

1R - 420

REPORTS

DATE:

11-6-09



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Environmental Bureau
Oil Conservation Division

November 6, 2009

Mr. Ed Hansen
New Mexico Oil Conservation Division
1220 South Francis Drive
Santa Fe, New Mexico 87505

Re: Plains Marketing, L.P. Texaco Skelly F (Plains SRS # 2002-11229
Solar Recovery System Summary - Third Quarter 2009
NMOCD Reference # 1R-0420
Unit Letter-E (SW1/4 of the NW1/4), Section 21, T20S, R37E
Lea County, New Mexico

Dear Mr. Hansen:

NOVA Safety and Environmental (NOVA), on behalf of Plains Marketing, L.P. (Plains) is submitting this letter report summarizing the progress of the PSH solar recovery system operating at the above referenced site during the third quarter of 2009.

Remediation Activities

Manual PSH recovery was conducted on monitor well MW-8 and recovery well RW-1 in conjunction with the solar recovery efforts conducted in Recovery well RW-2. PSH thicknesses in MW-8 averaged approximately 0.64 feet and approximately 21 gallons (0.5 barrels) of PSH was recovered during the 3rd quarter of 2009. PSH thicknesses in RW-1 averaged approximately 0.35 feet and approximately 37.5 gallons (0.9 barrels) of PSH was recovered during the 3rd quarter of 2009.

The solar recovery system installed in Recovery Well RW-2 utilizes a total fluids pump to recover phase separated hydrocarbons (PSH) and inhibit migration of the PSH plume. The total fluids pump is powered by two 12 volt solar panels and a 12 volt wind turbine generator maintaining charge on a marine 12 volt battery. The pump is operated on a cycle of approximately 15 minutes every 12 hours at an average pumping rate of approximately 2 gallons per minute (gpm). Pumping rates along with pump position within the well have been adjusted periodically to minimize the volume of water and maximize the volume of PSH recovered. PSH thicknesses in RW-2 averaged approximately 0.78 feet, and approximately 32.5 gallons (0.78 barrels) of PSH was recovered during the 3rd quarter of 2009. The monthly recovery for the site averaged approximately 30 gallons (0.7 barrels) per month during the 3rd quarter. A summary of the historical gauging and recovery data is presented Table 1. Chart 1 through Chart 3 demonstrate the PSH thicknesses in MW-8, RW-1 and RW-2 during the 3rd quarter of 2009.

All recovered fluids are properly disposed at the Cooper Disposal Facility located approximately 2 miles south of the Texaco Skelly F site.

If you have any questions, or if additional information is needed, please feel free to call us at 432-520-7720 or 432-894-7166.

Thank you,

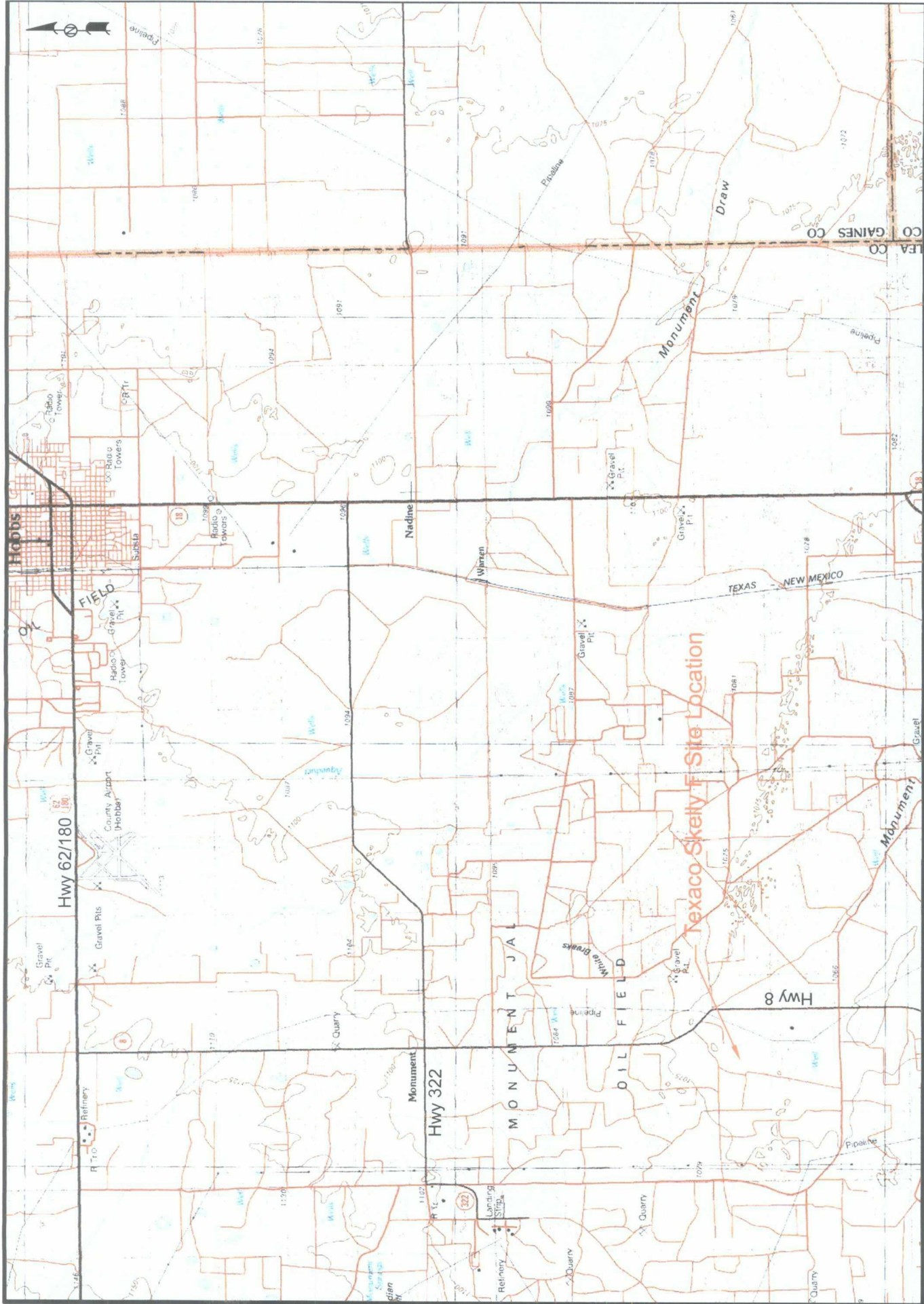
A handwritten signature in black ink, appearing to read "Ronald Rounsaville".

Ronald K. Rounsaville
Senior Project Manager
NOVA Safety and Environmental

Attachments:

Figure 1 – Site Location Map
Figure 2 – Inferred Groundwater Gradient Map
Figure 3 – Groundwater Concentration and Inferred PSH Extent Map
Table 1 – Monthly PSH Recovery Data
Chart 1 – PSH Thickness MW-8
Chart 2 – PSH Thickness RW-1
Chart 3 – PSH Thickness RW-2

FIGURES



SW 1/4 NW 1/4 Section 21, T20S, R37E

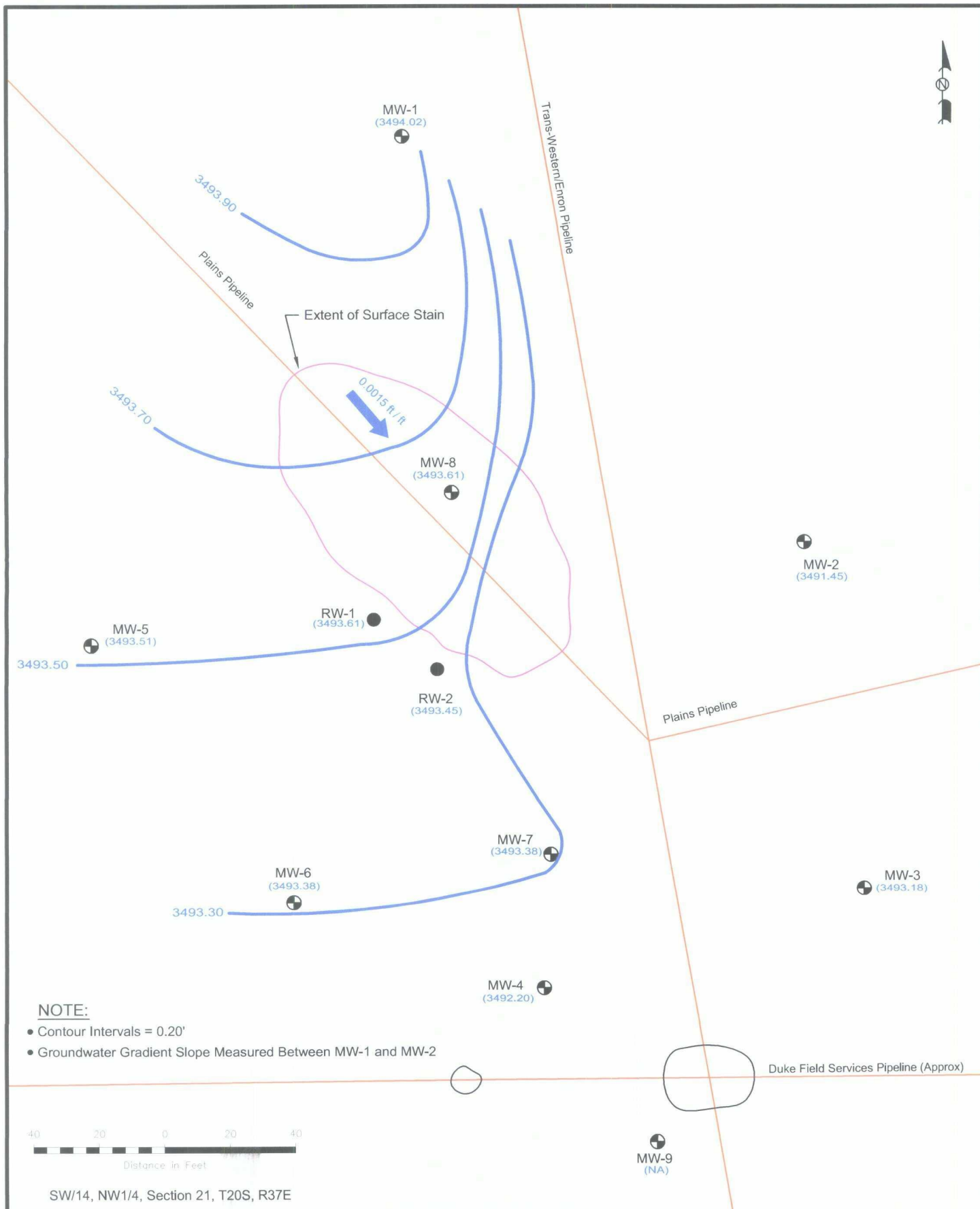
NMOC Reference # 1R-0420

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

NOVA Safety and Environmental



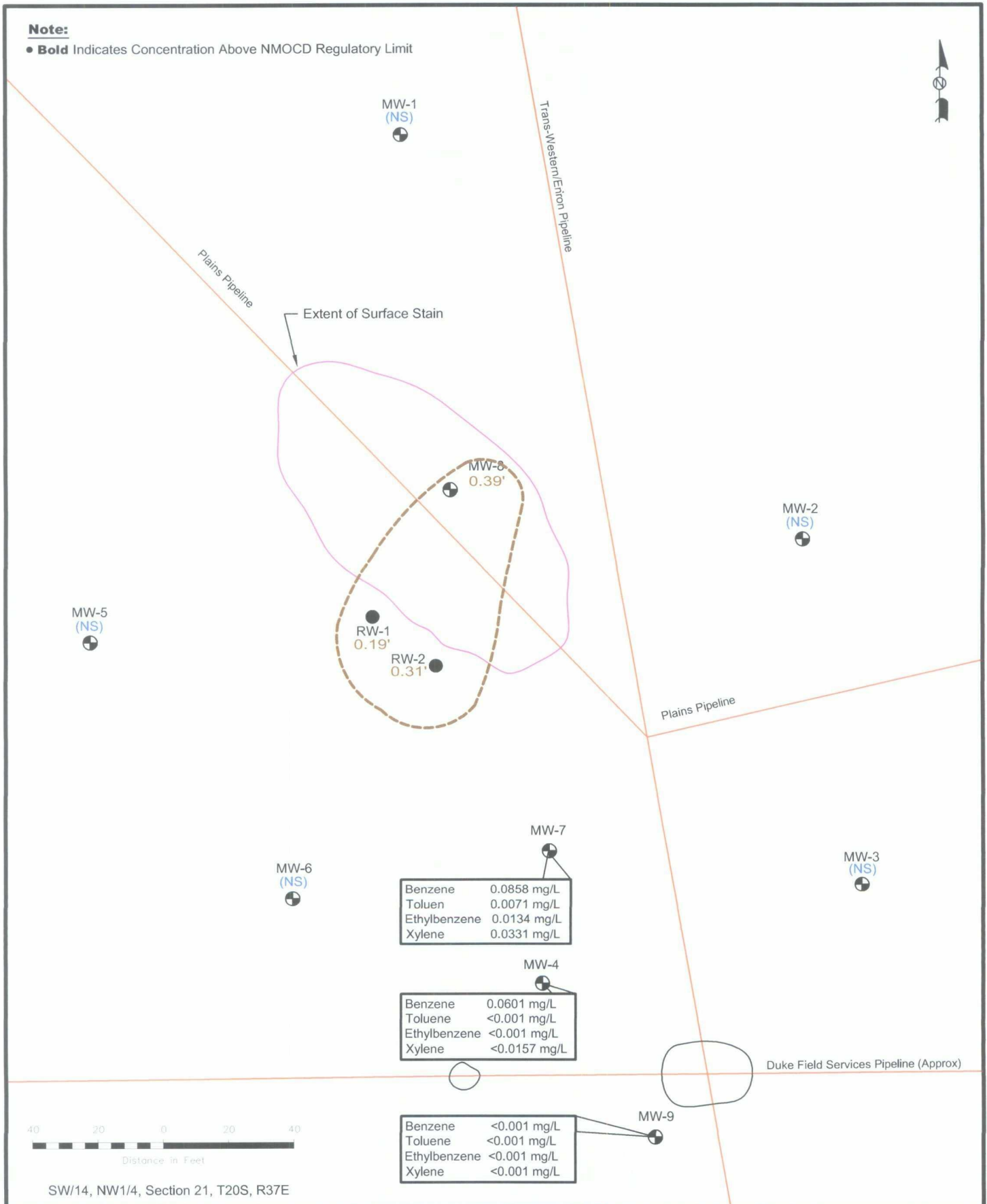
February 15, 2005
Scale: 1" = 6 Miles
Prep By: DPM
Checked By: MRE



Legend: Monitor Well Location (3492.54) Groundwater Elevation 0.002 ft / ft Groundwater Gradient Direction & Magnitude Groundwater Elevation Contour Line	Figure 2 Inferred Groundwater Gradient Map (08/04/09) Plains Marketing, L.P. Texaco Skelly "F" Site Lea County, NM NMOCD Ref# 1R-0420	NOVA Safety and Environmental safety and environmental <table border="1"> <tr> <td>October 14, 2009</td> <td>Scale: 1" = 40'</td> <td>CAD By: SAT</td> </tr> <tr> <td colspan="2"></td> <td>Checked By: RKR</td> </tr> </table>	October 14, 2009	Scale: 1" = 40'	CAD By: SAT			Checked By: RKR
October 14, 2009	Scale: 1" = 40'	CAD By: SAT						
		Checked By: RKR						

Note:

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



Legend:

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

Figure 3
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
www.novasafetyandenvironmental.com

Scale: 1" = 40'	CAD By: SAT	Checked By: RKR
October 14, 2009	N 31° 25.326	W 102° 19.435

TABLES

TABLE 1

MONTHLY PSH RECOVERY DATA - JULY 2009

PLAINS MARKETING, L.P.
 TEXACO SKELLY F
 LEA COUNTY, NEW MEXICO
 SRS# 2002-11229

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS (Feet)	CORRECTED GROUNDWATER ELEVATION	OIL RECOVERED (Gallons)	WATER RECOVERED (Gallons)
MW-8	07/01/09	3519.78	25.86	26.11	0.25	3493.88	1.00	5
MW-8	07/08/09	3519.78	25.91	26.91	1.00	3493.72	4.00	4
MW-8	07/10/09	3519.78	25.98	26.51	0.53	3493.72	0.00	5
MW-8	07/14/09	3519.78	26.04	26.68	0.64	3493.64	0.25	15
MW-8	07/15/09	3519.78	26.08	26.45	0.37	3493.64	0.25	10
MW-8	07/24/09	3519.78	26.10	27.03	0.93	3493.54	0.50	3
MW-8	07/27/09	3519.78	26.14	26.79	0.65	3493.54	1.50	10
MW-8	07/31/09	3519.78	26.10	26.58	0.48	3493.61	0.75	10
		TOTAL VOLUME OF PSH AND WATER RECOVERED - JULY 2009						62.00
RW-1	07/01/09	3519.68	25.94	26.04	0.10	3493.73	5.00	20
RW-1	07/08/09	3519.68	25.96	26.41	0.45	3493.65	4.00	15
RW-1	07/10/09	3519.68	25.98	26.08	0.10	3493.69	0.00	10
RW-1	07/14/09	3519.68	26.10	26.42	0.32	3493.53	1.50	7
RW-1	07/15/09	3519.68	26.21	26.34	0.13	3493.45	0.50	35
RW-1	07/24/09	3519.68	26.13	26.28	0.15	3493.53	1.25	4
RW-1	07/27/09	3519.68	26.20	26.59	0.39	3493.42	2.00	15
RW-1	07/31/09	3519.68	26.09	26.45	0.36	3493.54	1.50	10
		TOTAL VOLUME OF PSH AND WATER RECOVERED - JULY 2009						116.00
RW-2	07/01/09	3520.24	26.50	27.84	1.34	3493.54	0.00	0
RW-2	07/08/09	3520.24	26.43	28.02	1.59	3493.57	7.00	21
RW-2	07/10/09	3520.24	26.54	27.90	1.36	3493.50	0.00	10
RW-2	07/14/09	3520.24	26.62	27.60	0.98	3493.47	3.00	20
RW-2	07/15/09	3520.24	26.72	27.08	0.36	3493.47	1.00	25
RW-2	07/24/09	3520.24	26.77	27.31	0.54	3493.39	1.00	25
RW-2	07/27/09	3520.24	26.87	27.09	0.22	3493.34	0.00	0
RW-2	07/31/09	3520.24	26.67	27.75	1.08	3493.41	3.00	10
		TOTAL VOLUME OF PSH AND WATER RECOVERED - JULY 2009						111.00

CUMULATIVE TOTAL OF PSH RECOVERED - JULY 2009 (Gallons)

39.00

289.00

TABLE 1

MONTHLY PSH RECOVERY DATA - AUGUST 2009

PLAINS MARKETING, L.P.
 TEXACO SKELLY F
 LEA COUNTY, NEW MEXICO
 SRS# 2002-11229

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS (Feet)	CORRECTED GROUNDWATER ELEVATION	OIL RECOVERED (Gallons)	WATER RECOVERED (Gallons)
MW-8	08/03/09	3519.78	26.12	26.68	0.56	3493.58	0.25	35
MW-8	08/04/09	3519.78	26.11	26.50	0.39	3493.61	0.00	0
MW-8	08/07/09	3519.78	26.18	26.85	0.67	3493.50	1.50	10
MW-8	08/10/09	3519.78	26.22	26.80	0.58	3493.47	1.00	20
MW-8	08/17/09	3519.78	26.26	27.02	0.76	3493.41	0.25	10
MW-8	08/21/09	3519.78	26.31	26.93	0.62	3493.38	0.25	10
MW-8	08/25/09	3519.78	26.39	27.02	0.63	3493.30	1.50	10
		TOTAL VOLUME OF PSH AND WATER RECOVERED - AUGUST 2009					4.75	95.00
RW - 1	08/03/09	3519.68	26.09	26.60	0.51	3493.51	1.50	10
RW - 1	08/04/09	3519.68	26.04	26.23	0.19	3493.61	0.00	0
RW - 1	08/07/09	3519.68	26.15	26.28	0.13	3493.51	2.00	10
RW - 1	08/10/09	3519.68	26.27	26.60	0.33	3493.36	1.25	10
RW - 1	08/17/09	3519.68	26.29	26.79	0.50	3493.32	2.00	20
RW - 1	08/21/09	3519.68	26.30	26.70	0.40	3493.32	2.00	20
RW - 1	08/25/09	3519.68	26.44	26.88	0.44	3493.17	1.50	10
		TOTAL VOLUME OF PSH AND WATER RECOVERED - AUGUST 2009					10.25	80.00
RW - 2	08/03/09	3520.24	26.64	27.53	0.89	3493.47	1.00	65
RW - 2	08/04/09	3520.24	26.74	27.05	0.31	3493.45	0.00	0
RW - 2	08/07/09	3520.24	26.74	27.59	0.85	3493.37	4.50	15
RW - 2	08/10/09	3520.24	26.79	27.69	0.90	3493.32	2.25	30
RW - 2	08/17/09	3520.24	26.96	27.73	0.77	3493.16	2.00	20
RW - 2	08/21/09	3520.24	26.95	27.68	0.73	3493.18	2.00	10
		TOTAL VOLUME OF PSH AND WATER RECOVERED - AUGUST 2009					11.75	140.00

CUMULATIVE TOTAL OF PSH RECOVERED - AUGUST 2009 (Gallons)

26.75

315.00

TABLE 1

MONTHLY PSH RECOVERY DATA - SEPTEMBER 2009

PLAINS MARKETING, L.P.
 TEXACO SKELLY F
 LEA COUNTY, NEW MEXICO
 SRS# 2002-11229

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS (Feet)	CORRECTED GROUNDWATER ELEVATION	OIL RECOVERED (Gallons)	WATER RECOVERED (Gallons)
MW-8	09/01/09	3519.78	26.44	27.25	0.81	3493.22	1.50	8
MW-8	09/03/09	3519.78	26.43	26.95	0.52	3493.27	1.50	10
MW-8	09/08/09	3519.78	26.12	26.49	0.37	3493.60	0.75	10
MW-8	09/10/09	3519.78	26.47	27.45	0.98	3493.16	1.50	5
MW-8	09/15/09	3519.78	26.14	26.48	0.34	3493.59	0.75	10
MW-8	09/28/09	3519.78	26.35	27.74	1.39	3493.22	2.00	4
		TOTAL VOLUME OF PSH AND WATER RECOVERED - SEPTEMBER 2009						
RW - 1	09/01/09	3519.68	26.46	26.95	0.49	3493.15	2.00	10
RW - 1	09/03/09	3519.68	26.49	26.58	0.09	3493.18	2.00	10
RW - 1	09/08/09	3519.68	26.49	26.88	0.39	3493.13	1.25	10
RW - 1	09/10/09	3519.68	26.50	27.09	0.59	3493.09	2.00	15
RW - 1	09/15/09	3519.68	26.51	26.87	0.36	3493.12	1.25	10
RW - 1	09/28/09	3519.68	26.36	27.36	1.00	3493.17	3.00	10
		TOTAL VOLUME OF PSH AND WATER RECOVERED - SEPTEMBER 2009						
RW - 2	09/03/09	3520.24	27.11	27.24	0.13	3493.11	4.50	15
RW - 2	09/08/09	3520.24	27.17	27.62	0.45	3493.00	1.25	15
		TOTAL VOLUME OF PSH AND WATER RECOVERED - SEPTEMBER 2009						
							5.75	30.00

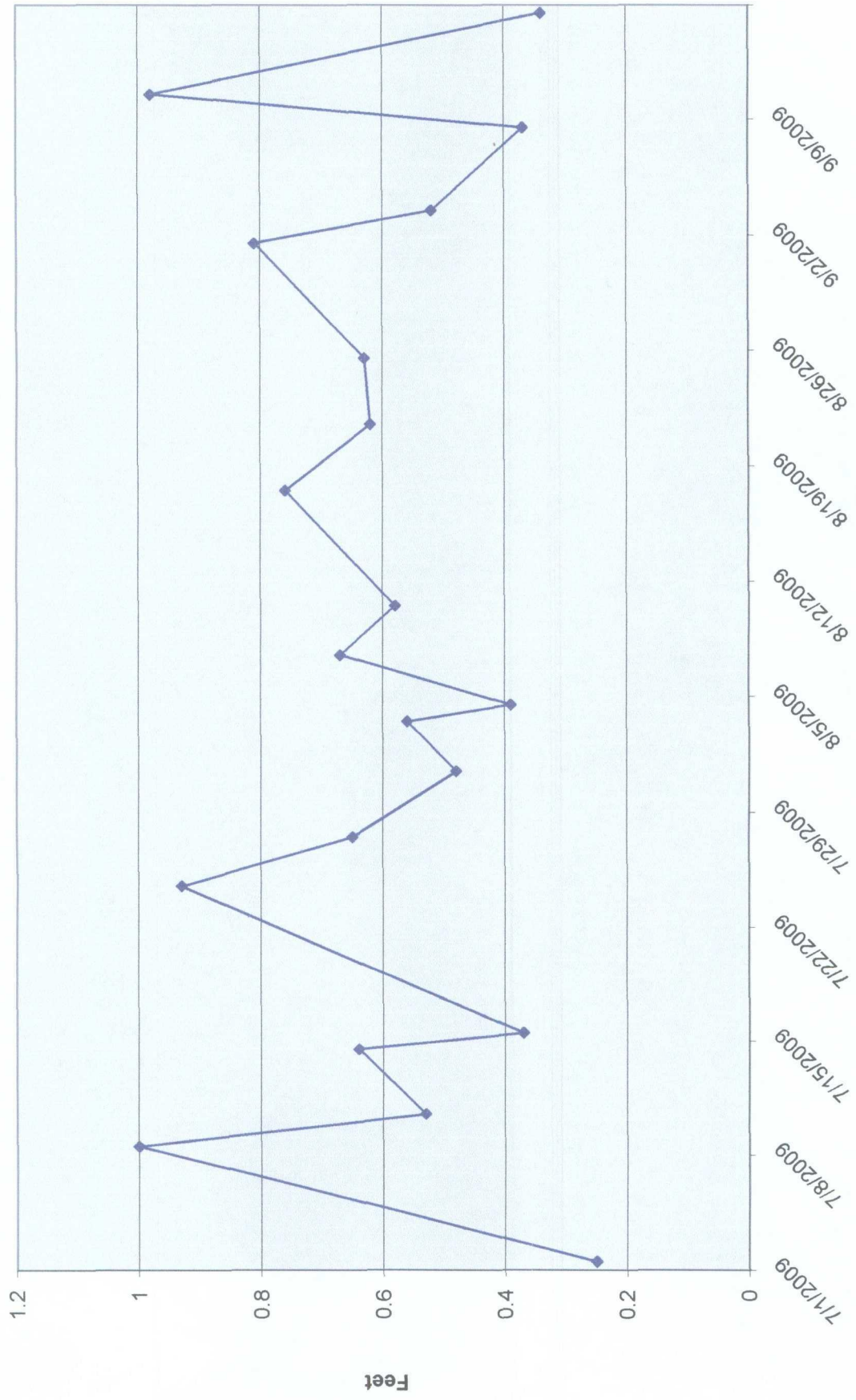
CUMULATIVE TOTAL OF PSH RECOVERED - SEPTEMBER 2009 (Gallons)

25.25

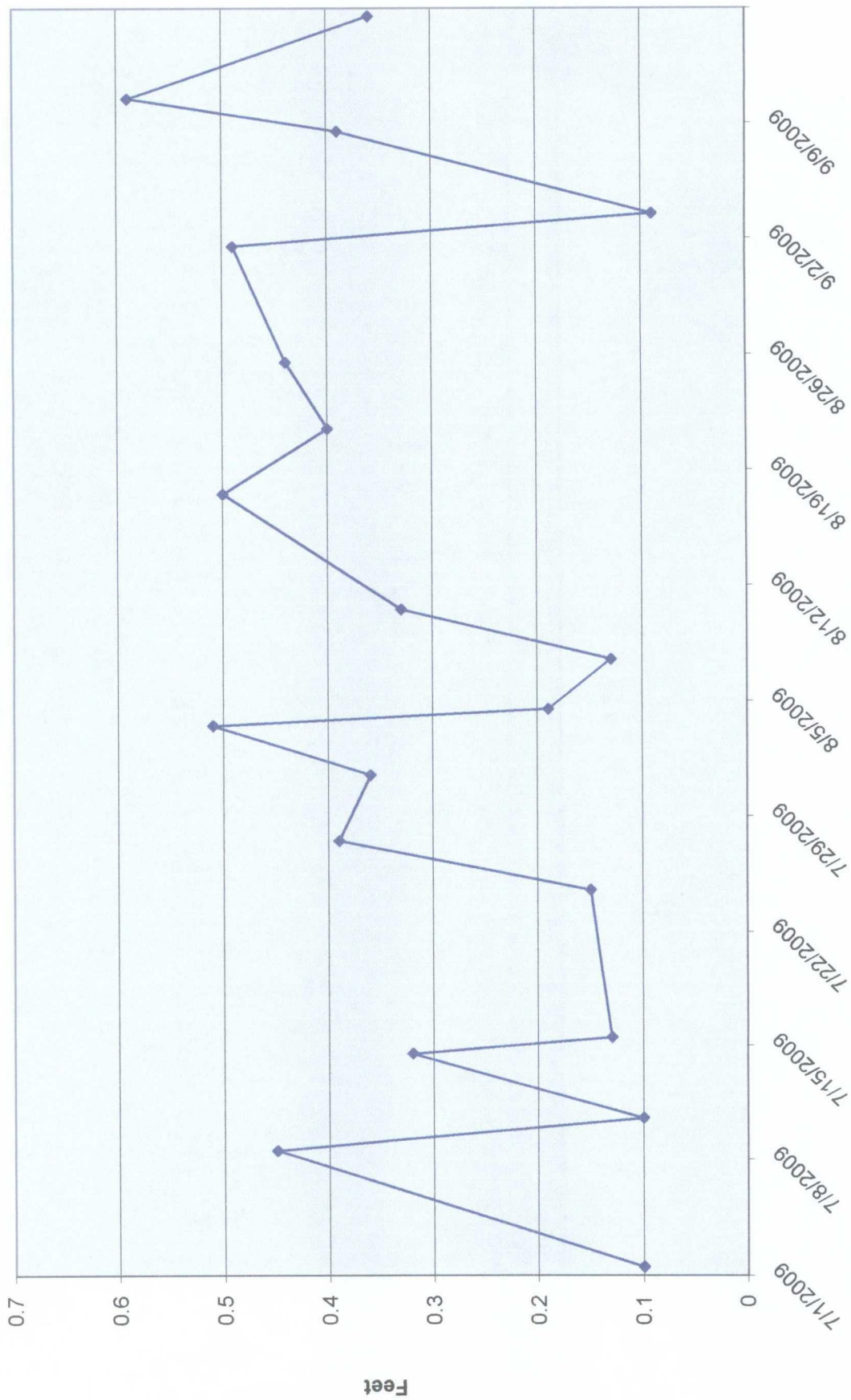
142.00

CHARTS

MW-8 PSH Thickness



RW-1 PSH Thickness



RW-2 PSH Thickness

