

8K  
**EL PASO FIELD SERVICES**  
**DEPUTY PRODUCTION PIT CLOSURE**

DEC 21 1998

**HANLEY #2J**  
**Meter/Line ID - 89040**

**RECEIVED**  
JUL 2 1999

**SITE DETAILS**

*Approved*  
**Legals - Twn: 29 - Rng: 10**  
**NMOCD Hazard Ranking: 40**  
**Operator: MERIDIAN OIL INC**

**Sec: 18**      **Unit: C**  
**Land Type: 2 - Federal**  
**Pit Closure Date: 09/09/94**

**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.

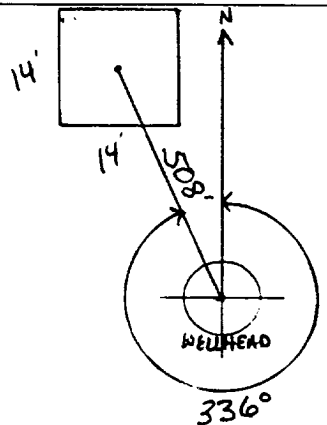

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

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.
- 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	<p>Meter: <u>89040</u> Location: <u>HANLEY #25</u></p> <p>Operator #: <u>2999</u> Operator Name: <u>MERIDIANP/L</u> District: <u>BLOOMFIELD</u></p> <p>Coordinates: Letter: <u>C</u> Section <u>18</u> Township: <u>29</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>5-18-94</u> Area: <u>10</u> Run: <u>93</u></p>																
SITE ASSESSMENT	<p><b>NMOCD Zone:</b> (From NMOCD Maps)</p> <p><b>Land Type:</b></p> <table border="0"> <tr> <td>Inside</td><td><input checked="" type="checkbox"/> (1)</td> <td>BLM</td><td><input checked="" type="checkbox"/> (1)</td> </tr> <tr> <td>Outside</td><td><input type="checkbox"/> (2)</td> <td>State</td><td><input type="checkbox"/> (2)</td> </tr> <tr> <td></td><td></td> <td>Fee</td><td><input type="checkbox"/> (3)</td> </tr> <tr> <td></td><td></td> <td>Indian</td><td>_____</td> </tr> </table> <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 checked="" type="checkbox"/> (1) YES (20 points) <input 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 type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</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><input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE:</b> <u>40</u> POINTS</p>	Inside	<input checked="" type="checkbox"/> (1)	BLM	<input checked="" type="checkbox"/> (1)	Outside	<input type="checkbox"/> (2)	State	<input type="checkbox"/> (2)			Fee	<input type="checkbox"/> (3)			Indian	_____
Inside	<input checked="" type="checkbox"/> (1)	BLM	<input checked="" type="checkbox"/> (1)														
Outside	<input type="checkbox"/> (2)	State	<input type="checkbox"/> (2)														
		Fee	<input type="checkbox"/> (3)														
		Indian	_____														
REMARKS	<p>Remarks : <u>ONLY PIT ON LOCATION. PIT IS DRY. WELLHEAD IS KIND OF SEPERATED FROM THE REST OF THE LOCATION. LOCATION IS ON THE EDGE OF THE MOUTH OF POTTER CANYON NEXT TO A HOUSING SUB-DIVISION. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.2.</u></p> <p style="text-align: right;"><u>DIG &amp; NAME</u></p>																

ORIGINAL PIT LOCATION	<p style="text-align: center;"><b>ORIGINAL PIT LOCATION</b></p> <p>Original Pit : a) Degrees from North <u>336°</u> Footage from Wellhead <u>508'</u>  b) Length : <u>14'</u> Width : <u>14'</u> Depth : <u>2'</u></p> <div style="text-align: center;">  </div>
REMARKS	<p>Remarks :</p> <p><u>TOOK PICTURES AT 9:40 A.M.</u></p> <p><u>END DUMP</u></p>
	<p>Completed By:</p> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">   Signature </div> <div style="text-align: center;"> <u>5 18.94</u>  Date </div> </div>

# **PHASE I EXCAVATION**

# FIELD PIT REMEDIATION/CLOSURE FORM

<b>GENERAL</b>	<p>Meter: <u>89040</u> Location: <u>HANLEY #2J</u></p> <p>Coordinates: Letter: <u>C</u> Section <u>18</u> Township: <u>29</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>9-9-94</u> Run: <u>10</u> <u>93</u></p>
<b>FIELD OBSERVATIONS</b>	<p>Sample Number(s): <u>KP226</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>006</u> PID Reading Depth <u>12'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
<b>CLOSURE</b>	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>30</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> <input type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>9-9-94</u> Pit Closed By: <u>B.E.I</u></p>
<b>REMARKS</b>	<p><b>Remarks :</b> <u>Some Line markings started Remediating to 12'</u>  <u>soil turned light gray. At 12' soil looked clean pid 006</u>  <u>closed Pit.</u></p>
	<p>Signature of Specialist: <u>Kelly Padella</u></p>



**FIELD SERVICES LABORATORY  
ANALYTICAL REPORT**

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

**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	KP226	946086
MTR CODE   SITE NAME:	89040	N/A
SAMPLE DATE   TIME (Hrs):	9-9-94	1100
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	9-13-94	9-13-94
DATE OF BTEX EXT.   ANAL.:	9-14-94	9-15-94
TYPE   DESCRIPTION:	VC	Brown 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	0.11	MG/KG	1			
TOTAL BTEX	0.19	MG/KG				
TPH (418.1)	132.8   133	MG/KG			2.02	28
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	92.2	%				

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

The Surrogate Recovery was at 113 % for this sample All QA/QC was acceptable.  
Narrative:

ATI Results attached.

DF = Dilution Factor Used

Approved By:

*JR*

Date:

10/23/01

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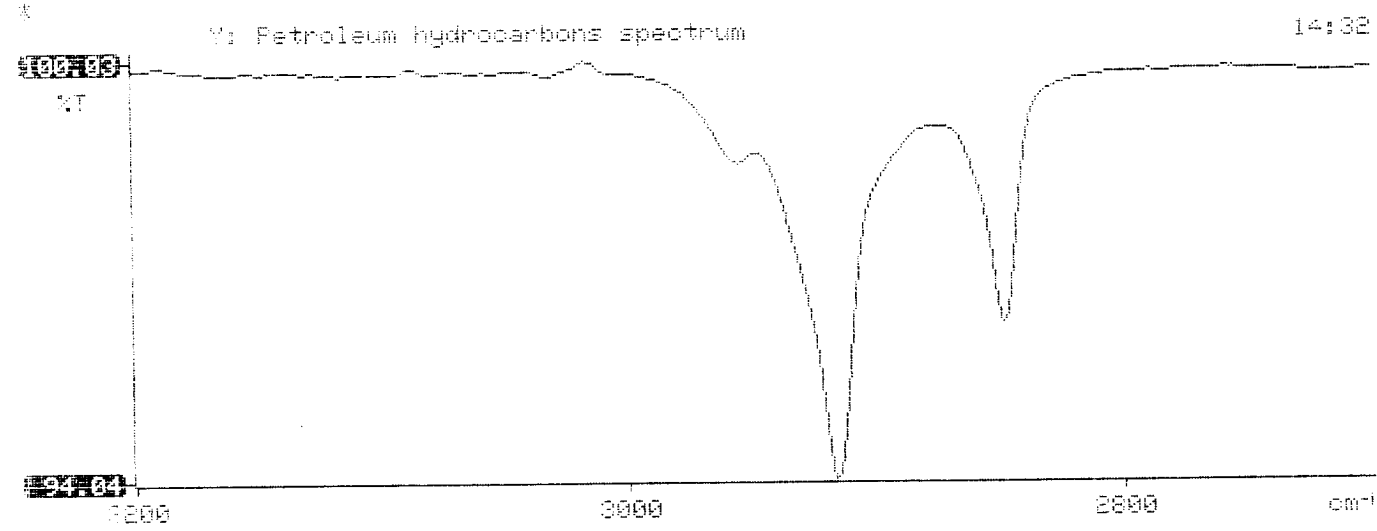
*****
Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil
*****
Perkin-Elmer Model 1600 FT-IR
Analysis Report
*****

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74/09/13 14:32
Sample Identification
946086
Initial mass of sample, g
2.020
Volume of sample after extraction, ml
28.000
Petroleum hydrocarbons, ppm
132.760
Net absorbance of hydrocarbons (2930 cm-1)
0.026

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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. **409354**

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

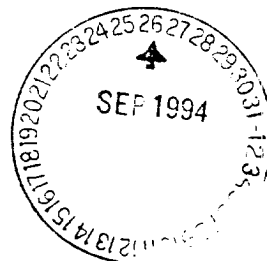
On **09/14/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

Letitia Krakowski, Ph.D.  
Project Manager

MR:jt

Enclosure





# GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)  
 CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409354  
 PROJECT # : 24324  
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	946084	NON-AQ	09/09/94	09/14/94	09/16/94	1
11	946085	NON-AQ	09/09/94	09/14/94	09/17/94	1
12	946086	NON-AQ	09/09/94	09/14/94	09/15/94	1
PARAMETER			UNITS	10	11	12
BENZENE			MG/KG	1.4	<0.025	<0.025
TOLUENE			MG/KG	6.6	0.031	<0.025
ETHYLBENZENE			MG/KG	0.029	<0.025	<0.025
TOTAL XYLENES			MG/KG	15	<0.025	0.11

## SURROGATE:

BROMOFLUOROBENZENE (%) 82 99 113

# PHASE II

# RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(506) 326-2262 FAX (506) 326-2388

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

Project Name EPNG Pits  
Project Number 14509 Phase 601 G200  
Project Location Hardy #2J, 89040

Elevation \_\_\_\_\_  
Borehole Location T29, R10, S.18, C  
GWL Depth \_\_\_\_\_  
Logged By S.Kelly  
Drilled By M. Donohue  
Date/Time Started 8/9/95, 1345  
Date/Time Completed 8/9/95, 1500

Well Logged By S.Kelly  
Personnel On-Site M. Donohue, J.O'Keefe, R. Rutledge  
Contractors On-Site \_\_\_\_\_  
Client Personnel On-Site \_\_\_\_\_  
Drilling Method 4 1/4" 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 BH S			Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15										
20	1	18-20		SANDY SILT, olive, 5-20% fine sand, dense dry				8 6		410
25				TOB - 20.0'						
30										
35										
40										

Comments:

18'-20' sample (SEK 58) sent to lab (BTEX & TPH)  
Sample was bagged and iced prior to being put in jar.  
BH grouted to surface.

Geologist Signature

Sarah Kelly



## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

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

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK 58	947198
MTR CODE   SITE NAME:	89040	Hanley #2 J
SAMPLE DATE   TIME (Hrs):	08/09/95	14:10
PROJECT:	Phase II Drilling	
DATE OF TPH EXT.   ANAL.:	8/11/95	8/11/95
DATE OF BTEX EXT.   ANAL.:	8/18/95	8/18/95
TYPE   DESCRIPTION:	VG	light grey sand & clay

Field Remarks: \_\_\_\_\_

## RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	20.025	MG/KG	1			
TOLUENE	20.025	MG/KG	1			
ETHYL BENZENE	20.025	MG/KG	1			
TOTAL XYLENES	20.025	MG/KG	1			
TOTAL BTEX	20.10	MG/KG				
TPH (418.1)	48.4	MG/KG			2.09	25
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	91.5	%				

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

The Surrogate Recovery was at 88 for this sample All QA/QC was acceptable.

Narrative:

ATI Results attached

DF = Dilution Factor Used

Approved By: J.L.Date: 8/28/95

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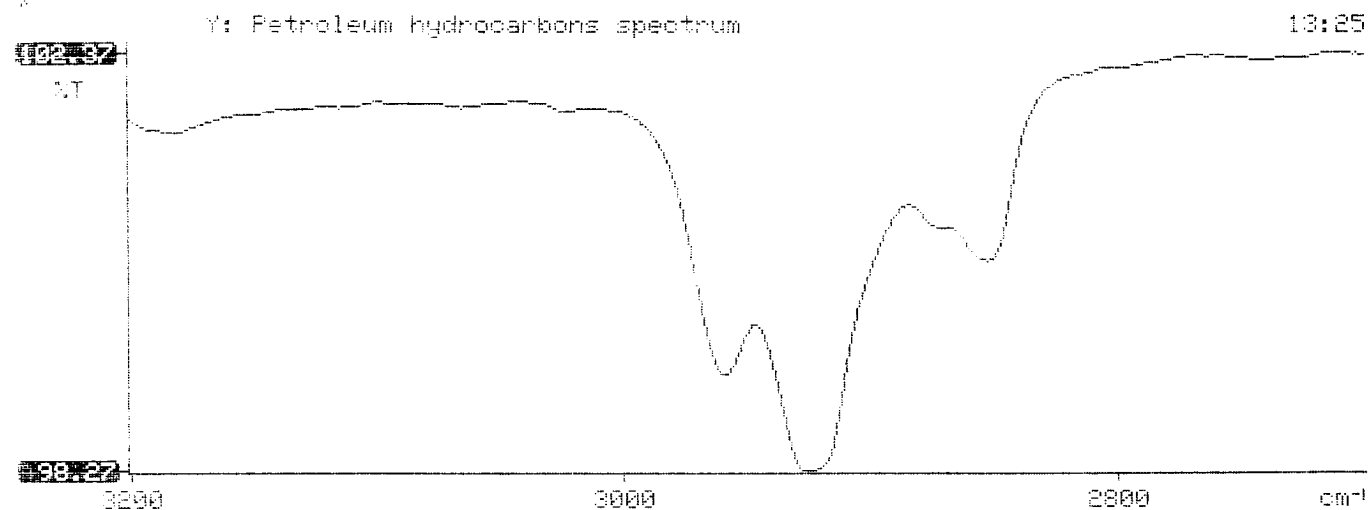
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil      *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                    *
*      Analysis Report      *
*****

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95/08/11 13:25
*
* Sample identification
947198
*
* Initial mass of sample, g
2.090
*
* Volume of sample after extraction, ml
28.000
*
* Petroleum hydrocarbons, ppm
48.443
* Net absorbance of hydrocarbons (2930 cm-1)
0.016
*
*
*

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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. 508390

August 23, 1995

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

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

Attention: John Lambdin

On 08/16/95, 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.

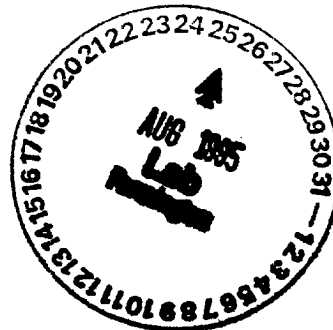
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill  
Project Manager

H. Mitchell Rubenstein, Ph.D.  
Laboratory Manager

MR:jt

Enclosure



# GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)  
 CLIENT : EL PASO NATURAL GAS CO ATI I.D.: 508390  
 PROJECT # : 24324  
 PROJECT NAME : PIT CLOSURE/PHASE II & III

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947198	NON-AQ	08/09/95	08/18/95	08/18/95	1
02	947199	NON-AQ	08/09/95	08/18/95	08/18/95	1
03	947200	NON-AQ	08/09/95	08/18/95	08/18/95	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	0.026	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES	MG/KG	<0.025	0.057	0.058

## SURROGATE:

BROMOFLUOROBENZENE (%)	88	88	93
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