

*Amoco*  
**EPPS PIT CLOSURE SUMMARY**  
**DEPUTY OIL & GAS INSPECTOR**

JUL 17 1998

*Approved*

**Bassett #2**  
**Meter/Line ID - 70119**

**SITE DETAILS**

**Legals - Twn: 30 Rng: 10**  
**NMOCD Hazard Ranking: 40**  
**Operator: Amoco**

**Sec: 33 Unit: G**  
**Land Type: BLM**

**PREVIOUS ACTIVITIES**

**Site Assessment: 5/3/94**  
**Monitor Well: N/A**

**Excavation: 5/12/94**  
**Re-Excavation: N/A**

**Soil Boring: 6/21/95**  
**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 subsurface soils to be 384 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be below standards at 33 mg/kg and TPH was above standards at 228 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. The soil lithology beneath the excavation consisted of a gray to brown, very fine to fine grained silty sand, which continued to the termination of the boring at 22 feet bgs. A soil sample was collected for BTEX and TPH analysis at 20-22 feet bgs. Laboratory analysis showed all BTEX compounds to be below laboratory detection limits and TPH present at 41.5 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.
- Test boring sample results indicated soils below standards 8 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.

**RECEIVED**  
MAR - 9 1998

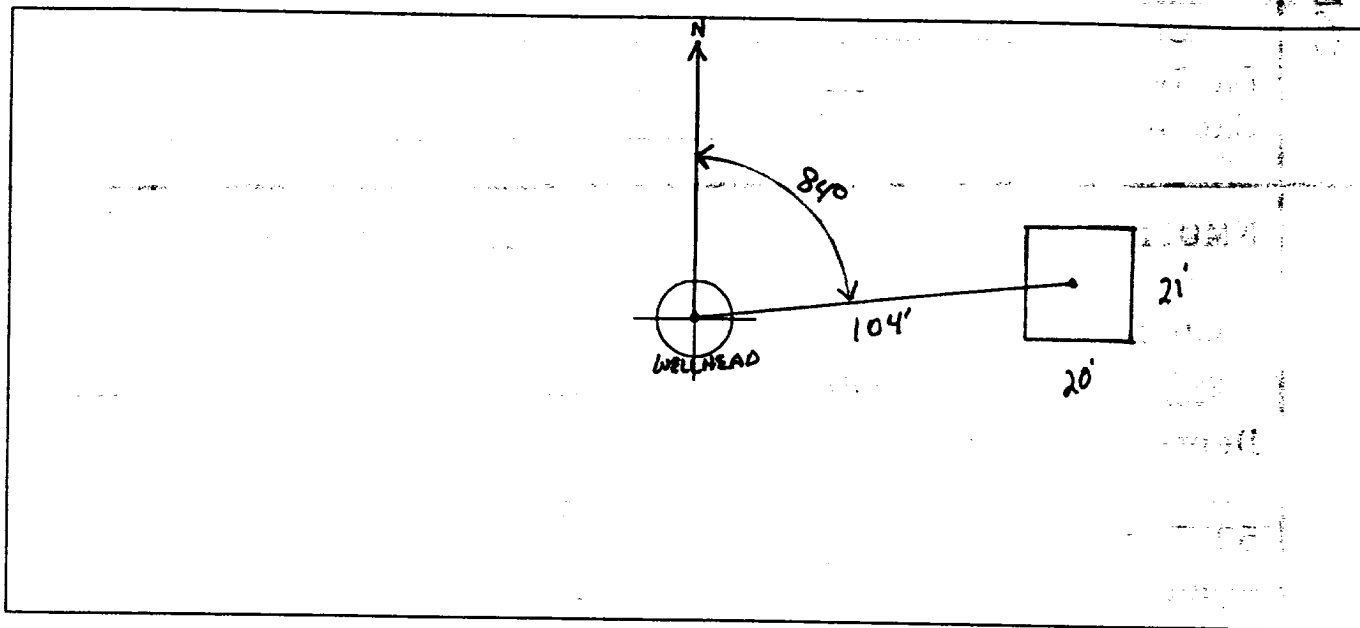
**OIL CON. DIV.**  
**DIST. 3**

# FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>70119</u> Location: <u>BASSETT #2</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>BLOOMFIELD</u></p> <p>Coordinates: Letter: <u>6</u> Section <u>33</u> Township: <u>30</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>5-3-94</u> Area: <u>10</u> Run: <u>73</u></p>
SITE ASSESSMENT	<p><b>NMOCD Zone:</b> (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p><b>Land Type:</b> BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p><b>Depth to Groundwater</b></p> <p>Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) 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 checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>DANAHES DRAINAGE FROM LITTLE SLANE CANYON</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) <input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE:</b> <u>40</u> POINTS</p>
REMARKS	<p>Remarks : <u>ONLY PIT ON LOCATION. PIT IS DRY. REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE THE V.Z.</u></p> <p style="text-align: right;"><b>DIG &amp; HAUL</b></p>

# ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 84° Footage from Wellhead 104'  
 b) Length : 21' Width : 20' Depth : 4'



## Remarks :

TOOK PICTURES AT 10:48 A.M.

END DUMP

Completed By:

Pet Thompson

Signature

5.3.94

Date

# **PHASE I EXCAVATION**



# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70119 Location: Bassett #2  
 Coordinates: Letter: G Section 33 Township: 30 Range: 10  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 5-12-94 Area: 10 Run: 73

OBSERVATIONS

Sample Number(s): KD55  
 Sample Depth: 12 Feet  
 Final PID Reading 384 ppm PID Reading Depth 12 Feet  
 Yes No  
 Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth \_\_\_\_\_ Feet

CLOSURE

Remediation Method :  
 Excavation ☒ (1) Approx. Cubic Yards 65  
 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 : Excavated pit to 12' Took PID Reading  
closed pit. Contamination started at about 4-5 ft; continued  
on thru out excavation

Signature of Specialist: Kenny Deane



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KDSS	945152
MTR CODE   SITE NAME:	70119	N/A
SAMPLE DATE   TIME (Hrs):	5-12-94	1420
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	5/16/94	5/16/94
DATE OF BTEX EXT.   ANAL.:	5/19/94	5/19/94
TYPE   DESCRIPTION:	VC	Brown sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	21.2	MG/KG	50			
TOLUENE	3.8	MG/KG	50			
ETHYL BENZENE	2.2	MG/KG	50			
TOTAL XYLENES	26	MG/KG	50			
TOTAL BTEX	33	MG/KG				
TPH (418.1)	228	MG/KG			2.06	28
HEADSPACE PID	384	PPM				
PERCENT SOLIDS	88.8	%				

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

The Surrogate Recovery was at 39 % for this sample All QA/QC was acceptable.

Narrative:

ATI results attached. Surrogate recovery was out of  
ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By:

*John Larch*

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  
 \*\*\*\*\*

94/05/16 13:16

Sample identification  
 945152

Initial mass of sample, g  
 2.060

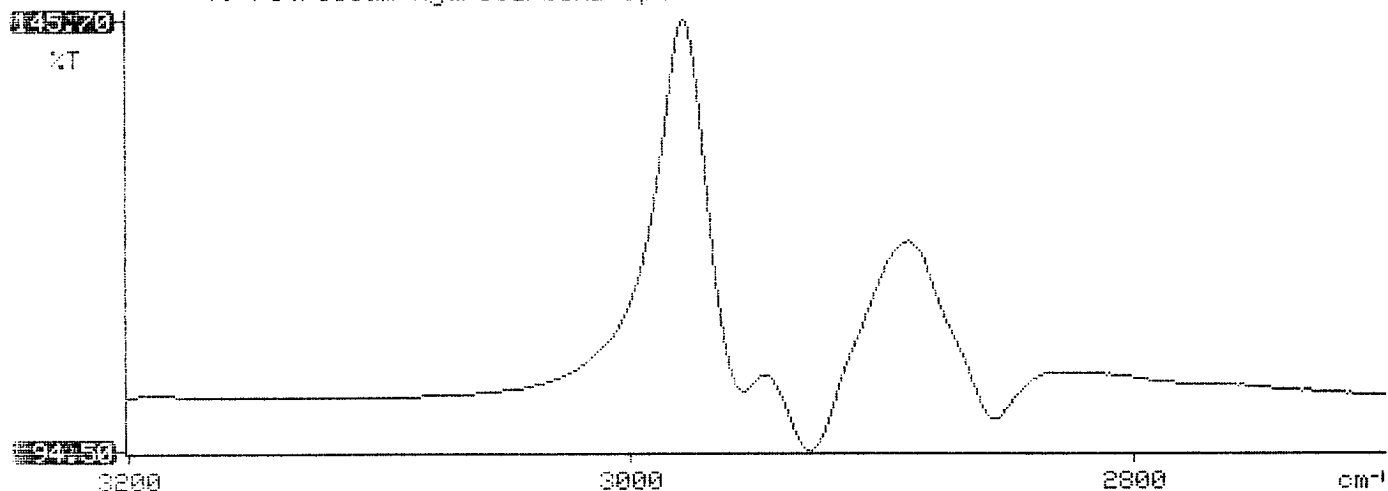
Volume of sample after extraction, ml  
 28.000

Petroleum hydrocarbons, ppm  
 227.931

Net absorbance of hydrocarbons (2930 cm<sup>-1</sup>)  
 0.029

Y: Petroleum hydrocarbons spectrum

13:17







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  
8/6/94

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
01	945150	NON-AQ	05/12/94	05/19/94	05/19/94	50
02	945151	NON-AQ	05/12/94	05/19/94	05/19/94	50
03	945152	NON-AQ	05/12/94	05/19/94	05/19/94	50

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<1.2	2.6	<1.2
TOLUENE	MG/KG	1.9	32	3.8
ETHYLBENZENE	MG/KG	2.5	4.4	2.2
TOTAL XYLENES	MG/KG	35	110	26

SURROGATE:

BROMOFLUOROBENZENE (%)	65	62*	39*
------------------------	----	-----	-----

\*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

Acceptable.  
JF  
6/6/94

# PHASE II



# RECORD OF SUBSURFACE EXPLORATION

## PHILIP ENVIRONMENTAL

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

Borehole # BH-1

Well # \_\_\_\_\_

Page 1 of 1

Project Name EPNG PITS

Project Number 14509 Phase 6000 77

Project Location Sassett #2 70119

Elevation \_\_\_\_\_

Borehole Location \_\_\_\_\_

GWL Depth \_\_\_\_\_

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 6/21/95 - 1115

Date/Time Completed 6/21/95 - 1200

Well Logged By CM Chance

Personnel On-Site K Padilla, F. Rivera, D. Tealwa

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			Drilling Conditions & Blow Counts
							Units: PPM			
							BZ	BH	S HS	
0				Backfill to 12'						
5										
10										
15	1	15-17	4"	Gr silty SAND, vf-F sand, med dense, sl moist, adn			0	81	$\frac{216}{433}$	1115h
20	2	20-22	12"	Br silty SAND, vf-F sand, tr med sand, med dense, sl moist			0	38	$\frac{0}{7}$	1122
25				TDB 22'						
30										
35										
40										

Comments:

20-22' sample (CMC 59) sent to lab (BTEX, TPH) Sampled bagged & iced prior  
to containerization. BH grouted to surface

Geologist Signature \_\_\_\_\_



Phase II Drilling

Bassett #2

## FIELD SERVICES LABORATORY

### ANALYTICAL REPORT

#### PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 59	9469 19
MTR CODE   SITE NAME:	70 119	N/A
SAMPLE DATE   TIME (Hrs):	6-21-95	1122
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	6-23-95	6-23-95
DATE OF BTEX EXT.   ANAL.:	6-29-95	6-29-95
TYPE   DESCRIPTION:	V G	Brown 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)	41.5	MG/KG			1.97	28
HEADSPACE PID	7	PPM				
PERCENT SOLIDS	92.1	%				

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

The Surrogate Recovery was at 97 % for this sample All QA/QC was acceptable.

Narrative:

AT 1 Results attached

DF = Dilution Factor Used

Approved By:

Date:

7/17/95

\*\*\*\*\*  
 \* Test Method for \*  
 \* Oil and Grease and Petroleum Hydrocarbons \*  
 \* in Water and Soil \*  
 \*\*\*\*\*

Perkin-Elmer Model 1600 FT-IR  
 Analysis Report

95/06/23 13:37

\* Sample identification  
 946919

\* Initial mass of sample, g  
 1.970

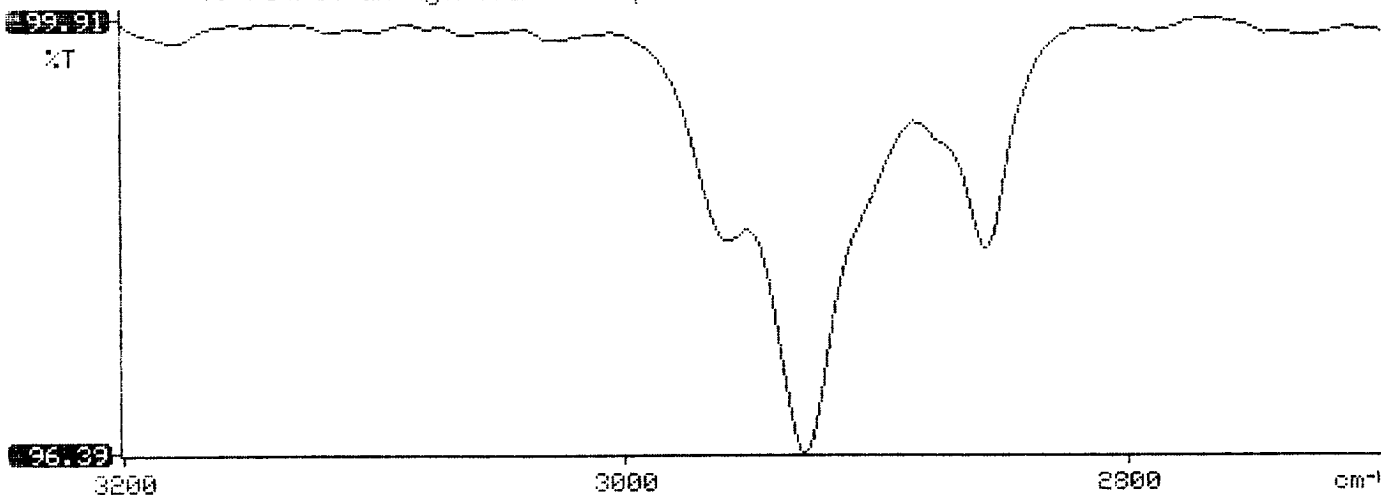
\* Volume of sample after extraction, ml  
 28.000

\* Petroleum hydrocarbons, ppm  
 41.483

\* Net absorbance of hydrocarbons (2930 cm<sup>-1</sup>)  
 0.015

Y: Petroleum hydrocarbons spectrum

13:37





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

On **06/29/95**, 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: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
------------------------	----	----	-----