EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 21 1990

Approved

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

LOBATO GAS COM H#1
Meter/Line ID - 87592

SITE DETAILS

Legals - Twn: 29 **Rng:** 09 **Sec:** 03 **Unit:** L
NMOCD Hazard Ranking: 20 **Land Type:** 4 - Fee
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/12/94**

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: 87592 Location: LOBATO GAS COM H #1

Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD

Coordinates: Letter: L Section 3 Township: 29 Range: 9

Or Latitude _____ Longitude _____

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

Site Assessment Date: 4.28.94 Area: 10 Run: 22

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: 20 **POINTS**

REMARKS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS JUST SOUTH OF THE VILLAGE OF TURLEY JUST ACROSS THE HWY. FROM THE SAN JUAN RIVER AT THE BASE OF A CLIFF. REDLINE AND TOPO CONFIRMED LOCATION INSIDE V.Z.

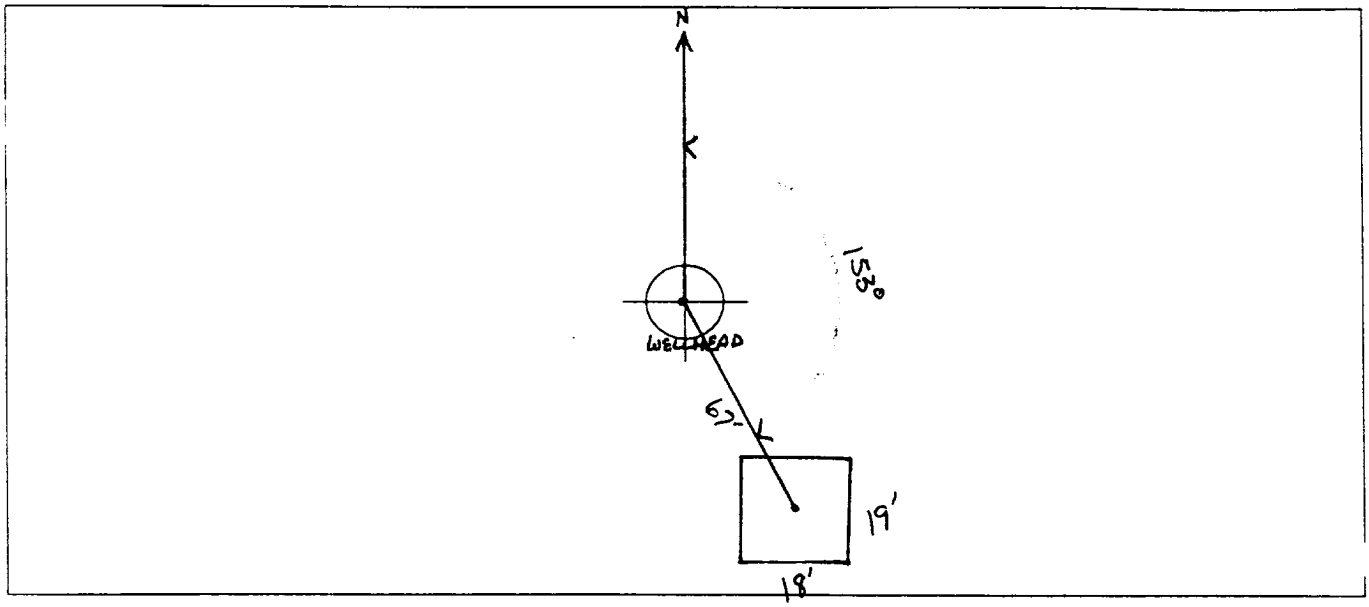
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 153° Footage from Wellhead 62'

b) Length : 19' Width : 18' Depth : 3'



REMARKS

Remarks :

TOOK PICTURES AT 10:38 A.M.

END DUMP

Completed By:

Robert Thompson

Signature

4-28-94

Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 87592 Location: LOBATO GAS COM H #1

Coordinates: Letter: L Section 3 Township: 29 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-12-94 Area: 10 Run: 22

FIELD OBSERVATIONS

Sample Number(s): K.P #43 K.P. #44 K.P #45 _____

Sample Depth: 12 Feet

Final PID Reading 666 PID Reading Depth 12 Feet

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

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 85
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

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

Pit Closure Date: 5-12-94 Pit Closed By: BEI

REMARKS

Remarks : Some LINE MARKERS ON LOCATION started Remediating TO 12' soil IS BLACK + GRAY SAND. 12' Pit STILL BLACK ON Bottom of Pit. PID 666

Signature of Specialist: Kelly Padilla

(SP3191) 04/07

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD43	945156
MTR CODE | SITE NAME:	87592	N/A
SAMPLE DATE | TIME (Hrs):	5-12-94	1500
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-16-94	5/16/94
DATE OF BTEX EXT. | ANAL.:	5/19/94	5/20/94
TYPE | DESCRIPTION:	VC	Brown/Grey Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.50	MG/KG	20			
TOLUENE	4.6	MG/KG	20			
ETHYL BENZENE	7.6	MG/KG	20			
TOTAL XYLENES	150	MG/KG	20			
TOTAL BTEX	163	MG/KG				
TPH (418.1)	4870	MG/KG			0.75	28
HEADSPACE PID	666	PPM				
PERCENT SOLIDS	89.9	%				

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

The Surrogate Recovery was at 397 % 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: _____ 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

14:39

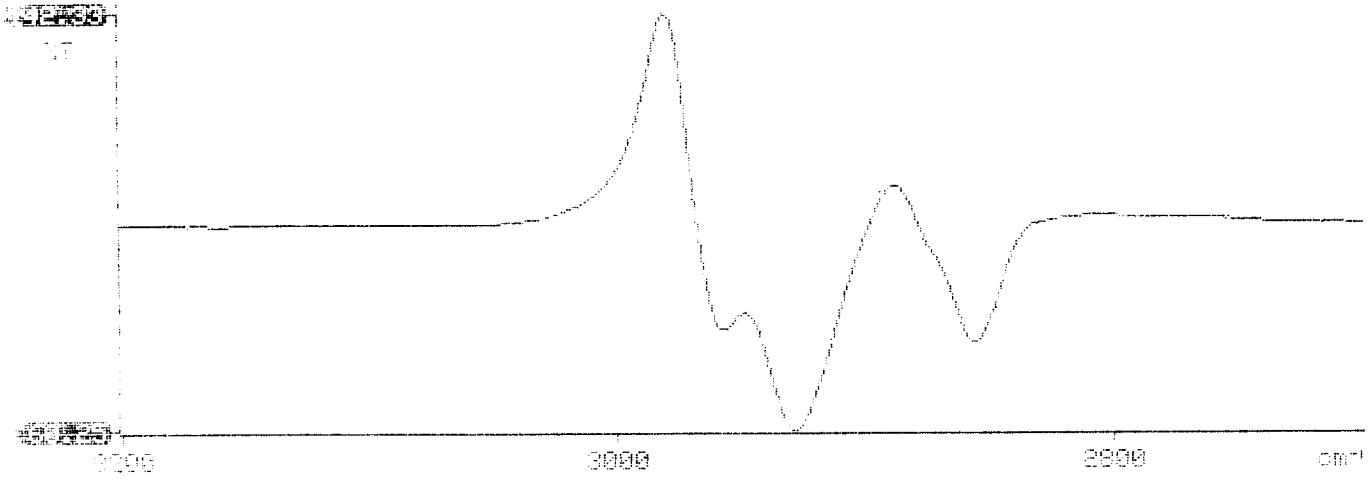
Sample identification

Initial mass of sample, g

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm
870.446
Total absorbance of hydrocarbons (2930 cm-1)

Y: Petroleum hydrocarbons spectrum 14:39



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

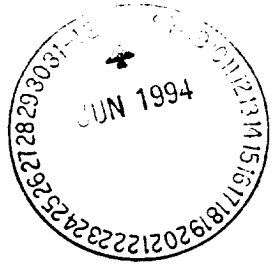
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure



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
07	945156	NON-AQ	05/12/94	05/19/94	05/20/94	20
08	945157	NON-AQ	05/12/94	05/19/94	05/20/94	20
09	945158	NON-AQ	05/12/94	05/19/94	05/20/94	1

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.50	<0.50	<0.025
TOLUENE	MG/KG	4.6	5.9	<0.025
ETHYLBENZENE	MG/KG	7.6	8.5	<0.025
TOTAL XYLENES	MG/KG	150	180	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		397*	467*	95

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase 601
Project Location Labato Gas Com #1, 8759

Elevation
Borehole Location
GWL Depth
Logged By S.Kelly
Drilled By M. Donahue
Date/Time Started 6/15/95,
Date/Time Completed

Well Logged By S.Kelly
Personnel On-Site M. Donahue, J. O'Keefe
Contractors On-Site
Client Personnel On-Site
Drilling Method 4¼" ID HSA
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	Air Monitoring Units: NDU BH	Air Monitoring Units: NDU	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										At 10'6" driller felt change to harder material may be weathered sandstone
15	1	15-17	.5'	black, sandy SILT, with trace clay. fine sand, loose, dry SK 6/15/95			0	0	285/192	1328
20	2	20-22		light ~~tan~~ grey SAND, fine to coarse sand, well graded. dry. dense,					293/197	1330
25	3	25-27	1.0'	SAA - damp					95/621	- 1350
30	4	30-32	1.0'	SAA - damp					240/2943	- 1410
35	5	35-37	.55'	olive grey, SILT, with 10-20% fine sand, med. dense, damp. fine laminations		36			13/80	1424 may have thin relict bedding
40	6	40-42		BOH - 38'						

Comments: Refusal of augers and couldn't beat split spoon at 38'. 35'-37' sample sent to lab (BTEX & TPH). BH grouted to surface.

Geologist Signature

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:	SEV 8	946908
MTR CODE | SITE NAME:	87592	N/A
SAMPLE DATE | TIME (Hrs):	6-15-95	1424
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-19-95	6-19-95
DATE OF BTEX EXT. | ANAL.:	6-21-95	6-22-95
TYPE | DESCRIPTION:	VG	Brown/gray sandy silt w/ large chunks clay

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	0.038	MG/KG	1			
TOTAL XYLENES	0.28	MG/KG	1			
TOTAL BTEX	0.368	MG/KG				
TPH (418.1)	30.6	MG/KG			2.0	28
HEADSPACE PID	80	PPM				
PERCENT SOLIDS	93.2	%				

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

The Surrogate Recovery was at 95 % for this sample All QA/QC was acceptable.

Narrative:

All Results attached

DF = Dilution Factor Used

Approved By: _____ Date: 7/11/95

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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               *
**************************************************
*
 95/06/19  12:10
*
*  Sample identification
 946908
*
*  Initial mass of sample, g
 2.000
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 30.611
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
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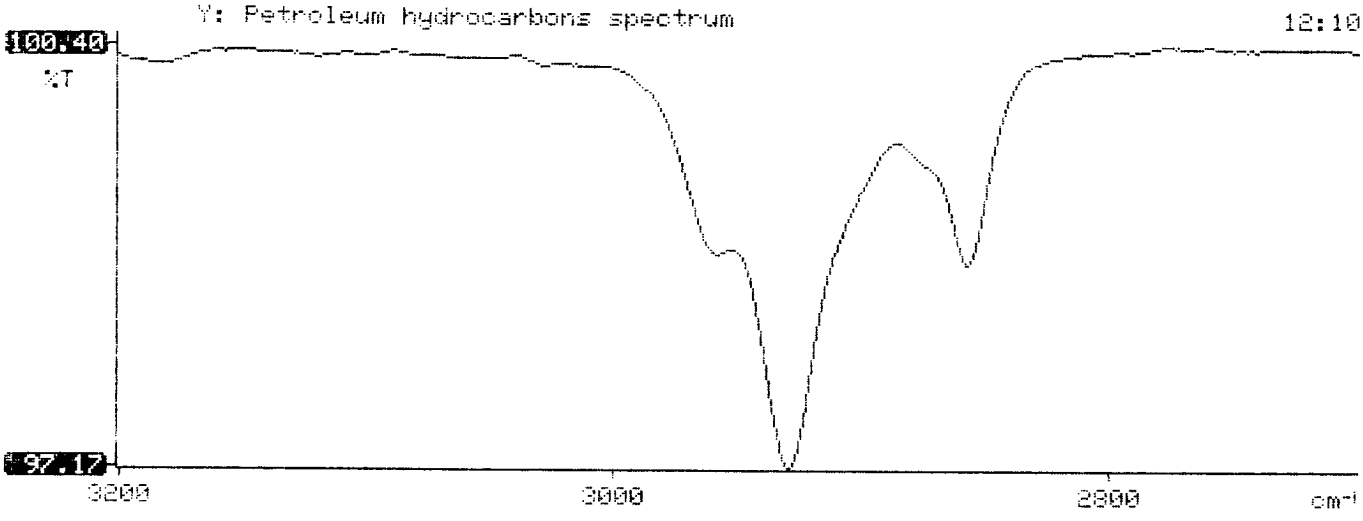


Analytical Technologies, Inc.

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

ATI I.D. **506387**

June 27, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/21/95**, 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.

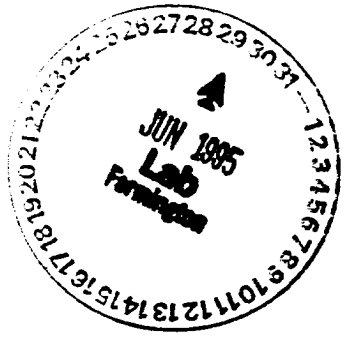
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:gsm

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506387
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946906	NON-AQ	06/15/95	06/21/95	06/22/95	1
02	946907	NON-AQ	06/15/95	06/21/95	06/22/95	1
03	946908	NON-AQ	06/15/95	06/21/95	06/22/95	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	0.038
TOTAL XYLENES	MG/KG	<0.025	<0.025	0.28
SURROGATE:				
BROMOFLUOROBENZENE (%)		90	89	95