EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 24 1998

Approved

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

FEUILLE A #5
Meter/Line ID - 73503

SITE DETAILS

Legals - Twn: 29 **Rng:** 10 **Sec:** 04 **Unit:** J
NMOCD Hazard Ranking: 10 **Land Type:** 2 - Federal
Operator: MERIDIAN OIL INC **Pit Closure Date:** 05/13/94

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.

J:\18954\rbc

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73503 Location: FEUILLE A #5
Operator #: 2999 Operator Name: MERIDIAN P/L District: BLOOMFIELD
Coordinates: Letter: J Section 4 Township: 29 Range: 10
Or Latitude _____ Longitude _____
Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: _____
Site Assessment Date: 5·2·94 Area: 10 Run: 73

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☒ (1)
State ☐ (2)
Fee ☐ (3)
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☐ (1)
50 Ft to 99 Ft (10 points) ☒ (2)
Greater Than 100 Ft (0 points) ☐ (3)

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? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

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 _____
(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds)
Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 10 **POINTS**

REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE THE V.Z.

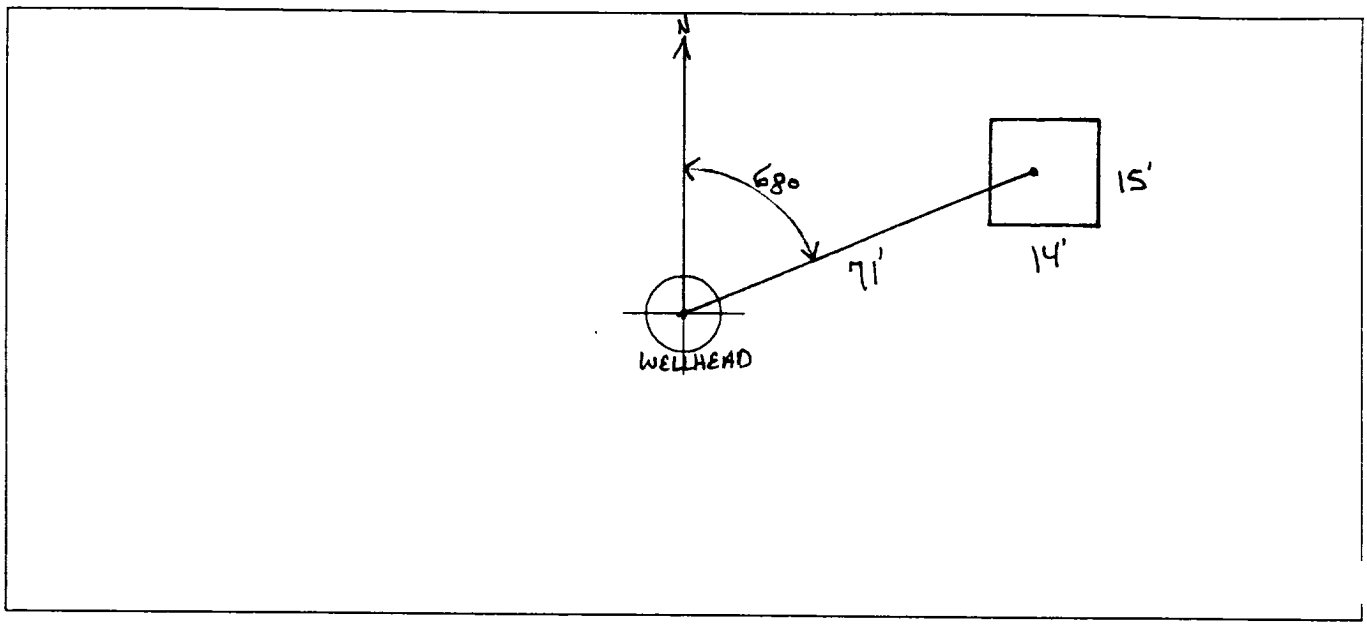
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 68° Footage from Wellhead 71'

b) Length : 15' Width : 14' Depth : 1'



REMARKS

Remarks :

TOOK PICTURES AT 3:02 P.M.

END DUMP

Completed By:

Robert Thompson
Signature

5.29.11
Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 73503 Location: Feuille A #5

Coordinates: Letter: J Section 4 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Date Started : 5-13-94 Area: 10 Run: 73

OBSERVATIONS

Sample Number(s): KD60 _____ _____ _____

Sample Depth: 5' Feet

Final PID Reading 491 ppm PID Reading Depth 5' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 20

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 5-13-94 Pit Closed By: BEI

REMARKS

Remarks : Excavated Pit to 5', Hit Sandstone, Stopped Excavation Took PID Sample, Closed Pit

Signature of Specialist: Kelly Deaver

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD60	945172
MTR CODE | SITE NAME:	73503	N/A
SAMPLE DATE | TIME (Hrs):	5-13-94	1510
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-17-94	5|17|94
DATE OF BTEX EXT. | ANAL.:	5|19|94	5|21|94
TYPE | DESCRIPTION:	VC	Grey Course Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	2.9	MG/KG	50			
TOLUENE	110	MG/KG	50			
ETHYL BENZENE	22	MG/KG	50			
TOTAL XYLENES	340	MG/KG	50			
TOTAL BTEX	475	MG/KG				
TPH (418.1)	2470	MG/KG			2.66	28
HEADSPACE PID	491	PPM				
PERCENT SOLIDS	90.3	%				

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

The Surrogate Recovery was at 120 % for this sample All QA/QC was acceptable.

Narrative:
ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interference

DF = Dilution Factor Used

Approved By: John Keith Date: 7/14/94

Test Method for

Oil and Grease and Petroleum Hydrocarbons

in Water and Soil

Perkin-Elmer Model 1600 FT-IR

Analysis Report

94/05/17 12:56

Sample identification

745172

Initial mass of sample, g

1.060

Volume of sample after extraction, ml

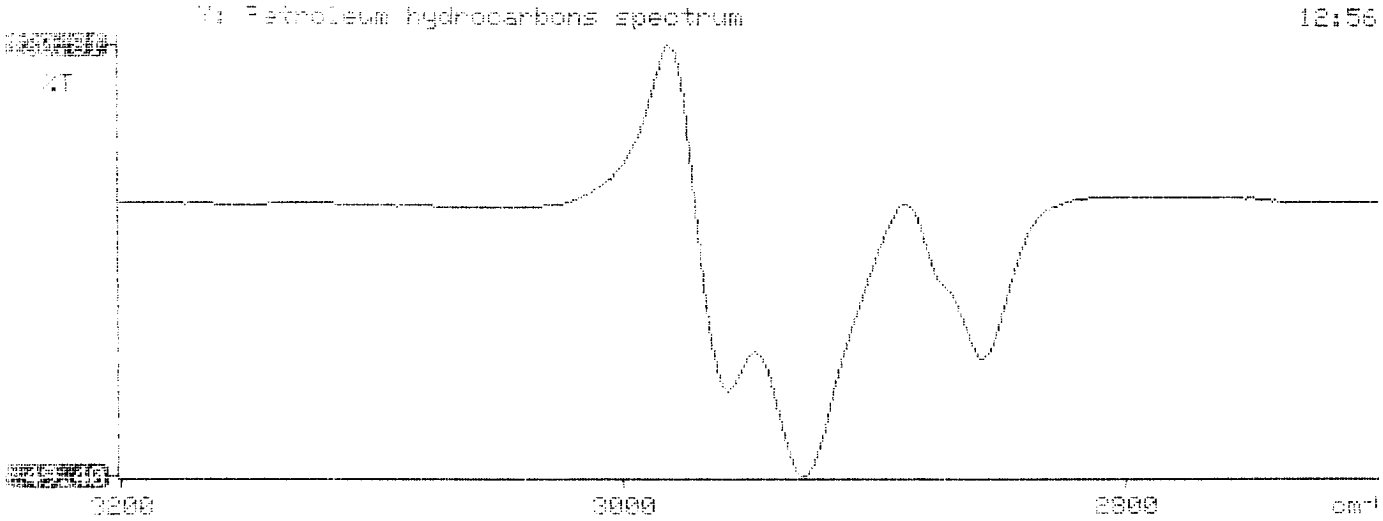
28.000

Petroleum hydrocarbons, ppm

2471.883

Net absorbance of hydrocarbons (2930 cm-1)

0.310



Analytical Technologies, Inc.

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

ATI I.D. **405378**

June 2, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/18/94**, 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.

Client samples 945004 and 945007 were submitted to Analytical Technologies' Albuquerque laboratory past the recommended EPA holding time. NOTED 6/6/94

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

JUN 1994

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405378

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	945172	NON-AQ	05/13/94	05/19/94	05/21/94	50
14	945173	NON-AQ	05/13/94	05/19/94	05/21/94	5
15	945174	NON-AQ	05/13/94	05/19/94	05/21/94	50

PARAMETER	UNITS	13	14	15
BENZENE	MG/KG	2.9	<0.12	<1.2
TOLUENE	MG/KG	110	<0.12	2.5
ETHYLBENZENE	MG/KG	22	0.29	10
TOTAL XYLENES	MG/KG	340	10	240
SURROGATE:				
BROMOFLUOROBENZENE (%)		120*	114	102

*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 Fewille #5 72503

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 6/21/95-1145
Date/Time Completed 6/21/95-1245

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, D. Tsalay
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 5'						
5	1	5-7	6"	lt grey silty SAND, vf sand, dense, sl moist, strong odor			0	20	441/280	-1252
10	2	10-11.5	6"	lt Br SAND, vf-f sand, tr med sand, dense, dry, odor			12	80	616/864	-1200
15	3	15-16	6"	lt Grey Sandstone, vf-f sand, sl cemented, odor			3	18	19/69	-1213
	4	17-17.1	0"	No Recovery						-Refusal @ 17'
				TOB 17'			4	10	NA	-1220
20										
25										
30										
35										
40										

Comments: 15-16' sample (CM(60) sent to lab (BTEX, TPH) Sampled bagged + iced prior to containerization BH grouted to surface

Geologist Signature

Phase = Drilling
Pit ID = 5

El Paso Natural Gas Company

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 60	94692
MTR CODE | SITE NAME:	73503	N/A
SAMPLE DATE | TIME (Hrs):	6-21-95	1313
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-23-95	6-23-95
DATE OF BTEX EXT. | ANAL.:	6-29-95	6-30-95
TYPE | DESCRIPTION:	VG	grey sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	0.086	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	0.11	MG/KG	1			
TOTAL BTEX	~~0.246~~ 0.196	MG/KG				
TPH (418.1)	32.6	MG/KG			2.07	28
HEADSPACE PID	69	PPM				
PERCENT SOLIDS	89.8	%				

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

The Surrogate Recovery was at 100 % for this sample All QA/QC was acceptable.

Narrative:

AT1 Results attached

DF = Dilution Factor Used

Approved By: _____ Date: 7/17/95

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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                     *
**********************************************************
*
 95/06/23  13:39
*
*  Sample identification
 946920
*
*  Initial mass of sample, g
 2.020
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 32.572
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
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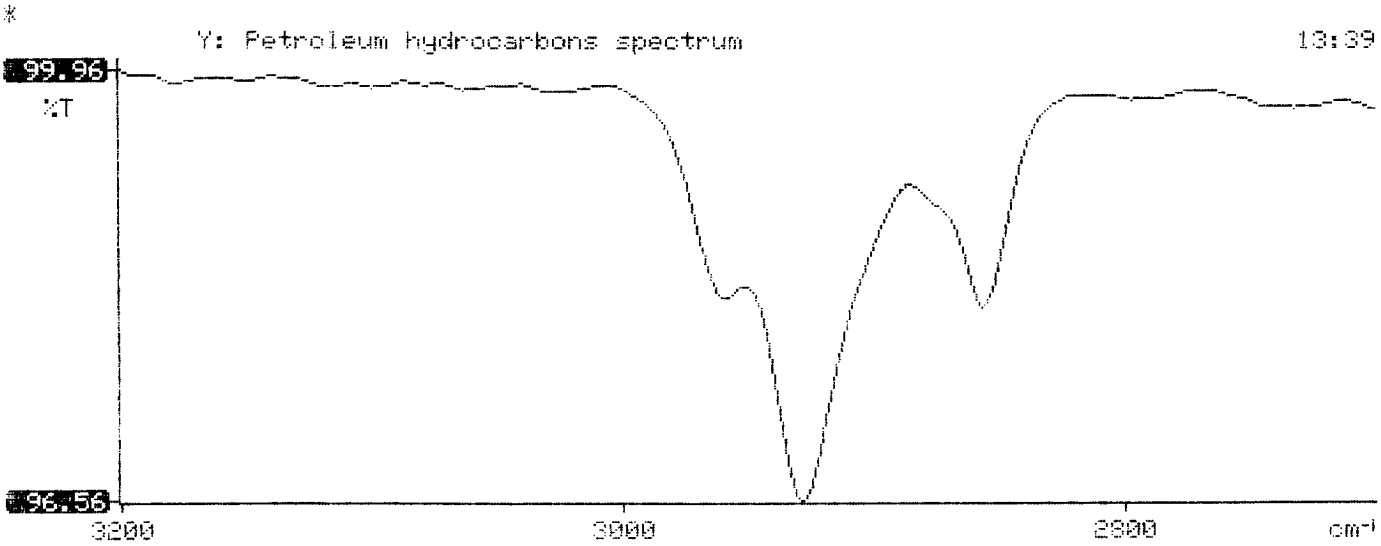

Analytical **Technologies,** Inc.

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

ATI I.D. **506426**

July 10, 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

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506426

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946918	NON-AQ	06/21/95	06/29/95	06/30/95	1
02	946919	NON-AQ	06/21/95	06/29/95	06/29/95	1
03	946920	NON-AQ	06/21/95	06/29/95	06/30/95	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	0.097	<0.025	0.086
ETHYLBENZENE	MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES	MG/KG	0.060	<0.025	0.11
SURROGATE:				
BROMOFLUOROBENZENE (%)		90	97	100