EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 2 1 1993

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

BUNCE #2
Meter/Line ID - 92515

SITE DETAILS

Legals - Twn: 29 **Rng:** 10 **Sec:** 19 **Unit:** A
NMOCD Hazard Ranking: 10 **Land Type:** 4 - Fee
Operator: MERIDIAN OIL INC **Pit Closure Date: 04/28/94**

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

GENERAL

Meter: 92515 Location: BUNCE #2

Operator #: 1987 Operator Name: MERIDIAN P/L District: BLOOMFIELD

Coordinates: Letter: A Section 19 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____

Site Visit Date: 4·13·94 Run: 10 81

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside Vulnerable Zone ☒
Outside ☐

Land Type:
BLM ☐
State ☐
Fee ☒
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☐
50 Ft to 99 Ft (10 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? ☐ YES (20 points) ☒ NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) ☐
200 Ft to 1000 Ft (10 points) ☒
Greater Than 1000 Ft (0 points) ☐
Name of Surface Water Body IRRIGATION DITCH
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 10 **POINTS**

REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS UP ON TOP OF A HILL.

ORIGINAL PIT LOCATION

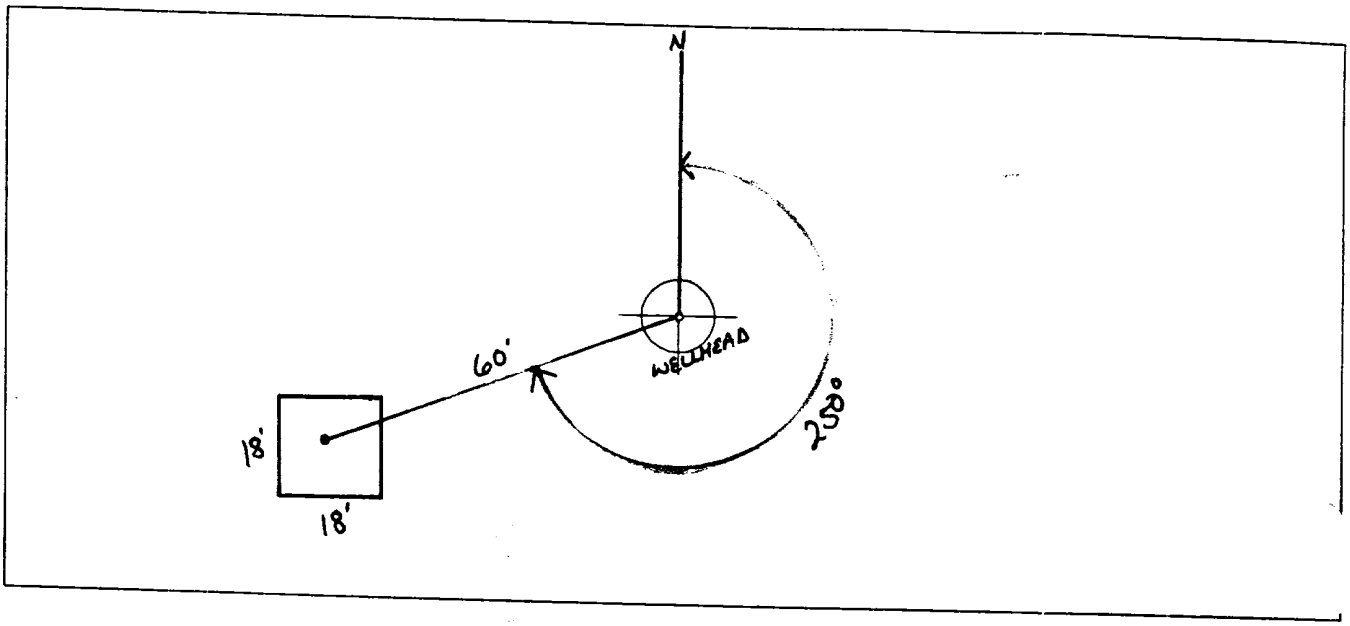
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 250° Footage to Wellhead 60'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 18' Width : 18' Depth : 4'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 10:49 A.M.
END DUMP

Completed By:

Signature

4.13.94
Date

PHASE I
EXCAVATION

FIELD [illegible] REMEDIATION/CLOSURE [illegible]ORM

GENERAL

Meter: 92515 Location: Bunce #2

Coordinates: Letter: A Section 19 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Date Started : 4-28-94 Area: 10 Run: 81

FIELD OBSERVATIONS

Sample Number(s): 945037 AP 6 _____ _____ _____

Sample Depth: 10 Feet

Final PID Reading 92 ppm PID Reading Depth 10 Feet

	Yes	No	
Groundwater Encountered	☐ (1)	☒ (2)	Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 60
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

Envirotech	☐ (1)	☒ (3) Tierra
Other Facility	☐ (2)	Name: _____

Pit Closure Date: 4-28-94 Pit Closed By: BEI

REMARKS

Remarks : Started Remediating pit, Remediated to 8' hit Bentonite layer took grab sample, it was 476 ppm at 70° went to 10' hit clean sand took VC sample PID Read 92 ppm at 70° closed pit pit measured 14X15X10

Signature of Specialist: James F Townsend

(SP3191) 04/07/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JPL	945037
MTR CODE | SITE NAME:	92515	N/A
SAMPLE DATE | TIME (Hrs):	4/28/94	1645
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-2-94	5-2-94
DATE OF BTEX EXT. | ANAL.:	5/5/94	5/6/94
TYPE | DESCRIPTION:	VC	Fine Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG				
TOLUENE	0.039	MG/KG				
ETHYL BENZENE	<0.025	MG/KG				
TOTAL XYLENES	0.063	MG/KG				
TOTAL BTEX	0.152	MG/KG				
TPH (418.1)	3250	MG/KG			2.13	28
HEADSPACE PID	92	PPM				
PERCENT SOLIDS	94.1	%				

– TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 99 % for this sample All QA/QC was acceptable.

Narrative: ATI Results attached.

DF = Dilution Factor Used

Approved By: John Lardi Date: 5/21/94

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**************************************************
*                    Test Method for             *
*      Oil and Grease and Petroleum Hydrocarbons  *
*                  in Water and Soil             *
*                                                *
*            Perkin-Elmer Model 1600 FT-IR       *
*                  Analysis Report               *
**************************************************
*
 94/05/02  12:31
*
*  Sample identification
 945037
*
*  Initial mass of sample, g
 2.130
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 3251.130
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.434
*
*
*
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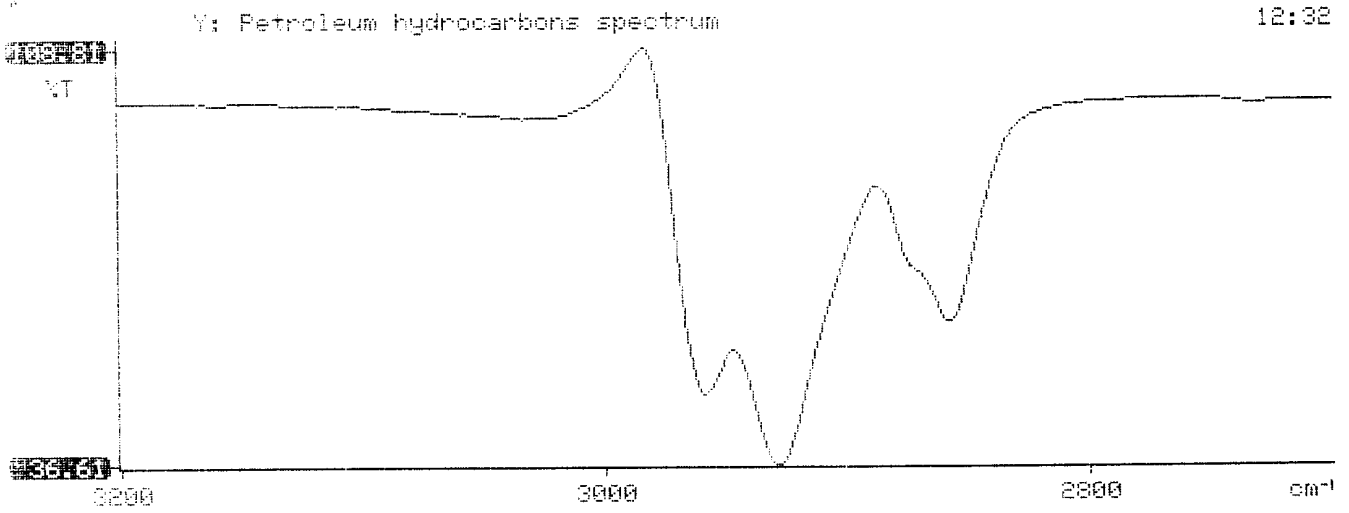

Analytical **Technologies,** Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **405313**

May 13, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/03/94**, 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.

EPA Method 8015 analysis was added on 05/05/94 for sample 945008 per Stacy Sendler.

The matrix spike/spike duplicate data from the samples extracted on 05/05/94 is reported twice reflecting quantification using both the internal standard and external standard protocols. Both protocols were employed to quantify the samples submitted for this project.

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

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405313

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
25	945037	NON-AQ	04/28/94	05/05/94	05/06/94	1
26	945038	NON-AQ	04/28/94	05/05/94	05/06/94	20
27	945039	NON-AQ	04/28/94	05/05/94	05/05/94	20

PARAMETER	UNITS	25	26	27
BENZENE	MG/KG	<0.025	6.9	11
TOLUENE	MG/KG	0.039	130	160
ETHYLBENZENE	MG/KG	<0.025	41	37
TOTAL XYLENES	MG/KG	0.063	460	380
METHYL-t-BUTYL ETHER	MG/KG	<0.12	<2.4	<2.4
SURROGATE:				
BROMOFLUOROBENZENE (%)		99	281*	163*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
Project Number 14509 Phase 6000 / 77
Project Location Bunce #2 92515

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By ~~M DONOHUE~~ K. Padilla
Date/Time Started 6/9/95 - 0755
Date/Time Completed 6/9/95 - 0858

Well Logged By CM Chance
Personnel On-Site K. Padilla, F. Rivera, D. Tsosie
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ	BH	S HS	Drilling Conditions & Blow Counts
0				Backfill to 10'						
5										
10				Cobbles						-Cobbles @ 10' -Refusal @ 11'
				TOB 11'						
15	T	15"								
20										
25										
30										
35										
40										

Comments: Refusal @ 11' - Will move 3' from boring & re drill. BH grouted to surface

Geologist Signature

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH2
Well #
Page 1 of 1

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
Project Number 14509 Phase 6000 / 77
Project Location Bunce #2 92515

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By ~~M DONOHUE~~ K. Padilla
Date/Time Started 6/9/95 - 0835
Date/Time Completed 6/9/95 - 0945

Well Logged By CM Chance
Personnel On-Site K. Padilla, F. Rivera, D. Tsalax
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ	BH	S HS	Drilling Conditions & Blow Counts
0				Backfill to 10'						
10	1	10-12	3"	Br silty SAND, vf-f sand, mod med sand, sl moist			0	0	0	0842hr
	2	13-15	8"	Br sandy CLAY, vf sand, soft-med stiff, sl moist			0	0	0	0851
15				1+ br silty SAND, vf sand, loose, sl moist						
				TOB 15'						
20										
25										
30										
35										
40										

Comments: BH is 3' N. of BH-1. Took 2nd sample to ensure not in fill. 13-15' sample (CMC47) sent to lab (BTEX, TPH). BH grouted to surface.

Geologist Signature

El Paso Natural Gas Company

Phase II

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 47	946889
MTR CODE | SITE NAME:	92515	N/A
SAMPLE DATE | TIME (Hrs):	6-9-95	0851
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-13-95	6-13-95
DATE OF BTEX EXT. | ANAL.:	6-14-95	6-15-95
TYPE | DESCRIPTION:	VG	Brown clay and fine sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	<0.025	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	25.0	MG/KG			1.99	25
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	81.3	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 91 % for this sample All QA/QC was acceptable.

Narrative:

ATL results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 6/28/95

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**********************************************************
*                    Test Method for                     *
*      Oil and Grease and Petroleum Hydrocarbons         *
*                    in Water and Soil                   *
*                                                        *
*             Perkin-Elmer Model 1600 FT-IR              *
*                    Analysis Report                     *
**********************************************************
*
 95/06/13  10:41
*
*  Sample identification
 946889
*
*  Initial mass of sample, g
 1.990
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 25.038
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.013
*
*
*
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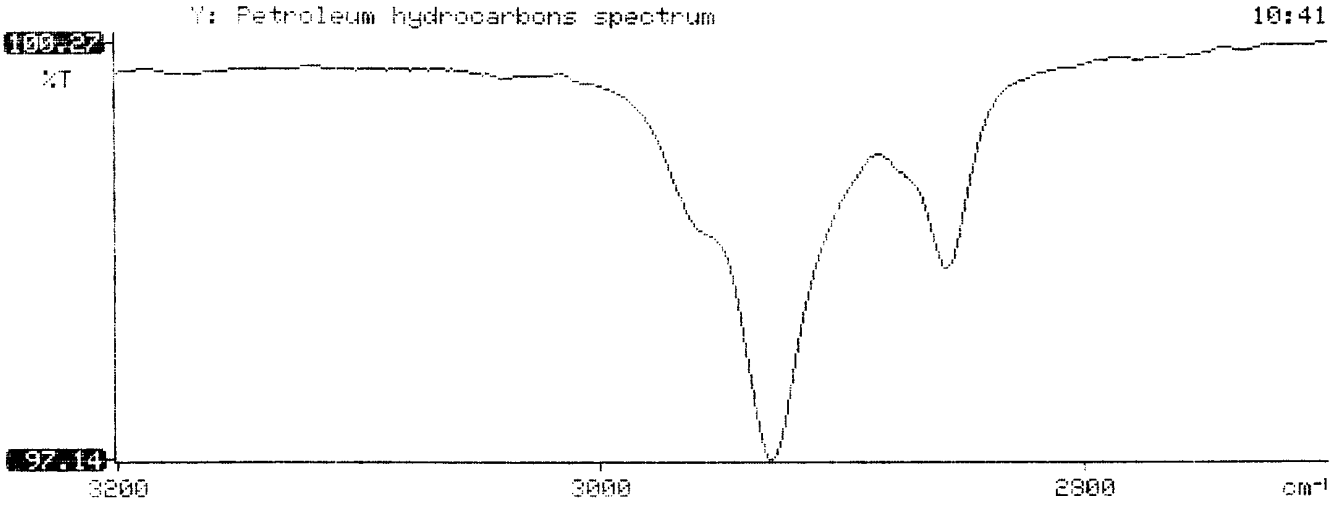

Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **506363**

June 19, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

JUN 1995
Lab
Farmington