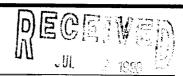
MARRON #31 Meter/Line ID - 71615



476

SITE DETAILS

Legals - Twn: 27

**NMOCD Hazard Ranking: 40** 

Rng: 08

Sec: 22

Unit: L

Land Type: 4 - Fee

Operator: M&G DRILLING COMPANY, INC

Pit Closure Date: 08/01/94

#### RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will
  naturally degrade in time with minimal risk to the environment.

## FIELD PIT SITE ASSESSMENT FORM

CENERAI	Meter: 71615 Location: Marron No. 3]  Operator #: 7335 Operator Name: R+6 Drilling P/L District: Ballar/  Coordinates: Letter: L Section 22 Township: 27 Range: 8  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 6/11/94 Area: 07 Run: 32									
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  Greater Than 100 Ft (0 points)  Wellhead Protection Area:  Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; is it less than 200 ft from a private domestic water source?  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  (1)  200 Ft to 1000 Ft (10 points)  (2)  Greater Than 1000 Ft (0 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (0 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (0 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (10 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (10 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (10 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (10 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (10 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (10 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (10 points)  (4)  Coreater Than 1000 Ft (10 points)  (5)  Coreater Than 1000 Ft (10 points)  (6)  Coreater Than 1000 Ft (10 points)  (1)  Coreater Than 1000 Ft (10 points)  (2)  Coreater Than 1000 Ft (10 points)  (3)  Name of Surface Water Body  Coreater Than 1000 Ft (10 points)  (4)  Coreater Than 1000 Ft (10 points)  (5)  Coreater Than 1000 Ft (10 points)  (6)  Coreater Than 1000 Ft (10 points)  (7)  Coreater Than 1000 Ft (10 points)  (8)  Coreater Than 1000 Ft (10 points)  (9)  Coreater Than 1000 Ft (10 points)  (1)									
REMARKS	Remarks: Redline Book-Inside, Vulnecoble Acea Topo - Inside									
RI	D164HAUL (SP3190) 04/08/94									

	ORIGINAL PIT LOCATION  Original Pit : a) Degrees from North 135° Footage from Wellhead 359'
	b) Length : <u>\9'</u> Width : <u> 7'</u> Depth : <u>2'</u>
ORIGINAL PIT LOCATION	Wellhand 1350
	Remarks:  Pictures (21325 (12-16)  Dump Truck
S	
MARKS	
REMA	
,	
	Completed By:
	Cong Change 15/11/94
	Signature Date

# PHASE I EXCAVATION

### FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 71615 Location: Marron #31  Coordinates: Letter: L Section 22 Township: 27 Range: 8  Or Latitude Longitude Longitude Date Started: 8/1/94 Run: 07 32
FIELD OBSERVATIONS	Sample Number(s): KD 175 KD 176 KD 177  Sample Depth: Feet  Final PID Reading PID Reading Depth Feet  Yes No  Groundwater Encountered
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:
	Envirotech
REMARKS	Remarks: Excavated pit to 12', Took pio Sample, Closed pit.
	Signature of Specialist:



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 175	945797
MTR CODE   SITE NAME:	71415	N/A
SAMPLE DATE   TIME (Hrs):	8-1-94	1215
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	8-2-94	8.2.94
DATE OF BTEX EXT.   ANAL.:	8/4/94	2/6/94
TYPE   DESCRIPTION:	V L	Brown Gren Sand C
REMARKS:		

#### **RESULTS**

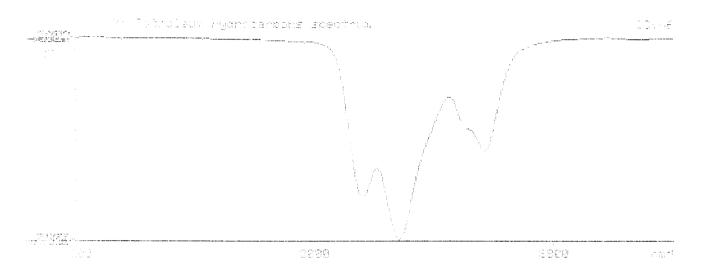
PARAMETER	RESULT UNITS		QUALIFIERS				
			DF	Q	M(g)	V(ml)	
BENZENE	10.25	MG/KG	10				
TOLUENE	1 0.25	MG/KG	10				
ETHYL BENZENE	40.25	MG/KG	10				
TOTAL XYLENES	78	MG/KG	10				
TOTAL BTEX	79	MG/KG					
TPH (418.1)	1850	MG/KG			2.12	28	
HEADSPACE PID	345	PPM			t.		
PERCENT SOLIDS	91.5	%			<u> </u>		

The Surrogate Recovery we at 26 TH who of for this sample All QA/QC was acceptable.

Narrative:

| Sample | All QA/QC was acceptable.
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ATI I.D. 408313

August 12, 1994

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/03/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

8015 analysis was added on 08/08/94 for sample 945789 per John Lambdin.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.

Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager

Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141



#### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 408313

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

****						
SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945797	NON-AQ	08/01/94	08/04/94	08/06/94	10
11	945798	NON-AQ	08/01/94	08/04/94	08/06/94	10
12	945799	NON-AQ	08/01/94	08/04/94	08/06/94	1
PARAME	TER		UNITS	10	11	12
BENZEN	E		MG/KG	<0.25	<0.25	<0.025
TOLUEN	E		MG/KG		<0.25	<0.025
ETHYLB	ENZENE		MG/KG	<0.25	<0.25	<0.025
TOTAL XYLENES			MG/KG		80	<0.025
SURROG	ATE:					
BROMOF	LUOROBENZENE (%)			265*	250*	92

<sup>\*</sup>OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

## PHASE II

#### RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Project Name Project Number Project Location 14509

EPNG PITS

marran #31

Weil #

Phase

Page

6000.77

Elevation Borehole Location Lottor L-522-T27-RS

GWL Depth

Logged By Drilled By

Date/Time Started Date/Time Completed

Well Logged By Personnel On-Site Contractors On-Site m Annohuce, D Champy, m. To.

Client Personnel On-Site

Air Monitoring Method

				/300						
Depth	Sample	Sample	Sample	Compute Description	uscs	Depth				
(Feet)	Number	Interval	Type & Recovery	Sample Description Classification System: USCS	Symbol	Lithology		ir Monito Juits: 出		Drilling Conditions
(1 661)	Number	interval	(inches)	Classification System: USCS	Symbol	Change (feet)	BZ	שבע, :BH	جرار	& Blow Counts
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Comments:

Sampled from 38-391

**Geologist Signature** 

7/11/95\DRILLOG.XLS

#### FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

#### SAMPLE IDENTIFICATION

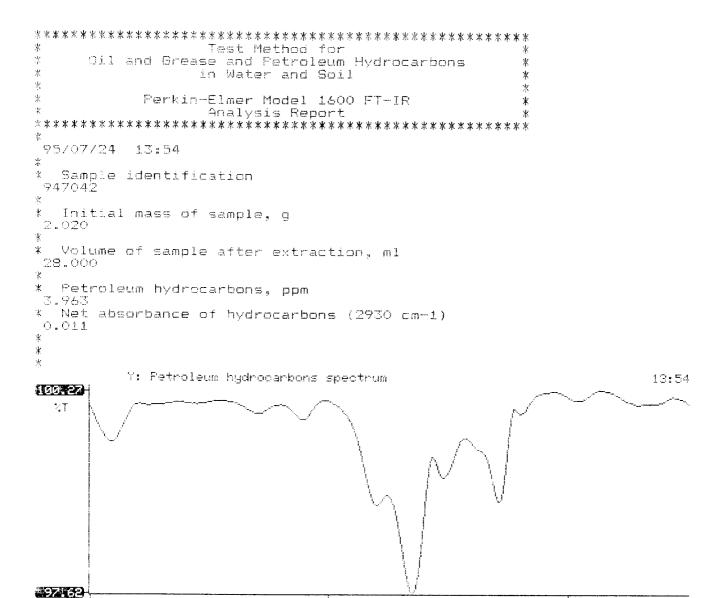
_	Field ID	Lab ID
SAMPLE NUMBER:	JFL 17	947042
MTR CODE   SITE NAME:	71615	N/A
SAMPLE DATE   TIME (Hrs):	07-20-95	11:52
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	7.24-95	7-24-95
DATE OF BTEX EXT.   ANAL.:	7-26-95	7-27-95
TYPE   DESCRIPTION:	VG	Brown course sand

#### **RESULTS**

PARAMETER	RESULT	RESULT UNITS		QUALIFIERS			
		THERE IS NOT THE	DF	Q	M(g)	V(ml)	
BENZENE	40.025	MG/KG					
TOLUENE	20.025	MG/KG	1				
ETHYL BENZENE	40.025	MG/KG	1				
TOTAL XYLENES	40.025	MG/KG	1				
TOTAL BTEX	20.10	MG/KG		-			
<b>TPH (418.1</b> )	4/0 H 120/95	MG/KG			2.02	28	
HEADSPACE PID	1125/2012/5	PPM			ude of the control of		
PERCENT SOLIDS	99.7	%					

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --The Surrogate Recovery was at 104 % for this sample All QA/QC was acceptable. Narrative: DF = Dilution Factor Used

Approved By:



 $\odot m^{-1}$ 



ATI I.D. 507403

August 3, 1995

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE/PHASE II DRILLING 24324

Attention: John Lambdin

On 07/26/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Surveill

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

H. Mitchell Rupenstein, Ph.D. Laboratory Manager



Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141



#### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 507403

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE II DRILLING

SAMPI	LE		DATE	DATE	DATE	DIL.
ID. #	# CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	947041	NON-AQ	07/20/95	07/26/95	07/27/95	1
02	947042	NON-AQ	07/20/95	07/26/95	07/27/95	1
03	947043	NON-AQ	07/20/95	07/26/95	07/27, 25	1
PARAN	METER		UNITS	01	02	03
BENZI	ENE	-	MG/KG	<0.025	<0.025	<0.025
TOLUE	ENE		MG/KG	<0.025	<0.025	<0.025
ETHYI	LBENZENE		MG/KG	0.051	<0.025	<0.025
TOTAL	L XYLENES		MG/KG	0.32	<0.025	0.025
SURRO	DGATE:					
BROMO	OFLUOROBENZENE (%)			87	104	96