AP - 007

STAGE 1 & 2 WORKPLANS

DATE: JAN. 2006

PLAINS PIPELINE

February 6, 2006

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

Re: Plains Pipeline Site Restoration Work Plan
And Proposed Soil Closure Strategy
Darr Angell #2 Release Site
Section 14, Township 15 South, Range 37 East
Lea County, New Mexico

Dear Mr. Martin:

Please find attached for your approval the Site Restoration Work Plan and Proposed Soil Closure Strategy, dated February 2006, for the Darr Angell #2 release site located in Section 14 of Township 15 South, and Range 37 East of Lea County, New Mexico. The Work Plan details site activities to be conducted for soil remediation.

Should you have any questions or comments, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American Pipeline

Cc: Larry Johnson, NMOCD, Hobbs Office

Enclosure

SITE RESTORATION WORK PLAN
AND
PROPOSED SOIL CLOSURE STRATEGY

DARR ANGELL NO. 2 SITE
Lea County, New Mexico
SW ¼ of the SE ¼ of Section 11, Township 15 South, Range 37 East
NW ¼ of the NE ¼ of Section 14, Township 15 South, Range 37 East
Latitude: North 33° 01′ 47.0″
Longitude: West 103° 10′ 10.7″
PLAINS EMS No.: LF-1999-62
NMOCD ID No.: AP-07

NOVA
safety and environmental

Prepared For:
Plains Marketing, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared By:
NOVA Safety and Environmental
2057 Commerce
Midland, Texas 79703

VOLUME #1

January 2006

Curt D. Stanley
Project Manager

For
Todd K. Choban
Vice President, Technical Services

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Appendices

1.0 INTRODUCTION AND SITE BACKGROUND

The site is located approximately 12.5 miles east of the town of Lovington, New Mexico south of State Highway 82 in the SW ¼ of the SE ¼ of Section 11, Township 15 South, Range 37 East and the NW ¼ of the NE ¼ of Section 14, Township 15 South and Range 37 East. More specifically at latitude 33° 01′ 47.0″ North and longitude 103° 10′ 10.7″ West. For reference, a site location map and a site map are provided as Figures 1 and 2, respectively. On July 29, 1999, EOTT Energy, LLC (EOTT) personnel discovered that a release of crude oil had occurred from its pipeline. The on-site crude release was attributed to structural failure due to external corrosion on the 8-inch steel pipeline operated by EOTT. The release was reported to the New Mexico Oil Conservation Division (NMOCD) on July 29, 1999. According to the EOTT Spill Reporting Form, approximately 60 barrels were released and none were recovered. The Darr Angell #2 crude oil release site, formerly the responsibility of EOTT and the Link Energy is now the responsibility of Plains Marketing, L.P.

2.0 SUMMARY OF FIELD ACTIVITIES

On August 30, 1999, Environmental Technology Group, Inc. (ETGI) began initial site characterization activities, consisting of advancing 40 Geoprobe® sampling points within and adjacent to the surface stained area. In April and May 2000, the impacted soil identified during the Geoprobe® investigation was excavated by ETGI to a depth of approximately 4.5 feet bgs. Impacted soil was stockpiled on-site following the initial excavation activities. In June 2000, ETGI installed monitor wells MW-1 through MW-3, recovery wells RW-1 and RW-2 and advanced soil borings SB-1 through SB-10. In July 2000, ETGI installed monitor well MW-4. In April and May 2001, approximately 3,000 cubic yards (cy) of soil was excavated and added to the existing stockpiles. The soil and caliche generated from these excavation activities was screened and the caliche was segregated from the soil. The excavated soil was then shredded before being placed in a stockpile. In August 2001, ETGI installed monitor wells MW-5 through MW-9. On December 12, 2001, ETGI installed monitor well MW-10. In November and December 2002, ETGI installed recovery wells RW-4 through RW-7. Soil boring, monitor well and recovery well boring and completion logs are included in Appendix A.

On March 11, 2002, ETGI on behalf of EOTT requested permission from the NMOCD to partially backfill the excavation with excavated caliche segregated during previous screening activities. Authorization was granted by the NMOCD and the excavation was partially backfilled with this material.

On October 29, 2003, approximately 3,128 cy of soil removed during excavation activities was spread onto the soil treatment area. ETGI supervised the spreading of the stockpiled soil onto a soil treatment area utilizing a front-end loader and a dozer. The stockpiled soil was spread to an approximate depth of two to three feet.

On February 06, 2004, the soil treatment cell was divided into equal grid cells of approximately 250 cy per cell and a five-point composite soil sample was obtained from each cell. Ten composite samples were collected utilizing both a stainless steel sampling trowel and a hand auger from each cell. Each sample was split during acquisition into two pre-

labeled zip-lock baggies, one for field screening and the other stored on ice for laboratory analysis. All soil samples were submitted under a completed chain-of-custody to the Environmental Lab of Texas in Odessa, Texas and analyzed for TPH GRO/DRO concentrations utilizing EPA SW 846-8015M GRO/DRO.

Analytical results of the February 06, 2004 sampling event indicated total petroleum hydrocarbons (TPH) concentrations ranging from 287 to 1,030 mg/Kg total TPH. The average TPH concentration was 536 mg/Kg.

The soil treatment cell was mechanically tilled on a quarterly basis to aerate and enhance the remediation of the soil. On December 18, 2004, the soil treatment area was sampled and four (4) five-point composite soil samples were obtained. The samples were obtained utilizing both a stainless steel sampling trowel and a hand auger from each cell. Each sample was split during acquisition into two pre-labeled zip-lock baggies, one for field screening and the other stored on ice for laboratory analysis. All soil samples were submitted under a completed chain-of-custody to TraceAnalysis, Inc of Lubbock, Texas and analyzed for TPH GRO/DRO concentrations utilizing EPA SW 846-8015M GRO/DRO.

Analytical results of the December 18, 2004 sampling event indicated TPH concentrations ranging from <50 to 60.2 mg/Kg Total TPH. The analytical results indicate soil contained within the soil treatment cell at the Darr Angell #2 release site is below the NMOCD guidelines for TPH. The analytical table is included as Table 1 and laboratory results are included in Appendix B.

3.0 SOIL CLOSURE STRATEGY

The analytical results of the December 18, 2004 treatment cell sampling event indicate TPH concentrations are below NMOCD guidelines of 100 mg/Kg TPH. Plains proposes to mobilize heavy equipment and utilize the remediated treatment cell soil to backfill the excavation. The soil will be placed in the excavations in twelve inch lifts and compacted. The topography will be graded to as near original contours as practical. The affected area will be reseeded with grass acceptable to the land owner.

4.0 CLOSURE REQUEST

Plains is prepared to begin field activities and perform the corrective actions summarized in the Site Restoration Work Plan and Proposed Closure Strategy upon review and approval of the work plan by the NMOCD. Upon completion of the field activities summarized in this plan, Plains will submit a Soil Closure Report to the NMOCD, documenting the final topographic restoration activities. In this report, Plains will request that the NMOCD grant closure to soil issues at the site. A groundwater closure report will follow after eight successive quarterly groundwater sampling events have demonstrated that the hydrocarbon concentrations are below regulatory guidelines. The Notification of Release and Corrective Action (Form C-141) is included as Appendix C.

5.0 QA/QC PROCEDURES

5.1 Soil Sampling

Samples of subsurface soils were obtained during installation of the soil borings, monitor wells and recovery wells utilizing a split-spoon sampling tool. Representative soil samples were divided into two separate portions using clean, disposable gloves. The sample was split between two labeled zip-lock baggies. One baggie was sealed for headspace analysis using a PID calibrated to a 100-ppm isobutylene standard. Each screening sample was allowed to volatilize for approximately thirty minutes in the sunlight at ambient temperature prior to conducting the screening analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for laboratory analysis, the cooler was sealed for shipment to the laboratory. Field screening samples and those samples not selected for shipment to the laboratory were emptied onto the existing on-site soil stockpiles awaiting treatment. Proper chain-of-custody documentation was maintained throughout the sampling and shipping process.

Soil samples were delivered to Environmental Lab of Texas, in Odessa, Texas and TraceAnalysis, Inc. of Lubbock, Texas and analyzed within fourteen days following the collection date for BTEX and TPH analyses using the methods described below:

- BTEX concentrations in accordance with EPA SW 846 Method 8021B/5030; and
- TPH concentrations in accordance with EPA SW 846 Method 8015M GRO/DRO.

5.2 Decontamination of Equipment

In general, the decontamination procedure consisted of using high-pressure steam to wash the drilling and sampling equipment prior to drilling and prior to starting each hole. Prior to use, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

5.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

6.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Site Restoration Work Plan and Proposed Soil Closure Strategy Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental 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 Safety and Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA Safety and Environmental 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 Marketing, L.P. 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 Safety and Environmental and/or Plains Marketing, L.P.

7.0 DISTRIBUTION

Copy 1:
Ed Martin
New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

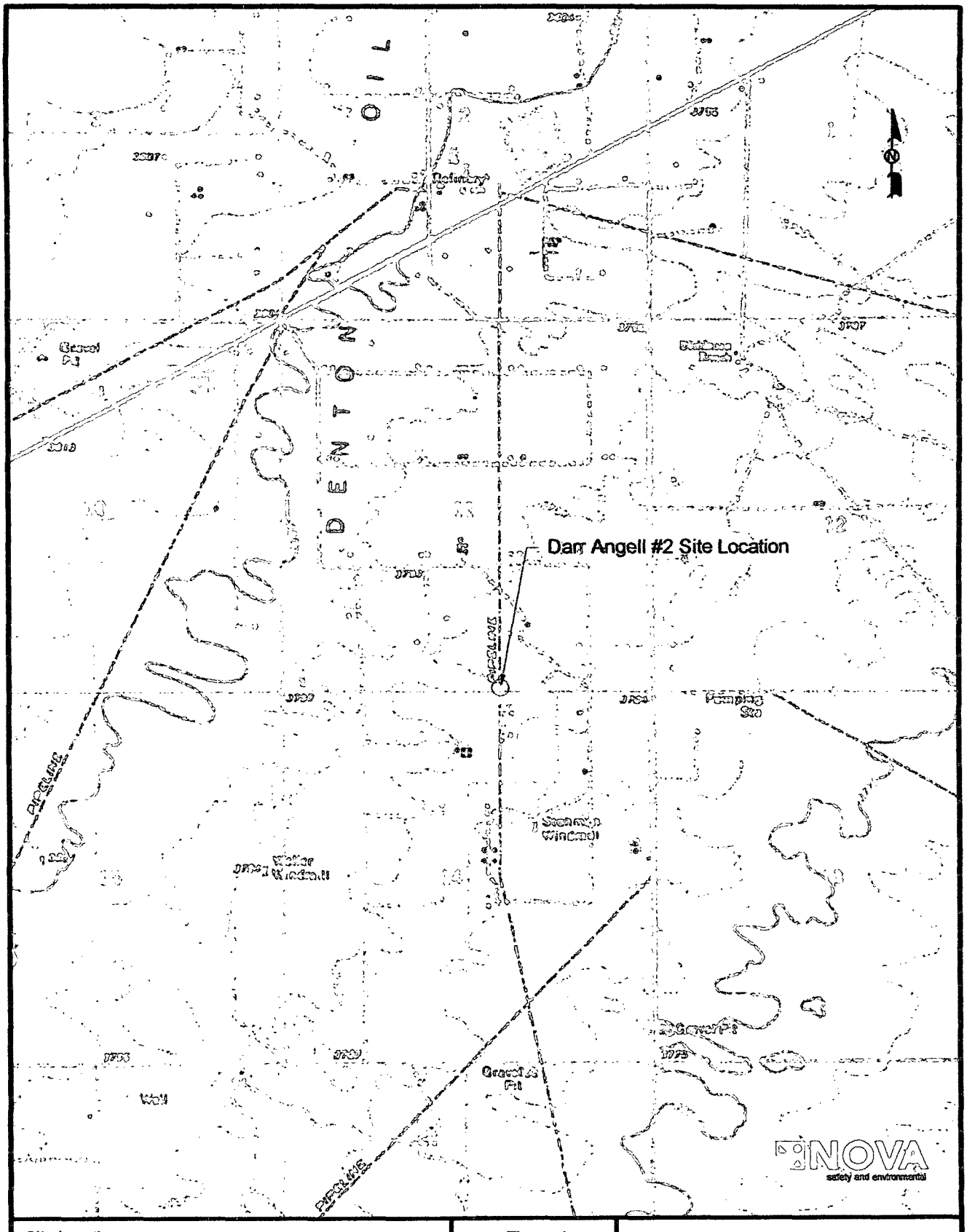
Copy 2:
Paul Sheeley and Larry Johnson
New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Copy 3:
Camille Reynolds
Plains Marketing, L.P.
3112 Highway 82
Lovington, New Mexico 88260
cjreynolds@paalp.com

Copy 4:
Jeff Dann
Plains Marketing, L.P.
333 Clay Street
Suite 600
Houston, Texas, 77002
jpdann@paalp.com

Copy 5:
NOVA Safety and Environmental
2057 Commerce
Midland, Texas 79703
cstanley@novatraining.cc

Figures



Site Location
33° 01' 47.0" N 103° 10' 10.5" W

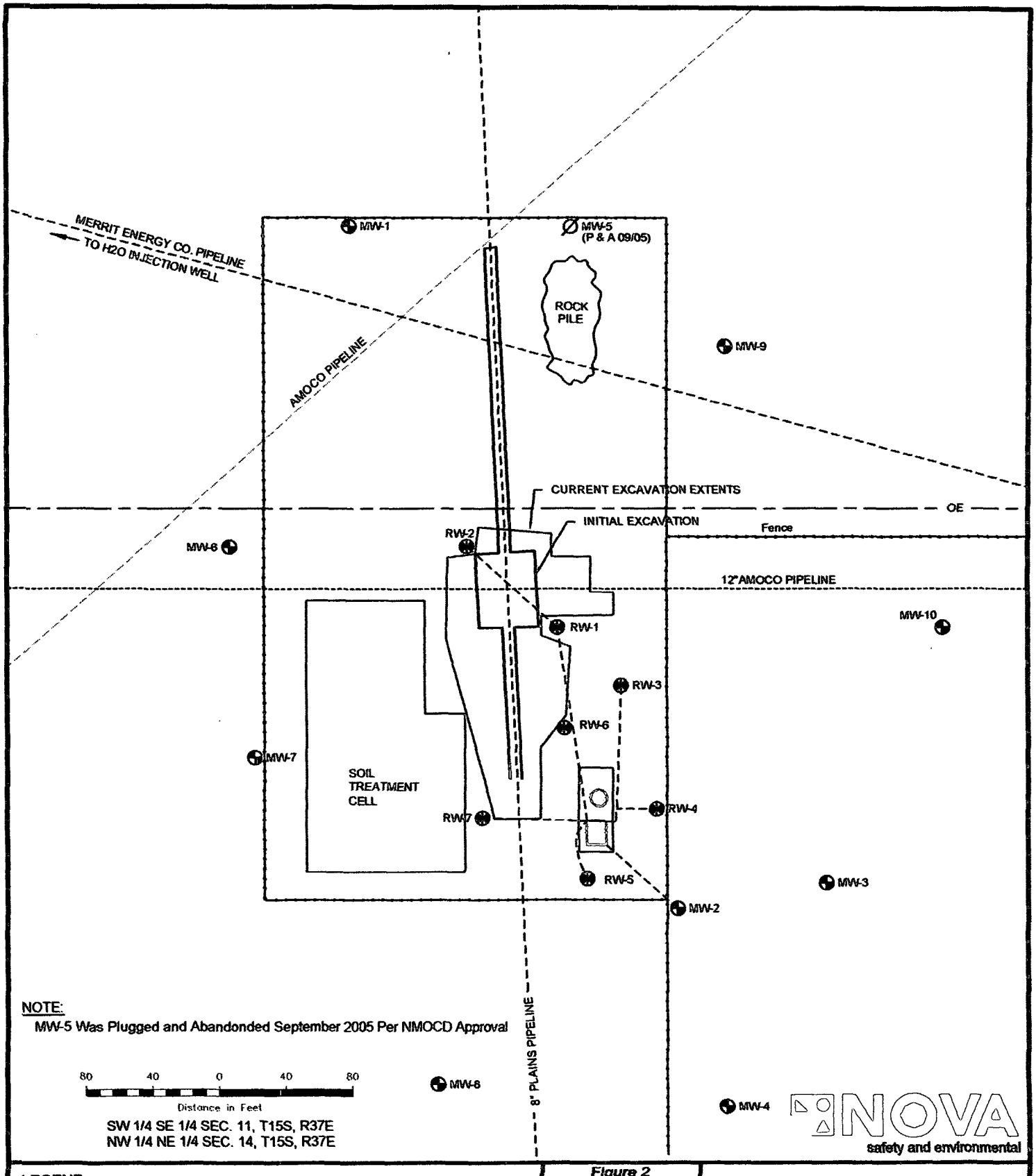
SW 1/4 of SE1/4 of Sec 11 T15S R37E
NW 1/4 of NE 1/4 of Sec 14 T15S R37E

Figure 1
Site Location Map

Plains Marketing, L.P
Darr Angell # 2
Lea County, NM

NOVA Safety and Environmental

Scale: 1"=2000'	Prep By: CDS	Checked By: TKC
February 20, 2005		



NOTE:
MW-5 Was Plugged and Abandonded September 2005 Per NMOCD Approval

80 40 0 40 80
Distance in Feet

SW 1/4 SE 1/4 SEC. 11, T15S, R37E
NW 1/4 NE 1/4 SEC. 14, T15S, R37E

LEGEND:
- Monitor Well Locations
- Recovery Well Locations
- -----Product Recovery / Airline
- Excavation
- Bermed Containment Area
- —OE— Overhead Powerline

Figure 2

Site Map
Plains Marketing, L.P
Darr Angell # 2
Lea County, NM

NOVA Safety and Environmental

Scale: 1"=80'	Prep By: DPM	Checked By: CDS
September 21, 2005		

Table

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
DARR ANGELL 2
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	EPA SW 8746-8021B, 5030						EPA SW 846-8015M		
		BENZENE	TOLUENE	ETHYL-BENZENE	m,p-XYLENE	o-XYLENE	TOTAL BTEX	GRO (C_6-C_{10})	DRO (>C_{10} C_{25})	TOTAL TPH
NMOCD REGULATORY LIMITS		10 mg/Kg					50 mg/Kg			100 mg/Kg
NE of Source - 3' Deep	8/20/1999	<0.100	<0.100	4.82	40.92	14.82	**60.56**		4571	**4571**
SE of Source - 1 1/2' Deep		<0.100	<0.100	4.86	27.55	11.27	43.68		2170	**2170**
NW of Source - 2 1/2' Deep		<0.100	<0.100	8.82	37.55	17.66	**64.03**		5361	**5361**
SW of Source - 1 1/2' Deep		<0.100	0.332	0.179	0.431	<0.100	0.942		1884	**1884**
25' SE of Source - 1 1/2' Deep		<0.100	<0.100	0.229	1.01	<0.100	1.239		253	**253**
GP1-001	8/30/1999							3413	9468	**12881**
GP2-001								1967	6696	**8663**
GP3-001								<10	228	**228**
GP4-001								4737	10674	**15411**
GP5-001								<10	251	**251**
GP6-001								130	4647	**4777**
GP7-001								<10	241	**241**
GP8-001								3146	8294	**11440**
GP9-001								<10	176	**176**
GP10-001								445	7557	**8002**
GP11-001								<10	97	97
GP12-001								5802	16145	**21947**
GP13-001								2739	8058	**10797**
GP14-001								941	16284	**17225**
GP15-001								43	865	**908**
SS01 North Wall Pipeline 2'	5/17/2000	<0.100	0.122	<0.100	0.121	<0.100	0.243	<10	<10	<10
SS02 North Wall West 2'		<0.100	0.136	<0.100	0.147	0.112	0.395	594	13720	**14314**
SS03 North Wall East 2'		<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	12	5284	**5296**
SS04 West Wall A. Pipeline 2'		<0.100	0.173	0.171	0.203	0.341	0.888	661	24538	**25199**
SS05 East Wall A. Pipeline 2'		<0.100	0.282	0.188	0.335	0.272	1.077	626	19579	**20205**
SS06 South Wall West 2'		<0.100	<0.100	<0.100	0.279	0.162	0.441	561	8977	**9538**
SS07 South Wall East 2'		<0.100	0.254	0.184	1.83	1.42	3.688	902	3656	**4558**
SS08 South Wall Pipeline 2'		<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<10	197	197
SS09 Stock Pile NW 1'		0.123	2.21	1.08	1.64	0.681	5.734	381	8749	**9130**
SS10 Stock Pile B NG 1'		<0.100	0.199	0.339	0.361	0.303	1.202	451	7743	**8194**
SS11 Stock Pile B SW 1'		<0.100	0.142	0.259	0.243	0.25	0.894	199	6863	**7062**
SS12 Stock Pile B SE 1'		<0.100	<0.100	0.467	0.371	0.353	1.191	243	7697	**7940**
SS13 Stock Pile A South 1'		<0.100	0.25	<0.100	0.164	<0.100	0.414	<10	933	**933**
SS14 Stock Pile A North 1'		<0.100	<0.100	<0.100	0.172	<0.100	0.172	<10	112	**112**
RW-1C 5'	6/1/2000	<0.100	1.77	0.836	5.34	0.965	8.911	60	823	**883**
RW-1SS 10'		<0.100	16.3	9.34	41.9	13.4	**80.94**	781	2257	**3038**
RW-1C 15'		<0.100	3.4	1.59	6.64	2.47	14.1	81	965	**1046**
RW-1SS 20'								<10	<10	<10
RW-1SS 25'								<10	<10	<10
RW-1SS 30'								<10	<10	<10
RW-1SS 35'								<10	<10	<10
RW-1SS 40'								<10	<10	<10
RW-1SS 45'								<10	<10	<10
RW-1SS 50'		<0.100	3.34	3.28	12.1	4.45	23.17	454	1264	**1718**
RW-1SS 55'		**29.9**	169	63.8	183	59.1	**504.8**	7092	10152	**17244**
RW-1SS 60'		<0.100	4.37	3.02	9.97	3.66	21.02	388	1227	**1615**
RW-2C 5'	6/1/2000	<0.100	11.1	4.76	19.3	8.12	43.28	910	2850	**3760**
RW-2C 10'		<0.100	5.54	2.99	11.9	4.43	24.86	515	2041	**2556**
RW-2C 15'		0.666	14.3	6.05	24.7	9.15	**54.866**	1456	4764	**6220**
RW-2C 20'		<0.100	5	2.95	12.2	4.65	24.8	563	2857	**3420**

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CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
DARR ANGELL 2
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	EPA SW 8746-8021B, 5030						EPA SW 846-8015M		
		BENZENE	TOLUENE	ETHYL-BENZENE	m,p-XYLENE	o-XYLENE	TOTAL BTEX	GRO (C_6-C_{10})	DRO (>C_{10} C_{25})	TOTAL TPH
NMOCD REGULATORY LIMITS		10 mg/Kg					50 mg/Kg			100 mg/Kg
RW-2SS 25'	6/1/2000							<10	102	**102**
RW-2SS 30'								<10	<10	<10
RW-2SS 35'								<10	32	32
RW-2SS 40'								<10	<10	<10
RW-2SS 45'								<10	<10	<10
RW-2SS 50'								53	648	**701**
RW-2SS 55'		<0.100	4.9	3.6	8.06	4.2	20.76	916	3716	**4632**
RW-2SS 60'								12	285	**297**
RW-2SS 65'								<10	221	**221**
SB-1C 5'	6/2/2000							<10	<10	<10
SB-1C 10'								<10	<10	<10
SB-1C 15'								<10	<10	<10
SB-1C 20'								<10	<10	<10
SB-1SS 25'								<10	<10	<10
SB-1C 30'								<10	<10	<10
SB-1SS 35'								<10	<10	<10
SB-1SS 40'								<10	<10	<10
SB-1SS 45'								<10	<10	<10
SB-1SS 50'								<10	<10	<10
SB-1SS 55'								<10	<10	<10
SB-1SS 57'								<10	<10	<10
SB-2C 5'	6/5/2000							<10	<10	<10
SB-2C 10'								<10	<10	<10
SB-2SS 15'								<10	<10	<10
SB-2SS 20'								<10	<10	<10
SB-2SS 25'								<10	<10	<10
SB-2SS 30'								<10	<10	<10
SB-2SS 35'								<10	<10	<10
SB-2SS 40'								<10	<10	<10
SB-2SS 45'								<10	<10	<10
SB-2SS 50'								<10	<10	<10
SB-2SS 57'								<10	<10	<10
SB-3C 5'	6/5/2000							<10	<10	<10
SB-3C 10'								<10	<10	<10
SB-3C 15'								<10	<10	<10
SB-3C 20'								<10	<10	<10
SB-3C 25'								<10	<10	<10
SB-3C 30'								<10	<10	<10
SB-3C 35'								<10	<10	<10
SB-3C 40'								<10	<10	<10
SB-3C 45'								<10	<10	<10
SB-3C 50'								<10	<10	<10
SB-3C 60'								<10	<10	<10
SB-4C 5'	6/6/2000							<10	<10	<10
SB-4C 10'								<10	<10	<10
SB-4C 15'								<10	<10	<10
SB-5C 5'	6/6/2000							<10	<10	<10
SB-5C 10'								<10	<10	<10
SB-5C 15'								<10	<10	<10

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		BENZENE	TOLUENE	ETHYL-BENZENE	m,p-XYLENE	o-XYLENE	TOTAL BTEX	GRO (C_6-C_{10})	DRO (>C_{10} C_{25})	TOTAL TPH
NMOCD REGULATORY LIMITS		10 mg/Kg					50 mg/Kg			100 mg/Kg
SB-6C 5'	6/6/2000							<10	<10	<10
SB-6C 10'								<10	<10	<10
SB-6C 15'								<10	<10	<10
SB-7C 5'	6/6/2000							<10	<10	<10
SB-7C 10'								<10	<10	<10
SB-7C 15'								<10	<10	<10
SB-8C 5'	6/6/2000							<10	<10	<10
SB-8C 10'								<10	<10	<10
SB-8C 15'								<10	<10	<10
SB-9C 5'	6/6/2000							<10	<10	<10
SB-9C 10'								<10	<10	<10
SB-9C 15'								<10	<10	<10
SB-10C 5'	6/6/2000							<10	<10	<10
SB-10C 10'								<10	<10	<10
SB-10C 15'								<10	<10	<10
MW-1C 5'	6/6/2000							<10	<10	<10
MW-1C 10'								<10	<10	<10
MW-1C 15'								<10	<10	<10
MW-1C 20'								<10	<10	<10
MW-1SS 25'								<10	<10	<10
MW-1SS 30'								<10	<10	<10
MW-1SS 35'								<10	<10	<10
MW-1SS 40'								<10	<10	<10
MW-1SS 45'								<10	<10	<10
MW-1SS 52'								<10	<10	<10
MW-1C 65'								<10	<10	<10
MW-2C 5'	6/16/2000							<10	<10	<10
MW-2C 10'								<10	<10	<10
MW-2C 15'								<10	<10	<10
MW-2C 20'								<10	<10	<10
MW-2C 25'								<10	<10	<10
MW-2C 30'								<10	<10	<10
MW-2C 35'								<10	<10	<10
MW-2C 40'								<10	<10	<10
MW-2C 45'								<10	<10	<10
MW-2C 50'								<10	<10	<10
MW-2C 55'		<0.100	0.724	<0.100	1.27	0.318	2.312	15	2251	**2266**
MW-2C 65'								<10	229	**229**
MW-3C 5'	6/16/2000							<10	<10	<10
MW-3C 10'								<10	<10	<10
MW-3C 15'								<10	<10	<10
MW-3C 20'								<10	<10	<10
MW-3C 25'								<10	<10	<10
MW-3C 30'								<10	<10	<10
MW-3C 35'								<10	<10	<10
MW-3C 40'								<10	<10	<10

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
DARR ANGELL 2
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	EPA SW 8746-8021B, 5030						EPA SW 846-8015M		
		BENZENE	TOLUENE	ETHYL-BENZENE	m,p-XYLENE	o-XYLENE	TOTAL BTEX	GRO (C_6-C_{10})	DRO (>C_{10} C_{25})	TOTAL TPH
NMOCD REGULATORY LIMITS		10 mg/Kg					50 mg/Kg			100 mg/Kg
MW-3C 45'	6/16/2000							<10	<10	<10
MW-3C 50'								<10	<10	<10
MW-3C 55'								<10	<10	<10
MW-3C 65'								<10	<10	<10
MW-4 0-2'	7/11/2000							<10	<10	<10
MW-4 3-5'								<10	<10	<10
MW-4 8-10'								<10	<10	<10
MW-4 13-15'								<10	<10	<10
MW-4 18-20'								<10	<10	<10
MW-4 23-25'								<10	<10	<10
MW-4 28-30'								<10	<10	<10
MW-4 33-35'								<10	<10	<10
MW-4 38-40'								<10	<10	<10
MW-4 43-45'								<10	<10	<10
MW-4 48-50'								<10	<10	<10
MW-4 53-55'								<10	<10	<10
MW-4 58-60'								<10	<10	<10
MW-5 0-2'	8/14/2001							<5	5.79	5.79
MW-5 5-7'								<5	10.1	10.1
MW-5 10-12'								<5	5.68	5.68
MW-5 15-17'								<5	5.85	5.85
MW-5 20-22'								<5	5.34	5.34
MW-5 25-27'								<5	2.11	2.11
MW-5 30-32'								<5	8.1	8.1
MW-5 35-37'								<5	5.23	5.23
MW-5 40-42'								<5	4.78	4.78
MW-5 45-47'								<5	<1	<5
MW-5 50-52'								<5	<1	<5
MW-5 55-57'								<5	10.8	10.8
MW-5 60-62'								<5	8.61	8.61
MW-5 65-67'								<5	8.91	8.91
MW-6 0-2'	8/15/2001							<5	<1	<5
MW-6 5-7'								<5	2.67	2.67
MW-6 10-12'								<5	8.92	8.92
MW-6 15-17'								<5	10.1	10.1
MW-6 20-22'								<5	4	4
MW-6 25-27'								<5	6.41	6.41
MW-6 30-32'								<5	6.34	6.34
MW-6 35-37'								<5	33	33
MW-6 40-42'								10.2	167	**177.2**
MW-6 45-47'								18.5	194	**212.5**
MW-6 50-52'								<5	13.8	13.8
MW-6 55-57'								<5	5.68	5.68
MW-6 60-62'								<5	6.12	6.12
MW-7 0-2'	8/16/2001							<5	<1	<5
MW-7 5-7'								<5	2.58	2.58
MW-7 10-12'								<5	2.65	2.65
MW-7 15-17'								<5	2.9	2.9
MW-7 20-22'								<5	2.58	2.58
MW-7 25-27'								<5	1.39	1.39

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
DARR ANGELL 2
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	EPA SW 8746-8021B, 5030						EPA SW 846-8015M		
		BENZENE	TOLUENE	ETHYL-BENZENE	m,p-XYLENE	o-XYLENE	TOTAL BTEX	GRO (C_6-C_{10})	DRO (>C_{10} C_{25})	TOTAL TPH
NMOCD REGULATORY LIMITS		10 mg/Kg					50 mg/Kg			100 mg/Kg
MW-7 30-32'	8/16/2001							<5	2.04	2.04
MW-7 35-37'								<5	5.83	5.83
MW-7 40-42'								<5	4.68	4.68
MW-7 45-47'								<5	4.45	4.45
MW-7 50-52'								<5	8.32	8.32
MW-7 55-57'								<5	<1	<5
MW-7 60-62'								<5	5.86	5.86
MW-8 0-2'	8/16/2001							<5	14.5	14.5
MW-8 5-7'								<5	3.57	3.57
MW-8 10-12'								<5	10.9	10.9
MW-8 15-17'								<5	4.25	4.25
MW-8 20-22'								<5	3.69	3.69
MW-8 25-27'								<5	3.99	3.99
MW-8 30-32'								<5	4.09	4.09
MW-8 35-37'								<5	11.5	11.5
MW-8 40-42'								<5	3.11	3.11
MW-8 45-47'								<5	3.32	3.32
MW-8 50-52'								<5	2.82	2.82
MW-8 55-57'								<5	6.53	6.53
MW-8 60-62'								<5	8.12	8.12
MW-9 0-2'	8/16/2001							<5	<1	<5
MW-9 5-7'								<5	3.62	3.61
MW-9 10-12'								<5	7.28	7.28
MW-9 15-17'								<5	6.19	6.19
MW-9 20-22'								<5	6.73	6.73
MW-9 20-27'								<5	4.46	4.46
MW-9 30-32'								<5	4.81	4.81
MW-9 35-37'								<5	3.79	3.79
MW-9 40-42'								<5	1.92	1.92
MW-9 45-47'								<5	5.24	5.24
MW-9 50-52'								<5	2.5	2.5
MW-9 55-57'								<5	3.57	3.57
MW-9 60-62'								<5	9.33	9.33
MW-10 5-7'	12/12/2001							<5	<5	<5
MW-10 10-12'								<5	<5	<5
MW-10 15-17'								<5	<5	<5
MW-10 20-22'								<5	<5	<5
MW-10 25-27'								<5	<5	<5
MW-10 30-32'								<5	<5	<5
MW-10 35-37'								<5	<5	<5
MW-10 40-42'								<5	<5	<5
MW-10 45-47'								<5	<5	<5
MW-10 50-52'								<5	<5	<5
MW-10 55-57'								<5	<5	<5
MW-10 60-62'								<5	<5	<5
MW-10 65-67'								<5	<5	<5
North Wall -1	3/12/2002							<10	<10	<10
North Weast Wall -2								<10	<10	<10
Far SW Wall -7								<10	107	107
South West Wall -8								<10	<10	<10

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
DARR ANGELL 2
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	EPA SW 8746-8021B, 5030						EPA SW 846-8015M		
		BENZENE	TOLUENE	ETHYL-BENZENE	m,p-XYLENE	o-XYLENE	TOTAL BTEX	GRO (C_6-C_{10})	DRO (>C_{10} C_{25})	TOTAL TPH
NMOCD REGULATORY LIMITS		**10 mg/Kg**					**50 mg/Kg**			**100 mg/Kg**
West Wall -9	3/12/2002							<10	61.9	61.9
RW-3 Surface	11/26/2002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-3 10'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-3 20'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-3 30'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-3 40'		<0.025	<0.025	<0.025	0.087	<0.025	0.087	<10.0	<10.0	<10.0
RW-3 50'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	17	17
RW-3 58'		9.7	36.6	23.6	53.8	19.5	**143.2**	3550	7940	**11490**
RW-3 63'		<0.025	0.05	0.075	0.226	0.046	0.397	60.4	552	**612.4**
RW-4 Surface	11/26/2002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-4 10'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-4 20'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-4 30'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-4 40'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-4 50'		<0.025	0.054	0.065	0.34	0.084	0.543	59.9	446	**506**
RW-4 58'		**12.1**	44.4	27.2	62.8	23.2	**169.7**	3780	8340	**12120**
RW-4 63'		0.025	0.056	0.052	0.232	<0.025	0.365	<10.0	84.2	84.2
RW-5 Surface	11/27/2002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-5 10'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	40.2	40.2
RW-5 20'		<0.025	0.08	0.036	0.196	<0.025	0.312	<10.0	<10.0	<10.0
RW-5 30'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-5 40'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-5 50'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-5 57'		**12.6**	61.5	40.4	96.2	32.8	**243.5**	3750	6160	**9910**
RW-5 62'		0.046	0.09	0.072	0.247	0.061	0.516	55.4	635	**690.4**
RW-6 Surface	11/27/2002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-6 10'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-6 20'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-6 30'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-6 40'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-6 50'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	20.5	318	**338.5**
RW-6 57'		**47.8**	180	103	226	79.8	**636.6**	14100	22600	**36700**
RW-6 62'		0.037	0.118	0.243	0.75	0.15	1.298	119	818	**937**
RW-7 Surface	12/2/2002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-7 10'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-7 20'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-7 30'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
RW-7 40'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	75	75
RW-7 50'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	18.2	18.2
RW-7 57'		**17.4**	73.3	47.2	110	41.1	**289**	4600	8320	**12920**
RW-7 62'		<0.025	0.049	0.034	0.108	<0.025	0.191	<10.0	153	**153**
SB-11 Surface	12/2/2002	<0.025	<0.025	<0.025	0.034	<0.025	0.034	<10.0	<10.0	<10.0
SB-11 10'		<0.025	0.098	<0.025	0.286	<0.025	0.384	<10.0	<10.0	<10.0
SB-11 20'		<0.025	0.038	<0.025	0.055	<0.025	0.093	<10.0	<10.0	<10.0
SB-11 30'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
SB-11 40'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
SB-11 50'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
DARR ANGELL 2
LEA COUNTY, NEW MEXICO

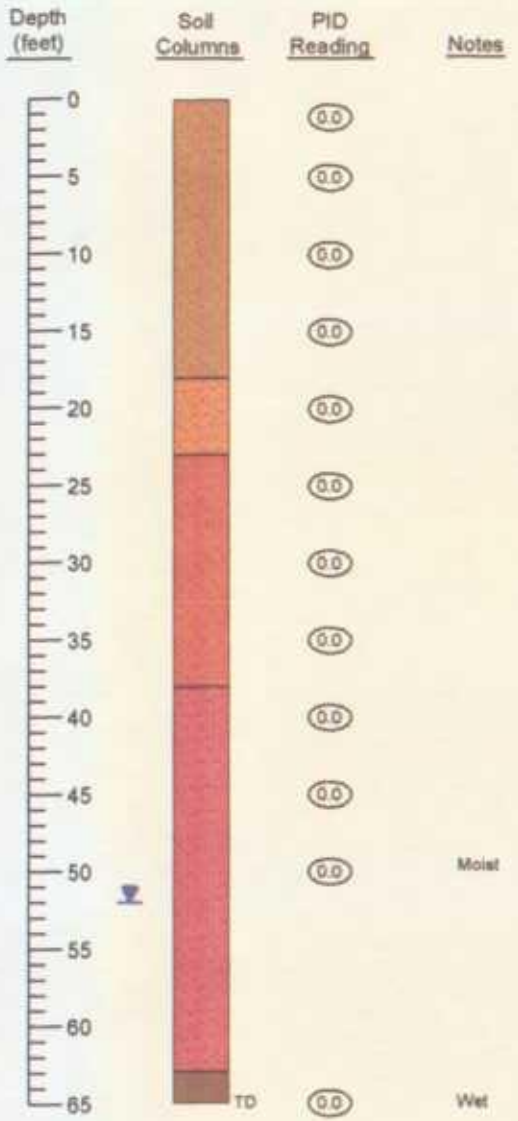
All concentrations are reported in mg/kg

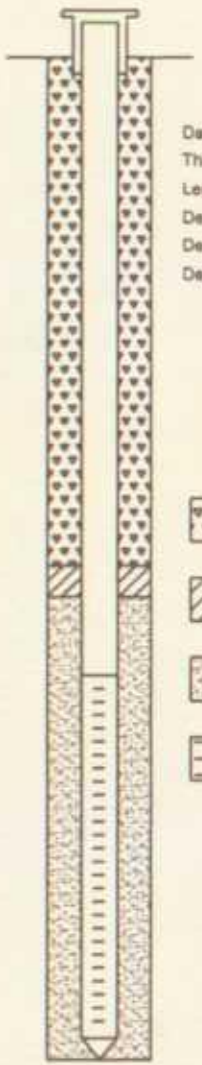
SAMPLE LOCATION	SAMPLE DATE	EPA SW 8746-8021B, 5030						EPA SW 846-8015M		
		BENZENE	TOLUENE	ETHYL-BENZENE	m,p-XYLENE	o-XYLENE	TOTAL BTEX	GRO (C_6-C_{10})	DRO (>C_{10} C_{25})	TOTAL TPH
NMOCD REGULATORY LIMITS		**10 mg/Kg**					**50 mg/Kg**			**100 mg/Kg**
SB-11 58'	12/2/2002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
SB-11 63'		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
Soil Treatment Cell Sample Results										
Section 1	2/6/2004							13.9	273	**287**
Section 2								<10	473	**473**
Section 3								73.5	960	**1030**
Section 4								13.8	212	**226**
Section 5								20.2	453	**473**
Section 6								<10	395	**395**
Section 7								18.3	426	**444**
Section 8								33.7	772	**806**
Section 9								13.6	767	**781**
Section 10								<10	453	**453**
SS-1	12/18/2004							<5	60.2	60.2
SS-2								<5	58.4	58.4
SS-3								<5	53.3	53.3
SS-4								<1	<50	<50

Appendices

Appendix A
Soil Boring Logs

Monitoring Well MW - 1





Monitoring Well Details

Date Drilled	6 - 6 - 00
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	25 ft
Depth of PVC Well	65 ft
Depth of Exploratory Well	65 ft
Depth to Ground Water	52 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

- Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules.
- Sand - (SP) - Red Brown, Very Fine Grained, Well Sorted with Caliche Nodules.
- Sand - (SP) - Red, Very Fine Grained, Well Sorted.
- Sand - (SP) - Red, Very Fine Grained, Well Sorted with Caliche Nodules.
- Sand - (SP) - Brown, Very Fine Grained, Well Sorted.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

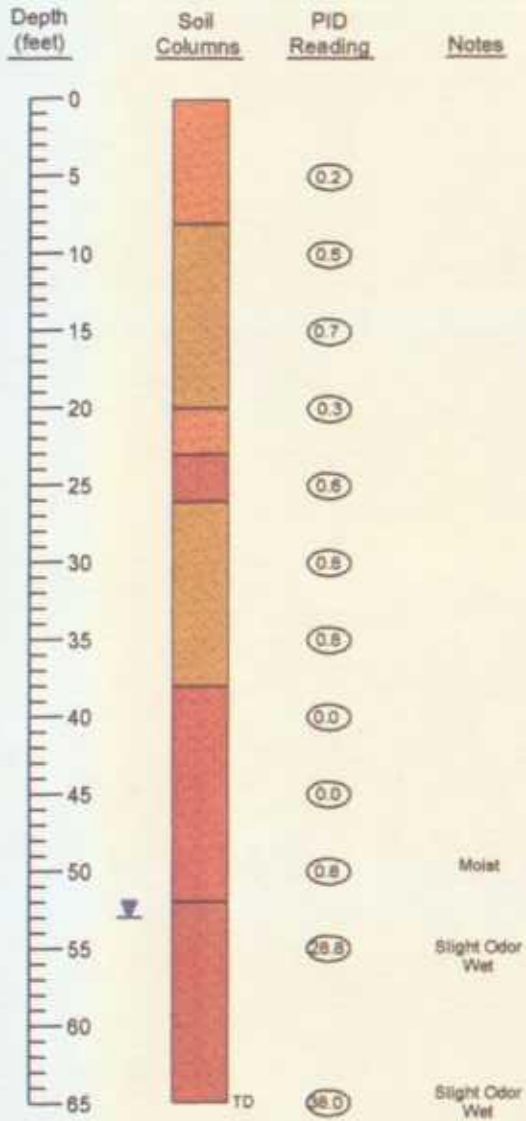
Monitoring Well - 1

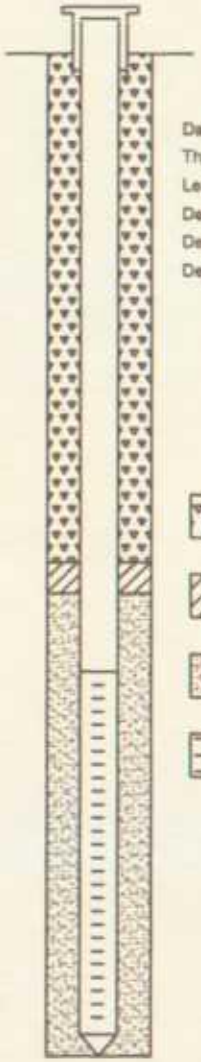
Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: JDJ	Checked By: JT
July 14, 2000		

Monitoring Well MW - 2





Monitoring Well Details

Date Drilled	6 - 12 - 00
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	25 ft
Depth of PVC Well	65 ft
Depth of Exploratory Well	65 ft
Depth to Ground Water	53 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules.

Sand - (SP) - Tan to Brown, Very Fine Grained, Well Sorted with Caliche Nodules, Sandstone Layer at 15' - 20' and 29' - 33'.

Sand - (SP) - Red Brown, Very Fine Grained, Well Sorted.

Sand - (SP) - Red, Very Fine Grained, Well Sorted with Caliche Nodules.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well/Recovery Well Details

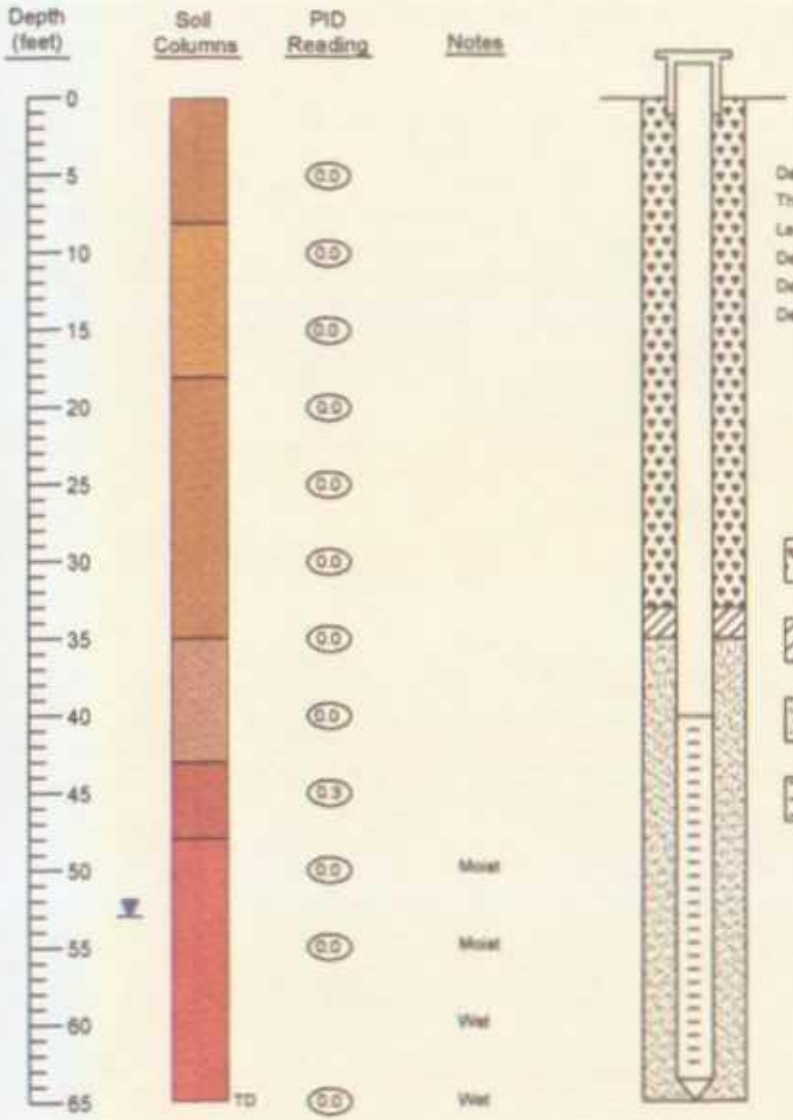
Monitoring Well - 2

Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: JDJ	Checked By: JT
July 14, 2000		

Monitoring Well MW - 3



Monitoring Well Details

Date Drilled	6 - 12 - 00
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	25 ft
Depth of PVC Well	65 ft
Depth of Exploratory Well	65 ft
Depth to Ground Water	53 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules. Sandstone Layer at 30' - 35'.

Sand - (SP) - Tan to Brown, Very Fine Grained, Well Sorted with Caliche Nodules. Chert Nodules at 15' - 18'.

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules.

Sand - (SP) - Tan to Red, Very Fine Grained, Well Sorted with Caliche Nodules.

Sand - (SP) - Red, Very Fine Grained, Well Sorted.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well

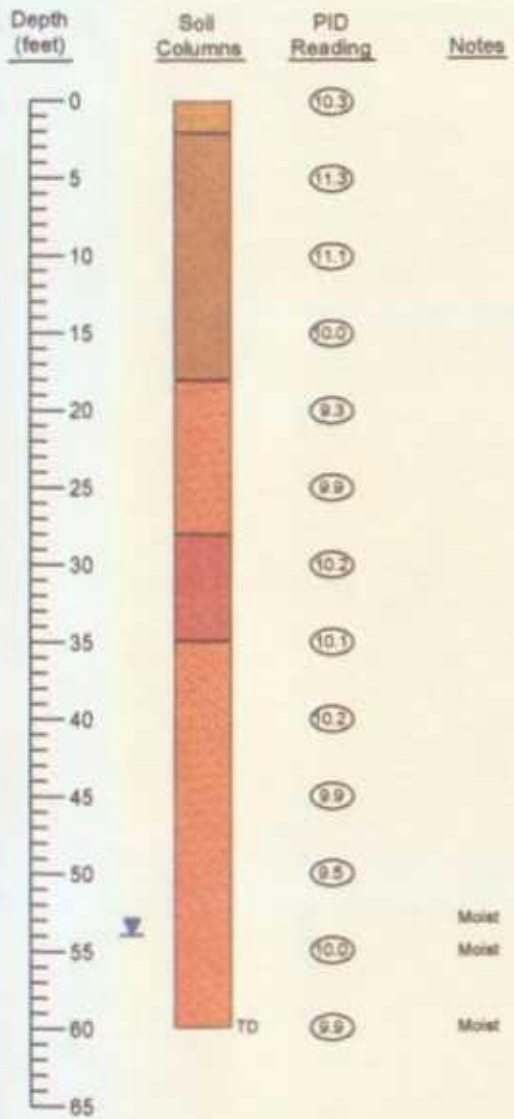
Monitoring Well - 3

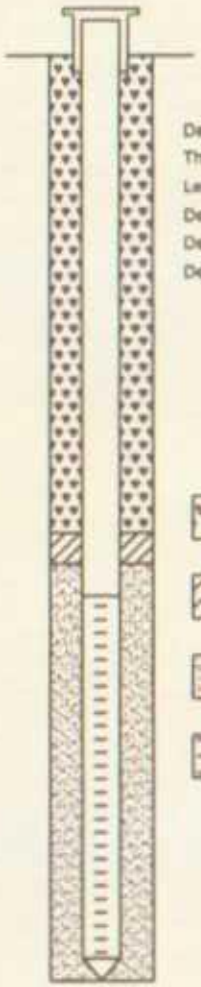
Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: JDJ	Checked By: JT
July 14, 2000		

Monitoring Well MW - 4





Monitoring Well Details

Date Drilled	7 - 11 - 00
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	25 ft
Depth of PVC Well	65 ft
Depth of Exploratory Well	65 ft
Depth to Ground Water	54 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted.

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules.

Sand - (SP) - Red Brown, Very Fine Grained, Well Sorted with Caliche Nodules. Caliche Layer at 35' - 37'.

Sand - (SP) - Red Brown, Very Fine Grained, Well Sorted. Sandstone Layer at 33' - 36'.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well

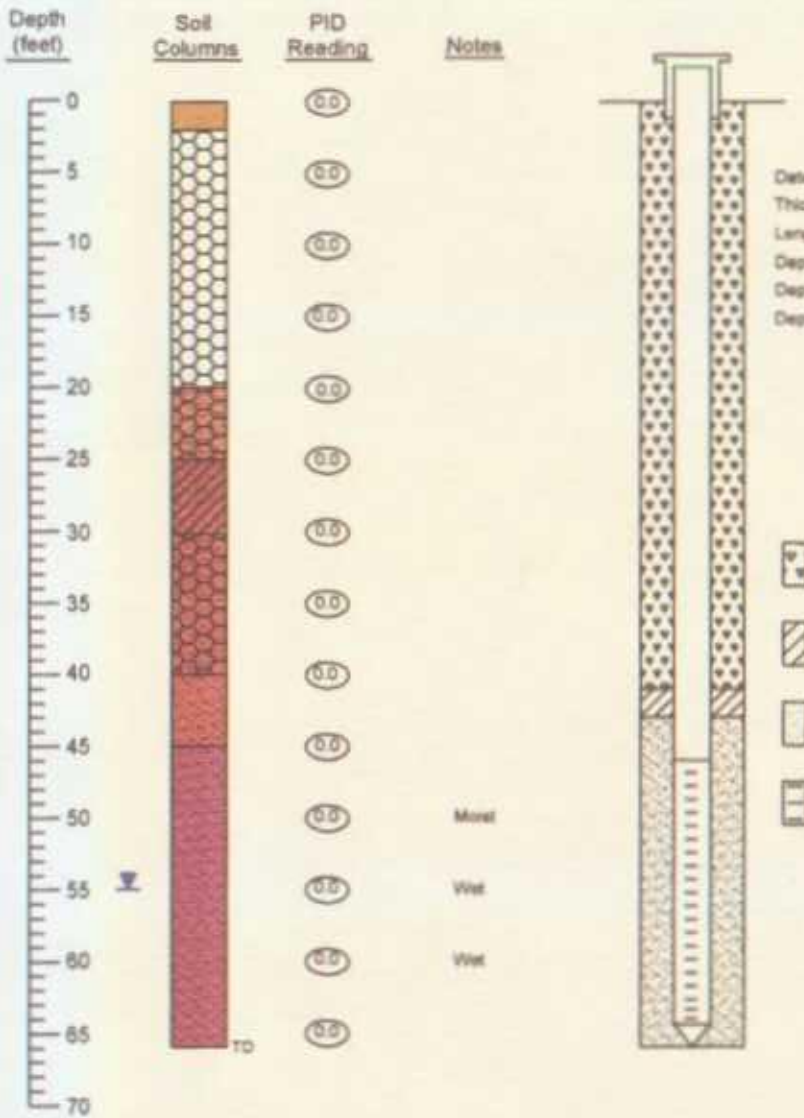
Monitoring Well - 4

Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: JDJ	Checked By: JT
July 25, 2000		

Monitoring Well MW - 5



Monitoring Well Details

Date Drilled	8 - 14 - 01
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	66 ft
Depth of Exploratory Well	66 ft
Depth to Ground Water	55 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted, at 0' - 2'.

Caliche Layer at 2' - 20'

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules, at 20' - 25'.

Sand - (SP) - Red - Tan, Very Fine Grained, Moderately Sorted, Sandstone Debris at 25' - 30'.

Sand - (SP) - Tan - Red, Very Fine Grained, Well Sorted with Caliche Debris, at 30' - 40'.

Sand - (SP) - Tan - Red, Very Fine Grained, Well Sorted, at 40' - 45'.

Sand - (SP) - Red - Brown, Very Fine Grained, Well Sorted, at 45' - 66'.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" (D, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well

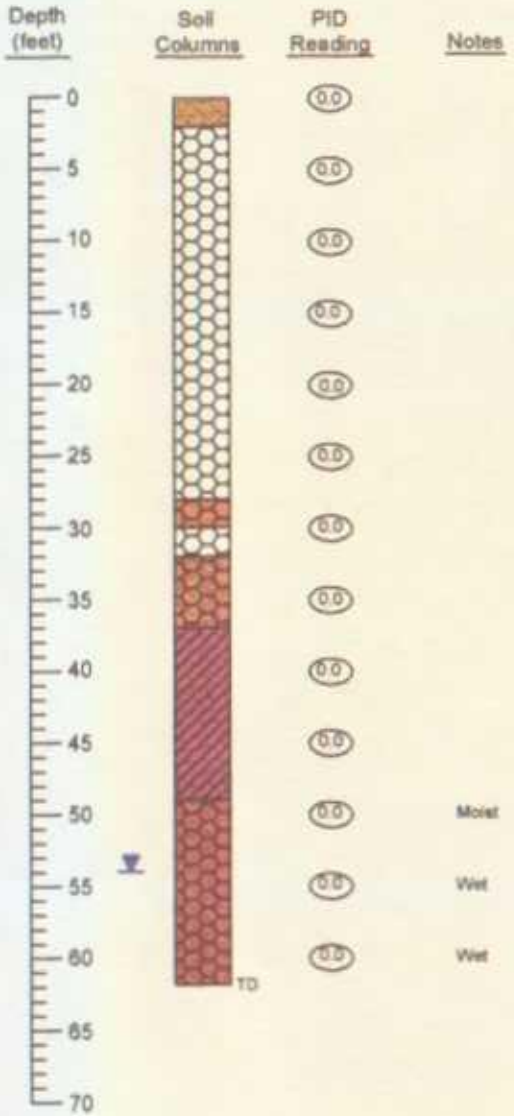
Monitoring Well - 5

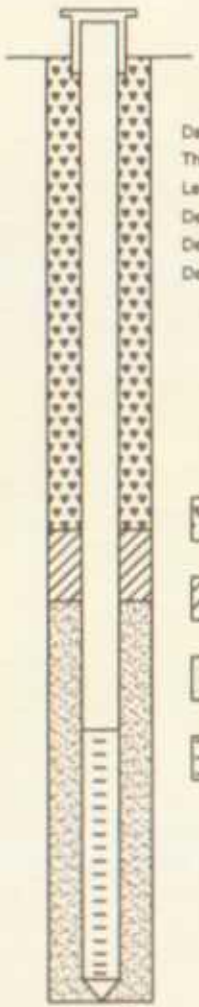
Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: LGM	Checked By: RE
Sept. 27, 2002		

Monitoring Well MW - 6





Monitoring Well Details

Date Drilled	8 - 15 - 01
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	62 ft
Depth of Exploratory Well	62 ft
Depth to Ground Water	54 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted, at 0' - 2'.

Caliche Layer at 2' - 28', and 30' to 32'.

Sand - (SP) - Well Indurated Sand, Dense at 28' - 30' an at 32' to 37'.

Sand - (SP) - Red - Brown, Very Fine Grained, Moderately Sorted, Sandstone Debris at 37' - 49'.

Sand - (SP) - Tan - Red, Very Fine Grained, Well Sorted with Caliche Debris, at 49' - 62'.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well

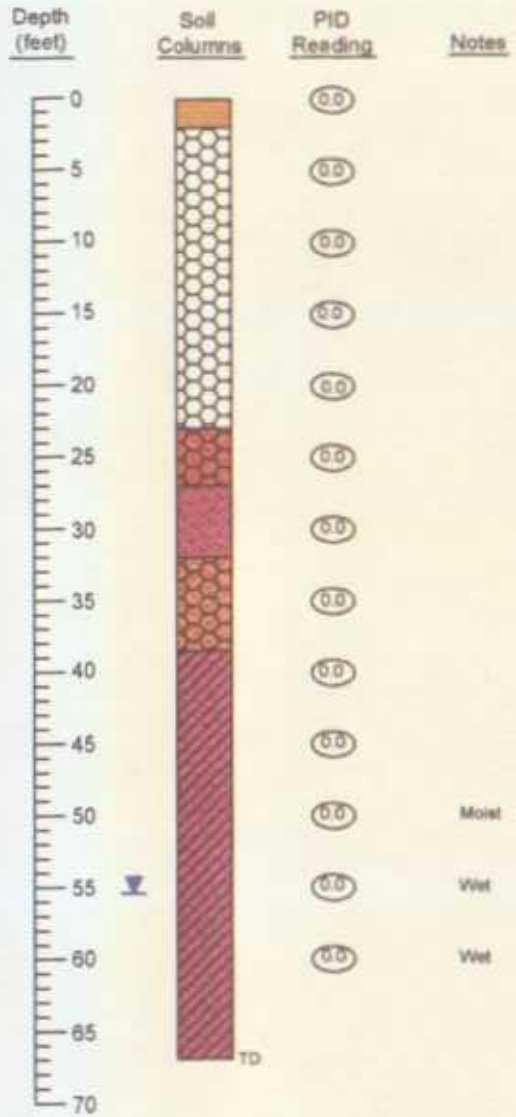
Monitoring Well - 6

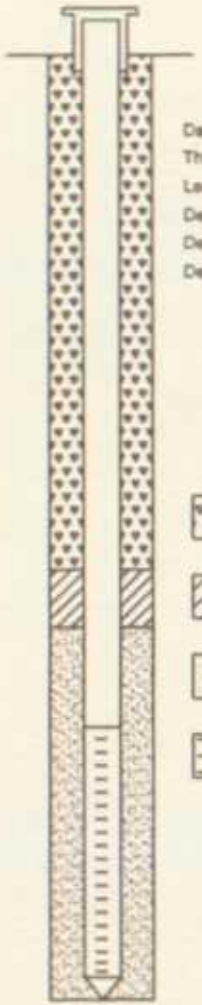
Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: LGM	Checked By: RE
Sept. 27, 2002		

Monitoring Well MW - 7





Monitoring Well Details

Date Drilled	8 - 16 - 01
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	62 ft
Depth of Exploratory Well	62 ft
Depth to Ground Water	55.5 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted, at 0' - 2'.

Caliche Layer at 2' - 23'.

Sand - (SP) - Well Indurated Sand, Dense at 23' - 27'.

Sand - (SP) - Red - Brown, Very Fine Grained, Moderately Sorted, Sandstone Debris at 37' - 67'.

Sand - (SP) - Tan - Red, Very Fine Grained, Well Sorted with Caliche Debris, at 32' - 37'.

Sand - (SP) - Red - Brown, Very Fine Grained, Well Sorted, Sandstone Debris at 27' - 32'.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well

Monitoring Well - 7

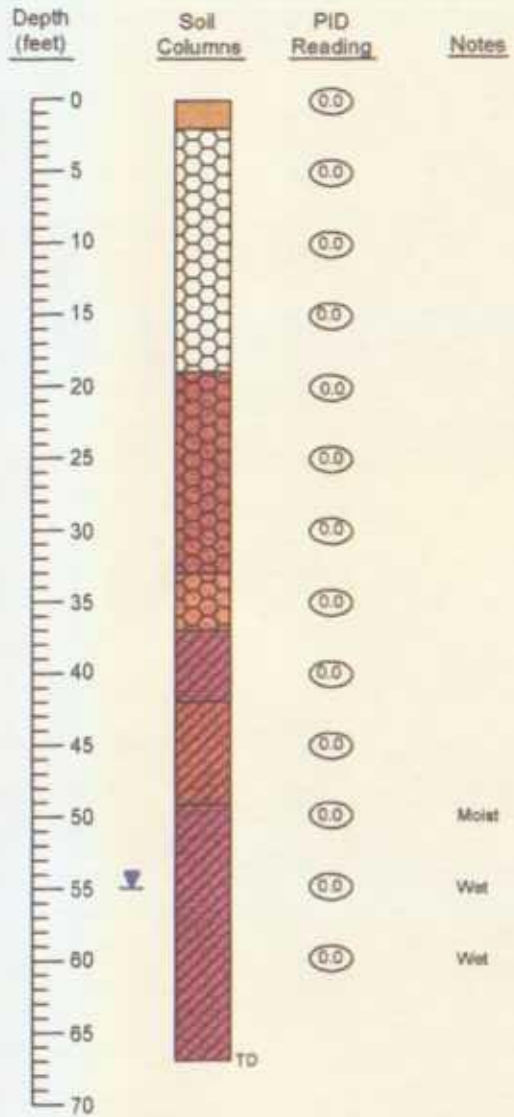
Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

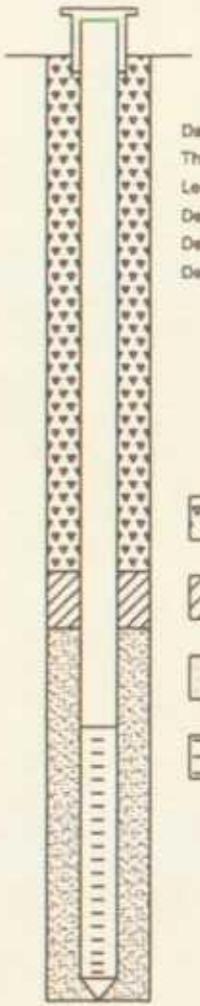
NOVA Safety and Environmental

NOVA safety and environmental

Scale: use scale	Prep By: LGM	Checked By: RE
Sept. 27, 2002		

Monitoring Well MW - 8





Monitoring Well Details

Date Drilled	5 - 15 - 01
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	62 ft
Depth of Exploratory Well	62 ft
Depth to Ground Water	54 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted, at 0' - 2'.

Caliche Layer at 2' - 18'.

Sand - (SP) - Well Indurated Sand, Dense at 18' - 33'.

Sand - (SP) - Red - Brown, Very Fine Grained, Well Sorted, Sandstone Debris at 42' - 48'.

Sand - (SP) - Tan - Red, Very Fine Grained, Well Sorted with Caliche Debris, at 33' - 42'.

Sand - (SP) - Red - Brown, Very Fine Grained, Well Sorted, Sandstone Debris at 37' - 42', and at 48' - 67'.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well

Monitoring Well - 8

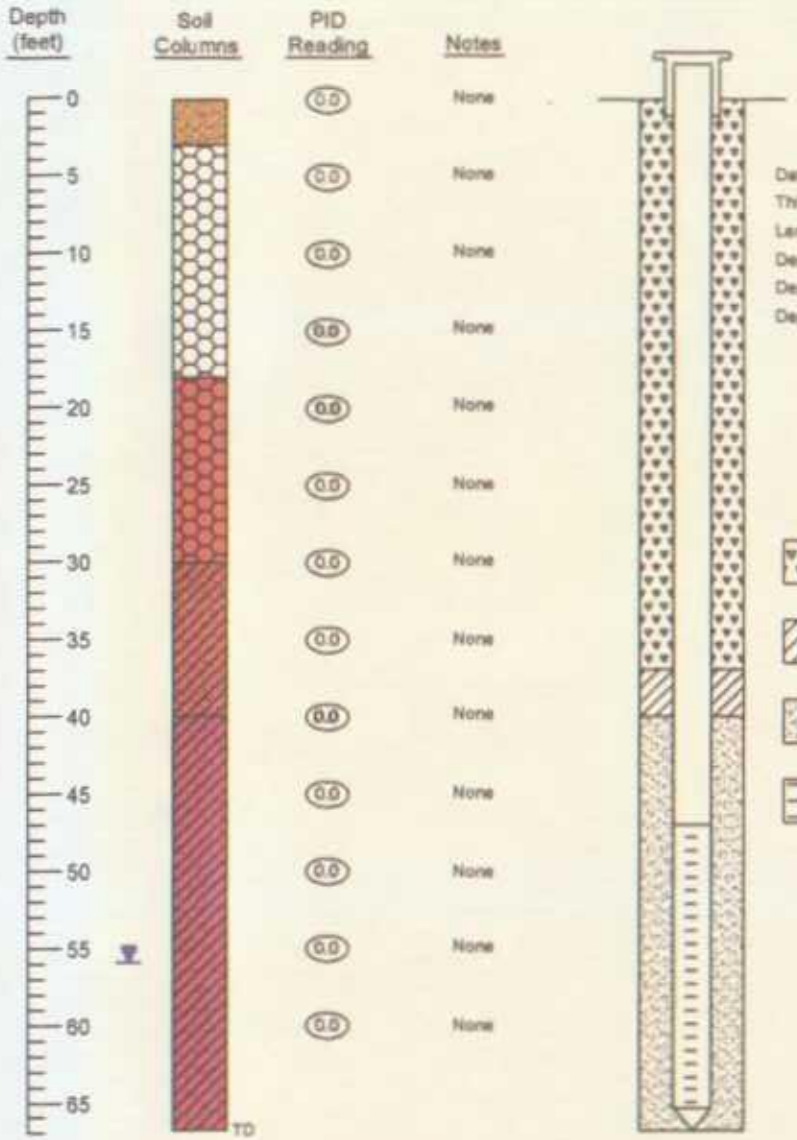
Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale: use scale	Prep By: LGM	Checked By: RE
Sept. 27, 2002		

Monitoring Well MW - 9



Monitoring Well Details

Date Drilled	8 - 16 - 01
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	67 ft
Depth of Exploratory Well	67 ft
Depth to Ground Water	55 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted at 0' - 3'.

Caliche Layer at 3' - 18'.

Sand - (SP) - Red Tan, Very Fine Grained, Well Sorted, at 18' - 30'.

Sand - (SP) - Red - Tan, Very Fine Grained, Moderately Sorted, with Sandstone Debris at 30' - 40'.

Sand - (SP) - Red - Brown, Very Fine Grained, Well Sorted, at 40' - 67'.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well

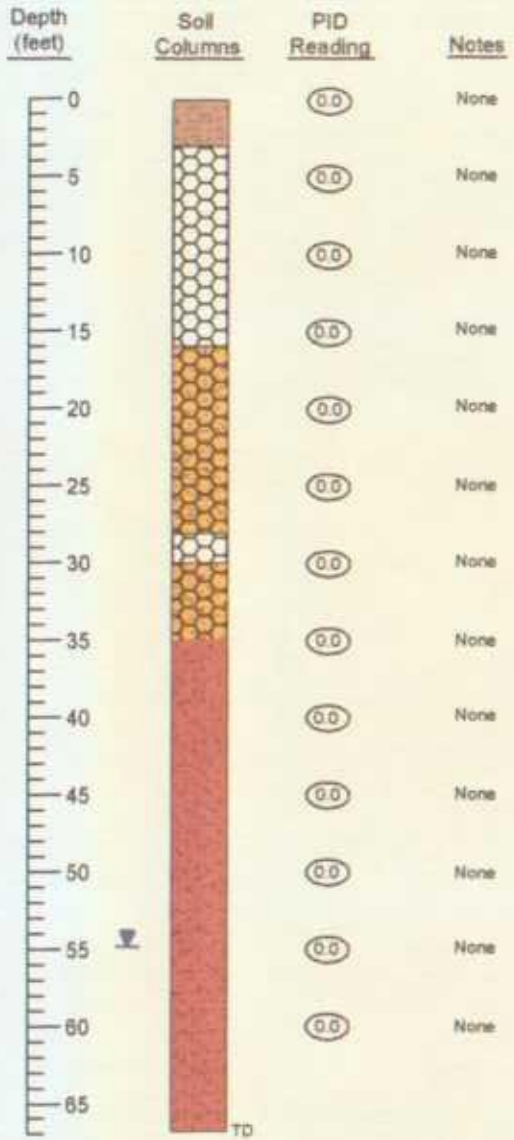
Monitoring Well - 9

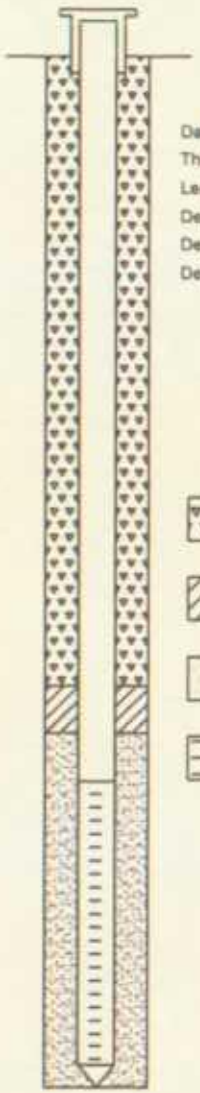
Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: LGM	Checked By: RE
Sept 27, 2002		

Monitoring Well MW - 10





Monitoring Well Details

Date Drilled	12 - 12 - 01
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	67 ft
Depth of Exploratory Well	67 ft
Depth to Ground Water	55 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted, at 0' - 3'.

Caliche Layer, at 3' - 16'.

Sand - (SP) - Red Tan, Very Fine Grained, Well Sorted with Caliche Debris, at 16' - 28'.

Caliche Layer, at 28' - 30'.

Sand - (SP) - Red Tan, Very Fine Grained, Well Sorted with Caliche Debris, at 30' - 35'.

Sand - (SP) - Red Brown, Very Fine Grained, Well Sorted, at 35' - 67'.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well

Monitoring Well - 10

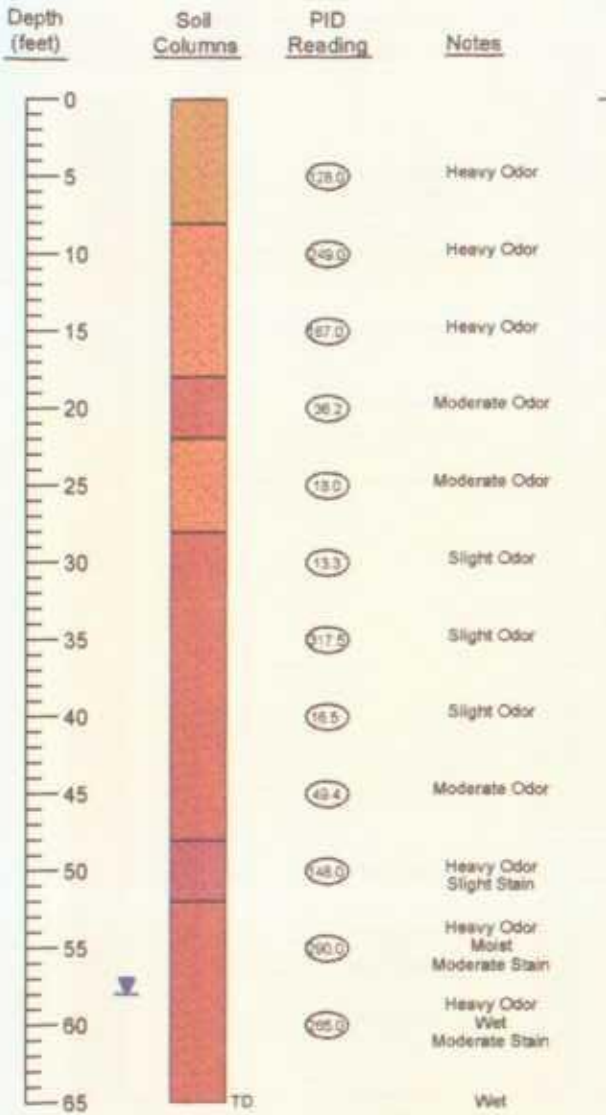
Plains Pipeline, L.P. Darr Angell #2 Lea County, NM

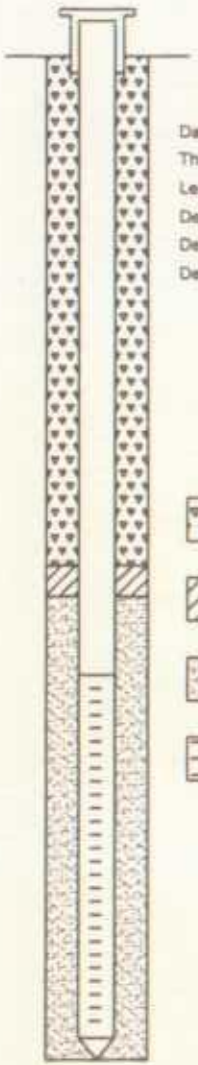
NOVA Safety and Environmental

NOVA safety and environmental

Scale: use scale	Prep By: LGM	Checked By: JT
Sept. 27, 2002		

Recovery Well RW - 1





Recovery Well Details

Date Drilled	6 - 12 - 00
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	25 ft
Depth of PVC Well	65 ft
Depth of Exploratory Well	65 ft
Depth to Ground Water	58 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Tan to Brown, Very Fine Grained, Well Sorted with Caliche Nodules, Chert Nodules at 15' - 18'.

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Large Caliche Nodules, Sandstone Layer at 14' - 16'.

Sand - (SP) - Red Brown, Very Fine Grained, Well Sorted, Sandstone Layer at 31' - 33'.

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Sandstone Nodules.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The Recovery well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface

Boring Log And Recovery Well

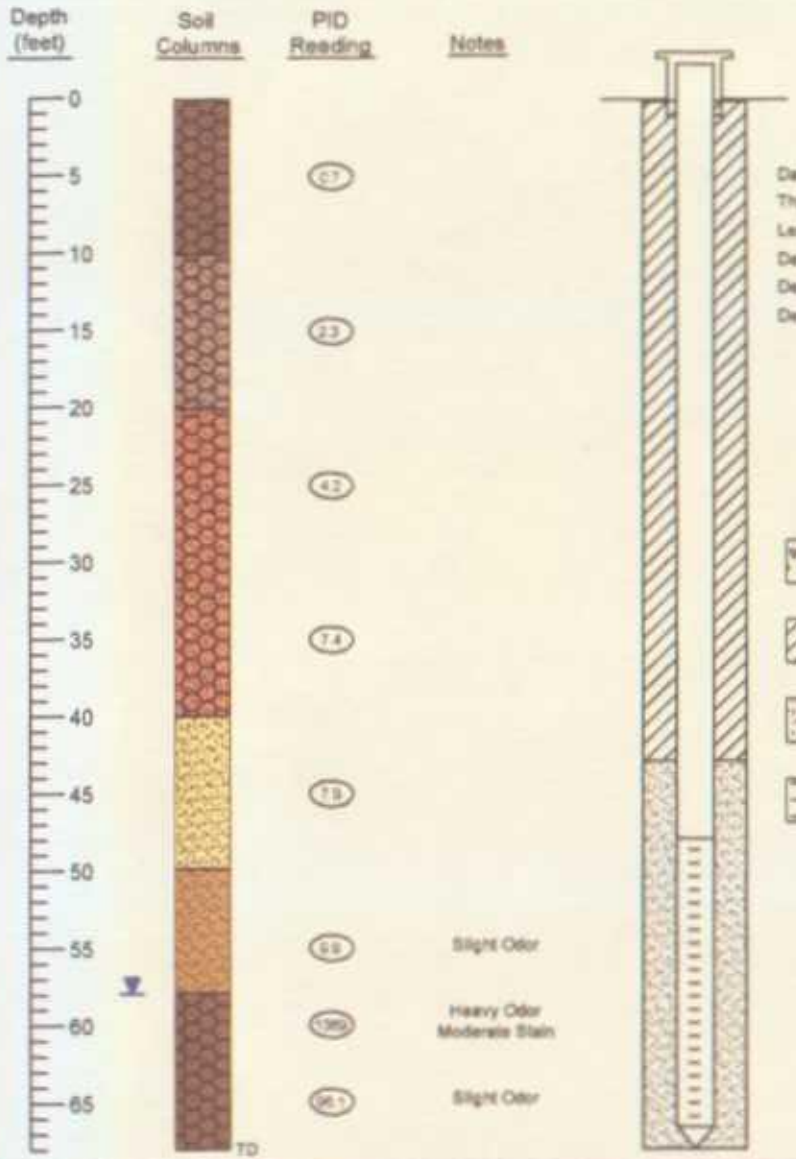
Recovery Well - 1

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: CDS	Checked By: TKC
January 21, 2006		

Recovery Well RW - 3



Recovery Well Details

Date Drilled	11 - 26 - 02
Thickness of Bentonite Seal	43 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	68 ft
Depth of Exploratory Well	68 ft
Depth to Ground Water	56 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand (SP) - Brown, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand - (SP) - Brown to Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand - (SP) - Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand - (SP) - Tan, Very Fine Grained, Well Sorted.

Sand - (SP) - Brown, Very Fine Grained, Well Sorted.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The Recovery well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Detail

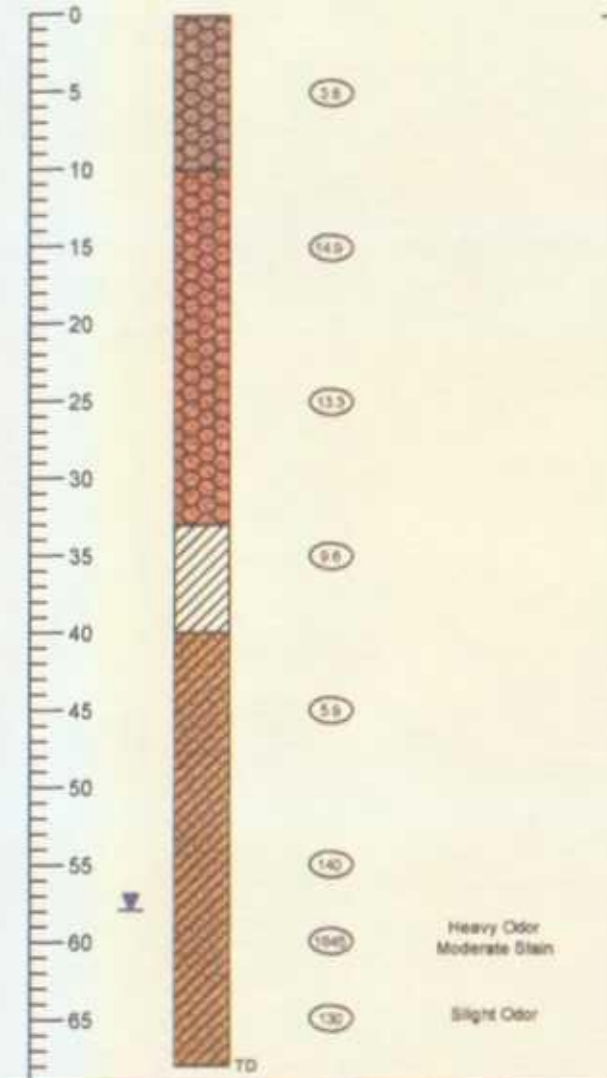
Recovery Well - 3

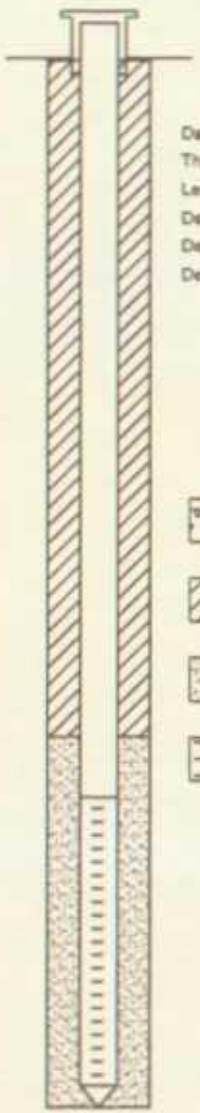
EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: CDS	Checked By: TKC
January 21, 2003		

Recovery Well RW - 4





Recovery Well Details

Date Drilled	11 - 26 - 02
Thickness of Bentonite Seal	44 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	69 ft
Depth of Exploratory Well	69 ft
Depth to Ground Water	56 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown to Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand - (SP) - Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand (SP) - Tan, Very Fine Grained, Well Sorted, Indurated.

Sand (SP) - Brown, Very Fine Grained, Well Sorted, Imbedded with Indurated Sand.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The Recovery well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Detail

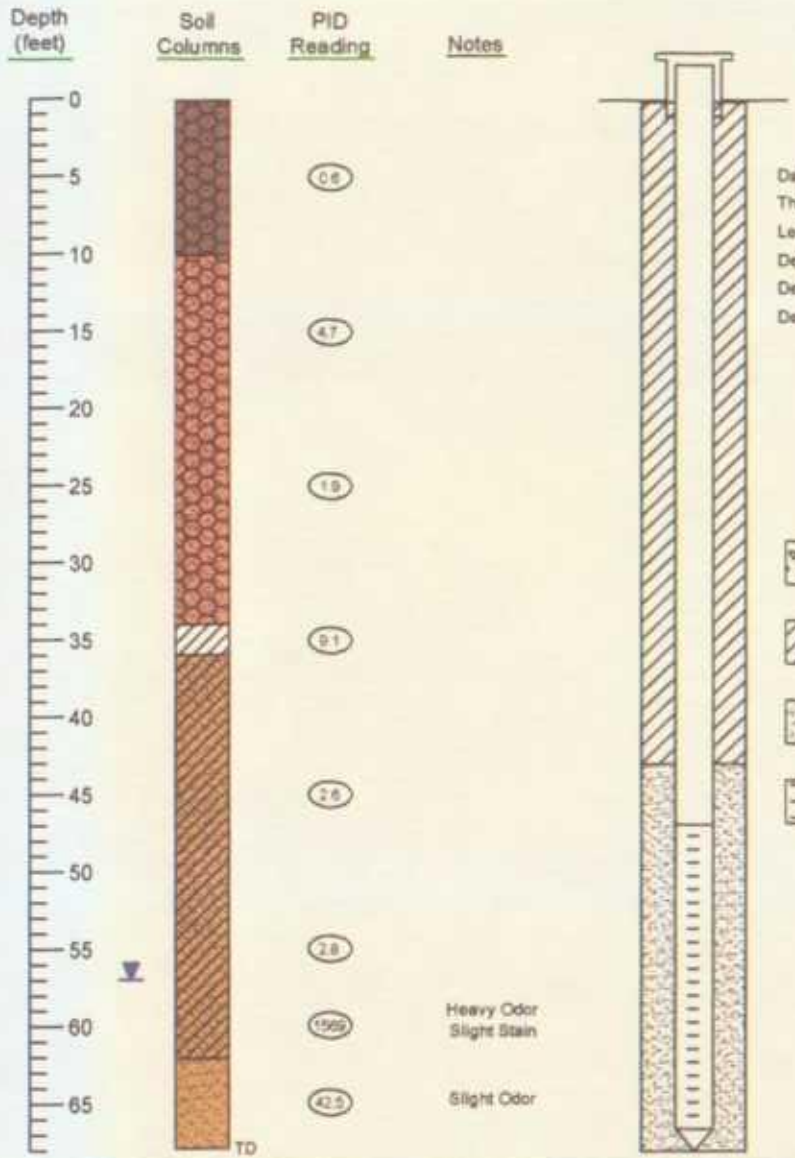
Recovery Well - 4

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: CDS	Checked By: TKC
January 21, 2006		

Recovery Well RW - 5



Recovery Well Details

Date Drilled	11 - 27 - 02
Thickness of Bentonite Seal	43 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	66 ft
Depth of Exploratory Well	66 ft
Depth to Ground Water	57 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand - (SP) - Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand (SP) - Tan, Very Fine Grained, Well Sorted, Indurrated.

Sand (SP) - Brown, Very Fine Grained, Well Sorted, Imbedded with Indurated Sand.

Sand (SP) - Brown, Very Fine Grained, Well Sorted.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The Recovery well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Detail

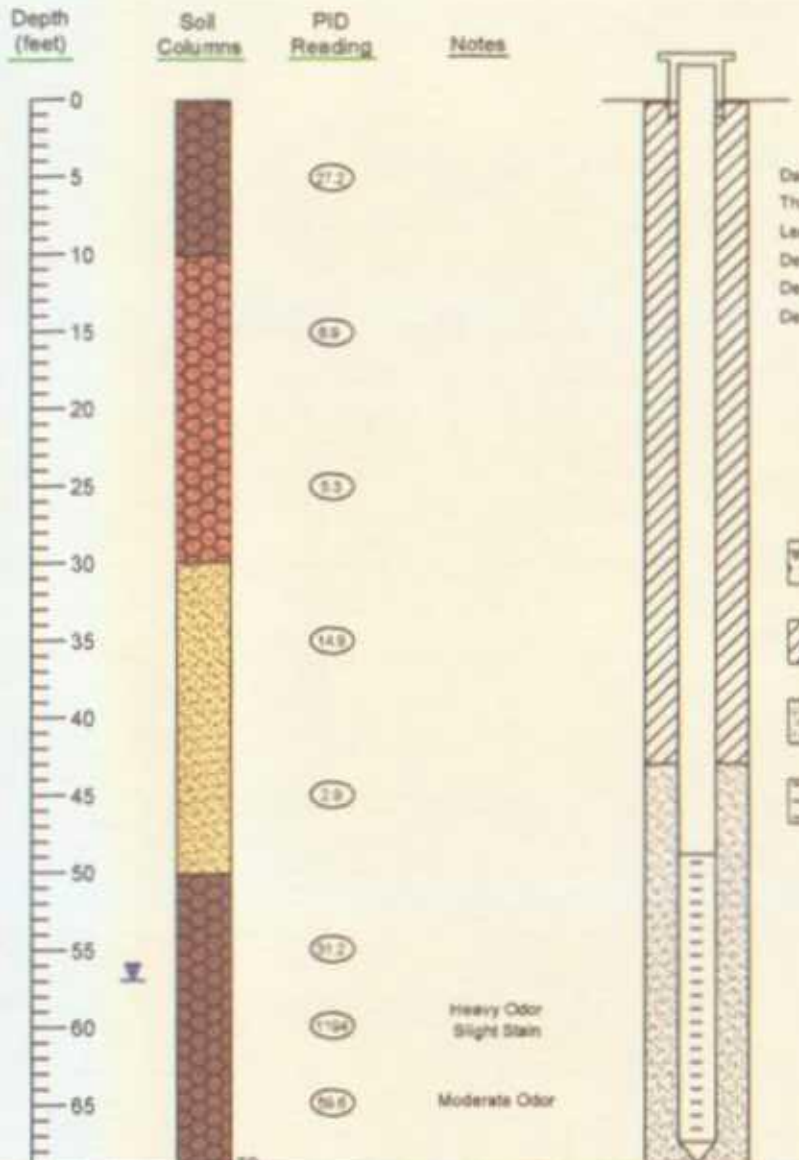
Recovery Well - 5

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: CDS	Checked By: TKC
January 21, 2003		

Recovery Well RW - 6



Recovery Well Details

Date Drilled	11 - 27 - 02
Thickness of Bentonite Seal	43 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	69 ft
Depth of Exploratory Well	69 ft
Depth to Ground Water	57 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown to Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand - (SP) - Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand (SP) - Tan, Very Fine Grained, Well Sorted.

Sand (SP) - Brown, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The Recovery well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Detail

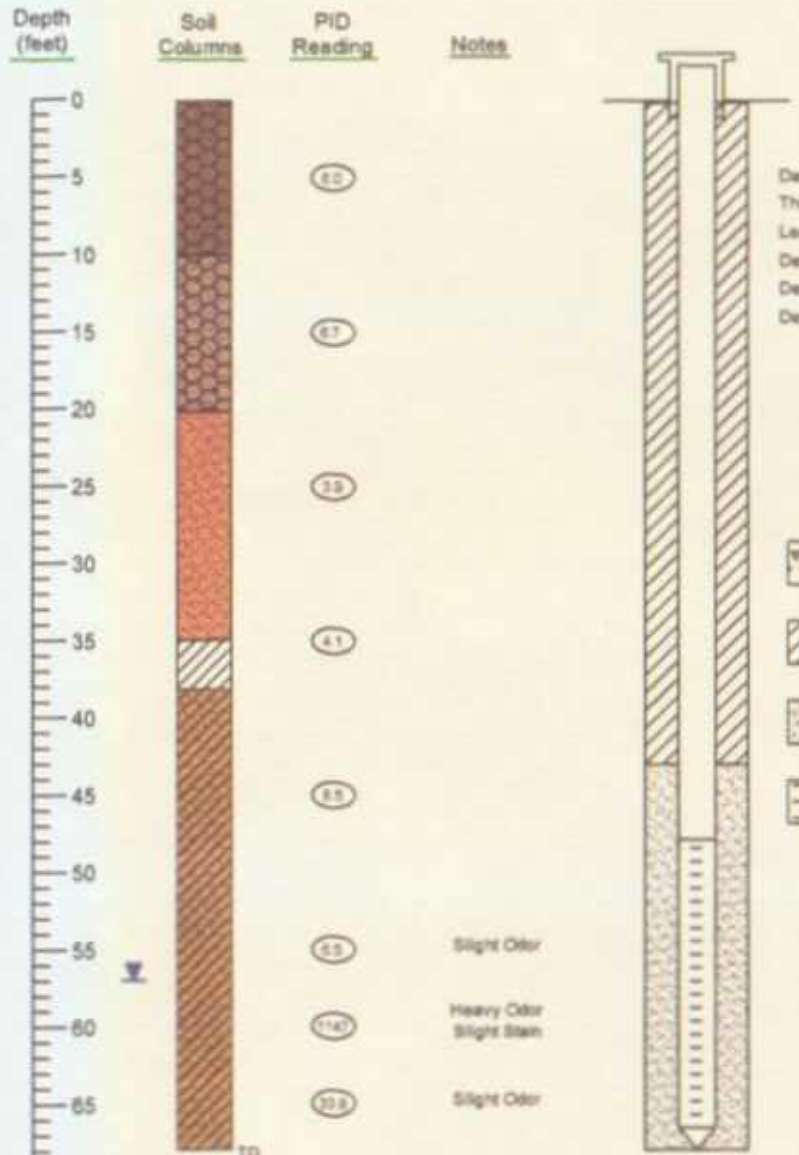
Recovery Well - 6

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: see scale	Prep By: CDS	Checked By: TKC
January 21, 2006		

Recovery Well RW - 7



Recovery Well Details

Date Drilled	12 - 2 - 02
Thickness of Bentonite Seal	43 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	66 ft
Depth of Exploratory Well	66 ft
Depth to Ground Water	57 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Brown, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand - (SP) - Brown to Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand (SP) - Tan, Very Fine Grained, Well Sorted, Imbedded with Caliche Nodules.

Sand (SP) - Tan, Very Fien Grained, Well Sorted, Indurated.

Sand (SP) - Brown, Very Fine Grained, Well Sorted, Imbedded with Indurated Sand.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The Recovery well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Detail

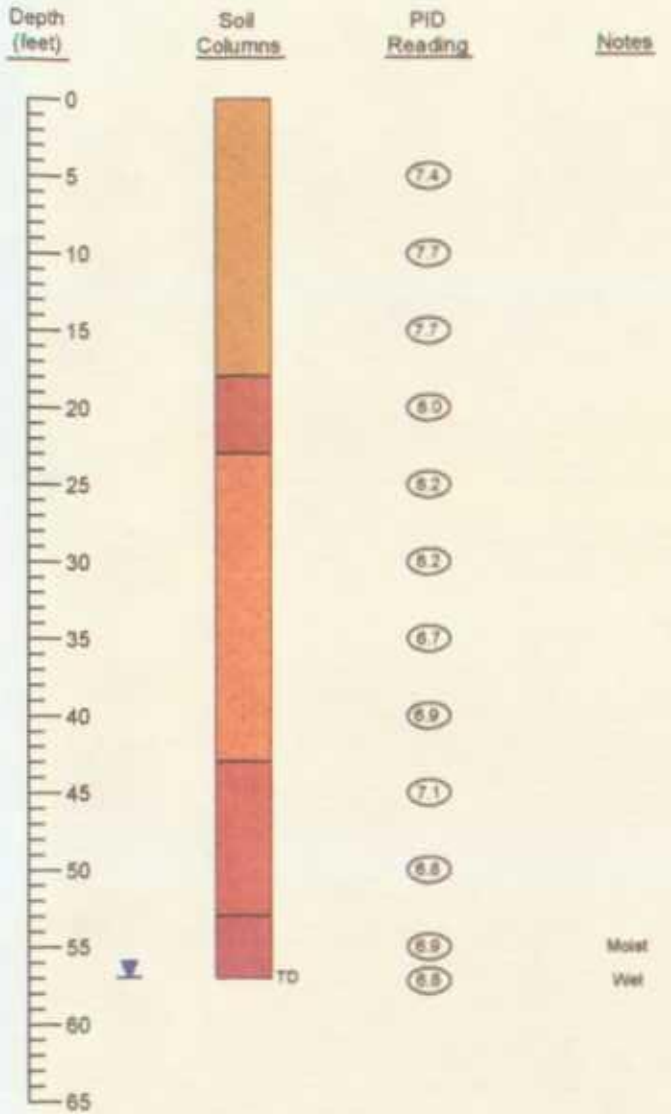
Recovery Well - 7

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: use scale	Prep By: CDS	Checked By: TKC
January 21, 2006		

Soil Boring SB - 1



Legend

- Sand - (SP) - Tan to Brown, Very Fine Grained, Well Sorted with Caliche Nodules.
- Sand - (SP) - Tan to Red, Very Fine Grained, Well Sorted with Calcihe Nodules.
- Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Large Sandstone Nodules, Sandstone Layer at 28' - 30'.
- Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Small Sandstone Nodules.
- Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Silty Sandstone Nodules.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 02 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

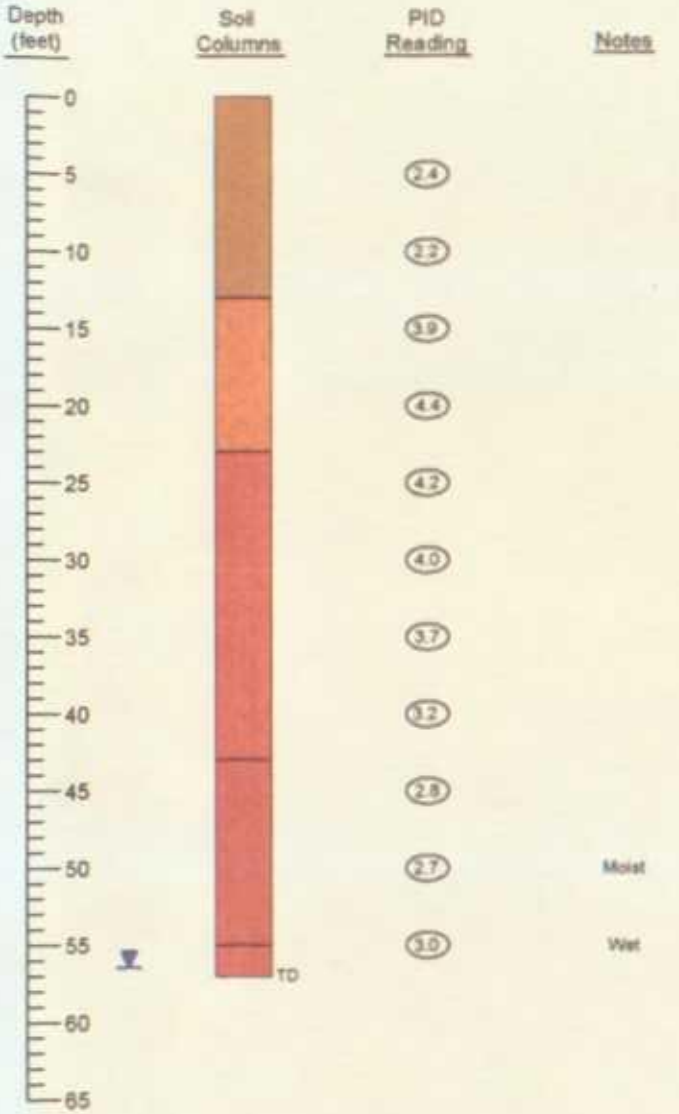
Soil Boring SB - 1

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: TKC
January 21, 2006		

Soil Boring SB - 2



Legend

- Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules.
- Sand - (SP) - Red Brown, Very Fine Grained, Well Sorted.
- Sand - (SP) - Red, Very Fine Grained, Well Sorted, Sandstone Layer at 30' - 32'.
- Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Sandstone Nodules.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 05 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

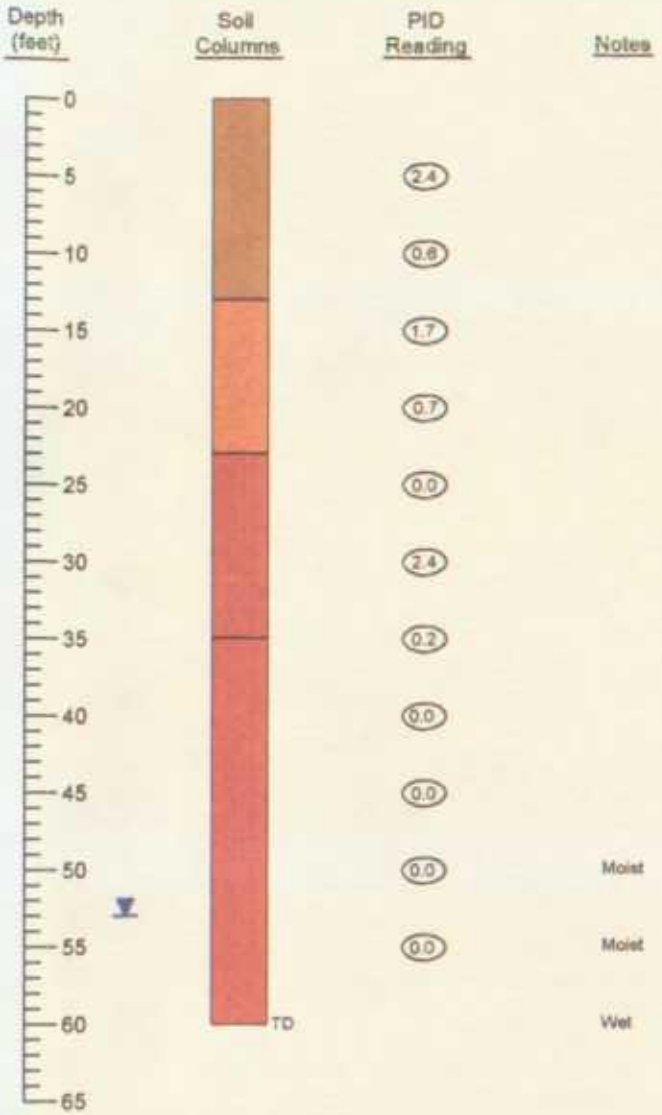
Soil Boring SB - 2

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDB	Checked By: TKC
January 21, 2006		

Soil Boring SB - 3



Legend

- Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Calcihe Nodules.
- Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with SS Nodules, Sandstone Layer at 18' - 23'.
- Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules, Sandstone Layer at 32' - 35'.
- Sand - (SP) - Red, Very Fine Grained, Well Sorted.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 05 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

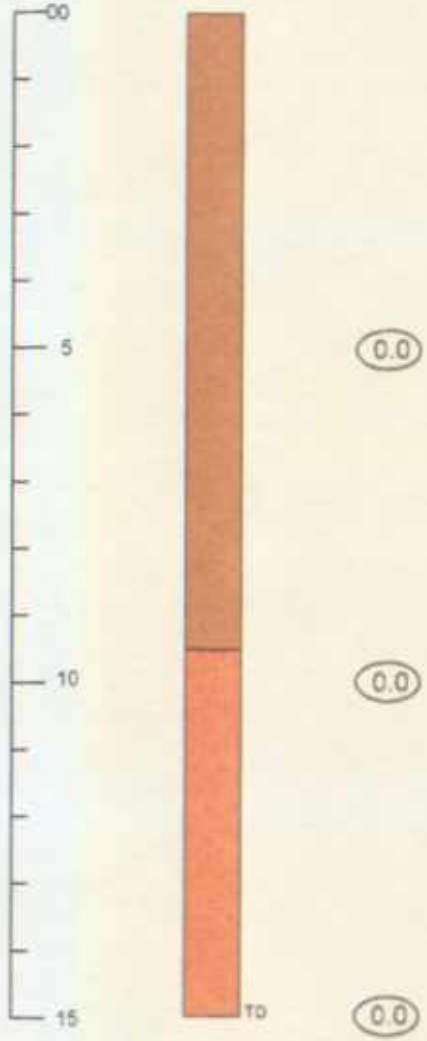
Soil Boring SB - 3

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: TKC
January 21, 2006		

Soil Boring SB - 4



Legend

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules.

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 06 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

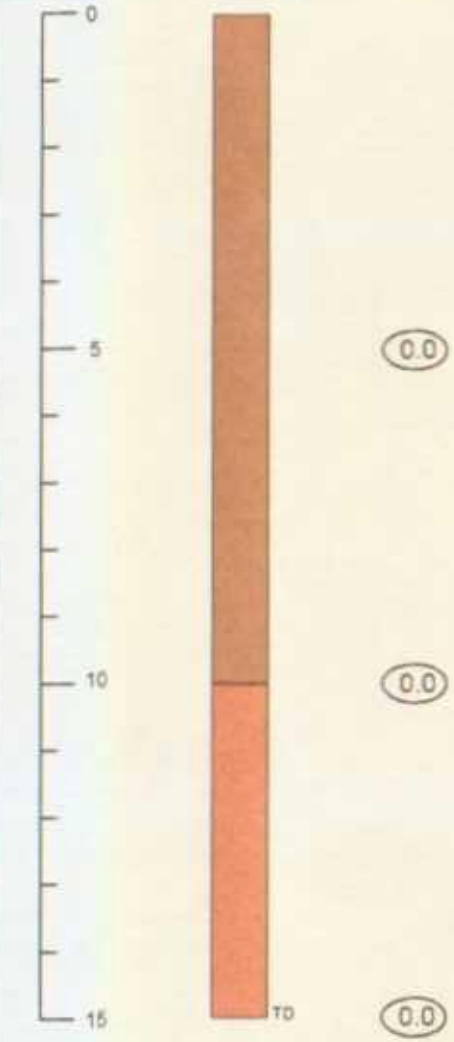
Soil Boring SB - 4

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: TKC
January 21, 2006		

Soil Boring SB - 5



Legend

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules.

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 06 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

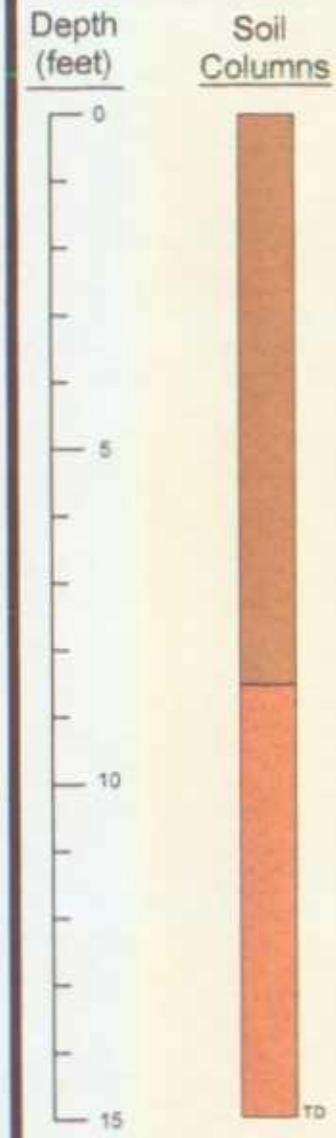
Soil Boring SB - 5

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: THC
January 21, 2006		

Soil Boring SB - 6



Legend

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules, Sandstone Layer at 7.5' - 8.5'.

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 06 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

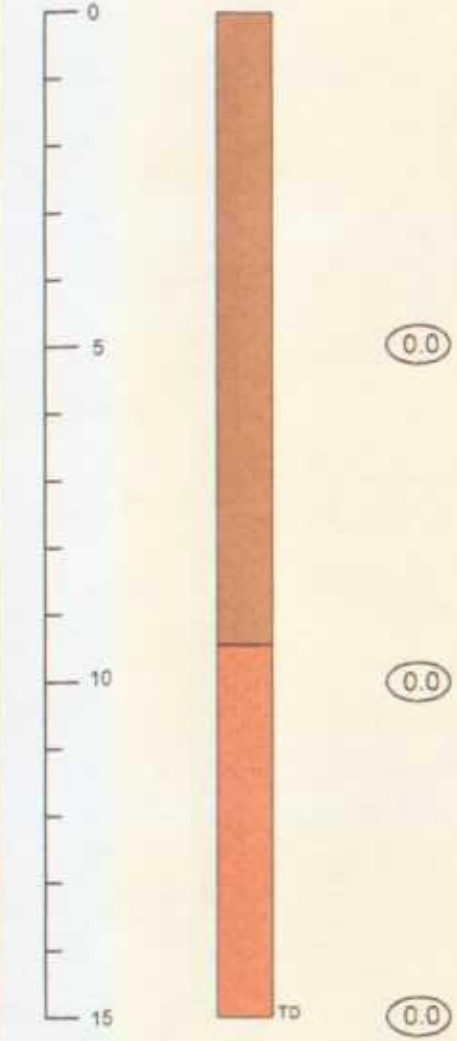
Soil Boring SB - 6

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: TKC
January 21, 2006		

Soil Boring SB - 7



Legend

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules, Sandstone Layer at 8' - 9.5'.

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 06 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

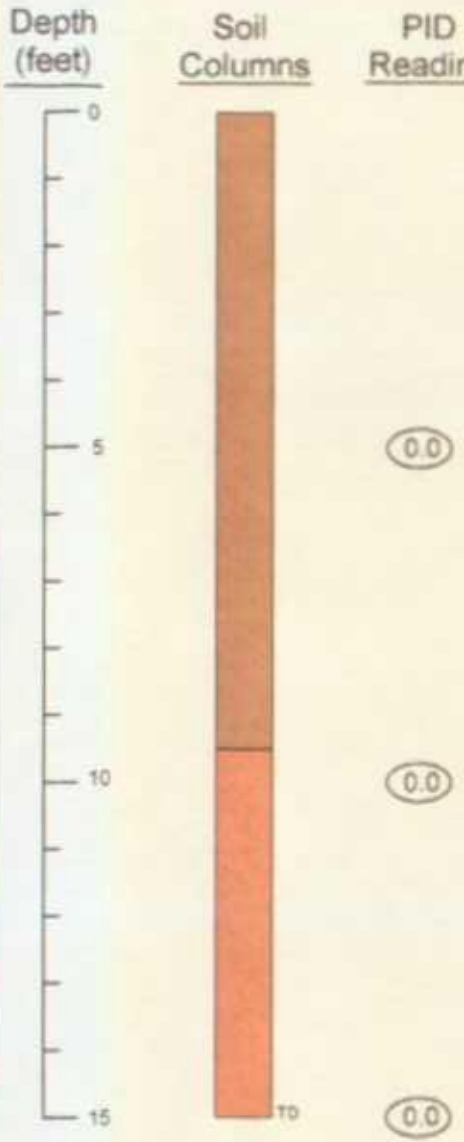
Soil Boring SB - 7

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: T4C
January 21, 2006		

Soil Boring SB - 8



Legend

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Calcihe Nodules, Sandstone Layer at 8' - 9.5'.

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled - 06 / 06 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

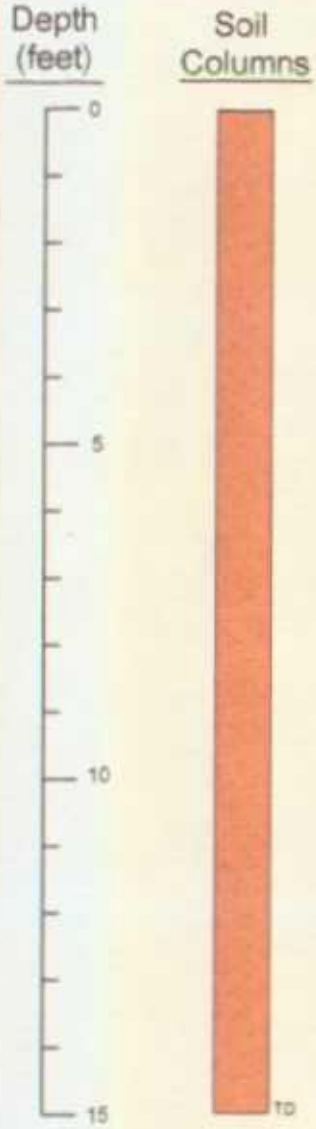
Soil Boring SB - 8

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: TAC
January 21, 2006		

Soil Boring SB - 9



Legend

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules, Sandstone Layer at 8' - 9'.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 06 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

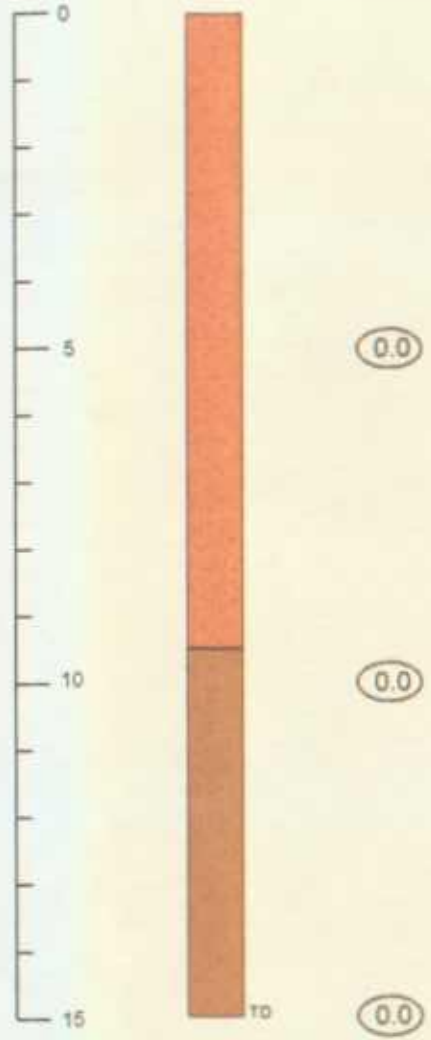
Soil Boring SB - 9

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDB	Checked By: TKC
January 21, 2006		

Soil Boring SB - 10



Legend

Sand - (SP) - Red to Brown, Very Fine Grained, Well Sorted with Caliche Nodules, Sandstone Layer at 8' - 9.5'.

Sand - (SP) - Tan, Very Fine Grained, Well Sorted with Calcihe Nodules.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 06 / 06 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

Soil Boring SB - 10

EOTT Energy Corp. Darr Angell #2 Lea County, NM

NOVA Safety and Environmental

Scale: NTS	Prep By: CDS	Checked By: TKC
January 21, 2006		