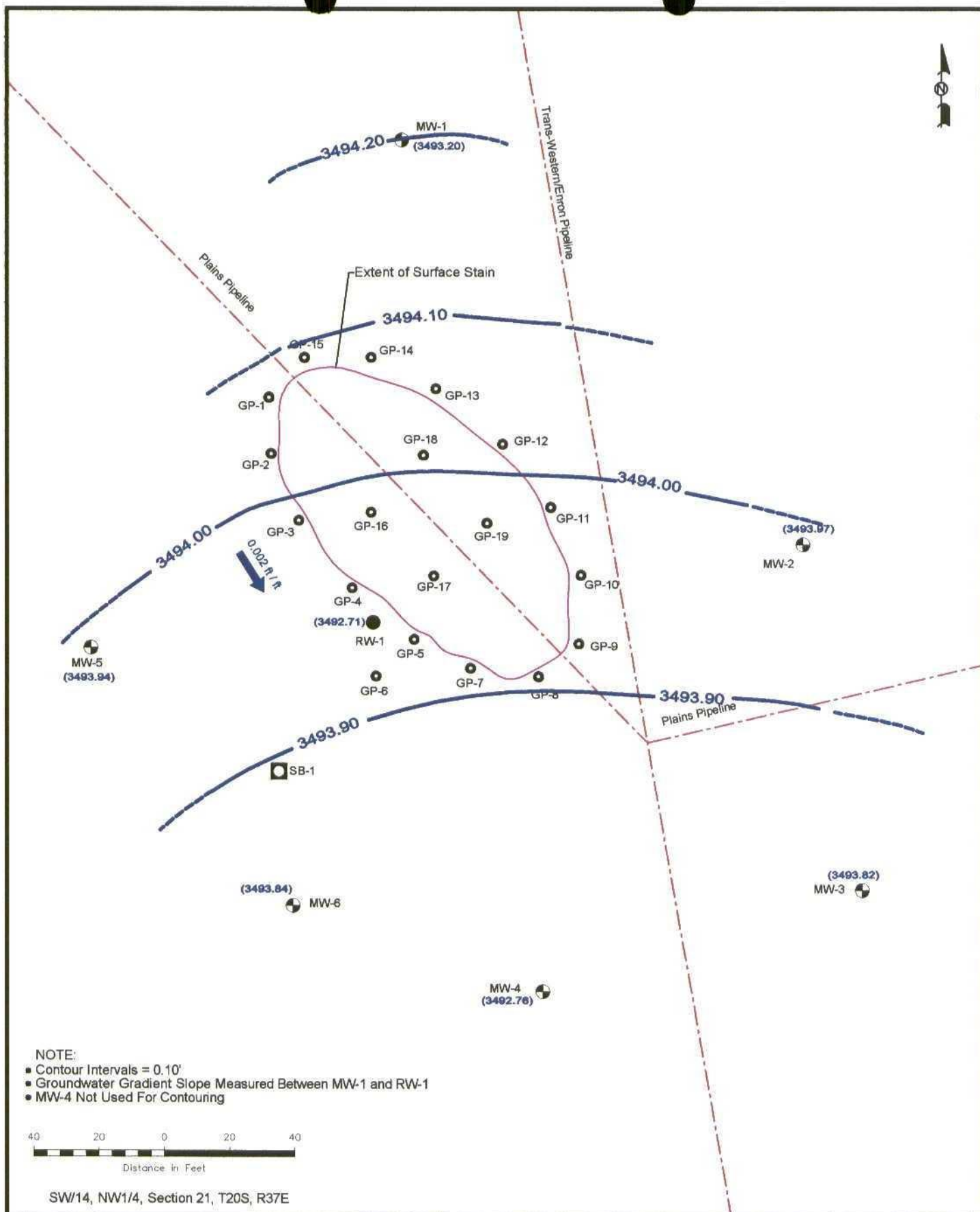
**Figure 2C**  
**Inferred Groundwater**  
**Gradient Map**  
 (9/7/04)  
 Plains Marketing, L.P.  
 Texaco Skelly "F" Site  
 Lea County, NM

**NOVA Safety and Environmental**



February 1, 2005 Scale: 1" = 40' Prep By: DPM  
 Checked By: MRE





**NOTE:**

- Contour Intervals = 0.10'
- Groundwater Gradient Slope Measured Between MW-1 and RW-1
- MW-4 Not Used For Contouring



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

**Legend:**

- |  |                           |  |  |
|--|---------------------------|--|--|
|  | GeoProbe® Sample Location |  | Groundwater Gradient Direction & Magnitude |
|  | Monitor Well Location     |  | Soil Boring Location                       |
|  | Groundwater Elevation     |  | Groundwater Elevation Contour Line         |

**Figure 2D**  
**Inferred Groundwater**  
**Gradient Map**  
 (12/21/04)  
 Plains Marketing, L.P.  
 Texaco Skelly "F" Site  
 Lea County, NM

**NOVA Safety and Environmental**



February 7, 2005	Scale: 1" = 40'	Prep By: DPM
		Checked By: MRE

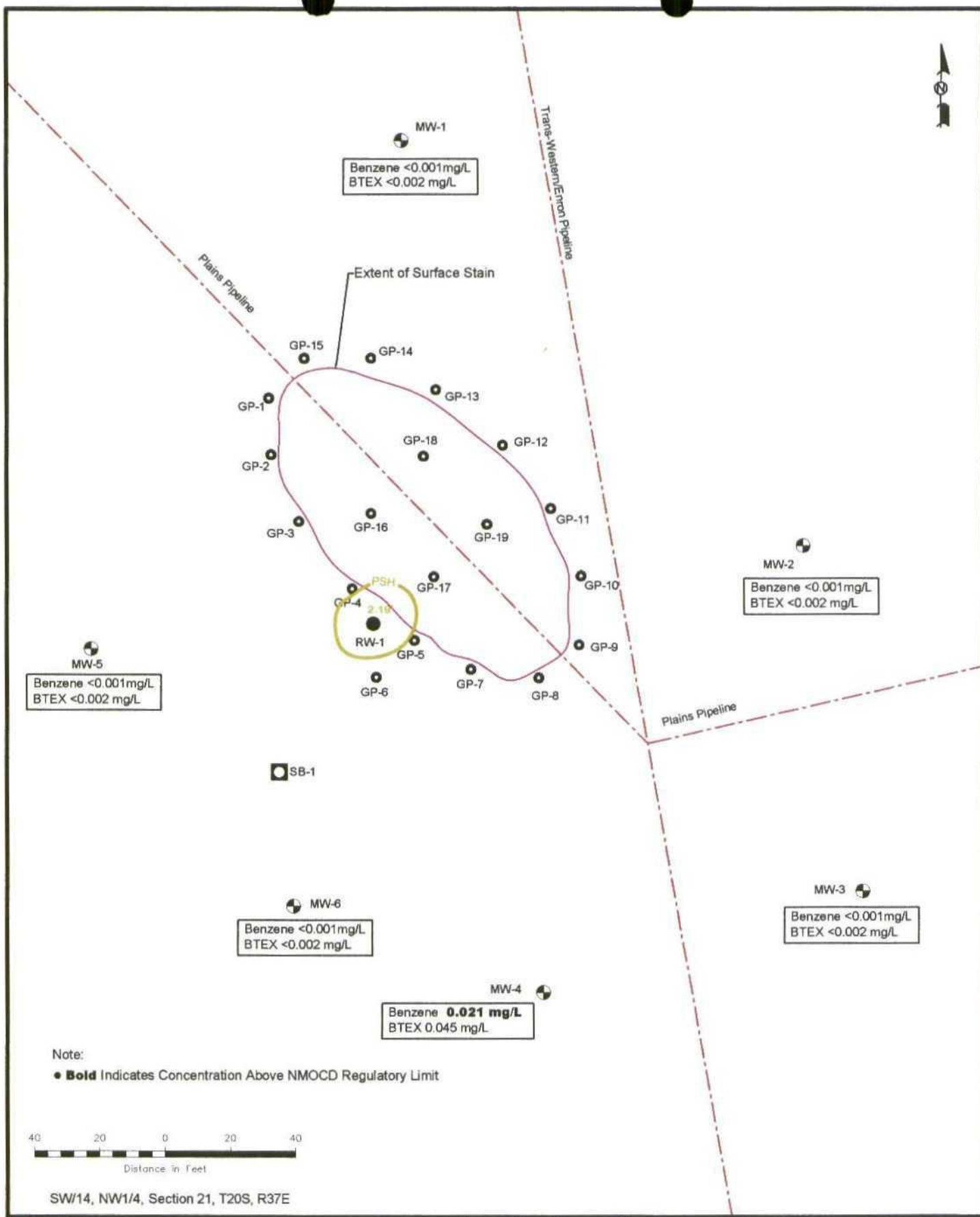


Figure 3A  
Groundwater Concentration  
and Inferred PSH Extent  
Map (2/25/04)  
Plains Pipeline, L.P.  
Texaco Skelly "F" Site  
Lea County, NM

NOVA Safety and Environmental



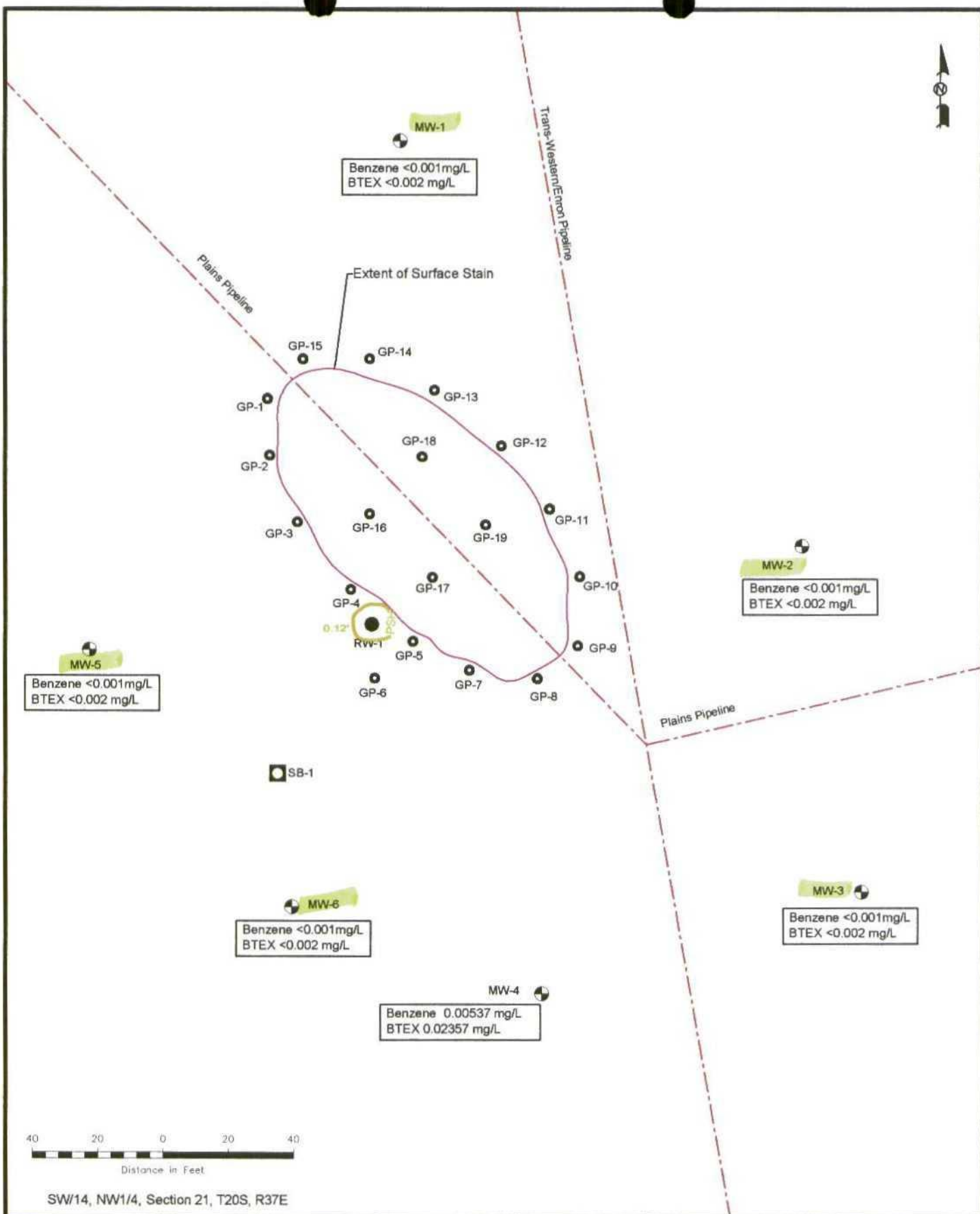
February 8, 2005

Scale: 1" = 40'

Prep By: DPM

Checked By: MRE





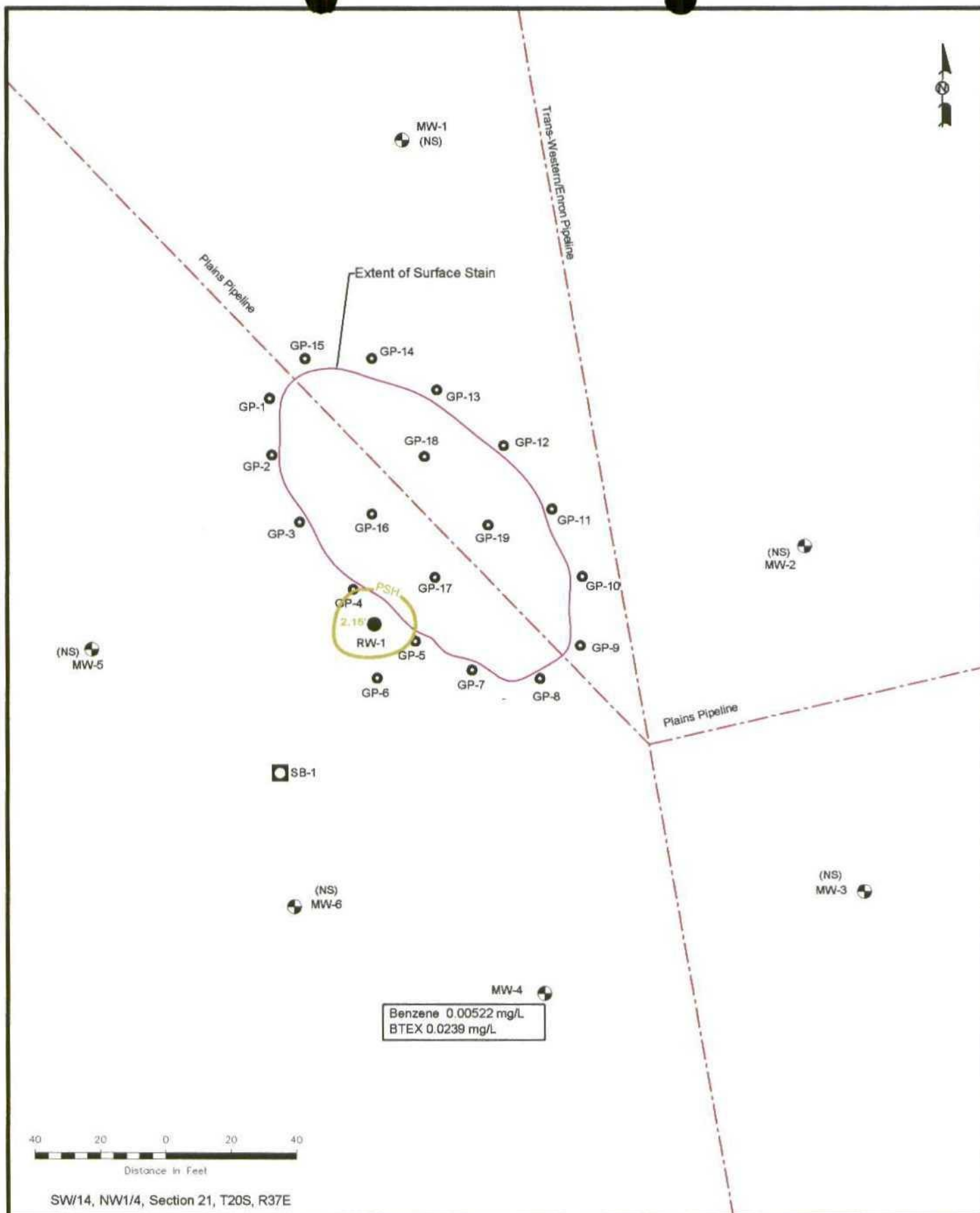
NOVA Safety and Environmental

February 8, 2005

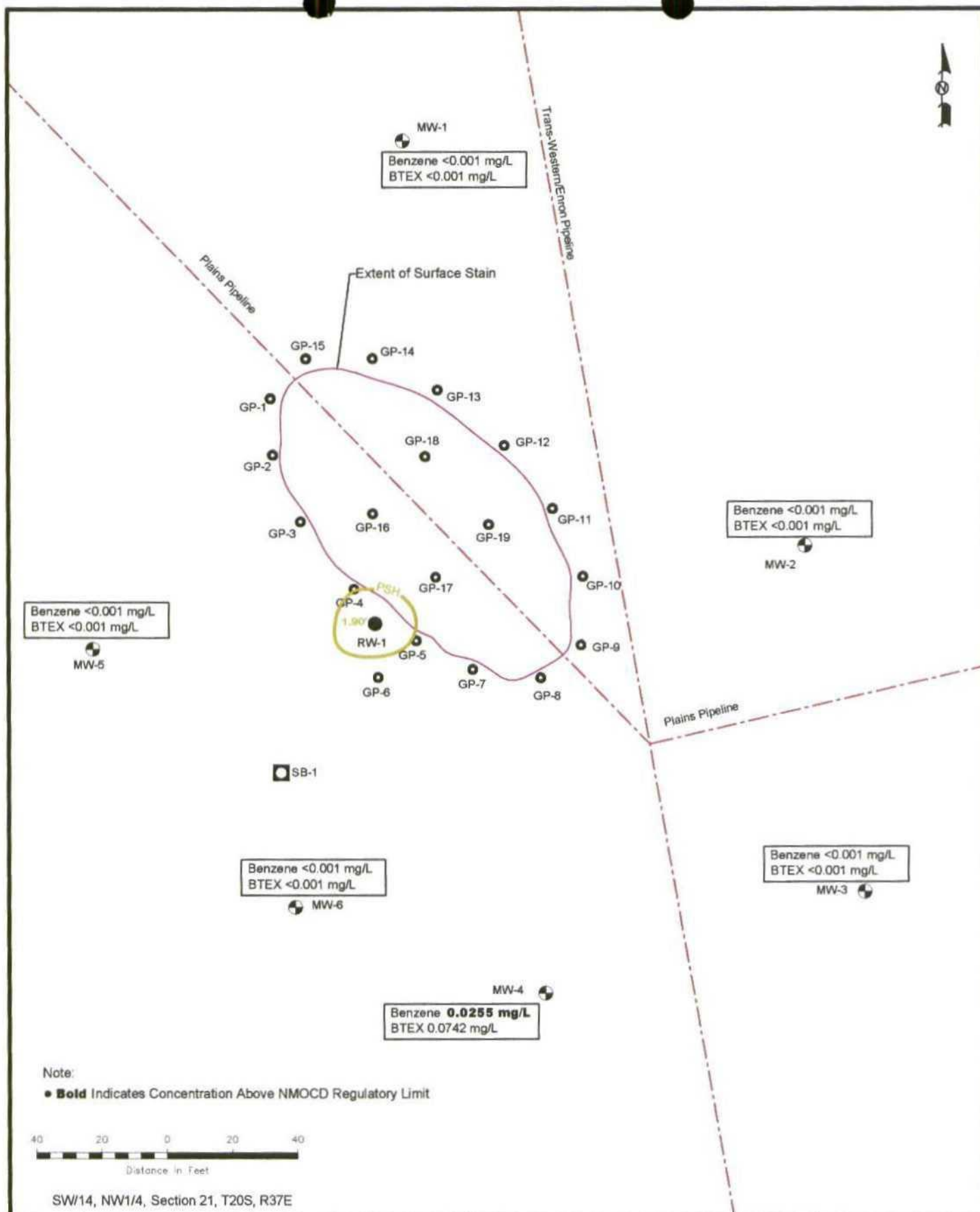
Scale: 1" = 40'

Prep By: DPM

Checked By: MRE



Benzene 0.00522 mg/L  
BTEX 0.0239 mg/L



Legend:

- GeoProbe® Sample Location
- Monitor Well Location
- <0.001 Constituent Concentration (mg/L)
- Product Recovery Well
- Inferred Extent of PSH
- Depth of PSH (feet)

Figure 3D  
 Groundwater Concentration  
 and Inferred PSH Extent  
 Map (12/21/04)  
 Plains Pipeline, L.P.  
 Texaco Skelly "F" Site  
 Lea County, NM

NOVA Safety and Environmental



February 8, 2005 Scale: 1" = 40' Prep By: DPM  
 Checked By: MRE

# Appendices

Appendix A  
Notification of Release and Corrective  
Action

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

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

Form C-141  
Revised October 10, 2003

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

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

Attach Additional Sheets If Necessary