

AP - 007

**GENERAL
CORRESPONDENCE**

YEAR(S):
2007-1998

Stone, Ben, EMNRD

From: Camille J Reynolds [cjreynolds@paalp.com]
Sent: Wednesday, February 14, 2007 1:05 PM
To: Stone, Ben, EMNRD
Subject: Darr Angell #4 release site

Attachments: 1-11-07.pdf



1-11-07.pdf (191 KB)

Mr. Stone,

In November, 2005, Plains Marketing L.P. (Plains) submitted a Site Restoration Work Plan and Proposed Soil Closure Strategy (Work Plan) to the New Mexico Oil Conservation Division (NMOCD) for the Darr Angell #4 crude oil pipeline spill site (NMOCD # AP-07). For reference, the site is located in Lea County, approximately 12 miles northeast of Lovington, New Mexico.

The Work Plan proposed soil remediation activities intended to progress soil issues at the site toward an NMOCD approved closure.

The Work Plan was approved by the NMOCD and the excavation activities commenced in March 2006. In March 2006, soil was excavated from the existing excavation and stockpiled onsite. On completion of the excavation activities, soil samples were collected from the sidewalls of the excavation and submitted to the laboratory for determination of total petroleum hydrocarbons (TPH). The laboratory analytical results indicated the sidewalls of the excavation were below NMOCD regulatory levels and the excavation activities ceased. The excavation was lined with a synthetic liner in accordance with the approved Work Plan. The stockpiled soil was placed in an onsite soil cell to allowed to bioremediate. As proposed in the Work Plan, the soil within the soil cell was sampled periodically to determine the TPH levels within the soil cell. Analytical results indicated the soil within the cell was above NMOCD regulatory levels with respect to TPH. In the fall of 2006, approximately 500 cubic yards (cy) of non-impacted soil was transported to the site and blended with excavated soil contained in the soil cell. Fertilizer was added to the soil cell to augment the bioremediation of the hydrocarbon impacted soil. Analytical results of soil samples collected in January 2007, indicated the TPH concentrations within the soil cell ranged from 54.1 to 216 mg/K TPH. In January 2006, discussions between Plains representatives and the landowner (Mr. Darr Angell) produced an agreement allowing Plains to place excavated soil as is, in the existing excavation and on top of the synthetic liner. The agreement is contingent on NMOCD approval, which Plains is requesting at this time.

On NMOCD approval, Plains will backfill the the excavation with soil contained in the onsite soil cell and site restoration activities will commence. A Soil Closure Request will be submitted to the NMOCD at the conclusion of the backfilling activities.

Groundwater monitoring and quarterly sampling will continue and an Annual Groundwater Monitoring Report will be submitted to the NMOCD by April 1st of each year.

Thank you for your consideration in this matter.

Sincerely,
Camille Reynolds
Remediation Coordinator
Plains All American

office: 505/396-3341
fax: 505/396-2754
cellular: 505/441-0965

<<1-11-07.pdf>>

Attention:

The information contained in this message and/or attachments is intended only for the

Martin, Ed, EMNRD

From: Curt Stanley [cstanley@novatraining.cc]
Sent: Wednesday, April 05, 2006 12:45 PM
To: Martin, Ed, EMNRD
Cc: Camille Reynolds; Todd Choban
Subject: Darr Angell #1 Soil Data
Attachments: Darr Angell #1 Soil Data.pdf

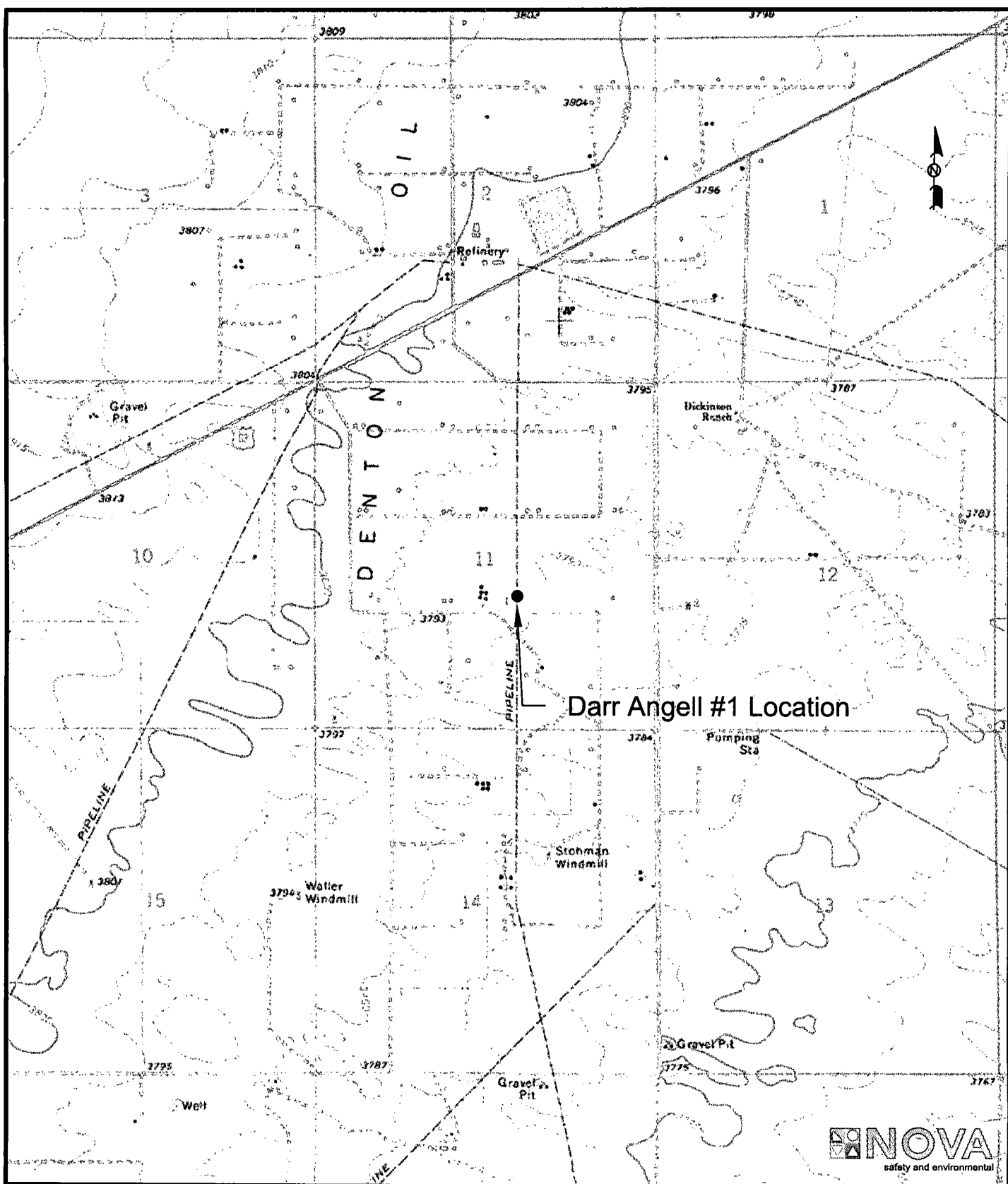
Ed,

Some time ago, you requested soil boring logs and soil data for the Plains Marketing, L.P. Darr Angell #1 release site in Lea County, NM. I have attached the data you requested.

Thank You,

Curt Stanley
NOVA Safety and Environmental
432-520-7720

4/6/2006



NOVA
safety and environmental

Location

NW1/4 SE1/4 Sec 11 T15S R37E

Lat. 33° 01' 36.0"N
Long 103° 10' 00.7"W

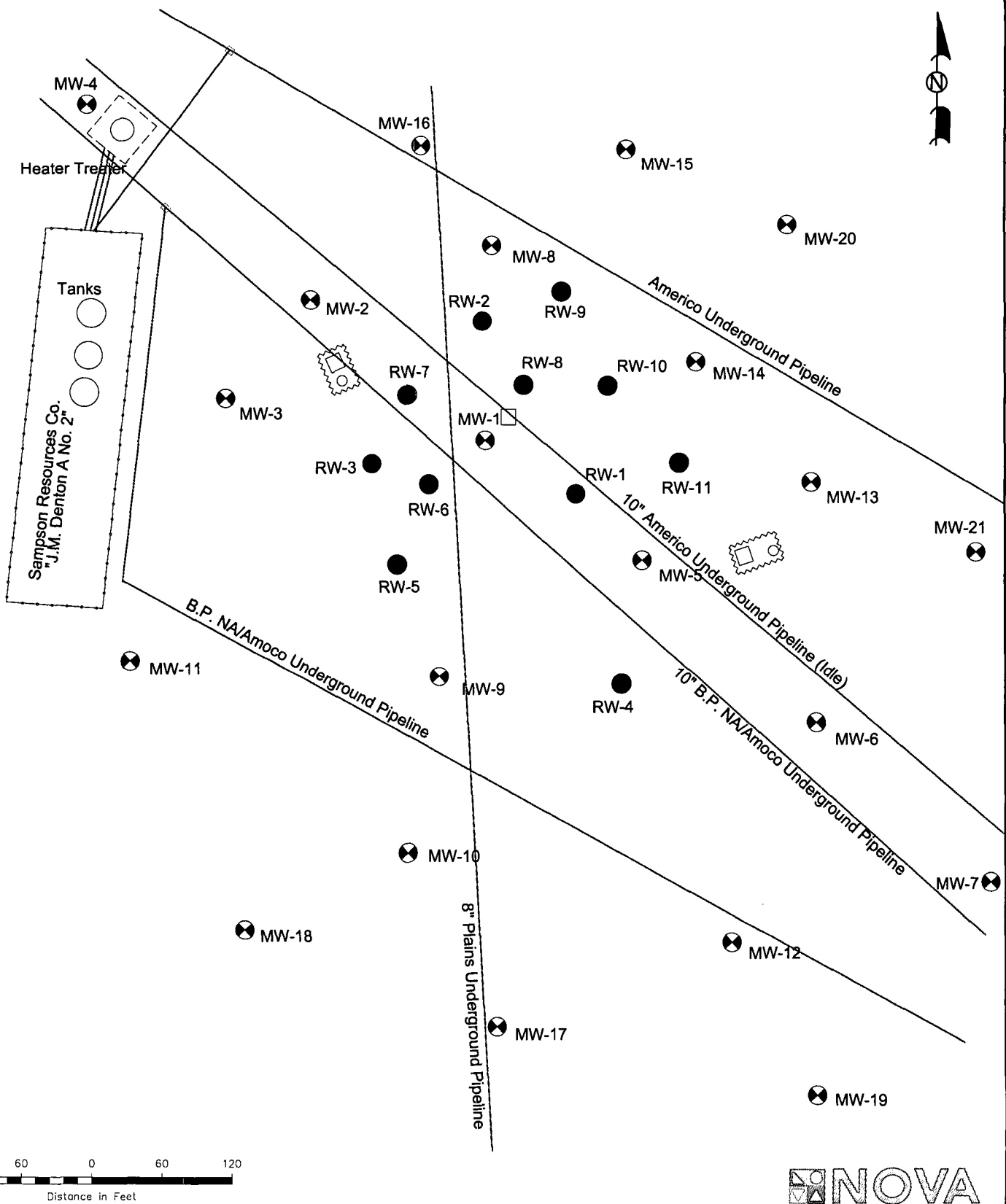
Figure 1
Site Location Map
Plains Marketing, L.P.

Darr Angell #1
Lea County, NM

NOVA Safety and Environmental

Scale: 1"=2000' Prep By: DPM Checked By: MRE

February 15, 2005



LEGEND:

- ⊗ Monitoring Well Location
- Recovery Well Location
- - - Product/Recovery Line
- Shed
- Poly Tank
- ◇ Valve Body

**Figure 2
Site Map**

Plains Marketing, L.P.
Darr Angell #1
Lea County, NM

NOVA Safety and Environmental

NW1/4 SE1/4 Sec 11 T15S R37E	33° 01' 36.0"N 103° 10' 00.7"W
Scale: 1"=120'	Prep By: CS
September 2, 2004	Checked By: TKC

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS PIPELINE, L.P.
DARR ANGELL #1
LEA COUNTY, NM

Results are reported in mg/kg.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030					Methods: EPA SW 846-8021B, 5030		
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	GRO C ₆ -C ₁₀	DRO >C ₁₀ -C ₂₈	TPH C ₆ -C ₂₈
MW10 0-2' C	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 3-5' C	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 8-10' C	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 13-15' C	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 18-20' C	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 23-25' SS	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 28-30' SS	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 33-35' SS	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 38-40' SS	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 43-45' SS	06/20/00	-	-	-	-	-	<10	<10	<20
MW10 48-50' SS	06/20/00	<0.100	<0.100	<0.100	0.3	0.155	37	339	376
MW10 53-55' SS	06/20/00	-	-	-	-	-	147	443	590
MW10 65' C	06/20/00	-	-	-	-	-	<10	148	148
MW11 0-2' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 3-5' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 8-10' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 13-15' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 18-20' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 23-25' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 28-30' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 33-35' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 38-40' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 43-45' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 48-50' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 53-55' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW11 58-60' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 0-2' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 3-5' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 8-10' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 13-15' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 18-20' C	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 23-25' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 28-30' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 33-35' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 38-40' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 43-45' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 48-50' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 53-55' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW12 58-60' SS	06/21/00	-	-	-	-	-	<10	<10	<20
MW13 0-2' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 3-5' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 13-15' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 18-20' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 23-25' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 28-30' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 33-35' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 38-40' SS	06/22/00	-	-	-	-	-	<10	<10	<20

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CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS PIPELINE, L.P.
DARR ANGELL #1
LEA COUNTY, NM

Results are reported in mg/kg.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030					Methods: EPA SW 846-8021B,5030		
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	GRO C ₆ -C ₁₀	DRO >C ₁₀ -C ₂₈	TPH C ₆ -C ₂₈
MW13 43-45' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 48-50' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW13 53-55' SS	06/22/00	<0.100	<0.100	<0.100	<0.100	<0.100	<10	331	331
MW13 58-60'	06/22/00	-	-	-	-	-	<10	125	125
MW14 0-2' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 3-5' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 8-10' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 13-15' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 18-20' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 23-25' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 28-30' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 33-35' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 38-40' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 43-45' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW14 48-50' SS	06/22/00	<0.100	<0.100	<0.100	<0.100	<0.100	24	735	759
MW14 53-55' SS	06/22/00	<0.100	0.192	0.463	1.74	0.758	385	3170	3555
MW14 58-60' SS	06/22/00	-	-	-	-	-	<10	191	191
MW15 0-2' C	06/22/00	-	-	-	-	-	<10	27	27
MW15 3-5' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 8-10' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 13-15' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 18-20' C	06/22/00	-	-	-	-	-	<10	10	10
MW15 23-25' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 28-30' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 33-35' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 38-40' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 43-45' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 48-50' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 53-55' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW15 58-60' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 0-2' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 3-5' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 8-10' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 13-15' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 18-20' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 23-25' C	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 28-30' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 33-35' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 38-40' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 43-45' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 48-50' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 53-55' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW16 58-60' SS	06/22/00	-	-	-	-	-	<10	<10	<20
MW17 0-2' C	07/03/00	-	-	-	-	-	<10	22	22
MW17 3-5' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW17 8-10' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW17 13-15' C	07/03/00	-	-	-	-	-	<10	<10	<20

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PLAINS PIPELINE, L.P.
DARR ANGELL #1
LEA COUNTY, NM

Results are reported in mg/kg.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030					Methods: EPA SW 846-8021B, 5030		
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	GRO C ₆ -C ₁₀	DRO >C ₁₀ -C ₂₈	TPH C ₆ -C ₂₈
MW17 18-20' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW17 23-25' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW17 28-30' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW17 33-35' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW17 38-40' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW17 43-45' SS	07/03/00	-	-	-	-	-	<20	<20	<40
MW17 48-50' SS	07/03/00	-	-	-	-	-	<20	<20	<40
MW17 53-55' SS	07/03/00	-	-	-	-	-	<10	<10	<20
MW17 58-60' SS	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 0-2' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 3-5' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 8-10' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW 18 13-15' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 18-20' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 23-25' SS	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 28-30' SS	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 33-35' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 38-40' SS	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 43-45' SS	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 48-50' SS	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 53-55' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW18 58-60' C	07/03/00	-	-	-	-	-	<10	<10	<20
MW19 0-2' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 3-5' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 8-10' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 13-15' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 18-20' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 23-25' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 28-30' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 33-35' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 38-40' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 43-45' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 48-50' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 53-55' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW19 58-60' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 0-2' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 3-5' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 8-10' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 13-15' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 18-20' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 23-25' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 28-30' C	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 33-35' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 38-40' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 43-45' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 48-50' SS	07/05/00	-	-	-	-	-	<10	<10	<20
MW20 53-55' SS	07/05/00	-	-	-	-	-	<10	<10	<20

TABLE 1
CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS PIPELINE, L.P.
DARR ANGELL #1
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SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030					Methods: EPA SW 846-8021B,5030		
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	GRO C ₆ -C ₁₀	DRO >C ₁₀ -C ₂₈	TPH C ₆ -C ₂₈
MW20 58-60' SS	07/05/00	-	-	-	-	-	<10	<10	<20
SB1 0-2' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB1 3-5' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB1 8-10' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB1 13-15' C	06/20/00	-	-	-	-	-	<10	11	11
SB2 0-2' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB2 3-5' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB2 8-10' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB2 13-15' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB3 0-2' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB3 3-5' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB3 8-10' C	06/20/00	-	-	-	-	-	<10	<10	<20
SB3 13-15' C	06/20/00	-	-	-	-	-	<10	<10	<20
RW1 0-2' C	07/06/00	-	-	-	-	-	<10	<10	<20
RW1 3-5' C	07/06/00	-	-	-	-	-	<10	<10	<20
RW1 8-10' C	07/06/00	-	-	-	-	-	<10	<10	<20
RW1 13-15' C	07/06/00	-	-	-	-	-	<10	<10	<20
RW1 18-20' C	07/06/00	-	-	-	-	-	<10	<10	<20
RW1 23-25' SS	07/06/00	-	-	-	-	-	<10	<10	<20
RW1 28-30' C	07/06/00	-	-	-	-	-	<10	<10	<20
RW1 33-35' C	07/06/00	-	-	-	-	-	<10	<10	<20
RW1 38-40' SS	07/06/00	-	-	-	-	-	260	729	989
RW1 43-45' SS	07/06/00	-	-	-	-	-	491	926	1417
RW1 48-50' SS	07/06/00	-	-	-	-	-	61	1116	1177
RW1 53-55' SS	07/06/00	<0.100	3.31	3.25	13.1	5.36	1545	10090	11635
RW1 58-60' SS	07/06/00	-	-	-	-	-	78	1921	1999
RW2 0-2'	07/07/00	-	-	-	-	-	<10	<10	<20
RW2 3-5'	07/07/00	-	-	-	-	-	<10	<10	<20
RW2 8-10'	07/07/00	-	-	-	-	-	<10	<10	<20
RW2 13-15'	07/07/00	-	-	-	-	-	<10	<10	<20
RW2 18-20'	07/07/00	-	-	-	-	-	<10	<10	<20
RW2 23-25'	07/07/00	-	-	-	-	-	<10	<10	<20
RW2 28-30'	07/07/00	-	-	-	-	-	<10	<10	<20
RW2 33-35'	07/07/00	-	-	-	-	-	<10	<10	<20
RW2 38-40'	07/07/00	-	-	-	-	-	13	333	346
RW2 43-45'	07/07/00	-	-	-	-	-	14	672	686
RW2 48-50'	07/07/00	-	-	-	-	-	18	728	746
RW2 53-55'	07/07/00	<0.100	2.23	2.04	7.14	2.97	1282	11057	12339
RW2 58-60'	07/07/00	<0.100	0.127	<0.100	0.637	0.259	196	5594	5790
RW3 0-2'	07/10/00	-	-	-	-	-	<10	34	34
RW3 3-5'	07/10/00	-	-	-	-	-	<10	23	23
RW3 8-10'	07/10/00	-	-	-	-	-	<10	<10	<20
RW3 13-15'	07/10/00	-	-	-	-	-	<10	<10	<20
RW3 18-20'	07/10/00	-	-	-	-	-	<10	<10	<20
RW3 23-25'	07/10/00	<0.100	<0.100	<0.100	<0.100	<0.100	<10	<10	<20
RW3 28-30'	07/10/00	-	-	-	-	-	<10	<10	<20
RW3 33-35'	07/10/00	-	-	-	-	-	<10	80	80

TABLE 1

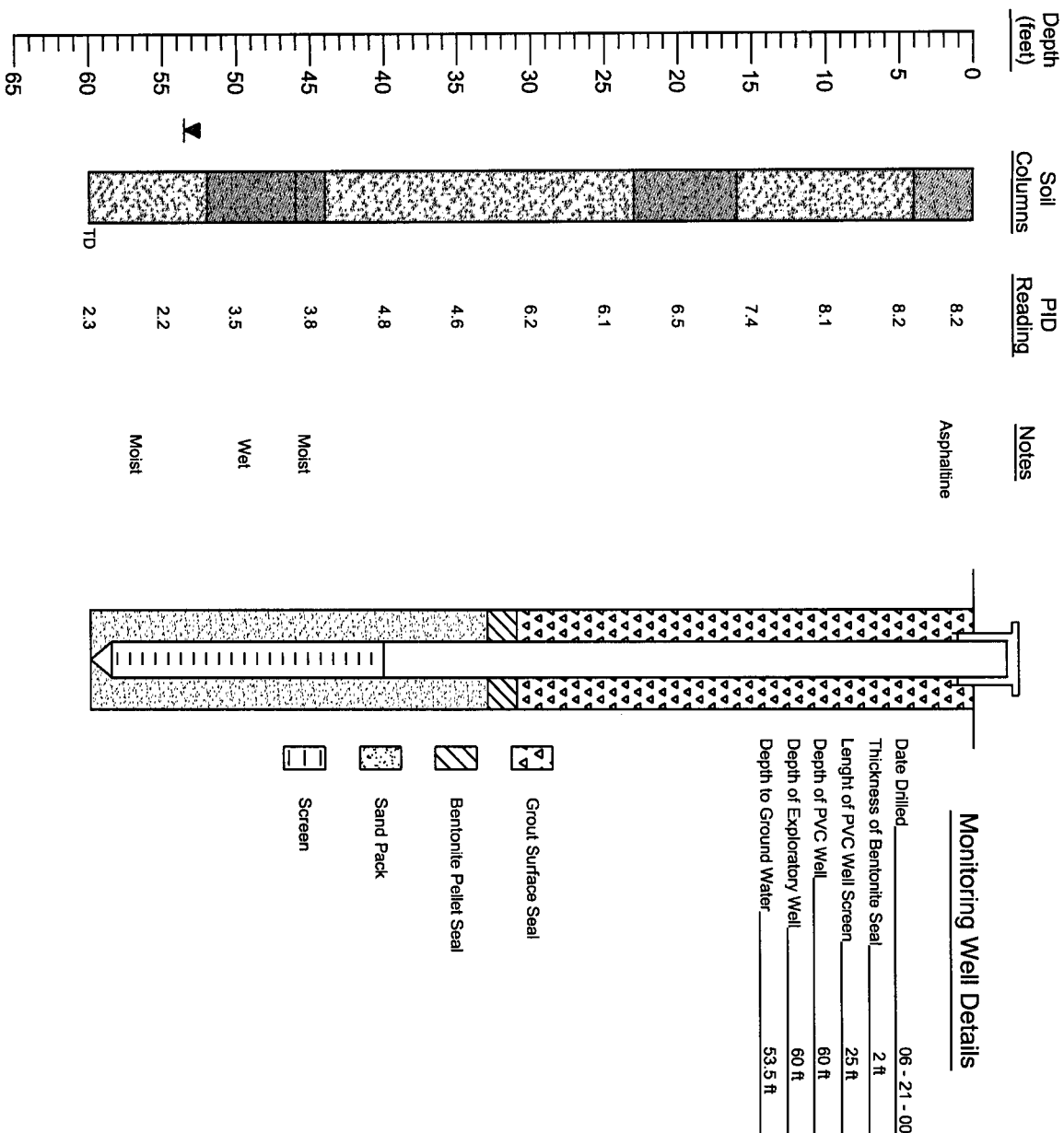
CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS PIPELINE, L.P.
DARR ANGELL #1
LEA COUNTY, NM











Results are reported in mg/kg.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030					Methods: EPA SW 846-8021B, 5030		
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	GRO C ₆ -C ₁₀	DRO >C ₁₀ -C ₂₈	TPH C ₆ -C ₂₈
RW3 38-40'	07/10/00	-	-	-	-	-	21	632	653
RW3 43-45'	07/10/00	<0.100	<0.100	<0.100	<0.100	<0.100	43	838	881
RW3 48-50'	07/10/00	<0.100	<0.100	0.146	0.774	0.387	120	1140	1260
RW3 53-55'	07/10/00	<0.100	4.9	4.04	14.3	5.61	942	7515	8457
RW3 58-60'	07/10/00	<0.100	<0.100	<0.100	0.172	<0.100	<10	567	567
RW4 40'	01/27/03	<0.025	<0.025	0.025	0.029	<0.025	<10.0	32.1	32.1
RW4 58'	01/27/03	2.09	18.3	14.8	43.3	15.4	2470	5920	8390
RW5 20'	01/28/03	1.21	4.23	9.43	28.5	8.2	861	1980	2841
RW5 56'	01/28/03	25.9	83	57.3	145	55.4	9410	16500	25910
RW6 20'	01/28/03	0.169	1.7	3.85	13.8	5.91	943	2890	3833
RW6 56'	01/28/03	5.15	49.8	45.3	117	50.2	6460	14700	21160
RW7 50'	01/29/03	<0.025	0.053	0.231	1.07	0.316	224	978	1202
RW7 56'	01/29/03	4.87	56.2	42.9	111	41.6	3840	7420	11260
RW8 50'	01/29/03	20	58.2	37.3	76.1	33.2	284	1210	1494
RW8 57'	01/29/03	0.263	1.47	2.4	8.17	2.8	13800	19600	33400
RW9 50'	01/29/03	2.69	3.01	3.35	7.48	3.25	216	1130	1346
RW9 57'	01/29/03	0.157	1.64	3.14	9.39	3.11	434	1250	1684
RW10 50'	01/30/03	<0.025	0.090	0.272	1.19	0.348	195	887	1082
RW10 57'	01/30/03	1.41	19.6	16.6	39.2	16.3	1920	4170	6090
RW11 50'	01/30/03	<0.025	0.091	0.214	1.08	0.303	168	796	964
RW11 57'	01/30/03	0.140	2.21	3.47	11.1	4.13	1500	5770	7270
MW-21 @35'	12/21/04	<0.01	<0.01	<0.01	<0.01		<1	58.4	
MW-21 @55'	12/21/04	<0.01	<0.01	<0.01	<0.01		<1	626	

Monitoring Well MW - 11



Legend

- | | |
|---|--|
|  | Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, calciche nodules. |
|  | Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, calciche nodules. |
|  | Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor. |
|  | Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor. |
|  | Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor. |
|  | Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor. |
|  | Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor. |
|  | Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor. |
|  | Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor. |
|  | Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor. |

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 slick 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 - 11

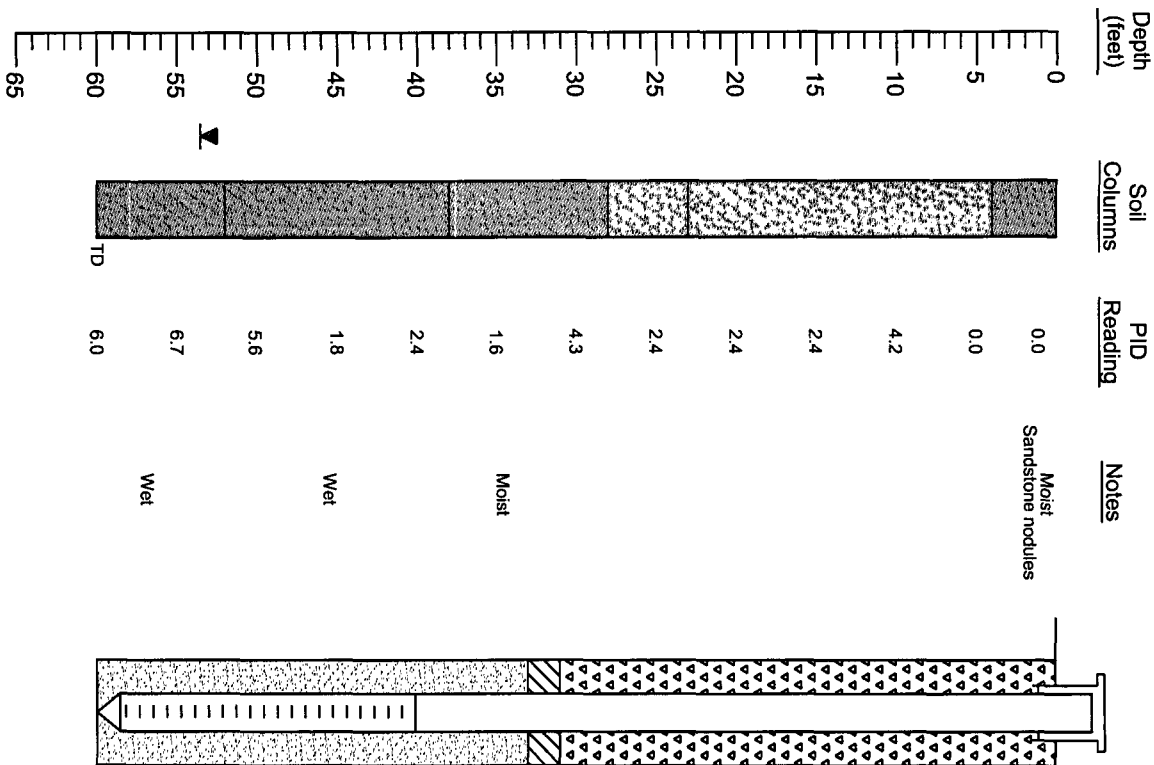
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale	Prep By: RS	Checked By: JT
June 21, 2000		

Monitoring Well MW - 12



Monitoring Well Details

Date Drilled: 06 - 21 - 00
 Thickness of Bentonite Seal: 2 ft
 Length of PVC Well Screen: 25 ft
 Depth of PVC Well: 60 ft
 Depth of Exploratory Well: 60 ft
 Depth to Ground Water: 53.5 ft

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, calcite nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, calcite nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- Indicates the PSH level measured on date.
- 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 slick 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 - 12

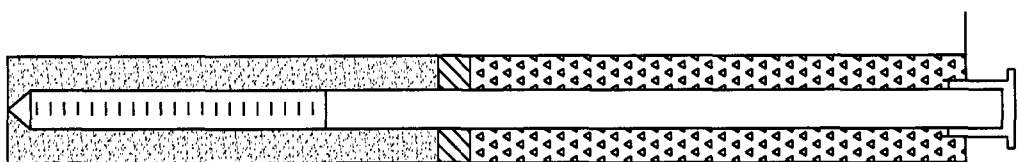
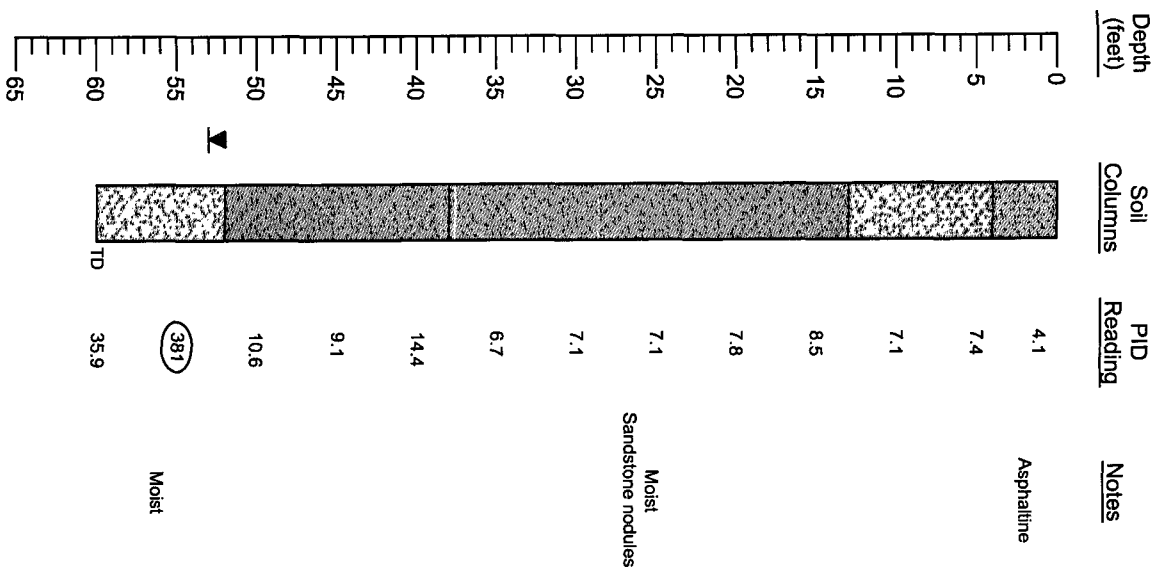
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale
 June 21, 2000
 Prep By: RS
 Checked By: JT

Monitoring Well MW - 13



Monitoring Well Details

Date Drilled 06 - 22 - 00
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 25 ft
 Depth of PVC Well 60 ft
 Depth of Exploratory Well 60 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, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- Indicates the PSH level measured on date.
- 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 slick 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 - 13

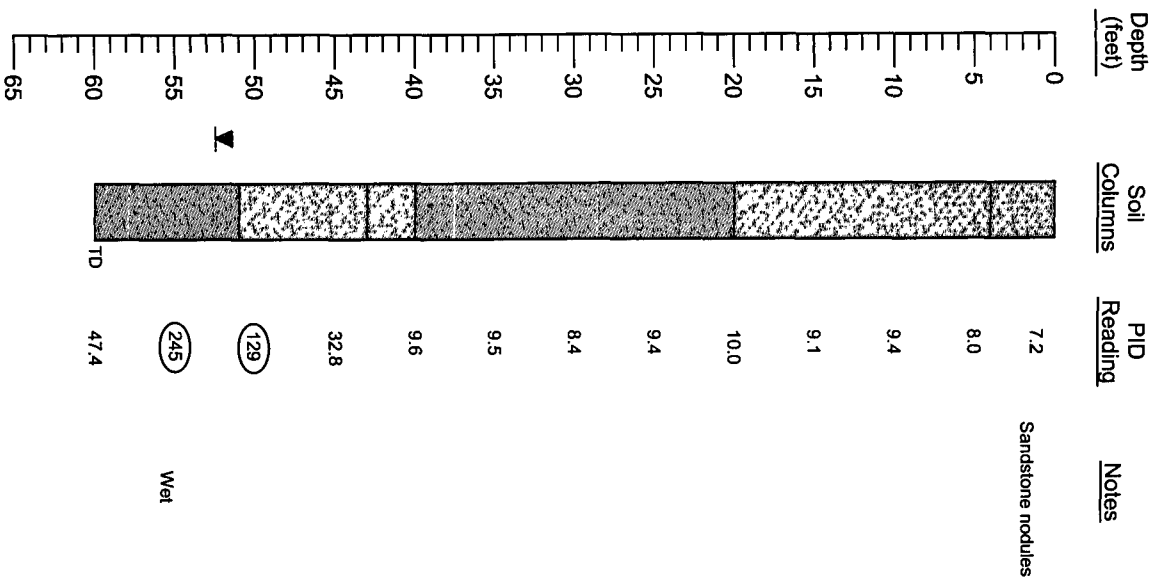
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

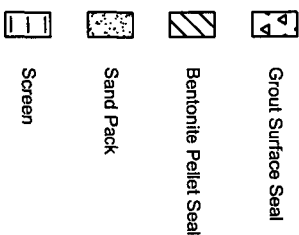
Scale: use scale
 June 22, 2000
 Prep By: RS
 Checked By: JT

Monitoring Well MW - 14



Monitoring Well Details

Date Drilled 06 - 22 - 00
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 25 ft
 Depth of PVC Well 60 ft
 Depth of Exploratory Well 60 ft
 Depth to Ground Water 52.5 ft



Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- ∇ Indicates the PSH level measured on date.
- \blacktriangledown Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Boring Log And Monitoring Well Details

Monitoring Well - 14

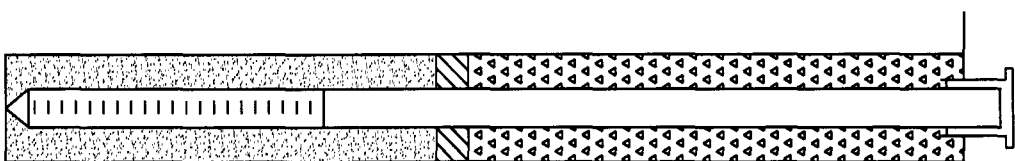
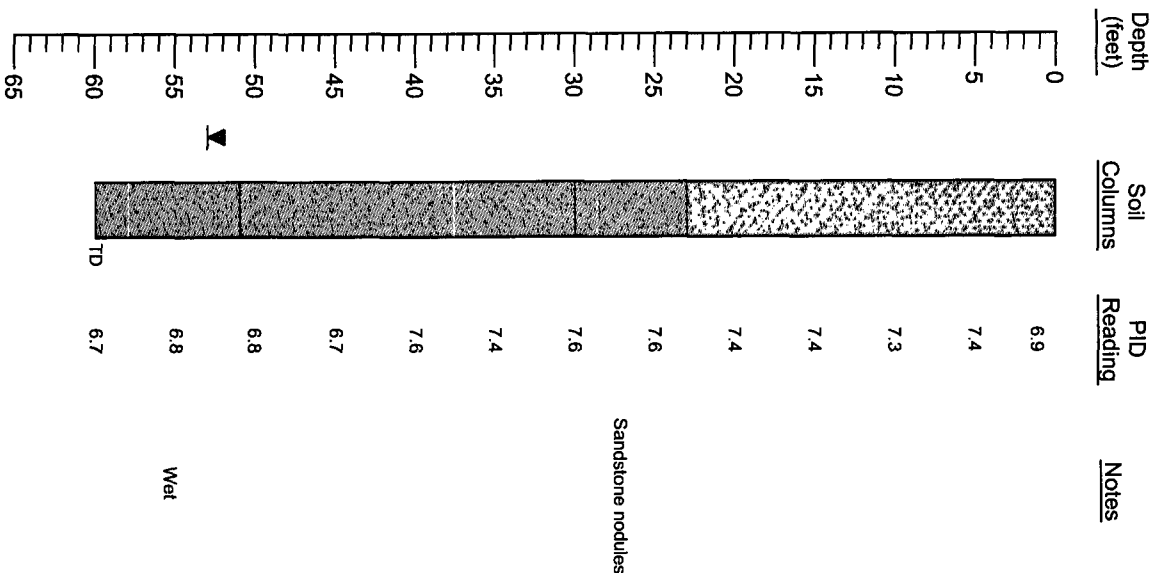
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale
 June 22, 2000
 Prep By: RS
 Checked By: JT

Monitoring Well MW - 15



Monitoring Well Details

Date Drilled 06 - 22 - 00
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 25 ft
 Depth of PVC Well 60 ft
 Depth of Exploratory Well 60 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, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- Indicates the PSH level measured on date.
- 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 slick 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 - 15

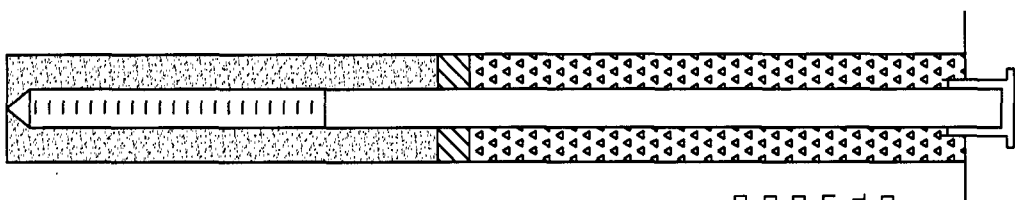
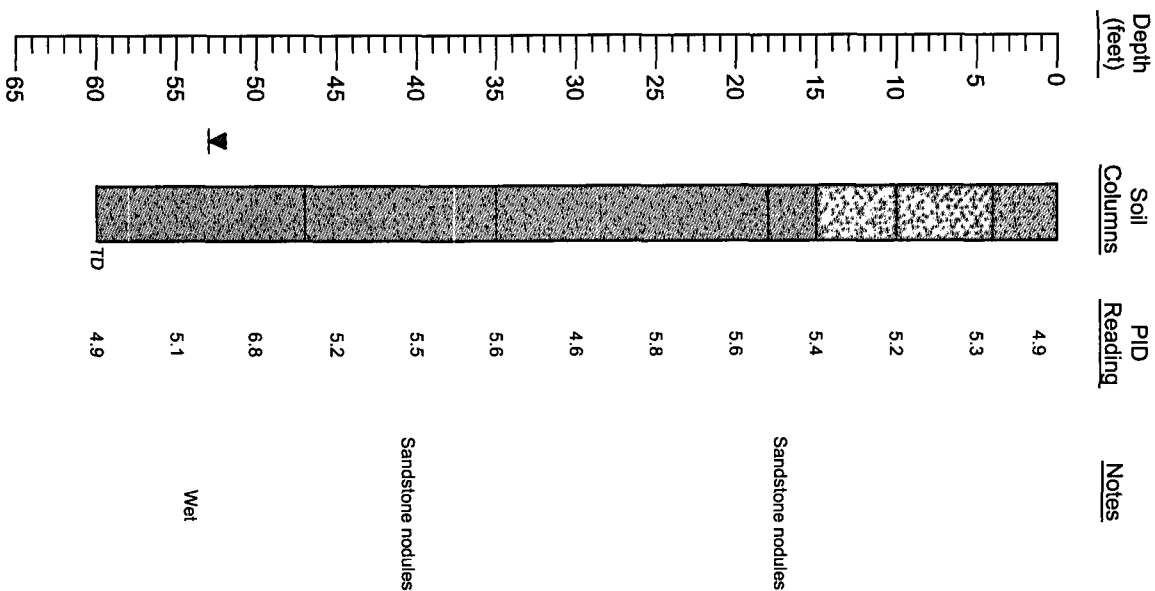
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: Use scale
 Prep By: RS
 Checked By: JT
 June 22, 2000

Monitoring Well MW - 16



Monitoring Well Details

Date Drilled 06 - 22 - 00
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 25 ft
 Depth of PVC Well 60 ft
 Depth of Exploratory Well 60 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, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Boring Log And Monitoring Well Details

Monitoring Well - 16

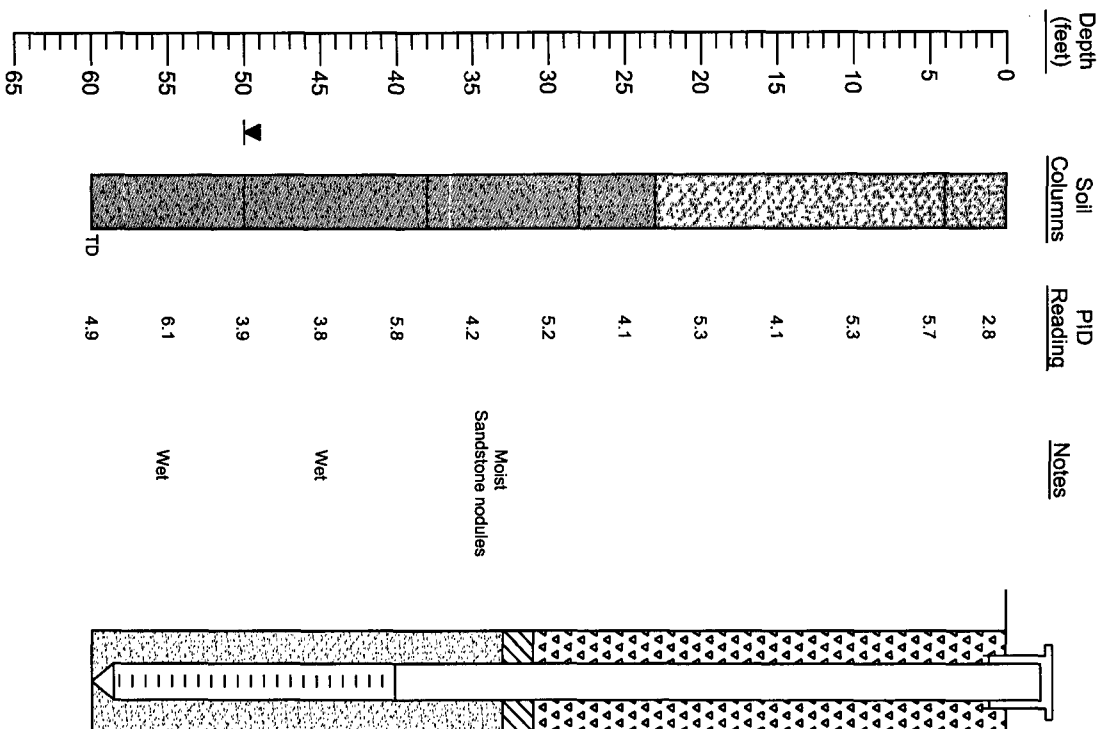
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale	Prep By: RS	Checked By: JT
June 22, 2000		

Monitoring Well MW - 17



Monitoring Well Details

Date Drilled 07 - 03 - 00
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 25 ft
 Depth of PVC Well 60 ft
 Depth of Exploratory Well 60 ft
 Depth to Ground Water 50 ft

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, calciche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, calciche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- Indicates the PSH level measured on date.
- 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 slick 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 - 17

Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

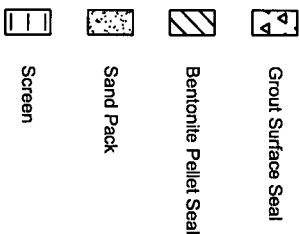
Scale: use scale	Prep By: RS	Checked By: JT
July 03, 2000		

Monitoring Well MW - 18

Depth (feet)	Soil Columns	PID Reading	Notes
0		4.2	
5		4.4	
10		4.3	
15		3.9	
20		4.3	
25		4.8	
30		5.1	
35		4.4	
40		4.2	Moist Sandstone nodules
45		5.7	
50		0.0	
55		3.7	
60			Wet
65		4.5	

Monitoring Well Details

Date Drilled 07 - 03 - 00
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 25 ft
 Depth of PVC Well 60 ft
 Depth of Exploratory Well 60 ft
 Depth to Ground Water 53.5 ft



Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Boring Log And Monitoring Well Details

Monitoring Well - 18

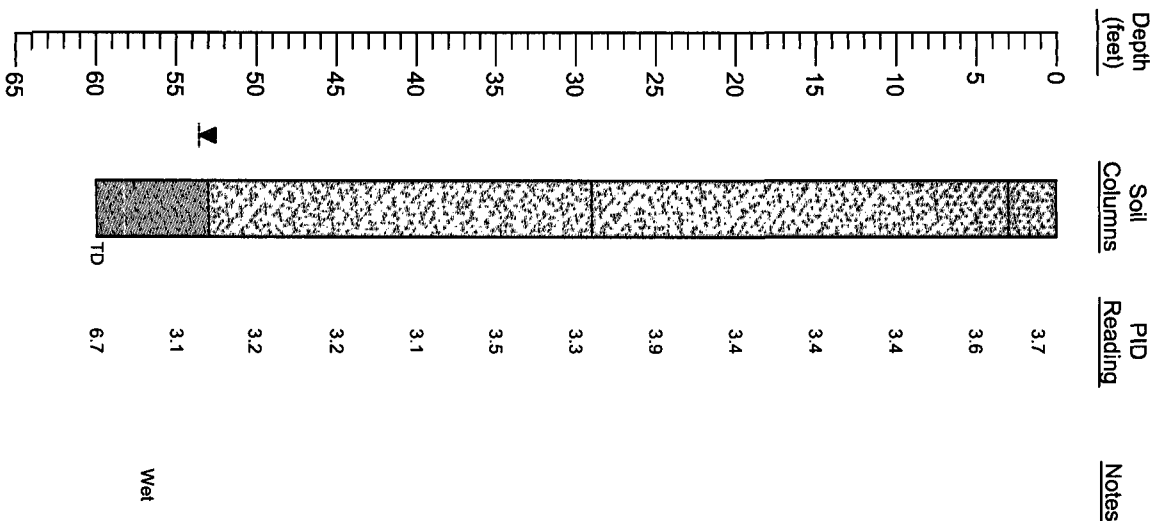
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

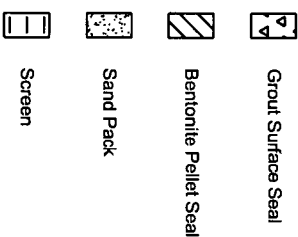
Scale: use scale	Prep By: RS	Checked By: JT
July 03, 2000		

Monitoring Well MW - 19



Monitoring Well Details

Date Drilled 07 - 03 - 00
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 25 ft
 Depth of PVC Well 60 ft
 Depth of Exploratory Well 60 ft
 Depth to Ground Water 53.5 ft



Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Boring Log And Monitoring Well Details

Monitoring Well - 19

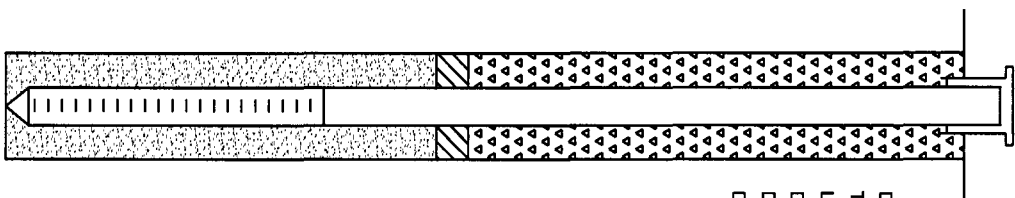
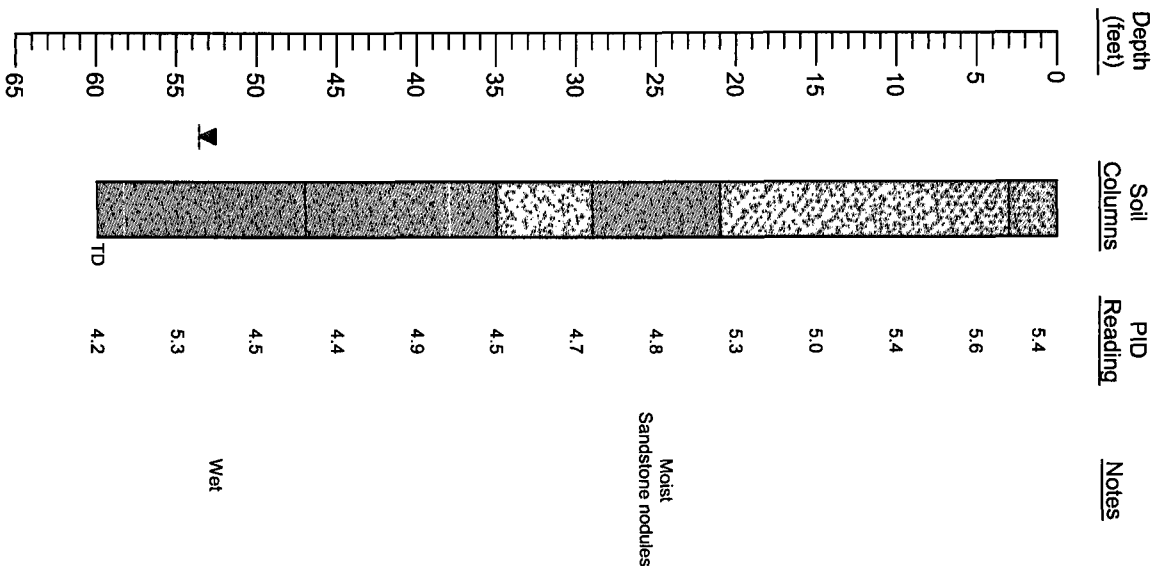
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale	Prep By: RS	Checked By: JT
July 03, 2000		

Monitoring Well MW - 20



Monitoring Well Details

Date Drilled 07 - 03 - 00

Thickness of Bentonite Seal 2 ft

Length of PVC Well Screen 25 ft

Depth of PVC Well 60 ft

Depth of Exploratory Well 60 ft

Depth to Ground Water 53.5 ft

Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Indicates samples selected for laboratory analysis.
- Indicates the PSH level measured on date.
- 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 slick 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 - 20

Plains Pipeline, L.P. Darr Angell #1 Lea County, NM

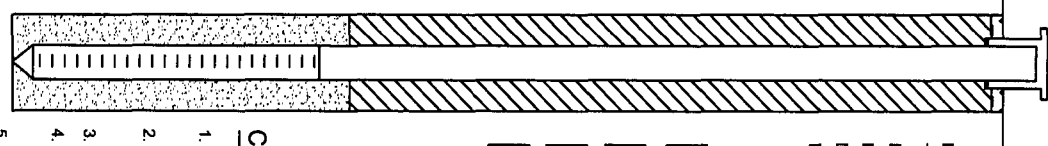


NOVA Safety and Environmental

Scale: use scale
 July 03, 2000
 Prep By: RS
 Checked By: JT

Monitor Well MW-21

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0		3.5	None	None	0 - 5' - Clay, brown, sandy with caliche nodules
5		1.7	None	None	5 - 15' - Sand, light brown, very fine grain with caliche nodules
10		2.0	None	None	
15		0.7	None	None	
20		1.4	Slight	None	
25		3.9	None	None	15 - 35' - Sand, brown, very fine grain
30		(1.3)	Slight	None	
35		1.1	None	None	35 - 45' - Sand, brown, very fine grain, with some caliche fragments and sandstone fragments
40		1.6	Slight	None	
45		2.4	None	None	
50		(5.6)	Slight	None	45 - 65' - Sand, brown, very fine grain, with some caliche nodules
55		2.5	None	None	
60		6.8	None	None	
65					



Monitor Well Details

Date Drilled 12/11/04
 Thickness of Bentonite Seal 42 ft
 Length of PVC Well Screen 20 ft
 Depth of PVC Well 65 ft
 Depth of Exploratory Well 65 ft
 Depth to Groundwater 55 ft

- ☒ Grout Surface Seal
- ☒ Bentonite Pellet Seal
- ☒ Sand Pack
- ☒ Screen
- ☒ Indicates the PSH level measured on 12/11/04
- ☒ Indicates the groundwater level measured on 12/11/04
- ☒ Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

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

Boring Log And Monitor Well Details

Monitor Well MW-21

Darr Angel #1 Lea County, New Mexico

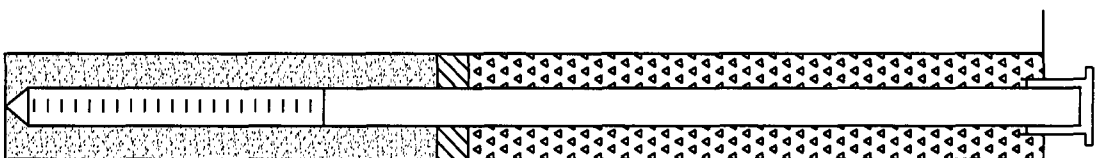
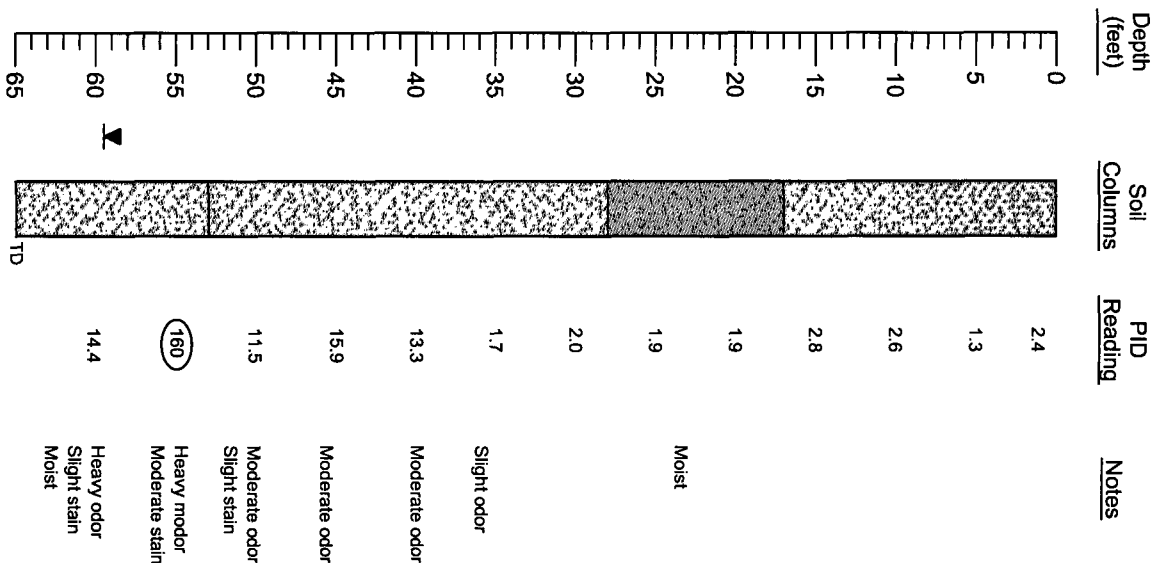
Plains Marketing, L.P.



NOVA Safety and Environmental

Prep By: DPM
 April 20, 2005
 Checked By: CCS

Recovery Well RW - 1



Monitoring Well Details

Date Drilled 07 - 06 - 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 54.5 ft

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.

All PID readings were analyzed.

▽ Indicates the PSH level measured on date.

▼ Indicates the ground water level measured on date.

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

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked slick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Recovery Well - 1

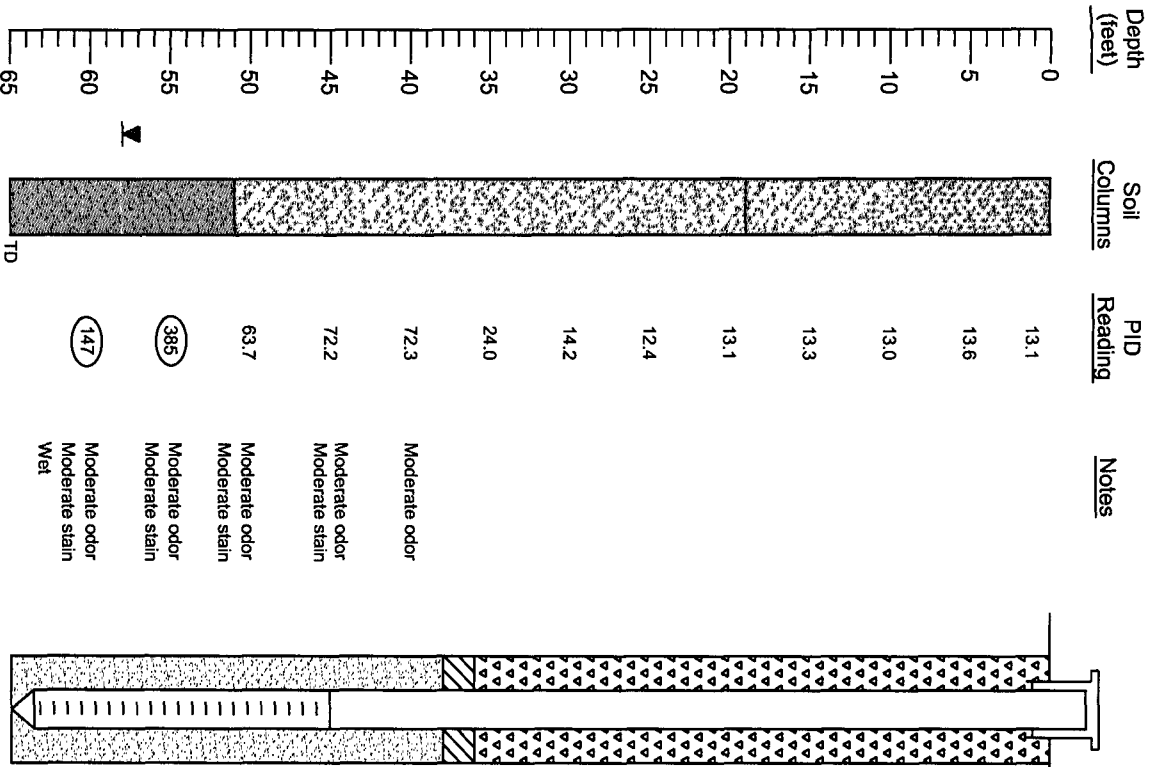
Plains Pipeline, L.P. Darr Angel #1 Lea County, NM



NOVA Safety and Environmental

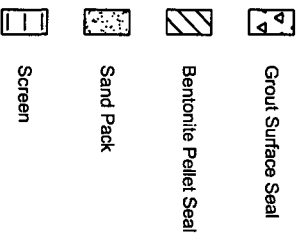
Scale: use scale	Prep By: RS	Checked By: JT
July 6, 2000		

Recovery Well RW - 2



Monitoring Well Details

Date Drilled 07 - 07 - 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



Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.

All PID readings were analyzed.

- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked slick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Recovery Well - 2

Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale Prep By: RS Checked By: JT
 July 7, 2000

Recovery Well RW - 3

Depth (feet)	Soil Columns	PID Reading	Notes
0		7.8	
5		12.2	
10		10.6	
15		11.8	
20		12.2	
25		102	Moderate odor
30		14.6	Moderate odor
35		22.9	Slight odor
40		74.4	Moderate odor
45		206	Moderate odor
50		424	Moderate odor
55		763	Heavy odor Moderate stain Moist
60		129	Moderate odor Light stain Wet
65			

Monitoring Well Details

Date Drilled 07 - 10 - 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 54.5 ft

- GROUT SURFACE SEAL
- BENTONITE PELLET SEAL
- SAND PACK
- SCREEN

Legend

- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark Brown, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.

All PID readings were analyzed.

Indicates the PSH level measured on date.

Indicates the ground water level measured on date.

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

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked slick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Recovery Well - 3

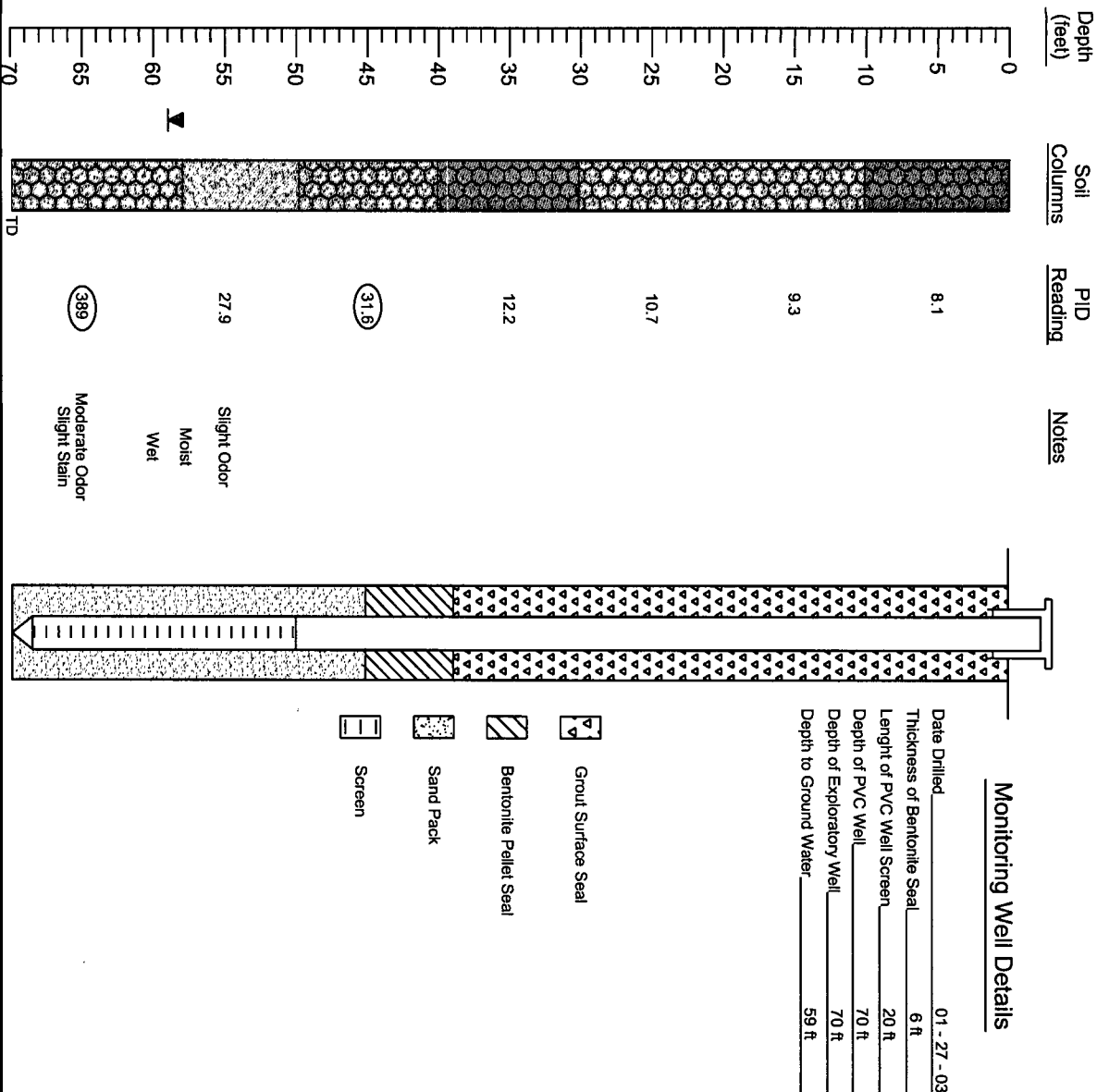
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale	Prep By: RS	Checked By: JT
July 10, 2000		

Recovery Well RW - 4



Legend

- Sand - (SP) - Tan to brown, very fine grained, well sorted, imbedded with caliche nodules.
- Sand - (SP) - Tan, very fine grained, well sorted, imbedded with caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted, imbedded with caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted.

- Indicates sample selected for laboratory analysis.
- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Details

Recovery Well - 4

Plains Pipeline, L.P. Darr Angell #1 Lea County, NM

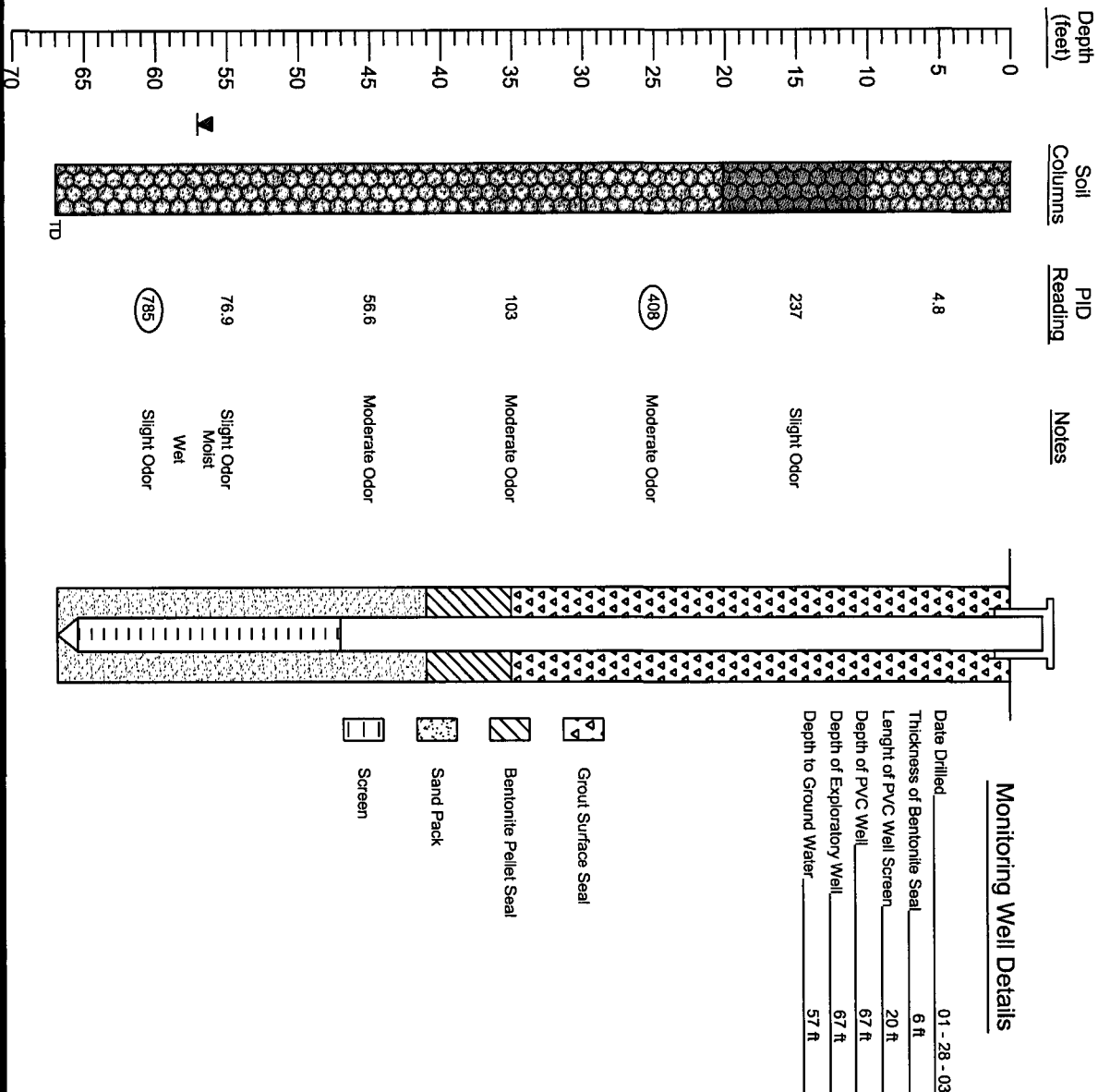


NOVA Safety and Environmental

Scale: use scale
May 20, 2003

Prep By: JDU
Checked By: CR

Recovery Well RW - 5



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.

- Indicates sample selected for laboratory analysis.
- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Details

Recovery Well - 5

Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

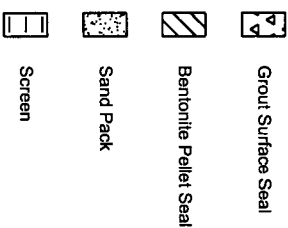
Scale: use scale	Prep By: JDU	Checked By: CR
May 20, 2003		

Recovery Well RW -6

Depth (feet)	Soil Columns	PID Reading	Notes
0			
5		20.6	
10			
15		96.6	
20			
25			
30			
35		117	Moderate Odor
40			
45		171	Moderate Odor
50			
55		178	Slight Odor Moist Well
60			
65			
70			

Monitoring Well Details

Date Drilled 01 - 28 - 03
 Thickness of Bentonite Seal 6 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



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, imbedded with indurated sand.

- Indicates sample selected for laboratory analysis.
- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked slick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Details

Recovery Well - 6

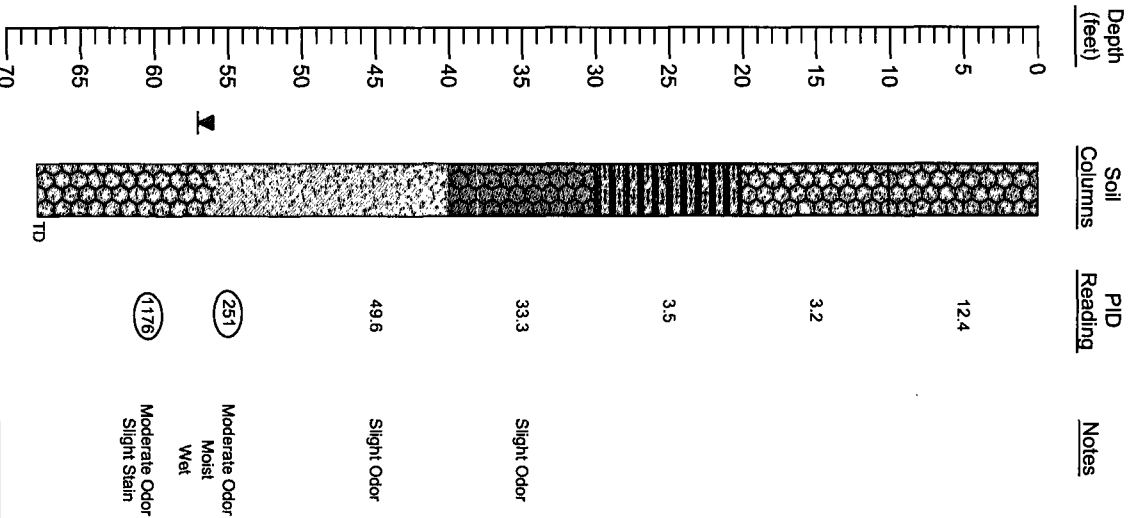
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

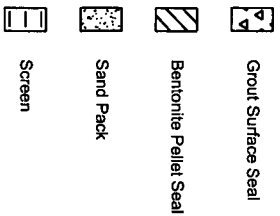
Scale: use scale
 May 20, 2003
 Prep By: JDU
 Checked By: CR

Recovery Well RW -7



Monitoring Well Details

Date Drilled: 01 - 29 - 03
 Thickness of Bentonite Seal: 6 ft
 Length of PVC Well Screen: 20 ft
 Depth of PVC Well: 68 ft
 Depth of Exploratory Well: 68 ft
 Depth to Ground Water: 57 ft



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, imbedded with indurated sand.
- Sand - (SP) - Tan to brown, very fine grained, well sorted, imbedded with caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted.

- Indicates sample selected for laboratory analysis.
- Indicates the PSH level measured on date.
- 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 6" 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 Details

Recovery Well - 7

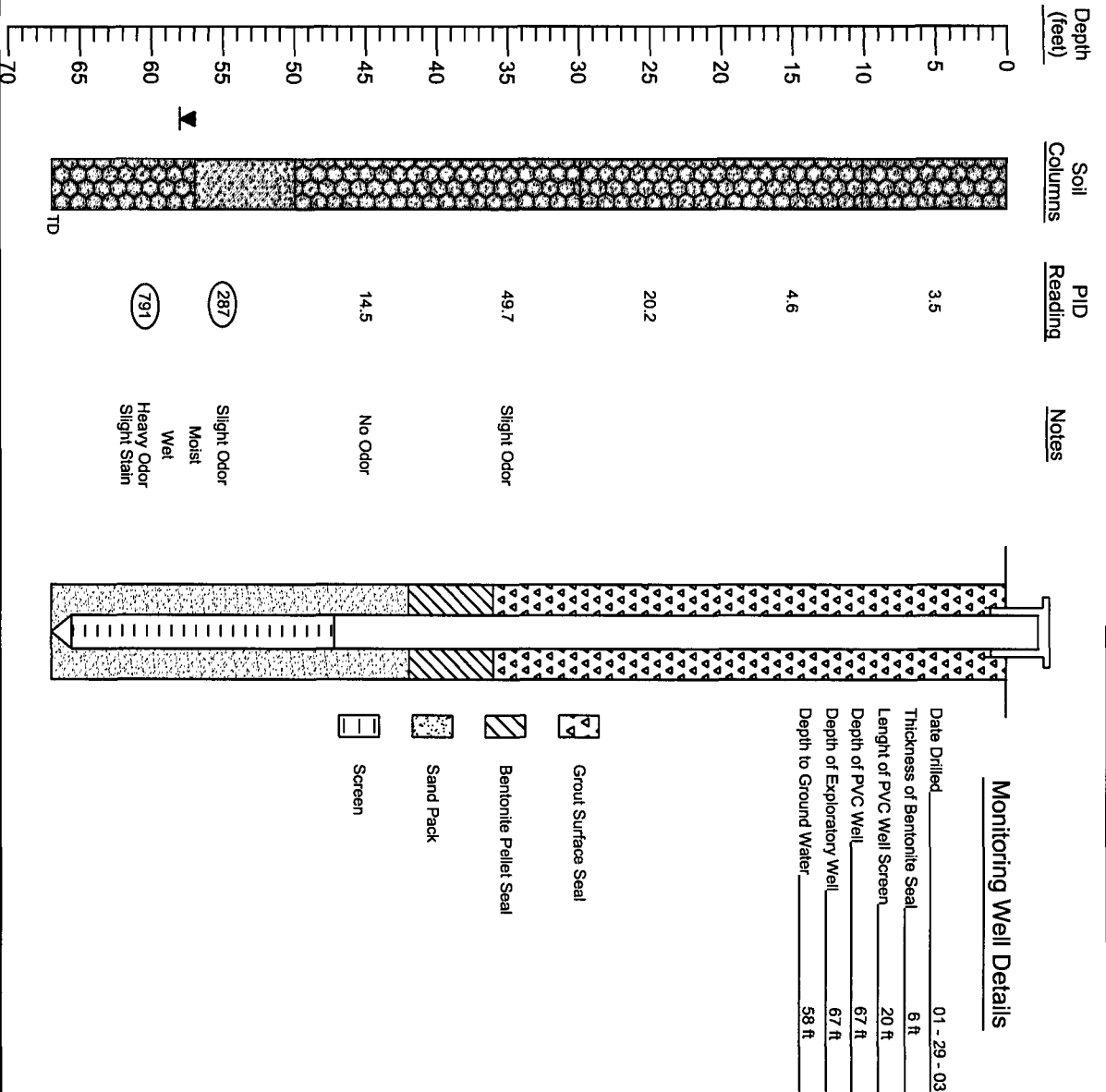
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale
 May 20, 2003
 Prep By: JUD
 Checked By: CR

Recovery Well RW - 8



Boring Log And Recovery Well Details

Recovery Well - 8

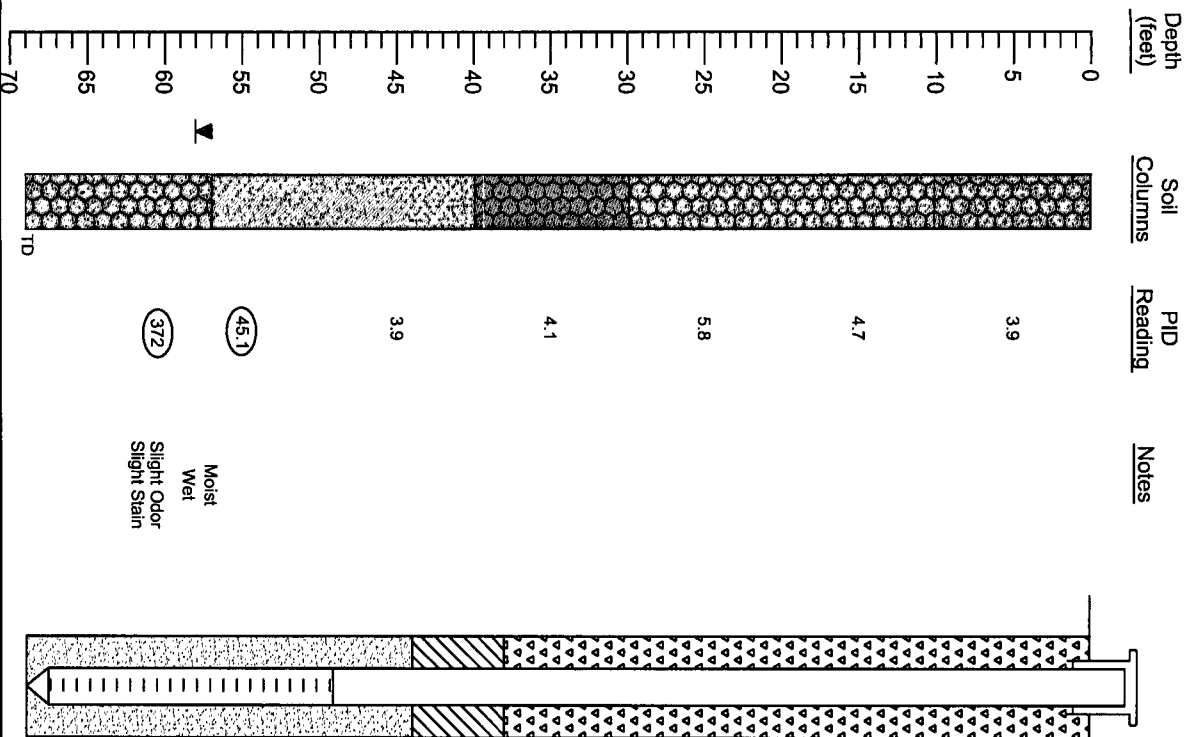
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

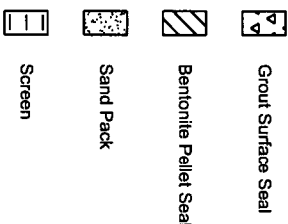
Scale: use scale Prep By: JDU Checked By: CR
May 20, 2003

Recovery Well RW - 9



Monitoring Well Details

Date Drilled 01 - 29 - 03
 Thickness of Bentonite Seal 6 ft
 Length of PVC Well Screen 20 ft
 Depth of PVC Well 69 ft
 Depth of Exploratory Well 69 ft
 Depth to Ground Water 58 ft



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 to brown, very fine grained, well sorted, imbedded with caliche nodules.
- Sand - (SP) - Brown, very fine grained, well sorted.

- Indicates sample selected for laboratory analysis.
- ▽ Indicates the PSH level measured on date.
- ▽ Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Details

Recovery Well - 9

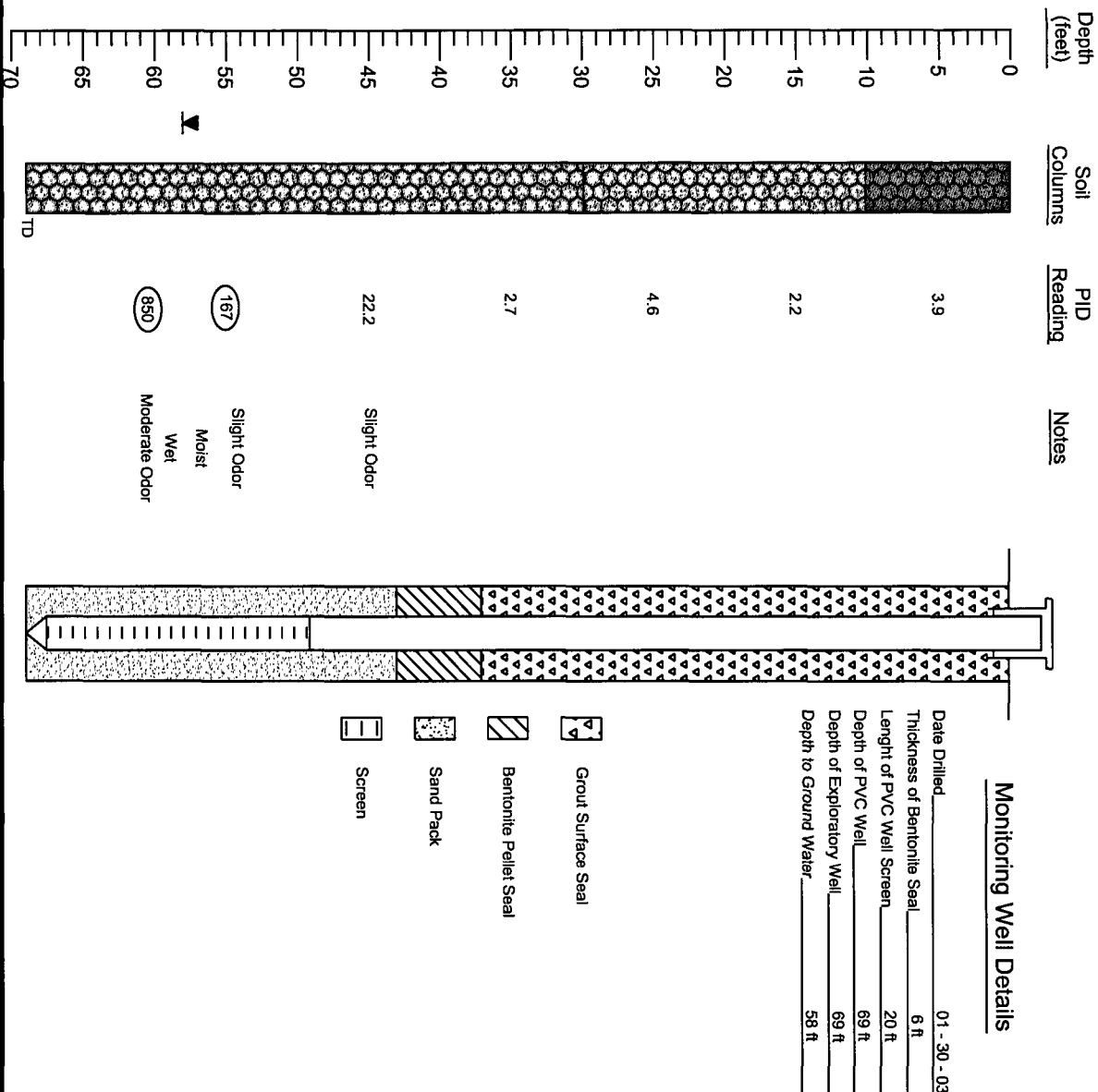
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale
 May 20, 2003
 Prep By: JDU
 Checked By: CR

Recovery Well RW - 10



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) - Brown, very fine grained, well sorted, imbedded with caliche nodules.

- Indicates sample selected for laboratory analysis.
- ▽ Indicates the PSH level measured on date.
- ▽ Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Details

Recovery Well - 10

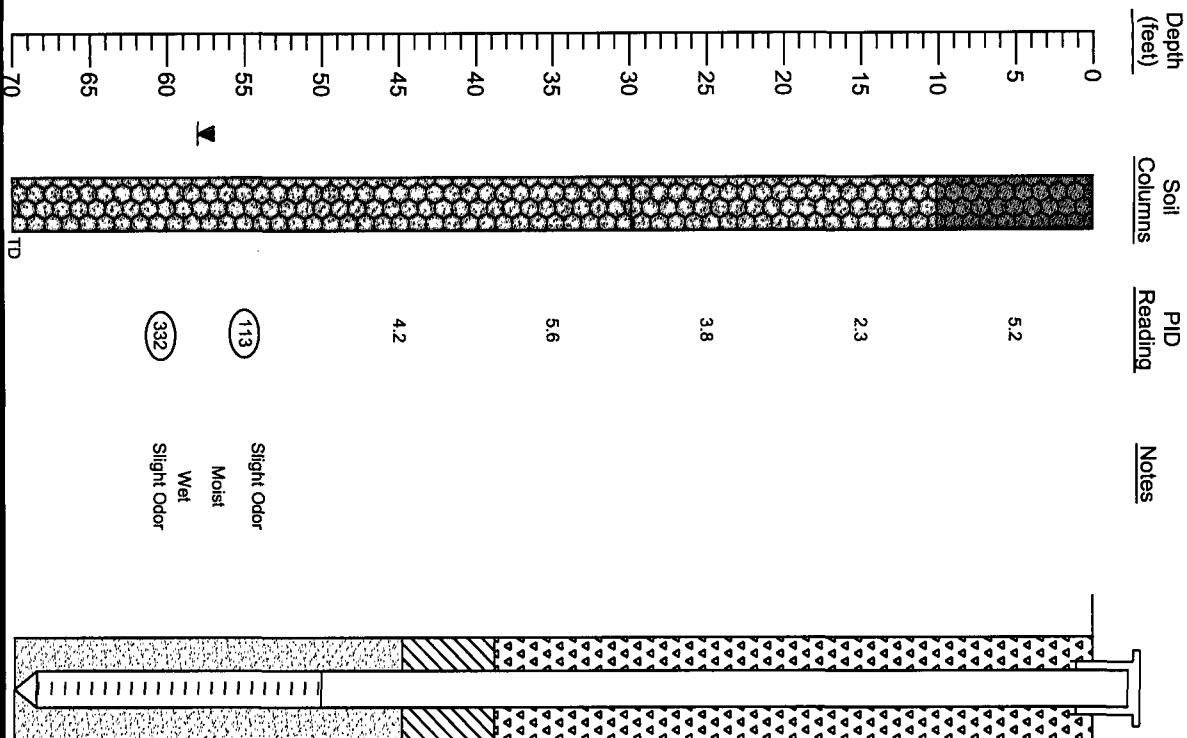
Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

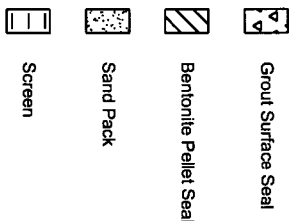
Scale: use scale	Prep By: JDU	Checked By: CR
May 20, 2003		

Recovery Well RW - 11



Monitoring Well Details

Date Drilled 01 - 30 - 03
 Thickness of Bentonite Seal 6 ft
 Length of PVC Well Screen 20 ft
 Depth of PVC Well 70 ft
 Depth of Exploratory Well 70 ft
 Depth to Ground Water 58 ft



Legend

- Sand - (SF) - Brown to Tan, very fine grained, well-sorted, imbedded with caliche nodules.
- Sand - (SF) - Tan, very fine grained, well sorted, imbedded with caliche nodules.
- Sand - (SF) - Brown, very fine grained, well sorted, imbedded with caliche nodules.

- Indicates sample selected for laboratory analysis.
- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 6" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked slick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Recovery Well Details

Recovery Well - 11

Plains Pipeline, L.P. Darr Angell #1 Lea County, NM



NOVA Safety and Environmental

Scale: use scale
 May 20, 2003
 Prep By: JDU
 Checked By: CR



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

April 11, 2006

Ms. Camille Reynolds
Plains Marketing, L.P.
3112 West Highway 82
Lovington, NM 88260

RE: 2005 Annual Monitoring Report
Darr Angell #1 Site
NW/4 SE/4 Section 11, Township 15 South, Range 37 East
Lea County, New Mexico
Plains EMS #: Darr Angell 1
NMOCD File Number AP-007

Dear Ms. Reynolds:

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

1. Plains will install additional total fluid pumps at the Darr Angell #1 site.
2. Plains will conduct a leak zone investigation to provide additional information for planning source area remediation, and to further delineate soil impact.
3. Plains will submit a work plan for numbers 1 and 2 above prior to commencement of activities.
4. If delineation is not complete after work plans have been completed, Plains will amend the work plans to complete the delineation of horizontal impact at the site.
5. Quarterly sampling frequency is hereby approved for monitor well MW-19.
6. Plains will submit a 2006 Annual Monitoring Report for this site by April 1, 2007 describing the above activities as well as normal sampling and analyses activities at the site.

NMOCD approval does not relieve Plains of liability 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 governmental agency.

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

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

Copy: NMOCD, Hobbs
Curt Stanley, NOVA



PLAINS ALL AMERICAN

February 27, 2006

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
3 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:

Darr Angell #1
Darr Angell #4
Monument 11

Section 11, Township 15 South, Range 37 East, Lea County
Sections 2 and 11, Township 15 South, Range 37 East, Lea County
Section 30, Township 19 South, Range 37 East, Lea County

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 facilities.

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

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

January 30, 2006

Ms. Camille Reynolds
Plains Marketing, L.P.
3112 West Highway 82
Lovington, NM 88260

RE: Site Restoration Work Plan and Closure Strategy, Dated November 2005
Darr Angell #4 Release Site Located in
NW/4 NE/4 of Section 11, Township 15 South, Range 37 East and
SW/4 SE/4 of Section 2, Township 15 South, Range 37 East
NMPM, Lea County New Mexico
NMOCD Reference AP-007

Dear Ms. Reynolds:

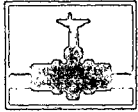
The New Mexico Oil Conservation Division (NMOCD) has reviewed the work plan shown above, prepared by Nova Safety and Environmental on behalf of Plains Marketing, L.P. (Plains). This work plan is hereby approved with the following understandings and conditions:

1. Plains will mobilize an excavator to the site and remove additional soil and rock from the Northwest, North and South walls of the deep excavation. Such soil removal will take place after Plains backfills the deep excavation with remediated stockpiled soil up to a depth of approximately 10 feet below ground surface. Such backfilling is necessary for safety reasons that will facilitate the further removal of soil in the sidewalls. Plains shall provide a report to the NMOCD showing laboratory analyses results of this excavated soil.
2. Soils removed from the NW, North and South walls will be segregated from existing stockpiled soils.
3. The resulting 10 feet deep excavation will then be lined with a synthetic liner to prevent further migration of contaminants.
4. Existing stockpiled soils, apart from the soils removed from the NW, North and South walls will then be used as backfill above the liner described in #3 above.
5. Segregated soils (from the NW, North and South walls) may be used as additional backfill after they have been remediated to acceptable standards. No backfilling using this soil may be done without further approval from the NMOCD.
6. Upon submission of a "soil closure report", NMOCD may grant closure on only the soil portion of this abatement plan. Groundwater monitoring shall continue to completion.

If you have any questions, contact Ed Martin at (505) 476-3492 or ed.martin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Roger C. Anderson
Environmental Bureau Chief



PLAINS
PIPELINE

November 17, 2005

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 #4 Release Site
Sections 2 and 11, 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 November 2005, for the Darr Angell #4 release site located in Sections 2 and 11 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
Remediation Coordinator
Plains All American Pipeline

OK
APPROVE

Cc: Larry Johnson, NMOCD, Hobbs Office

Enclosure



PLAINS PIPELINE

September 23, 2005

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

Re: Plains Pipeline – Plugging and Abandonment of Monitor Wells
8 Sites in Lea County, New Mexico

Dear Mr. Martin:

Please find attached for your review the Plugging and Abandonment of Monitor Wells Reports for the following Plains sites:

AP-7 Bob Durham	Section 32, Township 19 South, Range 37 East, Lea County
Darr Angell #2	Sections 11 and 14, Township 15 South, Range 37 East, Lea County
HDO 90-23	Section 6, Township 20 South, Range 37 East, Lea County
TNM Monument 17	Section 29, Township 19 South, Range 37 East, Lea County
TNM Monument 18	Section 7, Township 20 South, Range 37 East, Lea County
TNM 97-04	Section 11, Township 16 South, Range 35 East, Lea County
TNM 97-18	Section 28, Township 20 South, Range 37 East, Lea County
SPS-11	Section 18, Township 18 South, Range 36 East, Lea County

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

Sincerely,

Camille Reynolds for C.J.R.

Camille Reynolds
Remediation Coordinator
Plains Pipeline

Enclosures

September 16, 2005

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

Re: Notification of Plains Marketing, L.P. Plugging and Abandonment of Monitor Wells
Darr Angell #2
SW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 11, T-15-S, R-37-E
NW $\frac{1}{4}$, NE $\frac{1}{4}$, Section 14, T-15-S, R-37-E
Lea County, NM

Dear Mr. Martin,

NOVA Safety and Environmental (NOVA), on behalf of Plains Marketing, L.P. (Plains) respectfully submits the following notification of plugging and abandonment of monitor wells at the Plains Darr Angell #2 leak site (the site), located in the SW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 11, T-15-S, R-37-E and the NW $\frac{1}{4}$, NE $\frac{1}{4}$, Section 14, T-15-S, R-37-E, in Lea County, NM.

On September 14, 2005, one (1) monitor well was plugged and abandoned at the site. Please reference your letter to Ms. Camille Reynolds of Plains Marketing L.P. dated June 20, 2005 regarding authorization to plug and abandon this well.

The monitor well was plugged and abandoned by Environmental Plus, Inc (EPI) of Eunice, New Mexico, a licensed water well driller in the State of New Mexico. The monitor wells were plugged utilizing guidelines set forth by the office of the New Mexico State Engineer. EPI removed and disposed of the monitor well covers, vaults, and the remains of the concrete pads.

Monitor well MW-5 was filled with approximately two (2) bag of bentonite pellets to a depth of approximately one (1) foot below ground surface (bgs) and properly hydrated with water. Topsoil was placed above the former monitor well to complete the procedure.

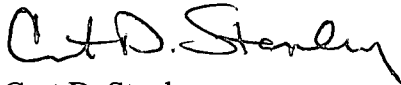
The former monitor well location is as follows:

- MW-5, 33 degrees, 01.518" N, 103 degrees, 10.009" W

Plains has completed the approved plugging and abandonment of the above referenced monitor well as directed by the New Mexico Oil Conservation Division (NMOCD). Plains will continue to gauge and sample the remaining monitor wells at the site.

In the future, Plains may make additional requests to the NMOCD for plugging and abandonment of monitor well(s) at this site, as warranted.

Sincerely,



Curt D. Stanley
Project Manager
NOVA Safety and Environmental

cc:

Paul Sheeley / Larry Johnson, NMOCD, Hobbs, NM

Camille Reynolds, Plains Marketing, L.P., Lovington, NM

cjreynolds@paalp.com

Jeff Dann, Plains Marketing, L.P., Houston, TX

jpdann@paalp.com

NOVA Safety and Environmental, Midland, TX

cstanley@novatraining.cc

Attachments:

Attachment #1 – Form C-141 – Release Notification and Corrective Action

Darr Angell #2

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name: EOTT Energy Pipeline	Contact: Lennah FROST
Address: PO Box 1660 Midland TX 79702	Telephone No: 915/6843467
Facility Name: Devlon Gathering	Facility Type: Pipeline
Surface Owner: Darr Angell	Mineral Owner: Lease No:

LOCATION OF RELEASE

Lot/Letter: 14	Section: 15-S	Range: 37-E	Feet from the: North/South Line: Feet from the: East/West Line: Corner: Lea
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NATURE OF RELEASE

Type of Release: Crude oil	Volume of Release: 60001	Volume Recovered: 0
Source of Release: Pipeline Leak	Date and Time of Occurrence: UNKNOWN	Date and Time of Discovery: 7/29/99 4pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Linda - Hobbs (CD)	
By Whom? Lennah FROST Jim Henry	Date and Time: 8/30/99 2:30 pm	
Was a Videotape Made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Videotape: 	

If a Videotape was Impacted, Describe Fully (Attach Additional Sheets if Necessary)

Describe Cause of Problem and Remedial Action Taken (Attach Additional Sheets if Necessary)
External Corrosion - pipe will be replaced

Describe Area Affected and Cleanup Action Taken (Attach Additional Sheets if Necessary)
Will evaluate once the pipe has been replaced -
Probable treat on site

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 these operations have failed to adequately investigate and maintain operations 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.

Signature: Lennah Frost	OIL CONSERVATION DIVISION
Printed Name: Lennah FROST	Approved by: District Supervisor:
Date: 8-3-99	Approval Date: Expiration Date:
Phone: 915/6843467	Condition of Approval: Attached: <input type="checkbox"/>



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 21, 2005

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

Re: 2004 Monitoring Report
Darr Angell #4 Site
NW/4 NE/4 of Section 11, Township 15 South, Range 37 East and
SW/4 SE/4 of Section 2, Township 15 south, Range 37 East
Plains EMS Number: 2001-10876
NMOCD Reference: AP-007

Dear Ms. Reynolds:

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

1. Plains will continue groundwater monitoring, weekly product recovery and annual reporting through 2005.
2. Specifications of the new automatic product recovery system referred to on page 1 of the aforementioned report will be included in the next annual report.
3. Sampling frequency for monitor wells MW-11 and MW-13 may be reduced from quarterly to annually.

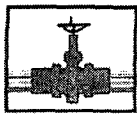
NMOCD acceptance does not relieve Plains of responsibility should its operations at this site prove to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other federal, state, or local governmental entity.

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

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

cc: NMOCD, Hobbs



PLAINS ALL AMERICAN

March 29, 2005

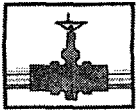
Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

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
Texaco Skelly "F"	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



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 20, 2005

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

Re: 2004 Monitoring Report for the
Darr Angell 2 Site located in
Unit Letters O of Section 11, Township 15 South, Range 37 East
And B of Section 14, Township 15 South, Range 37 East
Lea County New Mexico
Plains Marketing, L.P. EMS Number LF-1999-62
NMOCD Reference Number AP-007

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received the report shown above submitted, on behalf of Plains All American (Plains), by Nova Safety and Environmental (Nova). Actions, as shown in the "Anticipated Actions" section of the report beginning on page 4, and summarized below, are approved with the following understandings or conditions:

1. Monitor well MW-5 may be plugged and abandoned.
2. Quarterly monitoring and sampling will continue.
3. Manual product recovery and gauging will continue on a weekly schedule.
4. A plan will be developed to address the impacted and/or excavated soil remaining on site.

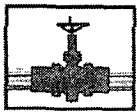
NMOCD approval of this report does not relieve Plains of responsibility should its operations at this site prove to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other federal, state, or local governmental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

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

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

Cc: NMOCD, Hobbs



PLAINS ALL AMERICAN

March 29, 2005

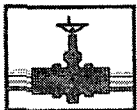
Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

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
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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
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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
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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
Texaco Skelly "F"	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



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 20, 2005

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

Re: 2004 Annual Monitoring Report
Darr Angell 1 Site Located in the
NW/4 SE/4 of Section 11, Township 15 South, Range 37 East
Lea County, New Mexico
Plains EMS Number: Darr Angell 1
NMOCD Ref. Number AP-007

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the report shown above. This report is accepted with the following understandings and conditions:

1. Plains All American (Plains) will submit work plans to the NMOCD Santa Fe office describing:
 - a. The automatic product recovery system that Plains anticipates installing at the site including the specific recovery wells in which the system will be utilized.
 - b. Areas to be further excavated or investigated to further delineate the contamination and to possibly enhance the product recovery. This should include a revised drawing of the site showing where additional delineation will take place.
2. Monitor well MW-18 may be sampled annually.

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

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

cc: NMOCD, Hobbs



March 29, 2005

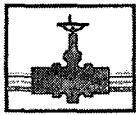
Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

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

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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:

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Monument Site 18	Section 07, Township 20 South, Range 37 East, Lea County
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Monument to Lea 6"	Section 05, Township 20 South, Range 37 East, Lea County
Texaco Skelly "F"	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.

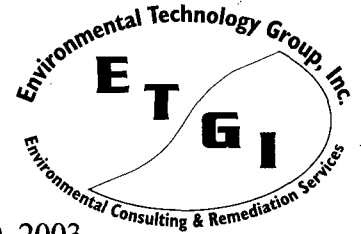
Sincerely,

Camille Reynolds for CR

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures



October 30, 2003

Mr. Edwin E. Martin
State of New Mexico Environmental Bureau
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Darr Angell No. 4 Soil Closure Proposal.
NW ¼ NE ¼ of Section 11, Township 15 South, Range 37 East
SW ¼ SE ¼ of Section 2, Township 15 South, Range 37 East

Mr. Martin:

I would like to take this opportunity to review our discussion during your visit to the above referenced site on Wednesday, September 22, 2003. We appreciated the opportunity to discuss site remedial actions completed to date and continued remedial activities necessary to complete soil remedial actions at this site.

It is my understanding that the current concentrations of total petroleum hydrocarbons (TPH) in the stockpiled soils (see attached table) are acceptable to the New Mexico Oil Conservation Commission for reuse as backfill in the excavation. In addition, the following activities will need to be conducted to complete soil remedial actions on-site:

- i. Excavation of oil stained soil and caliche located on the northwest and southeast walls of the deep portion of the current excavation;
- ii. Construction of a one-foot thick clay cap over the deep portion of the excavation and testing by applicable ASTM methods, and;
- iii. Backfilling of the remainder of the excavation with treated soil on-site.

Upon completion of backfilling activities, the area will be seeded with a grass type acceptable to Mr. Angell and watered to promote growth and stabilization of the surface soil.

If these proposed site activities agree with your interpretation of our discussions conducted during the site visit, ETGI and Link Energy will schedule removal of the oil stained sidewall soils in November. ETGI will notify local representatives of the New Mexico Oil Conservation Division prior to conducting backfilling actions.

Sincerely,

Robert B. Eidson
Geologist/Senior Project Manager
Environmental Technologies Group, Inc.

REIDSON@ETGI.CC

cc: Jeff Dann, Link Energy



TABLE 1

**CONCENTRATIONS OF BTEX AND TPH
IN STOCKPILED SOIL**

**EOTT ENERGY, LLC
DARR ANGELL # 4
LEA COUNTY, NEW MEXICO**

**ETGI PROJECT # EO 2075
EOTT RELEASE # : DARR ANGELL #3/4 - 2001-10876**

SAMPLE LOCATION	SAMPLE DATE	METHODS: 8260b/BTEX				Method: 8015m		
		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH (mg/Kg)
S/P Comp. Sample 1	10/31/02					11.9	263	274.9
S/P Comp. Sample 2	10/31/02					12.2	118	130.2
S/P Comp. Sample 3	10/31/02					<10.0	141	141
S/P Comp. Sample 4	10/31/02					14.4	992	1006.4
S/P Comp. Sample 5	10/31/02					28.8	257	285.8
S/P Comp. Sample 6	10/31/02					28.7	210	238.7
S/P Comp. Sample 7	10/31/02					14.1	1330	1344.1
S/P Comp. Sample 8	10/31/02					34.4	184	218.4
S/P Comp. Sample 9	10/31/02					<10.0	235	235
S/P Comp. Sample 10	10/31/02					71.4	164	235.4
S/P Comp. Sample 11	10/31/02					15.6	510	525.6
S/P Comp. Sample 12	10/31/02					<10.0	180	180
S/P Comp. Sample 13	10/31/02					<10.0	369	369
S/P Comp. Sample 14	10/31/02					<10.0	431	431
S/P Comp. Sample 15	10/31/02					14.5	773	787.5
S/P Comp. Sample 16	10/31/02					<10.0	312	312
S/P Comp. Sample 17	10/31/02					<10.0	144	144
S/P Comp. Sample 18	10/31/02					<10.0	377	377
S/P Comp. Sample 19	10/31/02					<10.0	214	214
S/P Comp. Sample 20	10/31/02					<10.0	99.8	99.8
S/P Comp. Sample 21	10/31/02					<10.0	332	332
S/P Comp. Sample 22	10/31/02					<10.0	191	191
S/P Comp. Sample 23	10/31/02					<10.0	164	164
S/P Comp. Sample 24	10/31/02					<10.0	59.0	59
S/P Comp. Sample 25	10/31/02					<10.0	<10.0	0
S/P Comp. Sample 26	10/31/02					<10.0	<10.0	0
S/P Sample 27	11/26/02	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	0
S/P 28	01/03/03	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	0
S/P 29	01/03/03	<0.025	<0.025	<0.025	<0.025	<10.0	194	194
S/P 30	01/09/03	<0.025	<0.025	<0.025	<0.025	<10.0	65.3	65.3
S/P 31	01/13/03	<0.025	<0.025	<0.025	<0.025	<10.0	120	120
S/P 32	02/11/03	<0.025	<0.025	<0.025	0.034	<10.0	152	152
S/P 33	02/11/03	<0.025	<0.025	<0.025	0.056	<10.0	170	170
S/P 34	02/11/03	<0.025	<0.025	0.028	0.045	32.5	366	398.5
S/P 35	02/28/03	<0.025	<0.025	<0.025	<0.025	26.9	284	310.9
S/P 36	02/28/03	<0.025	<0.025	<0.025	<0.025	17.6	246	263.6
S/P 37	02/28/03	<0.025	<0.025	<0.025	<0.025	17.4	300	317.4
S/P 38	02/28/03	<0.025	<0.025	<0.025	<0.025	<10.0	58.3	58.3
S/P 39	02/28/03	<0.025	<0.025	<0.025	<0.025	37.1	367	404.1
S/P 40	02/28/03	<0.025	<0.025	<0.025	<0.025	18.5	258	276.5

TABLE 1**CONCENTRATIONS OF BTEX AND TPH
IN STOCKPILED SOIL****EOTT ENERGY, LLC
DARR ANGELL # 4
LEA COUNTY, NEW MEXICO****ETGI PROJECT # EO 2075
EOTT RELEASE # : DARR ANGELL #3/4 - 2001-10876**

SAMPLE LOCATION	SAMPLE DATE	METHODS: 8260b/BTEX				Method: 8015m		
		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH (mg/Kg)
S/P 41	02/28/03	<0.025	<0.025	<0.025	<0.025	22.4	325	347.4
S/P 42	02/28/03	<0.025	<0.025	<0.025	<0.025	10.5	206	216.5
S/P 43	02/28/03	<0.025	<0.025	<0.025	<0.025	<10.0	114	114
S/P 44	06/11/03	<0.025	<0.025	<0.025	<0.025	<10.0	135	135
S/P 45	06/11/03	<0.025	<0.025	<0.025	<0.025	13.3	268	281.3

Note: Average TPH concentration following initial shredding: 319.1 -----> Samples 1-26
Average TPH concentration following second shredding: 203.1 -----> Samples 27-45

Site Name: Darr Angell #1

Remediation Plan: AP-07

Company: EOTT

Contractor: ETGI

Date Inspected: September 24, 2003 by Ed Martin, Larry Johnson and Paul Sheeley

Inspected site on above date with Jeff Dann (EOTT), Jerry Brian (ETGI), Chance Johnson (ETGI). Stage 2 abatement plan in progress. Abatement continuing with monitoring being reported to OCD. Need A/P addendum. Horizontal delineation not complete.



Site Name: Darr Angell #2

Remediation Plan: AP-07

Company: EOTT

Contractor: ETGI

Date Inspected: September 24, 2003 by Ed Martin, Larry Johnson and Paul Sheeley

Inspected site on above date with Jeff Dann (EOTT), Jerry Brian (ETGI), Chance Johnson (ETGI). Stage 2 abatement plan in progress. Stockpile sampling results due from contractor. They plan to move the stockpile, thereby further reducing TPH concentration. Horizontal delineation complete.



Site Name: Darr Angell #3/4

Remediation Plan: AP-07

Company: EOTT

Contractor: ETGI

Date Inspected: September 24, 2003 by Ed Martin, Larry Johnson and Paul Sheeley

Inspected site on above date with Jeff Dann (EOTT), Jerry Brian (ETGI), Britt Byerley (EOTT), Chance Johnson (ETGI). Stage 2 abatement plan in progress. EOTT wants to backfill, but OCD has not received a request to do so. This letter is needed from contractor to allow for further soil remediation and continued groundwater remediation. Groundwater depth 60'. Horizontal delineation complete.



Site Name: Darr Angell #3/4

Remediation Plan: AP-07

Company: EOTT

Contractor: ETGI

Date Inspected: September 24, 2003 by Ed Martin, Larry Johnson and Paul Sheeley

Recommendation: No further action at this time. Pending receipt of request from contractor.

EOTT ENERGY LLC

P.O. BOX 4666
HOUSTON, TEXAS 77210-4666

April 18, 2003

Mr. Randolph Bayliss, P.E.
Hydrologist
Oil Conservation Division
State of New Mexico
1220 South St. Francis Drive
Santa Fe NM 87505

RECEIVED

APR 27 2003
Environmental Bureau
Oil Conservation Division

Dear Mr. Bayliss;

EOTT Energy, LLC is an Operator of crude oil pipelines and terminal facilities located in the state of New Mexico. EOTT actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and workplans developed in consultation with the New Mexico Oil Conservation Division. Consistent with the rules and regulations of the New Mexico OCD, EOTT hereby submits its annual monitoring report for the following titled site in Lea County, New Mexico:

- Darr Angell #1 Section 11(NW $\frac{1}{4}$ of the SE $\frac{1}{4}$), Township 15 South, Range 37 East
- Darr Angell #2 Section 11(SW $\frac{1}{4}$ of the SE $\frac{1}{4}$), Township 15 South, Range 37 East
Section 14 (NW $\frac{1}{4}$ of the NE $\frac{1}{4}$), Township 15 South, Range 37 East
- Darr Angell #4 Section 11(NW $\frac{1}{4}$ of the NE $\frac{1}{4}$), Township 15 South, Range 37 East
Section 2 (SW $\frac{1}{4}$ of the SE $\frac{1}{4}$), Township 15 South, Range 37 East
- Livingston Ridge to Hugh P Sims Section 03 (NE $\frac{1}{4}$ of the SE $\frac{1}{4}$), Township 21 South, Range 37 East
- Texaco Skelly F Section 21 (SW $\frac{1}{4}$ of the NW $\frac{1}{4}$), Township 20 South, Range 37 East

ETGI prepared this document and has vouched for their accuracy and completeness, and on behalf of EOTT Energy, I have personally reviewed the document and interviewed ETGI in order to verify the accuracy and completeness of this document. It is based upon these inquiries and reviews that EOTT Energy submits the Annual Compliance Monitoring Report for the above listed facility.

I look forward to scheduling a meeting with you in the second or third week of April as you schedule allows, which will allow for an opportunity to review and discuss the results of the monitoring. If you have questions in the interim, please contact me at (713) 993-5047.

Sincerely,



Bill Von Drehle
Director Environmental
EOTT ENERGY LLC

Enclosure

Cc: Frank Hernandez



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

February 7, 2001

CERTIFIED MAIL

RETURN RECEIPT NO: 5051-4072

Mr. Glen Waldrop
EOTT Energy Pipeline Limited Partnership
P.O. Box 1660
Midland, Texas 79702

**RE: STAGE 1 GROUND WATER ABATEMENT PLAN (AP-7)
DARR ANGELL RANCH**

Dear Mr. Waldrop:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Pipeline Limited Partnership's (EOTT) November 1, 2000 "DARR ANGELL RANCH STAGE 1 GROUNDWATER ABATEMENT PLAN (AP-7)" which was submitted on behalf of EOTT by their consultant Environmental Technology Group, Inc. This document contains EOTT's response to the OCD's October 5, 2000 request for additional information on EOTT's Stage 1 investigation of the extent of soil and ground water contamination resulting from a crude oil spill at EOTT's Darr Angell Ranch leak site.

The Stage 1 investigation actions are still deficient because the eastern limits of the dissolved phase contamination of ground water have not been completely defined. The ground water benzene concentration in monitor well MW-13 is 200 times the New Mexico Water Quality Control Commission (WQCC) standard and the downgradient limit of this contamination has not been defined. The OCD understands that there are other potential contaminant sources downgradient of MW-13. However, that does not relieve EOTT of responsibility for defining the extent of contamination related to their activities. Therefore, the OCD requires that EOTT submit a work plan to completely define the downgradient extent of ground water contamination which is in excess of the standards of OCD Rule 19.B. Please submit the work plan to the OCD Santa Fe Office by March 7, 2001 with a copy provided to the OCD Hobbs District Office.

If you have any questions or comments, please contact Bill Olson at (505) 476-3491 .

Sincerely,

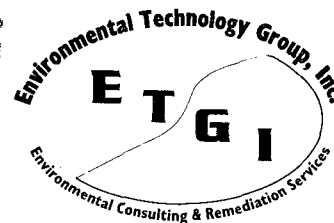
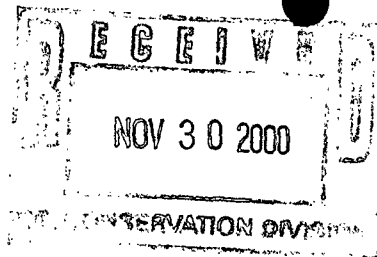
A handwritten signature in black ink, appearing to read "Roger C. Anderson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Roger C. Anderson
Environmental Bureau Chief

xc: Chris Williams, OCD Hobbs District Office
Beth Aldrich, Environmental Technology Group, Inc.

November 1, 2000

Mr. Bill Olson
New Mexico Oil Conservation Division
Environmental Bureau
2040 South Pacheco
Santa Fe, NM 87505



RE: Darr Angell Ranch Stage 1 Groundwater Abatement Plan (AP-7)

Mr. Olson:

As per your letter dated October 5, 2000, following is the additional information and clarifications that you requested. Each item is addressed separately.

1. The site is located in the ^NSW ¼, SE ¼ of Section 11 as per our Survey Plat, performed by John West Engineering. The survey plat is provided as an attachment.
2. A list of all water wells within 1 mile of the site is attached. This information was obtained from the New Mexico Office of the State Engineer.
3. The northern boundary of the plume appears to have been delineated based on the analytical results obtained from groundwater samples. The groundwater samples taken from monitor wells MW-4, MW-16 and MW-20 have all produced analytical results below regulatory action limits for BTEX. The groundwater sample taken from monitor well MW-15 produced analytical results below regulatory action limits for Toluene, Ethyl Benzene and Xylenes. The analytical result for Benzene was 0.011 mg/L, slightly above the regulatory action limit of 0.010mg/L.

The eastern boundary of the plume appears to have been delineated based on the analytical results from the groundwater samples taken from monitor wells MW-7 and MW-20. Monitor well MW-7 is from the southeast portion of the site and monitor well MW-20 is from the northeast portion of the site. The analytical results from both monitor wells are below the regulatory action limits.

The analytical results of the groundwater sample taken from monitor well MW-13, in the east-central portion of the site, are below the regulatory action limits for Toluene, Ethyl Benzene and Xylenes. The groundwater sample does show a level of Benzene above the regulatory action level. However, completion of an additional, eastward, outward stepping monitor well is hampered by the existence of an adjacent well location, abandoned mud pit and power line to the east. The abandoned mud pit could provide an additional contamination source.

Fingerprint analytical testing will be performed on the free product encountered in the groundwater from a recovery well at the site as well as from the EOTT Energy Pipeline Limited Partnership (EOTT) pipeline at the site to verify that the source of contamination is from the existing EOTT pipeline.

4. On completion of free product removal and remediation of dissolved phase constituent in the groundwater to below regulatory action levels, which will be confirmed by subsequent analytical testing of the groundwater, EOTT will then submit a request for "No Further Action".

A copy of this response has also been provided to the Oil Conservation Division District office in Hobbs. If you have any additional questions or comments, please contact me at (505) 397-4882. Thank you.

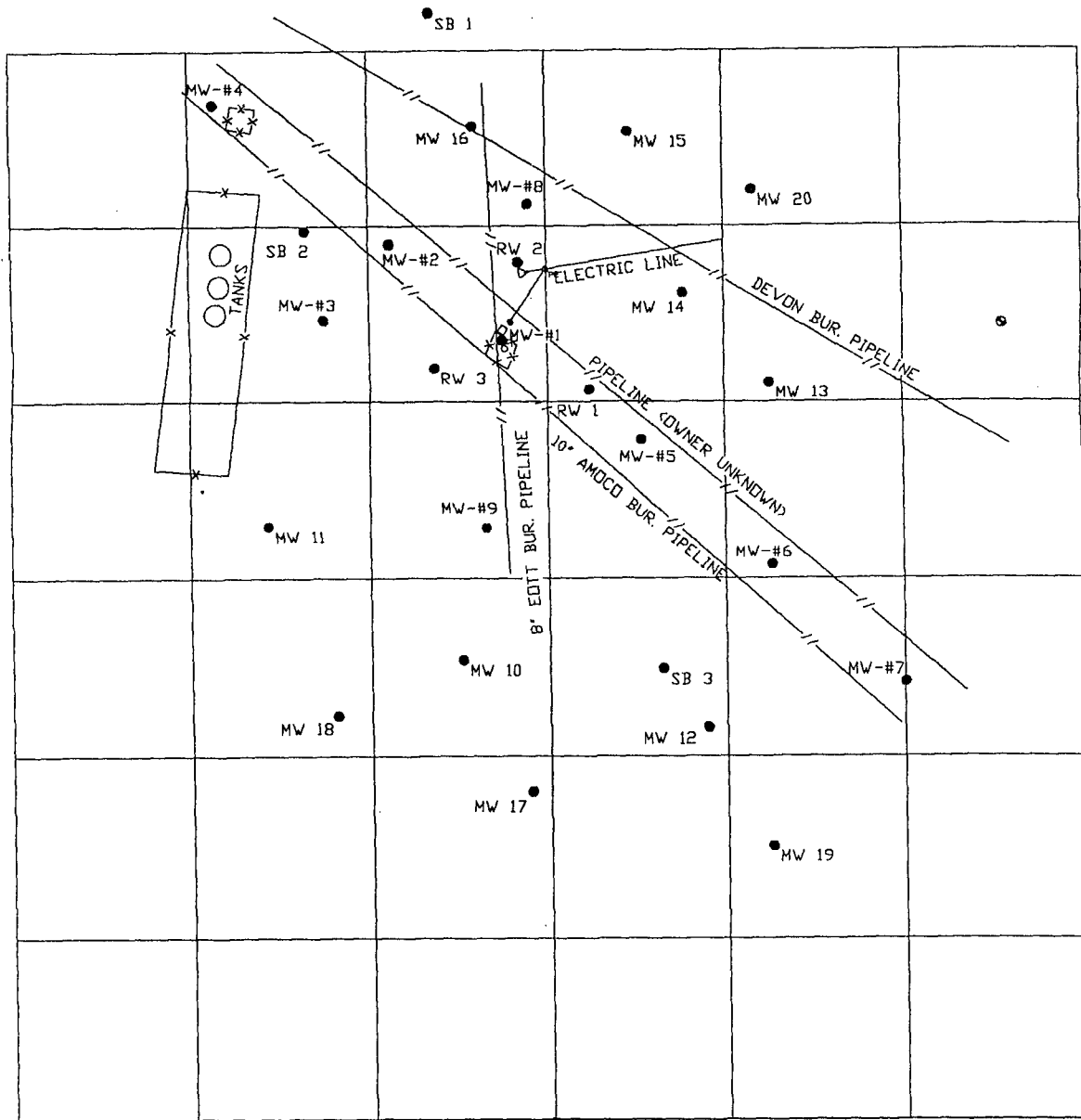
Sincerely,

A handwritten signature in cursive script, appearing to read "Beth Aldrich".

Beth Aldrich
Geologist/New Mexico Region Manager

Cc: Glenn Waldrop, EOTT Energy Pipeline
Donna Williams, OCD District office, Hobbs
Jerry Nickell, ETGI - Midland

1/4 COR
USGLO BC

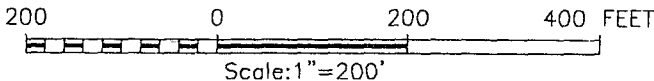


1/4 COR
USGLO BC

USGLO BC

11 12
14 13

NOTE:
● - BM 1/2" STL. ROD
W/AC ELEV.=3784.77'



I HEREBY CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



RONALD J. EIDSON, N.M. P.S. No. 3239
GARY G. EIDSON, N.M. P.S. No. 12641
JOHN WEST SURVEYING COMPANY

412 N. DAL PASO - HOBBS, NEW MEXICO - 505-393-3117

ETGI

LOCATION OF MONITOR WELLS IN
AND OTHER FACILITIES AT
DARR ANGELL #1 IN
SECTION 11,
TOWNSHIP 15 SOUTH,
RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

Rev: 8/11/00

Survey Date: 7/26/00

Sheet 1 of 2 Sheets

W.O. Number: 00-11-0935

Drawn By: D. COLLINS

Date: 7/28/00

ETGI

ETGI 0935

Scale: 1"=200'

WELL NO.	DIST. FROM SECTION LINES	NORTH SIDE ELEVATIONS
MW #1	1451' FEL 871' FSL	3783.86 NATURAL GROUND 3784.05 TOP OF CONC. SLAB 3785.74 TOP 4" PVC
MW #2	1577' FEL 980' FSL	3783.77 NATURAL GROUND 3784.05 TOP CONC. SLAB 3785.88 TOP 4" PVC
MW #3	1651' FEL 895' FSL	3783.76 NATURAL GROUND 3783.95 TOP CONC. SLAB 3786.05 TOP 4" PVC
MW #4	1772' FEL 1139' FSL	3783.65 NATURAL GROUND 3783.92 TOP OF CONC. SLAB 3786.47 TOP 4" PVC
MW #5	1294' FEL 757' FSL	3783.48 NATURAL GROUND 3783.89 TOP OF CONC. SLAB 3785.55 TOP 4" PVC
MW #6	1148' FEL 616' FSL	3782.05 NATURAL GROUND 3782.34 TOP CONC. SLAB 3785.47 TOP 4" PVC
MW #7	999' FEL 483' FSL	3782.84 NATURAL GROUND 3783.08 TOP OF CONC. SLAB 3785.48 TOP 4" PVC
MW #8	1421' FEL 1025' FSL	3783.81 NATURAL GROUND 3784.14 TOP OF CONC. SLAB 3785.76 TOP 4" PVC
MW #9	1470' FEL 658' FSL	3783.11 NATURAL GROUND 3783.41 TOP OF CONC. SLAB 3785.79 TOP 4" PVC
MW #10	1498' FEL 508' FSL	3782.60 NATURAL GROUND 3783.03 TOP OF CONC. SLAB 3785.99 TOP 2" PVC
MW #11	1714' FEL 660' FSL	3782.97 NATURAL GROUND 3783.34 TOP CONC. SLAB 3786.32 TOP 2" PVC
MW #12	1222' FEL 433' FSL	3782.33 NATURAL GROUND 3782.79 TOP CONC. SLAB 3785.79 TOP 2" PVC
MW #13	1149' FEL 822' FSL	3782.65 NATURAL GROUND 3782.98 TOP OF CONC. SLAB 3786.01 TOP 2" PVC
MW #14	1246' FEL 925' FSL	3782.68 NATURAL GROUND 3783.08 TOP OF CONC. SLAB 3786.06 TOP 2" PVC
MW #15	1306' FEL 1107' FSL	3782.69 NATURAL GROUND 3783.10 TOP CONC. SLAB 3786.13 TOP 2" PVC
MW #16	1482' FEL 1113' FSL	3782.88 NATURAL GROUND 3783.25 TOP OF CONC. SLAB 3786.33 TOP 2" PVC
MW #17	1422' FEL 361' FSL	3782.86 NATURAL GROUND 3783.15 TOP OF CONC. SLAB 3785.83 TOP 2" PVC
MW #18	1638' FEL 446' FSL	3782.79 NATURAL GROUND 3783.22 TOP OF CONC. SLAB 3786.10 TOP 2" PVC
MW #19	1150' FEL 300' FSL	3782.39 NATURAL GROUND 3782.76 TOP CONC. SLAB 3785.71 TOP 2" PVC
MW #20	1167' FEL 1041' FSL	3782.80 NATURAL GROUND 3783.18 TOP CONC. SLAB 3786.00 TOP 2" PVC
RW 1	1352' FEL 814' FSL	3783.14 NATURAL GROUND 3783.42 TOP OF CONC. SLAB 3785.94 TOP 6" PVC
RW 2	1432' FEL 906' FSL	3783.03 NATURAL GROUND 3783.38 TOP CONC. SLAB 3786.14 TOP 6" PVC
RW 3	1528' FEL 839' FSL	3783.08 NATURAL GROUND 3783.45 TOP CONC. SLAB 3786.14 TOP 6" PVC
SB 1	1530' FEL 1244' FSL	
SB 2	1672' FEL 995' FSL	
SB 3	1271' FEL 498' FSL	

0.6755
0.907

ETGI

LOCATION OF MONITOR WELLS IN
AND OTHER FACILITIES AT
DARR ANGELL #1 IN
SECTION 11,
TOWNSHIP 15 SOUTH,
RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

Survey Date: 7/26/00

Sheet 2 of 2 Sheets

W.O. Number: 00-11-0935

Drawn By: D. COLLINS

Date: 7/28/00 ETGI

ETGI 0935

Scale: 1"=200'

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO - HOBBS, NEW MEXICO - 505-393-3117

**New Mexico Office of the State Engineer
Well Reports and Downloads**

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

Well Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

WATER COLUMN REPORT 10/31/2000

Well Number	(quarters are biggest to smallest)						Zone	X	Y	Depth	Depth	Wat
	Tws	Rng	Sec	q	q	q				Well	Water	
L 01447 APPRO	15S	37E	01	1	1				113	45		
L 01587 APPRO	15S	37E	01	1	2				115	55		
L 01297 APPRO	15S	37E	01	1	3				115	45		
L 01491 APPRO	15S	37E	01	1	3				117	45		
L 03929 APPRO	15S	37E	01	1	4	1			100	55		
L 01175 APPRO	15S	37E	01	3	1				120	33		
L 01637 APPRO	15S	37E	01	3	1	1			109	50		
L 01224 APPRO	15S	37E	02	1	1				115	33		
L 01118 APPRO	15S	37E	02	1	3				108			
L 01095 APPRO	15S	37E	02	1	4				120			
L 01284 APPRO	15S	37E	02	2	1				108	48		
L 01285 APPRO	15S	37E	02	2	2				112	52		
L 01204 APPRO	15S	37E	02	2	4	3			100	40		
L 01197 APPRO	15S	37E	02	3	1	3			112			
L 07198	15S	37E	02	3	2	4			125	47		
L 01422 APPRO	15S	37E	02	3	3				100			
L 01673 APPRO	15S	37E	02	3	4				120			
L 01293 APPRO	15S	37E	03	2	2				113	45		
L 08594	15S	37E	03	3	1	1			150	90		
L 08598	15S	37E	03	3	1	3			150	90		
L 01997 APPRO	15S	37E	03	4	1	2			120	33		
L 01578 APPRO	15S	37E	03	4	2	2			115	55		
L 01739 APPRO	15S	37E	10	2	2	2			110	55		
L 02268 APPRO	15S	37E	10	4	2					55		
L 02317 APPRO	15S	37E	11	1	1				110	65		
L 01182 APPRO	15S	37E	11	1	1	1			110	35		
L 01322 APPRO	15S	37E	11	1	1	2			120			
L 01430 APPRO	15S	37E	11	1	2				120	33		
L 01324 APPRO	15S	37E	11	2	1				120	32		
L 01283 APPRO	15S	37E	11	2	3				120	40		
L 07610	15S	37E	11	2	3				100			
L 01323 APPRO	15S	37E	11	2	4				120	32		

L 01321 APPRO	15S 37E 11 2 4	120	32
L 01117 APPRO	15S 37E 11 2 4 3	120	50
L 02391 APPRO	15S 37E 11 3 3 3	80	37
L 07665	15S 37E 11 4 4 4	136	40
L 04956	15S 37E 12 1 1	75	60
L 04956 REPAR	15S 37E 12 1 1 1	100	43
L 06625 (E)	15S 37E 12 2 2 3	130	80
L 01568 CPPU	15S 37E 12 3 1	120	38
L 09926	15S 37E 12 4 1	150	75
L 01199 APPRO	15S 37E 14 1 4 2	121	37
L 01080 APPRO	15S 37E 14 2 2 1	120	32
L 01045 APPRO	15S 37E 14 2 3 1	120	70
L 07953	15S 37E 15 1 4 3	100	68
L 00956	15S 37E 15 2 2	112	
L 01207 APPRO	15S 37E 15 2 2	120	32
L 01237 APPRO	15S 37E 15 2 2	110	38

Record Count: 48



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenberg

Director

Oil Conservation Division

October 5, 2000

CERTIFIED MAIL

RETURN RECEIPT NO: 5051-3631

Mr. Glen Waldrop
EOTT Energy Pipeline Limited Partnership
P.O. Box 1660
Midland, Texas 79702

**RE: STAGE 1 GROUND WATER ABATEMENT PLAN (AP-7)
DARR ANGELL RANCH**

Dear Mr. Waldrop:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Pipeline Limited Partnership's (EOTT) August 27, 2000 "DARR ANGELL RANCH STAGE 1 GROUNDWATER ABATEMENT PLAN (AP-7)" which was submitted on behalf of EOTT by their consultant Environmental Technology Group, Inc. This document contains the results of EOTT's Stage 1 investigation of the extent of soil and ground water contamination resulting from a crude oil spill at EOTT's Darr Angell Ranch leak site including interim recovery of free phase product from the ground water.

The investigation and interim remedial actions conducted to date are satisfactory, however the OCD has the following comments and requests for information regarding the above-referenced document:

1. The location information does not contain the $\frac{1}{4}$, $\frac{1}{4}$ location of the site within Section 11. As shown on figure 1, the site appears to be located in the NW/4, SE/4 of Section 11, but the site has previously been identified as being located in the SW/4, SE/4 of Section 11. Please clarify which $\frac{1}{4}$, $\frac{1}{4}$ location is the correct location of the site and please include the $\frac{1}{4}$, $\frac{1}{4}$ site location in all future reports.
2. The report contains information on water wells within $\frac{1}{2}$ mile of the site. However, OCD Rule 19.E(3)(b)(i) requires identification of all water wells within 1 mile of the site. Please provide this information.

3. According to the report, the north and eastern limits of the dissolved phase contamination of ground water has not been completely defined. Please submit a work plan to completely define the extent of ground water contamination which is in excess of the standards of OCD Rule 19.B.
4. The report states that upon completion of product removal EOTT will submit a request for "No Further Action" and closure of the site. Please be aware that the OCD cannot administratively approve closure of a site when contamination is present in excess of the standards of Rule 19.B. This includes the dissolved portion of the contamination related to EOTT's activities.

Please submit the above information to the OCD Santa Fe Office by November 5, 2000 with a copy provided to the OCD Hobbs District Office.

If you have any questions or comments, please contact me at (505) 827-7154 .

Sincerely,



William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office

August 27, 2000

SEP 13



Mr. Bill Olson
New Mexico Oil Conservation Division
Environmental Bureau
2040 South Pacheco
Santa Fe, NM 87505

RE: Darr Angell Ranch Stage 1 Groundwater Abatement Plan (AP-7)

Mr. Olson:

On behalf of EOTT Energy Pipeline, Environmental Technology Group, Inc. (ETGI) submits the enclosed site investigation report pursuant to your letter dated August 7, 2000. As per our conversation on August 18, 2000, ETGI has completed a supplemental site investigation at the site. Enercon completed the initial site investigation.

ETGI is in the process of completing site investigations at two adjacent sites, Darr Angell #2 and Darr Angell #3. Investigation reports will follow for these sites.

A copy of this report has also been provided to the Oil Conservation Division District office in Hobbs. If you have any questions or comments, please contact me at (505) 397-4882. Thank you.

Sincerely,

A handwritten signature in cursive script, reading "Beth Aldrich", is written over a horizontal line.

Beth Aldrich
Geologist/New Mexico Area Manager

Cc: Glenn Waldrop, EOTT Energy Pipeline
Donna Williams, OCD District office, Hobbs
Jerry Nickel, ETGI - Midland



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

August 7, 2000

CERTIFIED MAIL

RETURN RECEIPT NO: 5051-3419

Mr. Glen Waldrop
EOTT Energy Pipeline Limited Partnership
P.O. Box 1660
Midland, Texas 79702

**RE: STAGE 1 GROUND WATER ABATEMENT PLAN (AP-7)
DARR ANGELL RANCH**

Dear Mr. Waldrop:

On July 20, 1999, the New Mexico Oil Conservation Division (OCD) approved EOTT Energy Pipeline Limited Partnership's (EOTT) Stage 1 Investigation Proposal for determining the extent of soil and ground water contamination resulting from a crude oil spill at EOTT's Darr Angell Ranch leak site including interim recovery of free phase product from the ground water. Condition #6 of the OCD's approval required that EOTT submit a comprehensive report containing the results of the Stage 1 investigations to the OCD by September 20, 1999. The OCD has no record of receiving this document. In order to correct this deficiency, the OCD requires that EOTT submit the results of the Stage 1 investigations to the OCD Santa Fe Office by August 31, 2000 with a copy provided to the OCD Hobbs District Office.

If you have any questions or comments, please contact me at (505) 827-7154 .

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office

EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660
5805 E. BUSINESS 20
MIDLAND, TEXAS 79702
(915) 682-3761

October 15, 1999

State of New Mexico
Oil Conservation Division - Hobbs District Office
1625 N. French Dr.
Hobbs, NM 88240
Attn: Donna Williams

684-3400
RECEIVED

OCT 25 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: Installation of Additional Monitor Wells in Lea County, NM

Dear Ms. Williams:


Below is a list of old Texas-New Mexico Pipeline sites that require additional monitor wells to be installed. Also on this list are 3 EOTT sites that require additional and/or new monitor wells.

TNM - SPS-11	TNM - 98-05A
TNM - 97-14	TNM - 97-16
TNM - 97-17	TNM - 97-18
EOTT - Darr Angell site #1	
EOTT - Darr Angell site #2	
EOTT - leak #TNM-LF-59	

We will begin drilling these wells on Monday, October 25, 1999 and will proceed from site to site on a geographic basis. The SPS-11 site is scheduled first. I will be out of town that week but Wayne Brunette will be coordinating drilling activity with our contractor Jerry Nickell and Allan Eades of Eades Drilling. Wayne's number is 915/556-0190. If you would like to be present at any of these installations, please contact Wayne to verify time and locations for each day's drilling.

Donna, I hope this meets with your approval but if you have any questions or need additional information, please don't hesitate to call me.

Sincerely,



Lennah Frost
Sr. Environmental Engineer

cc: William Olson - NMOCD - Santa Fe
Wayne Brunette
Glenn Waldrop

EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660
5805 E. BUSINESS 20
MIDLAND, TEXAS 79702
(915) 687-2040

BY CERTIFIED MAIL
RETURN RECEIPT NO. Z 425 534 615

June 9, 1999

State of New Mexico
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attn: William Olson

JUN 11 1999

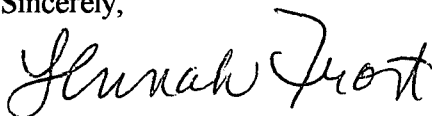
**RE: STAGE 1 GROUNDWATER ABATEMENT PLAN (AP-7)
DARR ANGELL RANCH**

Dear Mr. Olson:

Pursuant to your letter dated March 25, 1999, EOTT has corrected the deficiencies identified in the above captioned abatement plan. Attached please find an affidavit of mailing for Charlie DeSaillan, Office of Attorney General Environmental Enforcement Division, landowner, Darr Angell and a copy of the certified return receipt from William Turner, New Mexico Natural Resources Trustee.

If you have any questions or need additional information, please don't hesitate to call me at 915/684-3467.

Sincerely,



Lennah Frost
Sr. Environmental Engineer

cc: Al Hugh - Environmental File

EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660
5805 E. BUSINESS 20
MIDLAND, TEXAS 79702
(915) 687-2040

Affidavit of Mailing

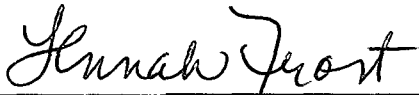
This certifies that on May 25, 1999 a written notice of the Stage 1 Investigation Proposal was sent regular mail to the following persons:

Mr. Darr Angell
P.O. Box 190
Lovington, NM 88260

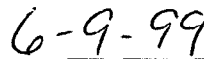
Charlie DeSaillan
Office of Attorney General
Environmental Enforcement Division
P.O. Drawer 1508
Santa Fe, NM 87504

*William Turner
New Mexico Natural Resources Trustee
c/o American Groundwater Consultant
610 Gold St. S.W.
Suite 111
Albuquerque, NM 87102

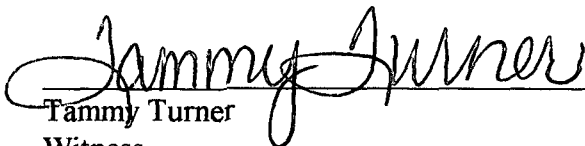
*indicates was sent certified mail - copy of receipt attached



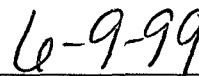
Lennah Frost
Sr. Environmental Engineer



Date



Tammy Turner
Witness



Date

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive **PM** following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

William Turner
NM Natural Resources Trust
c/o Amer. G.W. Consultant
610 Bold St. S.W., Ste 111
Albuquerque NM 87102

4a. Article Number

Z 725 534650

4b. Service Type

- ☐ Registered ☐ Certified
☐ Express ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

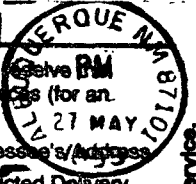
X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-8-0229

Domestic Return Receipt



Thank you for using Return Receipt Service.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 25, 1999

CERTIFIED MAIL
RETURN RECEIPT NO: Z-274-520-666

Ms. Lennah Frost
EOTT Energy Pipeline Limited Partnership
P.O. Box 1660
Midland, Texas 79702

**RE: STAGE 1 GROUND WATER ABATEMENT PLAN (AP-7)
DARR ANGEL RANCH**

Dear Ms. Frost:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Pipeline Limited Partnership's (EOTT) April 20, 1999 "DENTON GATHERING AREA LEAKSITE - DARR ANGEL RANCH, SEC 11, T-15-S, R-37-E, LEA COUNTY, NEW MEXICO". This document contains EOTT's proof of public notification of the Stage 1 Investigation Proposal.

A review of the above referenced document shows that the public notification for the Stage 1 Abatement Plan is deficient because notice was not issued to surface owners of record within 1 mile of the site as required by OCD Rule 19.G.(1)(a); the New Mexico Trustee for Natural Resources was not notified by certified mail as required by OCD Rule 19.G.(1)(e). and the document does not contain an affidavit of mailing for those persons which were sent notice by regular mail. To correct these deficiencies, EOTT shall:

1. Issue written notice of the Stage 1 Investigation Proposal to surface owners of record within 1 mile of the perimeter of the site pursuant to OCD Rule 19.G.(1)(a) by June 11, 1999.
2. Issue written notice of the Stage 1 Investigation Proposal to the New Mexico Trustee for Natural Resources by certified mail pursuant to OCD Rule 19.G.(1)(e) by June 11, 1999.
3. Provide an affidavit of mailing for those persons which were sent notice by regular mail and proof of the above required notice.

The above parties will have 30 days from receipt the notice to provide the OCD with any comments on the Stage 1 Investigation Proposal.

If you have any questions or comments, please contact me at (505) 827-7154 .

Sincerely,



William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office

Z 274 520 666

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (*See reverse*)

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	\$
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660
5805 E. BUSINESS 20
MIDLAND, TEXAS 79702
(915) 687-2040

BY CERTIFIED MAIL

April 20, 1999

State of New Mexico
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attn: Roger Anderson

RE: DENTON GATHERING AREA
LEAKSITE - DARR ANGEL RANCH
Sec. 11, T-15-S, R-37-E
Lea County, New Mexico

Dear Mr. Anderson:

This letter is in response to your letter dated March 24, 1999 concerning approval of our Stage 1 Abatement Plan Proposal. Attached please find the following items:

1. Copies of Affidavit of Publication from the Lovington Daily Leader and the Albuquerque Journal verifying EOTT's public notice of the Stage 1 proposal pursuant to OCD Rule 19.G.(2);
2. A list of persons notified, in writing, of the Stage 1 proposal, pursuant to OCD Rule 19.G.(1).

If you have any questions or need additional information, please don't hesitate to call me at 915/684-3467.

Sincerely,



Lennah Frost
Sr. Environmental Engineer

/ld
attachments

State Land Office
Hobbs District
3830 North Grimes
Suite C
Hobbs, NM 88240

Chris Shuey
Southwest Research
& Information Center
P. O. Box 4524
Albuquerque, N.M. 87106

Director
State Parks & Recreation
Villagra Building
Santa Fe, N.M. 87503

Marcia Simmons
KOAT-RV
3801 Carlisle NE
Albuquerque, N.M. 87108

Dr. Jay Sorenson
2800 Charleston NE
Albuquerque, N.M. 87110

Director
El Paso Natural Gas
Environmental Affairs Dept.
P. O. Box 1492
El Paso, Texas 79978

Bob Steele
Land & Mineral Resources
P. O. Box 194
Laguna, N.M. 87026

Environmental Manager
Anaconda Copper Company
P. O. Box 638
Grants, N.M. 87020

Westinghouse Electric Corp.
Manager - Uranium Resources Div.
P. O. Box 355
Pittsburg, P.A. 15230

George Vlahos
Sierra Club
212 Tulane SE
Albuquerque, N.M. 87106

Office of the Secretary
EMNRD

Lee Wilson & Associates
P. O. Box 931
Santa Fe, N.M. 87501

Secretary
New Mexico Environment Department
P. O. Box 26110
Santa Fe, NM 87504

Maxine Goad
NM Environment Department
Surface Water Quality Bureau
Harold Runnels Building
Santa Fe, NM 87503

Thomas Kellahin
Kellahin & Kellahin
P. O. Box 2265
Santa Fe, NM 87501

Director
Department of Game & Fish
Villagra Building
Santa Fe, NM 87503

Jackie Jennings
Core Laboratories, Inc.
10703 E. Bethany Drive
Aurora, CO 80014

Olson Plunk
Southwestern Public Service
P. O. Box 1261
Amarillo, TX 79170

Soil and Water Conservation Bureau
New Mexico Department of Agriculture
Agriculture Programs and Resources Division
Box 30005/APR
Las Cruces, New Mexico 88003-8005

Environmental Affairs
Public Service Company
of New Mexico
P. O. Box 2267
Albuquerque, NM 87103

Governor
Pueblo of Laguna
P. O. Box 194
Laguna, NM 87026

State Engineer
Water Resources Division
Bataan Building
Santa Fe, NM 87503

State Director
Bureau of Land Management
P. O. Box 27115
Santa Fe, NM 87502-0115

NM Citizens
Clean Air & Water
John Bartlit, Chairman
113 Monte Ray Dr., North
Los Alamos, NM 87544

William F. Carr
Campbell & Black
P. O. Box 2208
Santa Fe, NM 87501

NM Municipal League
P. O. Box 846
1229 Paseo De Peralta
Santa Fe, NM 87501

Jay Lazarus
P. O. Box 5727
Santa Fe, NM 87502

Director
Water Resources Dept.
p. O. Box 1293
Albuquerque, NM 87103

NM Water Well Association
1205 California NE
Albuquerque, NM 87110

Field Supervisor
US Fish & Wildlife Service
2105 Osuna Road, Northeast
Albuquerque, NM 87113-1001

Patricia A. D'Andrea
P. O. Box 6387
Santa Fe, NM 87502

Bruce S. Garber
Attorney at Law
P. O. Box 0850
Santa Fe, NM 87504-0850

Mike Matush
State Land Office Building
Santa Fe, NM 87503

Science Applications, Inc.
P. O. Box 3344
Boulder, CO 80303

Dr. Harry Bishara
P. O. Box 748
Cuba, NM 87013

Director
Albuquerque Environmental
Health Department
P. O. Box 1293
Albuquerque, NM 87103

John Draper
Montgomery & Andrews
P. O. Box 2307
Santa Fe, NM 87504

Perry Pearce
Burlington Resources
300 Galisteo, Suite 101
Santa Fe, NM 87501

Lynn Brandvold
NM Bureau of Mines &
Mineral Resources
NM Institute of Mining & Tech.
Socorro, NM 87801

Jeanne Haffen
El Paso Natural Gas
P. O. Box 1492
El Paso, TX 79978

Charles Hagerman
P. O. Box 1421
Santa Fe, NM 87501

Richard P. Chagnon
Hydrologist
2825 E. Malvern Drive
Tucson, AZ 85716

Regional Forester
USFS Regional Office
517 Gold Avenue SW
Albuquerque, NM 87102

Director
Colorado River Comm
of Nevada
555 East Washington Avenue,
Suite 3100
Las Vegas, NV 89158

Gerald R. Zimmerman
Colorado River Board of Calif.
770 Fairmont Ave., Ste. 100
Glendale, CA 91203-1035

Director
Division of Water Quality
288 North 1460 West
Salt Lake City, UT 84114-4870

Jack A. Barnett
Colorado River Basin Ctrl. Forum
106 West 500 South,
Suite 101
Bountiful, UT 84010

Chief
Groundwater Bureau
Runnels Building
Santa Fe, NM 87504

Chief
Hazardous Waste Bureau
Runnels Building
Santa Fe, NM 87504

Thomas W. Merlan, Director
228 East Palace Avenue
Villa Rivera Room 101
Santa Fe, NM 87503

Chester Rail
10613 Calle De Elena NW
Albuquerque, NM 87048

Ken Marsh
Controlled Recovery Inc.
P. O. Box 1832
Hobbs, NM 88240

Tanis Fox
Attorney General's Office
P. O. Box 1508
Santa Fe, NM 87504

Colin Adams
Environmental Counsel
Public Service Company
of New Mexico
414 Silver, Southwest
Albuquerque, NM 87158

Devon E. Jercinovic
International Technology Corp.
5301 Central Avenue, N.E.
Suite 700
Albuquerque, NM 87108

N.M. Oil & Gas Association
P. O Box 1864
Santa Fe, New Mexico 87504-1864

State Land Office
Carlsbad District
1004 Paisano
Carlsbad, NM 88220

Len Oyenque
The Tewa Company
P.O. Box 1261
San Juan Pueblo, NM 87566

Ross Black
Lea County Commissioner
Lea County Courthouse

HTTN: LENNAH FROST

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS
AND NATURAL
RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

EOTT Energy Pipeline Limited Partnership, Lennah Frost, Project Manager, Telephone (915) 684-3467, P.O. Box 1860, Midland, Texas 79702, has submitted a Stage 1 Abatement Plan Proposal for the Don Angell Ranch site, located approximately 12.5 miles east of Lovington, New Mexico in the SW 1/4, SE 1/4 of Section 11, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico. EOTT Energy Pipeline Limited Partnership operates a crude oil pipeline at the site. Phase-separated hydrocarbon (PSH) had been observed on the ground water. The Stage 1 Abatement Plan Proposal presents the following subsurface investigation activities: determine site geology and hydrogeology; conduct a registered water well search within a 1 mile radius of the site; install a minimum of 2 monitoring wells; if necessary, install additional wells; collect soil samples for field screening and/or laboratory analysis from each boring; collect ground water samples for laboratory analysis from each monitoring well; obtain depth to ground water measurements and calculate the ground water gradient and direction; survey all well locations by a professional land surveyor registered in the State of New Mexico; and prepare a report summarizing field activities and laboratory results.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the

Oil Conservation Division at the address given above. The Stage 1 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1825 N. French Drive, Hobbs, New Mexico 88240, Telephone (800) 363-6181 between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted.
Journal April 6, 1999

STATE OF NEW MEXICO
County of Bernalillo

SS

Bill Tafoya, being duly sworn, declares and says that he is Classified Advertising Manager of The Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for 1 times, the first publication being on the 2 day of Apr., 1999, and the subsequent consecutive publications on _____, 1999.

Bill Tafoya
Sworn and subscribed to before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this 20 day Apr. of 1999

PRICE 35.85

Statement to come at end of month.

ACCOUNT NUMBER C81024

3-31-2003
Annadette Ortiz
CL.A-22-A (R-1/93)

ORIGINAL is in THE mail

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Notice of Publication

~~and numbered~~ ~~xxxxxx~~

~~County of Lea~~
~~County of New Mexico~~ was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~once each week on the~~
~~same day of the week~~, for One (1) Day

~~consecutive weeks~~ beginning with the issue of April 7, 1999

and ending with the issue of April 7, 1999

And that the cost of publishing said notice is the sum of \$ 49.49

which sum has been (Paid) (~~Assessed~~) as Court Costs

Joyce Clemens
Subscribed and sworn to before me this _____

day of April 7, 1999

Robert Schilling
Notary Public, Lea County, New Mexico

My Commission Expires June 22, ~~20~~ 2002

laboratory results.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 1 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Drive, Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted.

Published in the Lovington Daily Leader April 7, 1999.

LEGAL NOTICE NOTICE OF PUBLICATION ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

EOTT Energy Pipeline Limited Partnership, Lennah Frost, Project Manager, Telephone (915) 684-3467, P.O. Box 1660, Midland, Texas 79702, has submitted a Stage 1 Abatement Plan Proposal for the Darr Angell Ranch site, located approximately 12.5 miles east of Lovington, New Mexico in the SW 1/4, SE 1/4 of Section 11, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico. EOTT Energy Pipeline Limited Partnership operates a crude oil pipeline at the site. Phase-separated hydrocarbon (PSH) has been observed on the ground water. The State 1 Abatement Plan Proposal presents the following subsurface investigation activities: determine site geology and hydrogeology; conduct a registered water well search within a 1 mile radius of the site; install a minimum of 2 monitoring wells; if necessary, install additional wells; collect soil samples for field screening and/or laboratory analysis from each boring; collect ground water samples for laboratory analysis from each monitoring well; obtain depth to ground water measurements and calculate the ground water gradient and direction; survey all well locations by a professional land surveyor registered in the State of New Mexico; and prepare a report summarizing field activities and



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

March 24, 1999

CERTIFIED MAIL

RETURN RECEIPT NO: Z-274-520-637

Ms. Lennah Frost
EOTT Energy Pipeline Limited Partnership
P.O. Box 1660
Midland, Texas 79702

**RE: STAGE 1 GROUND WATER ABATEMENT PLAN (AP-7)
DARR ANGEL RANCH**

Dear Ms. Frost:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Pipeline Limited Partnership's (EOTT) February 23, 1999 "DENTON GATHERING AREA LEAKSITE - DARR ANGEL RANCH, SEC 11, T-15-S, R-37-E, LEA COUNTY, NEW MEXICO". This document contains EOTT's Stage 1 Abatement Plan Proposal for investigating ground water contamination resulting from a crude oil spill at EOTT's Darr Angel Ranch leak site.

The OCD has determined that the Stage 1 Abatement Plan Proposal is administratively complete. Before the OCD can issue approval of the Stage 1 proposal, the OCD requires that:

1. EOTT issue by April 8, 1999 the attached public notice of the Stage 1 proposal in the Albuquerque Journal and the Lovington Daily Leader pursuant to OCD Rule 19.G.(2).
2. Prior to issuing the public notice, EOTT will also issue written notice of the Stage 1 proposal pursuant to OCD Rule 19.G.(1). For written notification of "those persons, as identified by the Director, who have requested notification" pursuant to OCD Rule 19.G.(1).(d), enclosed you will find a 3.5" disk containing a "WordPerfect" listing of those persons.

Please provide the OCD with proof of notice upon completing issuance of the written and public notice. If you have any questions, please contact Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

xc: Chris Williams, OCD Hobbs District Office

Z 274 520 637

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

EOTT Energy Pipeline Limited Partnership, Lennah Frost, Project Manager, Telephone (915) 684-3467, P.O. Box 1660, Midland, Texas 79702, has submitted a Stage 1 Abatement Plan Proposal for the Darr Angell Ranch site, located approximately 12.5 miles east of Lovington, New Mexico in the SW 1/4, SE 1/4 of Section 11, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico. EOTT Energy Pipeline Limited Partnership operates a crude oil pipeline at the site. Phase-separated hydrocarbon (PSH) has been observed on the ground water. The Stage 1 Abatement Plan Proposal presents the following subsurface investigation activities: determine site geology and hydrogeology; conduct a registered water well search within a 1 mile radius of the site; install a minimum of 2 monitoring wells; if necessary, install additional wells; collect soil samples for field screening and/or laboratory analysis from each boring; collect ground water samples for laboratory analysis from each monitoring well; obtain depth to ground water measurements and calculate the ground water gradient and direction; survey all well locations by a professional land surveyor registered in the State of New Mexico; and prepare a report summarizing field activities and laboratory results.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 1 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Drive, Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted.

EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660
5805 E. BUSINESS 20
MIDLAND, TEXAS 79702
(915) 687-2040

BY CERTIFIED MAIL

February 23, 1999

State of New Mexico
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attn: Roger Anderson

RECEIVED

FEB 25 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: DENTON GATHERING AREA
LEAKSITE - DARR ANGEL RANCH
Sec. 11, T-15-S, R-37-E
Lea County, New Mexico

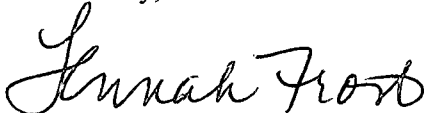
Dear Mr. Anderson:

This letter is in response to your letter dated January 26, 1999 requesting that EOTT submit a Stage 1 abatement plan. Attached is the abatement plan for the above captioned site.

EOTT plans to commence recovery efforts, as stated in my letter dated November 20, 1998, within the next two weeks. The recovery project will be under the direction of Enercon, Inc. out of Dallas, Texas instead of Philip Environmental as originally planned. The project will follow the plan as proposed by Philip and will utilize former Philip Environmental personnel. This should not interfere with other work which may need to be done at the site in conjunction with the Stage 1 investigation plan.

If you have any questions or need additional information, please don't hesitate to call me at 915/684-3467.

Sincerely,



Lennah Frost
Sr. Environmental Engineer

/ld
attachments



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

January 26, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-580

Ms. Lennah Frost
EOTT Energy Pipeline Limited Partnership
P.O. Box 1660
Midland, Texas 79702

**RE: NOTICE OF DEFICIENCY
DARR ANGEL RANCH LEAK SITE
ABATEMENT PLAN AP-7**

Dear Ms. Frost:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Pipeline Limited Partnership's (EOTT) November 20, 1998 "DENTON GATHERING AREA LEAKSITE - DARR ANGEL RANCH, SEC 11, T-15-S, R-37-E, LEA COUNTY, NEW MEXICO". This document contains EOTT's proposed abatement plan for ground water contamination resulting from a crude oil pipeline spill from EOTT's Denton Gathering Line on the Darr Angel Ranch.

The above referenced document is deficient because it does not contain a stage 1 investigation plan proposal as required by the OCD on August 26, 1998. The OCD requires that EOTT submit to the OCD by February 26, 1999 Stage 1 abatement plan investigation proposal pursuant to OCD Rule 19.E.1. and OCD Rule 19.E.3 (attached).

If you have any questions, please contact Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

xc: Chris Williams, OCD Hobbs District Office

Z 274 520 580

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660
5805 E. BUSINESS 20
MIDLAND, TEXAS 79702
(915) 687-2040

BY CERTIFIED MAIL

November 20, 1998

State of New Mexico
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attn: Roger Anderson

RE: DENTON GATHERING AREA
LEAKSITE - DARR ANGEL RANCH
Sec. 11, T-15-S, R-37-E
Lea County, New Mexico

Dear Mr. Anderson:

This letter is in response to your letter dated October 30, 1998 requesting that EOTT submit a Stage 1 abatement plan by November 30, 1998. The above captioned leak occurred on May 1, 1997. Approximately 25 barrels of crude oil was released. EOTT recovered 15 barrels of crude oil at the time of the leak. Excavation of the contaminated soil began immediately. During excavation and replacement of the pipeline, hydrocarbon impacted soils were noted in the vicinity of the pipeline release. The soils were excavated to a depth of approximately sixteen feet below ground surface (BGS) before being backfilled. From May 7, 1997 through May 28, 1998, approximately 1650 cubic yards of contaminated rock and soil were excavated and disposed of at Rhino Environmental Services Landfarm near Lovington, New Mexico. This is an OCD approved landfarm.

At the request of the New Mexico Oil Conservation Division, EOTT installed one monitor well at the initial source of the release. Approximately 10 feet of Light Non-aqueous Phase Liquids (LNAPL) was detected in this well. In order to characterize the LNAPL impacts to the groundwater, an additional eight monitor wells were installed (Figure 1). Seven of the nine wells (MW-1, MW-2, MW-3, MW-5, MW-6, MW-8, MW-9) are impacted with LNAPL. Two additional wells, upgradient well MW-4, and down gradient well MW-7, were both non-detect. Groundwater occurs at a depth of approximately 55 feet bgs with groundwater gradient direction to the southeast.

EOTT proposes the following abatement plan:

Philip Services Corp. Will install a product recovery system in six (MW-1, MW-2, MW-5, MW-6, MW-8, and MW-9) of the nine existing monitor wells (Figure 1). The product recovery system will consist of six product only skimmer units (upgradeable to a total fluids recovery system), a compressor, and associated hose to pump the product to a 5000 gallon tank. The tank will be equipped with a shut-off valve to prevent the possibility of tank overfill. The recovered LNAPL will be transported to and re-injected into EOTT's pipeline at our Denton Station, approximately 1 mile southeast of the leaksite. The wells will be pumped until no product remains on the groundwater.

If you have any questions or need additional information, please don't hesitate to call me at 915/697-2040 ext. 34.

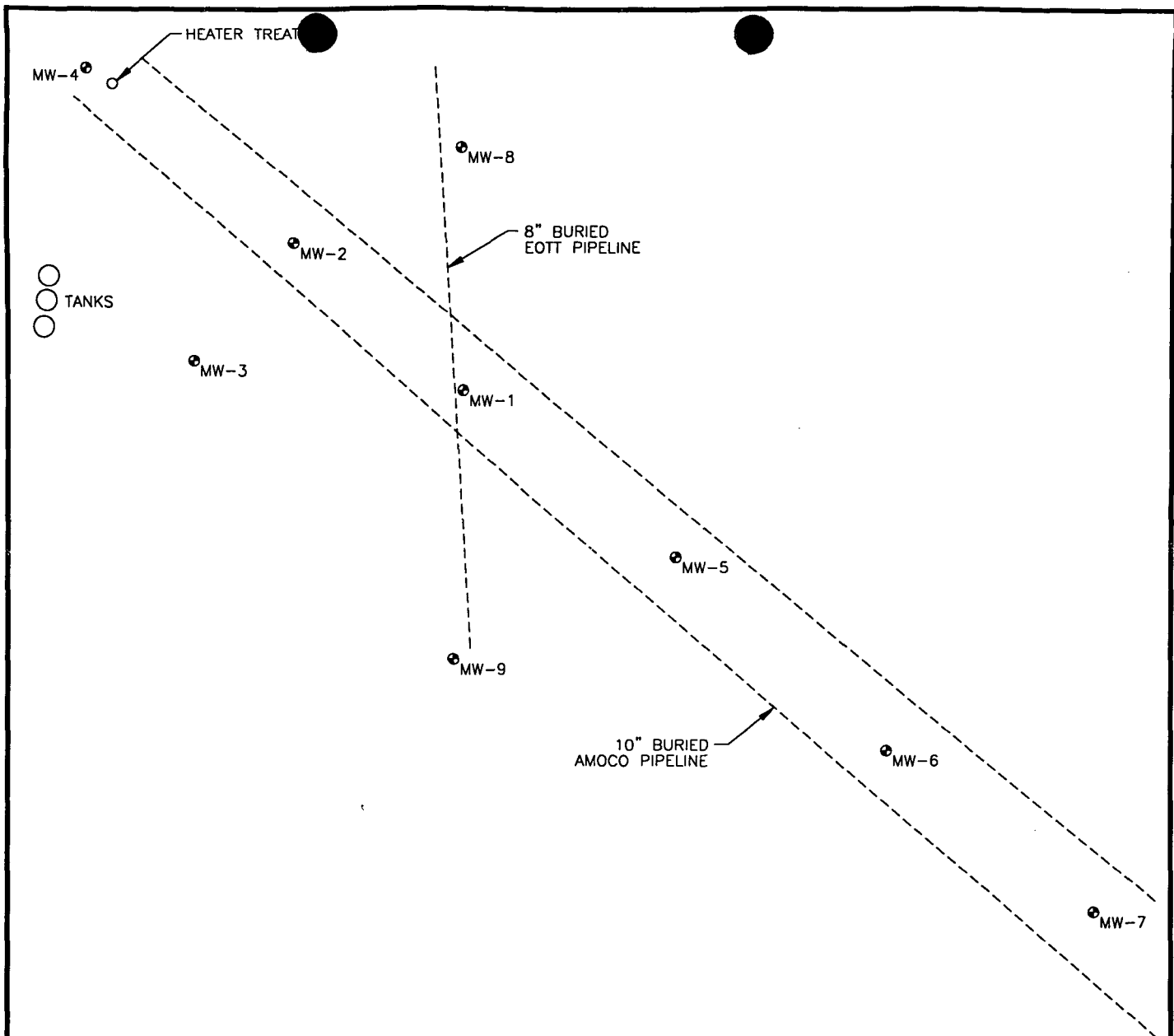
Sincerely,



Lennah Frost
Sr. Environmental Engineer

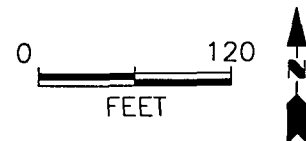
/ld
attachments

cc: Al Hugh - Environmental File
John Millar
Bobby Garduno



LEGEND

● MW-1 APPROXIMATE MONITORING WELL LOCATION AND NUMBER



COL. 18861A-001



TITLE:
MONITORING WELL LOCATION MAP
LOVINGTON, NEW MEXICO

DWN: TMM	DES.: JK
CHKD:	APPD:
DATE: 11/19/98	REV.: 0

PROJECT NO.: 18861
EOTT ENERGY CORP.
LOVINGTON, NM.

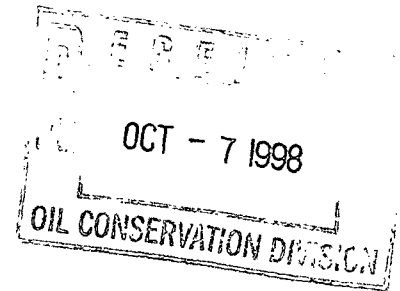
FIGURE 1

EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660
5805 E. BUSINESS 20
MIDLAND, TEXAS 79702
(915) 687-2040

October 2, 1998

State of New Mexico
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attn: Roger Anderson



RE: DENTON GATHERING AREA
LEAKSITE - DARR ANGEL RANCH
Sec. 11, T-15-S, R-37-E
Lea County, New Mexico

Dear Mr. Anderson:

This letter is in response to your letter dated August 26, 1998 requesting that EOTT submit a Stage 1 abatement plan by October 23, 1998. We have recently installed 3 additional monitor wells at the site. The upgradient well shows no free phase product on the water table. However, the two down gradient wells installed 200 feet and 400 feet, respectively, from the original monitor well indicate that we have not determined delineation of the spill. We will be installing additional wells next week to determined down gradient contamination.

At this time EOTT requests an extension to the October 23, 1998 date based upon incomplete information from the site. A plan will be submitted as soon as all information has been compiled and EOTT has formulated our abatement plan for the site.

If you have any questions or need additional information, please don't hesitate to call me at 915/687-2040 ext. 34.

Sincerely,

A handwritten signature in cursive script that reads "Lennah Frost".

Lennah Frost
Sr. Environmental Engineer

/ld
attachments

cc: Al Hugh - Environmental File
John Millar
Bobby Garduno



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

August 26, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-235-437-323

Ms. Lennah Frost
EOTT Energy Pipeline Limited Partnership
P.O. Box 1660
Midland, Texas 79702

**RE: DARR ANGEL RANCH LEAK SITE
ABATEMENT PLAN AP-7**

Dear Ms. Frost:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Pipeline Limited Partnership's (EOTT) May 28, 1998 "DENTON GATHERING AREA LEAKSITE - DARR ANGEL RANCH, SEC 11, T-15-S, R-37-E, LEA COUNTY, NEW MEXICO". This document contains EOTT's notification of ground water contamination resulting from a crude oil pipeline spill from EOTT's Denton Gathering Line on the Darr Angel Ranch.

Pursuant to 19 NMAC 15.A.19.C.1, the OCD requires an abatement plan for the Darr Angel site to abate ground water pollution. To initiate the abatement plan process, the OCD requires that EOTT submit to the OCD by October 23, 1998 a Stage 1 abatement plan investigation proposal pursuant to OCD Rule 19.E.1. and OCD Rule 19.E.3.

If you have any questions, please contact Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

xc: Wayne Price, OCD Hobbs District Office

Z 235 437 323

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Price, Wayne

From: Price, Wayne
Sent: Tuesday, July 14, 1998 3:02 PM
To: Bill Olson
Cc: Chris Williams; Roger Anderson
Subject: Eott Drilling Denton Field Sec 11-Ts 15s- R37e

RECEIVED

JUL 16 1998

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Dear Bill:

Please find enclosed a copy of my field report scanned in for you.

Note that the original MW-1 had 6 ft of PSH on the day they drilled it May 18, 1998. It now has 10 ft of product. EOTT drilled two up-Gradient wells and both had signs of PSH, however it appears considerably less than MW-1. However they have not been properly developed yet so that will let us know the actual levels of oil.

From my initial observation it appears that the Pipeline is the source and the large 10 ft. mounding on top of the water table has caused an elongation of the plume in the up-gradient direction.

EOTT is going to continue it's fingerprinting and try to determine if this is the same oil.


page1.JPG

NOTE: THIS SITE IS
 $\approx \frac{1}{2} \text{ to } \frac{3}{4}$ mile - UP-GRADIENT
TO THE SHELL-DENTON!

CC: B OLSON
Felt file
C. Williams

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER
				HOURS

Name WAYNE PRICE Date 7/9/98 Miles _____ District I
Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature W Price

Felt P.L. DENTON FIELD SEC 11 - T15S - R37E

WITNESSED DRILLING OF TWO UP-GRADIENT WELLS

MW-2 + MW-3 - WATER AT X 50-50' DEEP BOTH

WELLS SHOW SIGNS OF PSH ON DRILLING TOOLS + BAILER

VAROSE CLEAN ON BOTH WELLS UNTIL CAPILLARY

FRINGE WAS ENCOUNTERED!

COMPLETED MW 2+3 AS MONITOR WELLS TO TD

MW-1 X 10' PSH

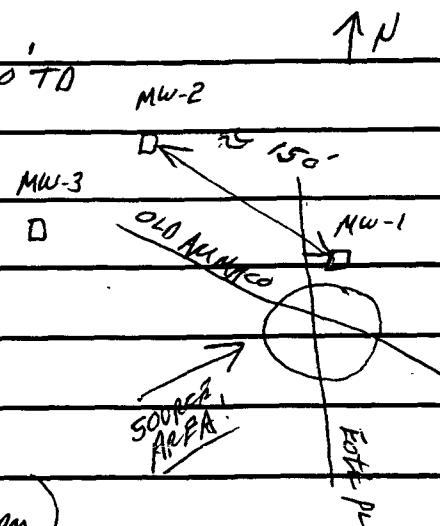
MW-2 + MW-3 (NO PSH)

0-18' 2H CALICHE (CLEAN)

18-40' BROWN SAND NO ODR
PID < 5PPM

45' WET SAND STRONG OIL ODR PID X 199 PPM

50-55' WATER ONLY SHEEN
NO VISUAL CONTAMINATION



Mileage

UIC _____

RFA _____

Other _____

Per Diem

UIC _____

RFA _____

Other _____

Hours

UIC _____

RFA _____

Other _____

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
R = Inspections relating to Reclamation Fund Activity
O = Other - Inspections not related to injection or The Reclamation Fund
E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or location
M = Meeting
O = Other

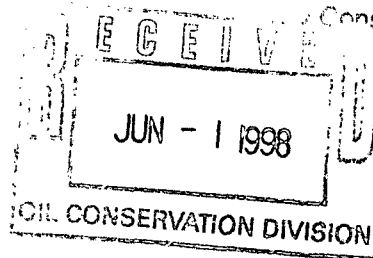
EOTT ENERGY Pipeline Limited Partnership

JUN 01 1998

P.O. BOX 1660
5805 E. BUSINESS 20
MIDLAND, TEXAS 79702
(915) 687-2040

May 28, 1998

State of New Mexico
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505
Attn: Bill Olson



RE: DENTON GATHERING AREA
LEAKSITE - DARR ANGEL RANCH
Sec. 11, T-15-S, R-37-E
Lea County, New Mexico

Dear Mr. Olson:

On Monday, May 18, 1998 EOTT ENERGY Pipeline installed a monitor well at the above captioned leaksite. Ground water was encountered at 56.44'. On Tuesday, May 19, Jeff Kindley with Philip Environmental Services developed the well. Approximately 6.83' of free phase product was measured on the water table. A sample of this product was taken to Environmental Labs for testing.

At this time, EOTT plans to install an additional monitor well upgradient of the leaksite to determine if the groundwater contamination is from the leak or possibly from another source. All future findings will be submitted to you and to Wayne Price in Hobbs.

If you have any questions or need additional information, please don't hesitate to call me at 915/687-2040 ext. 34.

Sincerely,

Lennah Frost
Sr. Environmental Engineer

/ld
attachments

cc: Wayne Price - NMOCD - Hobbs
Al Hugh - Environmental File
John Millar
Bobby Garduno

Olson, William

From: Price, Wayne
Sent: Thursday, May 21, 1998 7:26 AM
To: Bill Olson
Subject: FW: EOTT Shell-Denton Lease Line

The name & location of this site is:

Denton Gathering Area
Leak Site-Darr Angle Ranch
Sec 11-Ts15s-R37e

From: Price, Wayne
Sent: Wednesday, May 20, 1998 3:56 PM
To: Roger Anderson; Bill Olson
Cc: Chris Williams
Subject: EOTT Shell-Denton Lease Line

Eott notified our office yesterday of Groundwater Contamination. They will submit notification to you in writing. MW revealed three feet of crude oil PSH on water table. Jack Griffin -NMOCD witnessed drilling.

Olson, William

From: Price, Wayne
Sent: Wednesday, May 20, 1998 3:56 PM
To: Roger Anderson; Bill Olson
Cc: Chris Williams
Subject: EOTT Shell-Denton Lease Line

Eott notified our office yesterday of Groundwater Contamination. They will submit notification to you in writing. MW revealed three feet of crude oil PSH on water table. Jack Griffin -NMOCD witnessed drilling.

For	Urgent		
Date	5/20	Time	11:49
While You Were Out			
M	Lennah Frost		
Of	EOTT		
Phone	956	872	0403
	AREA CODE	NUMBER	EXTENSION
Telephoned	<input type="checkbox"/>	Please Call	<input type="checkbox"/>
Came To See You	<input type="checkbox"/>	Will Call Again	<input type="checkbox"/>
Returned Your Call	<input type="checkbox"/>	Wants To See You	<input type="checkbox"/>
Message notice of GW contamination			
GW, monitor well			
to protect			
Signed _____			

9711

ADAMS BUSINESS FORM