

# DEPPES PIT CLOSURE SUMMARY

*Dennis E. Faust*  
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

MKL # 5  
Meter/Line ID - 70060

*Approved*  
Legals - Twn: 26 Rng: 7  
NMOCD Hazard Ranking: 30  
Operator: Louis Dreyfus

## SITE DETAILS

Sec: 6 Unit: B  
Land Type: BLM

## PREVIOUS ACTIVITIES

Site Assessment: 6/15/94  
Monitor Well: N/A

Excavation: 7/25/94  
Re-Excavation: N/A

Soil Boring: 7/31/95  
Geoprobe: N/A

## CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated the clay at the bottom of the excavation to be 531 ppm at 12 feet bgs. Excavation was terminated and a sample was collected and analyzed for BTEX and TPH. Sample analysis indicated total BTEX to be below standards at 42 mg/kg and TPH was above standards at 509 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of the impact to soils. The soil lithology consisted of a brown clay, which continued to the termination of the boring at 19 feet bgs. A sample was collected for BTEX and TPH analysis at 18-19 feet bgs. Laboratory analysis showed total BTEX to be below standards at .039 mg/kg and TPH present at 63.2 mg/kg.

## RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- The excavation was terminated in a clay material, which would inhibit further downward migration of residual hydrocarbons.
- Test boring sample results indicated soils below standards 6 feet beneath the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

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MAR - 9 1998

OIL CON. DIV.  
DIST. 3

# FIELD PIT SITE ASSESSMENT FORM

<b>GENERAL</b>	<p>Meter: <u>70060</u> Location: <u>MKL #5</u></p> <p>Operator #: <u>0448</u> Operator Name: <u>Louis DREYFUS P/L</u> District: <u>BALLARD</u></p> <p>Coordinates: Letter: <u>B</u> Section <u>6</u> Township: <u>26</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>6.15.94</u> Area: <u>07</u> Run: <u>51</u></p>
<b>SITE ASSESSMENT</b>	<p><b>NMOCD Zone:</b> (From NMOCD Maps)</p> <p style="margin-left: 40px;">Inside <input checked="" type="checkbox"/> (1)</p> <p style="margin-left: 40px;">Outside <input type="checkbox"/> (2)</p> <p><b>Land Type:</b></p> <p style="margin-left: 40px;">BLM <input checked="" type="checkbox"/> (1)</p> <p style="margin-left: 40px;">State <input type="checkbox"/> (2)</p> <p style="margin-left: 40px;">Fee <input type="checkbox"/> (3)</p> <p style="margin-left: 40px;">Indian _____</p> <p><b>Depth to Groundwater</b></p> <p>Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p><b>Wellhead Protection Area :</b></p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p><b>Horizontal Distance to Surface Water Body</b></p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1)</p> <p>200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>CANON LARGO</u></p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) &lt; 100' (Navajo Pits Only)</p> <p style="margin-left: 100px;"><input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE: <u>30</u> POINTS</b></p>
<b>REMARKS</b>	<p>Remarks : <u>TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS IN LARGO CANYON NEXT TO LARGO WASH. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.</u></p>

RECEIVED

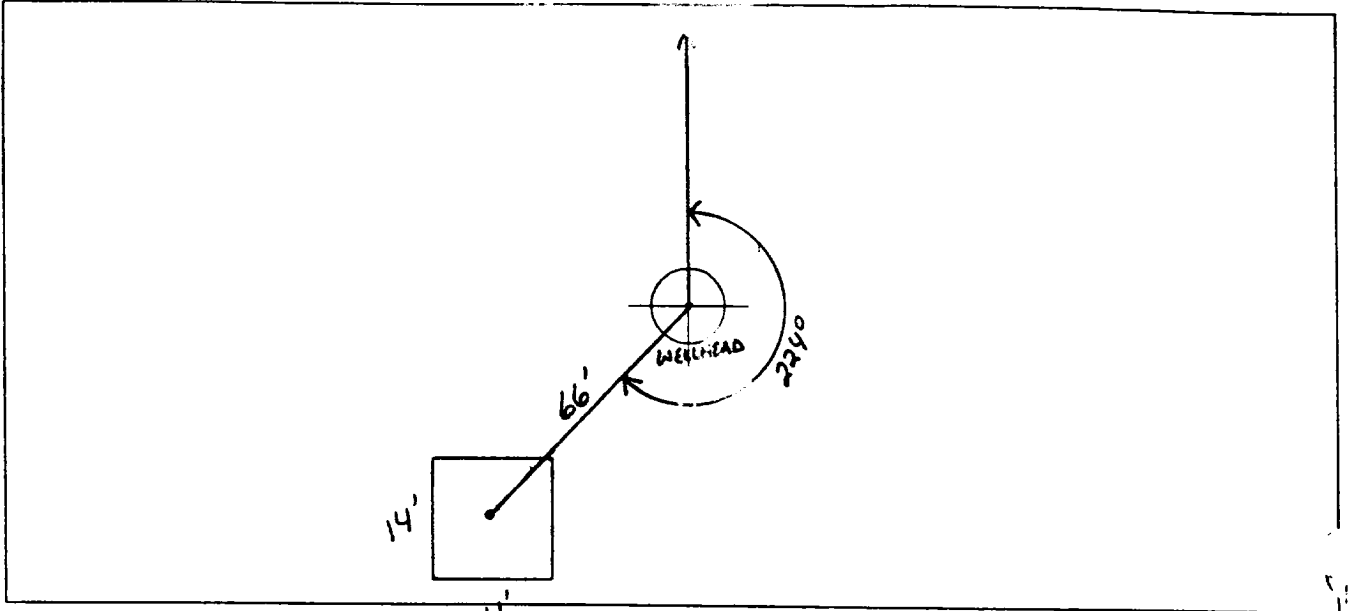
MAR - 9 1998

OIL CON. DIV.  
DIST. 3

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 224° Footage from Wellhead 66'  
b) Length : 14' Width : 14' Depth : 2'

ORIGINAL PIT LOCATION



REMARKS :

TOOK PICTURES AT 8:59 A.M.  
END DUMP

REMARKS

Completed By:

Robert Thompson

Signature

6.15.90

Date

# **PHASE I EXCAVATION**

FII PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70060 Location: MKL #5  
 Coordinates: Letter: B Section 6 Township: 26 Range: 7  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 7-25-94 Area: 07 Run: 51

FIELD OBSERVATIONS

Sample Number(s): KP 147  
 Sample Depth: 12' Feet  
 Final PID Reading 531 PID Reading Depth 12' Feet  
 Yes No  
 Groundwater Encountered  (1)  (2) Approximate Depth KP 7-25-94  
~~60~~ 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: 7-25-94 Pit Closed By: B.E.I

REMARKS

Remarks : Some line markers. Started remediating to 12'  
At 12' soil is dark gray with a smell. Some of the  
soil looked like clay.

Signature of Specialist: Kelly Padilla



**FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
PIT CLOSURE PROJECT - Soil**

**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	KP 147	945756
MTR CODE   SITE NAME:	70060	N/A
SAMPLE DATE   TIME (Hrs):	7-25-94	1210
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	7-26-94	7-26-94
DATE OF BTEX EXT.   ANAL.:	7/27/94	7/28/94
TYPE   DESCRIPTION:	VC	Brown clay

REMARKS: \_\_\_\_\_

**RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	20.25	MG/KG	10			
TOLUENE	6.4	MG/KG	10			
ETHYL BENZENE	2.3	MG/KG	10			
TOTAL XYLENES	3.3	MG/KG	10			
TOTAL BTEX	42	MG/KG				
TPH (418.1)	509	MG/KG			2.17	28
HEADSPACE PID	531	PPM				
PERCENT SOLIDS	80.9	%				

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

The Surrogate Recovery was at 65 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: J.P.

Date: 8/12/94

\*\*\*\*\*  
Test Method for  
Oil and Grease and Petroleum Hydrocarbons  
in Water and Soil  
Perkin-Elmer Model 1600 FT-IR  
Analysis Report  
\*\*\*\*\*

94/07/26 13:22

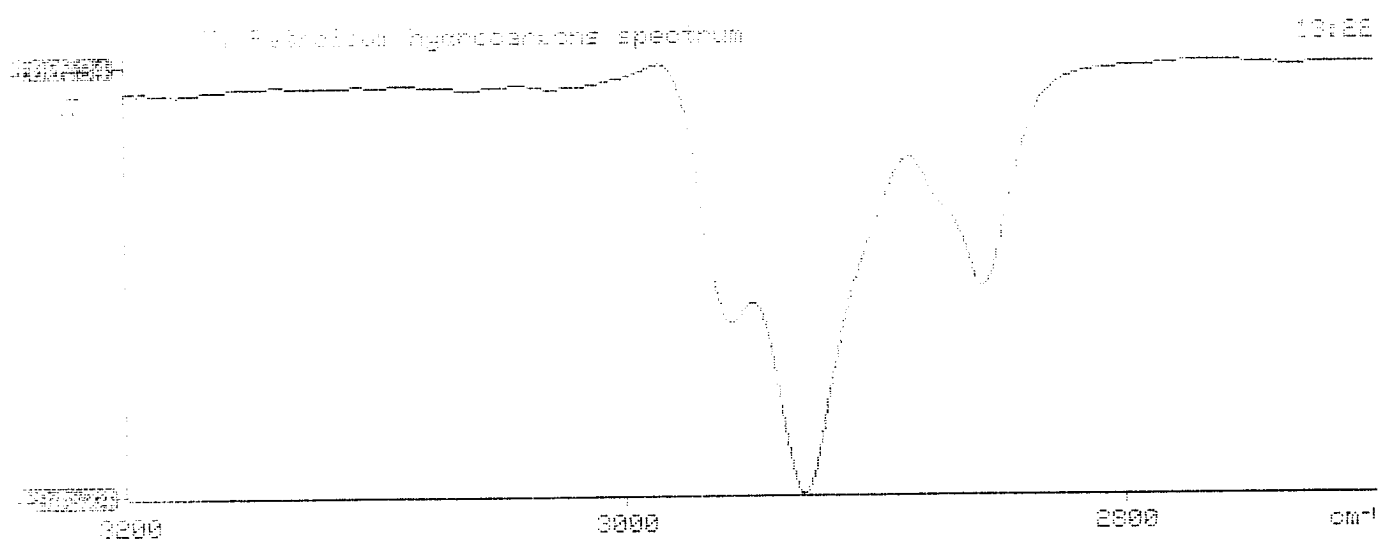
Sample identification  
745754

Initial mass of sample, g  
1.170

Volume of sample after extraction, ml  
12.100

Petroleum hydrocarbons, ppm  
509.077

Net absorbance of hydrocarbons (2930 cm<sup>-1</sup>)  
0.071





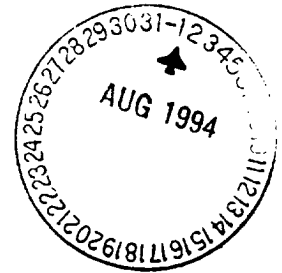
Analytical **Technologies**, Inc.

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

ATI I.D. 407410

July 29, 1994

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



Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **07/27/94**, 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.

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:jt

Enclosure





### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)  
CLIENT : EL PASO NATURAL GAS CO.      ATI I.D.: 407410  
PROJECT # : 24324  
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945756	NON-AQ	07/25/94	07/27/94	07/28/94	10
11	945757	NON-AQ	07/25/94	07/27/94	07/28/94	1
12	945758	NON-AQ	07/25/94	07/27/94	07/28/94	1
PARAMETER			UNITS	10	11	12
BENZENE			MG/KG	<0.25	<0.025	<0.025
TOLUENE			MG/KG	6.4	<0.025	0.027
ETHYLBENZENE			MG/KG	2.3	<0.025	0.075
TOTAL XYLENES			MG/KG	33	<0.025	0.30
SURROGATE:						
BROMOFLUOROBENZENE (%)				65	81	92

# PHASE II

# RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1  
 Well # \_\_\_\_\_  
 Page 1 of 1

**Burlington Environmental Inc.**  
 4000 Monroe Road  
 Farmington, New Mexico 87401  
 (505) 328-2262 FAX (505) 328-2388

Project Name EPNG PITS  
 Project Number 14509 Phase B 6000.77  
 Project Location MKB # 70090  
 Well Logged By J.F. LaBarbera  
 Personnel On-Site K. Padilla, F. Rivera, D. Charlie  
 Contractors On-Site M. Donahue, J. Koster, D. Gray  
 Client Personnel On-Site \_\_\_\_\_

Elevation \_\_\_\_\_  
 Borehole Location Letter B - SW - T24 - R7  
 GWL Depth \_\_\_\_\_  
 Logged By J.F. LaBarbera  
 Drilled By K. Padilla M. Donahue  
 Date/Time Started 7/31/95 - 12:26  
 Date/Time Completed - 2:30

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			Drilling Conditions & Blow Counts
							Units: ppm	BZ	BH	
0										
5				Fill						
10										
15										
18-19	1	18-19	12	Brown, v. soft, CLAY, silt, plasticity, wet, no high odor noted	CL		0	1	1.8	1
20										
25				Tab - 19'						
30										
35										
40										

Comments: Sample JFH 35 from 18-19' sent to lab for BTEX/TPH analysis.

Geologist Signature John J. Barbera

Phase II Drilling  
MKL #5

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JFL 35	947111
MTR CODE   SITE NAME:	70060	N/A
SAMPLE DATE   TIME (Hrs):	07/31/95	12:24
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	8-1-95	8-1-95
DATE OF BTEX EXT.   ANAL.:	8-3-95	8-5-95
TYPE   DESCRIPTION:	V6	Brown clay

REMARKS: \_\_\_\_\_

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.025	MG/KG	1			
TOLUENE	40.025	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG	1			
TOTAL XYLENES	0.039	MG/KG	1			
TOTAL BTEX	0.039	MG/KG				
TPH (418.1)	63.2	MG/KG			2.10	28
HEADSPACE PID	1.8	PPM				
PERCENT SOLIDS	78.8	%				

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

The Surrogate Recovery was at 85 % for this sample All QA/QC was acceptable.

Narrative: ATI Results attached

DF = Dilution Factor Used

Approved By: J.F.

Date: 8/2/95

\*\*\*\*\*  
\* Test Method for \*  
\* Oil and Grease and Petroleum Hydrocarbons \*  
\* in Water and Soil \*  
\* Perkin-Elmer Model 1600 FT-IR \*  
\* Analysis Report \*  
\*\*\*\*\*

\* 95/08/01 13:23

\* Sample identification  
\* 947111

\* Initial mass of sample, g  
\* 2.100

\* Volume of sample after extraction, ml  
\* 28.000

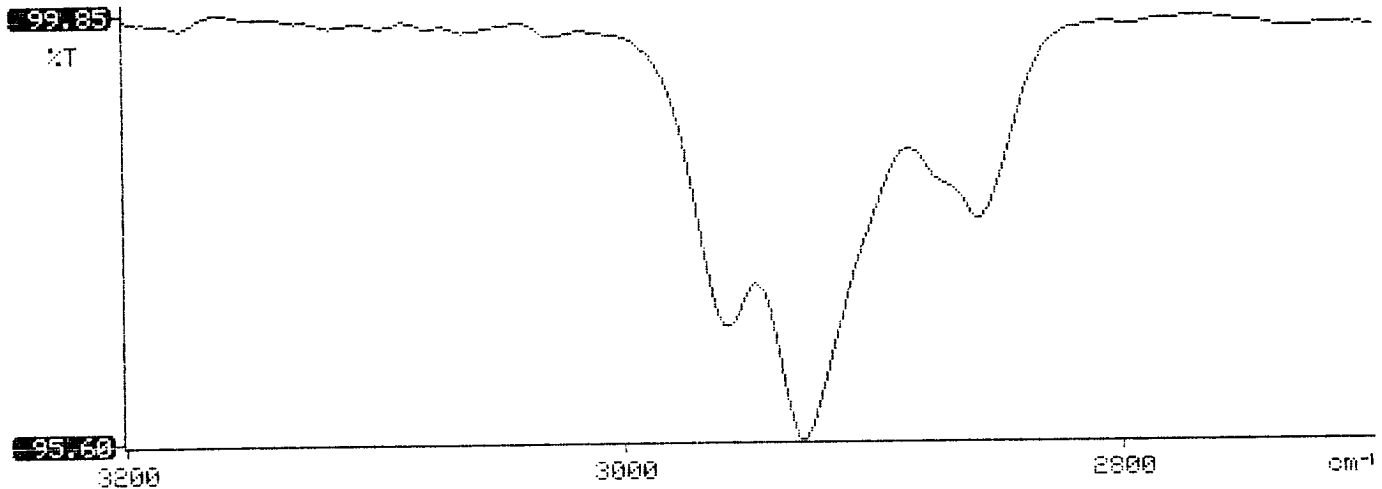
\* Petroleum hydrocarbons, ppm  
\* 63.224

\* Net absorbance of hydrocarbons (2930 cm<sup>-1</sup>)  
\* 0.018

\*  
\*  
\*

Y: Petroleum hydrocarbons spectrum

13:24





Analytical **Technologies**, Inc.

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

ATI I.D. 508322

August 8, 1995

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

Project Name/Number: PIT CLOSURE/PHASE I & II 24324

Attention: John Lambdin

On 08/03/95, 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

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.  
Laboratory Manager



## GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)  
 CLIENT : EL PASO NATURAL GAS                      ATI I.D.: 508322  
 PROJECT # : 24324  
 PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947111	NON-AQ	07/31/95	08/03/95	08/05/95	1
05	947112	NON-AQ	07/31/95	08/03/95	08/05/95	1
06	947113	NON-AQ	07/31/95	08/03/95	08/05/95	1

PARAMETER	UNITS	04	05	06
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	<0.025
TOTAL XYLENES	MG/KG	0.039	0.052	<0.025

## SURROGATE:

BROMOFLUOROBENZENE (%)                                              85                      91                      92