

Dennis Pitt
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Approved
Huerfanito 24-4
Meter/Line ID - 14030

SITE DETAILS

Legals - Twp: 26
NMOCD Hazard Ranking: 20
Operator: Meridian

Sec: 4
Unit: K
Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 6/23/94
Monitor Well: N/A

Excavation: 8/15/94
Re-Excavation: N/A

Soil Boring: 8/4/95
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 soils to be 291 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX was above standards at 103 mg/kg, and TPH was above standards at 3.740 mg/kg. A test boring was advanced in the center of the initial excavation to determine the extent of the impact to soils. The soil lithology consisted of brown sandy clay. A sample was collected for BTEX and TPH analysis at 28-30 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH analysis indicated 95.4 mg/kg present in the soil.

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 16 feet below 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 with time with minimal risk to the environment.

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MAR - 9 1998
OIL CON. DIV.
FILE 3

FIELD PIT SITE ASSESSMENT FORM

10

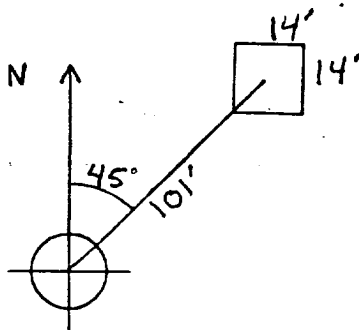
GENERAL	<p>Meter: <u>14030</u> Location: <u>Huerfanito 24-4</u></p> <p>Operator #: <u>2999</u> Operator Name: <u>Meridian P/L</u> District: <u>Ballard</u></p> <p>Coordinates: Letter: <u>K</u> Section <u>4</u> Township: <u>26N</u> Range: <u>9W</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator: _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>6-23-94</u> Area: <u>11</u> Run: <u>51</u></p>																
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>Land Type:</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>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Wellhead Protection Area :</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>Horizontal Distance to Surface Water Body</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>Reed Canyon Wash</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) < 100' (Navajo Pits Only)</p> <p><input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>20</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>one pit on location. Dry</u></p> <p><u>Outside V.Z. on Redline & Topo</u></p> <p><u>Dia & Hawl</u></p>																

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OIL CON. DIV.
DIST. 3

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 45 Footage from Wellhead 101
b) Length : 14 Width : 14 Depth : 3



REMARKS

Remarks :

Photos - 1347

End dump

Completed By:

[Signature]

Signature

6-23-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>14030</u> Location: <u>Huerfano 24-4</u></p> <p>Coordinates: Letter: <u>K</u> Section <u>4</u> Township: <u>26</u> Range: <u>9</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>8-15-94</u> Run: <u>11</u> <u>51</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KP 189</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>291</u> PID Reading Depth <u>12'</u> Feet</p> <p>Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>50</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 type="checkbox"/> Tierra <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>8-15-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>Some LINE markers ON Location.</u></p> <p><u>Started Remediating to 12' soil turned dark gray At 12'</u></p> <p><u>Soil still the same.</u></p>
	<p>Signature of Specialist: <u>Kelly Padilla</u></p>



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

ATI I.D. 408364

August 24, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

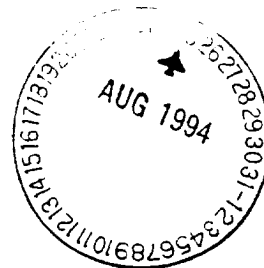
On 08/17/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure





FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP189	9459 24
MTR CODE SITE NAME:	14030	N/A
SAMPLE DATE TIME (Hrs):	8-15-94	1620
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL:	8-16-94	8-16-94
DATE OF BTEX EXT. ANAL:	8/17/94	8/20/94
TYPE DESCRIPTION:	VC	Grey sand / clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.3	MG/KG	50			
TOLUENE	<1.3	MG/KG	50			
ETHYL BENZENE	3.9	MG/KG	50			
TOTAL XYLENES	96	MG/KG	50			
TOTAL BTEX	103	MG/KG				
TPH (418.1)	3740	MG/KG			2.12	28
HEADSPACE PID	291	PPM				
PERCENT SOLIDS	93.9	%				

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

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

Narrative:

ATT results attached. Surrogate recovery not obtainable due to sample dilution

DF = Dilution Factor Used

Approved By:

J. L.

Date:

9/2/94

Test Method for
Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

04/05/16 14:10

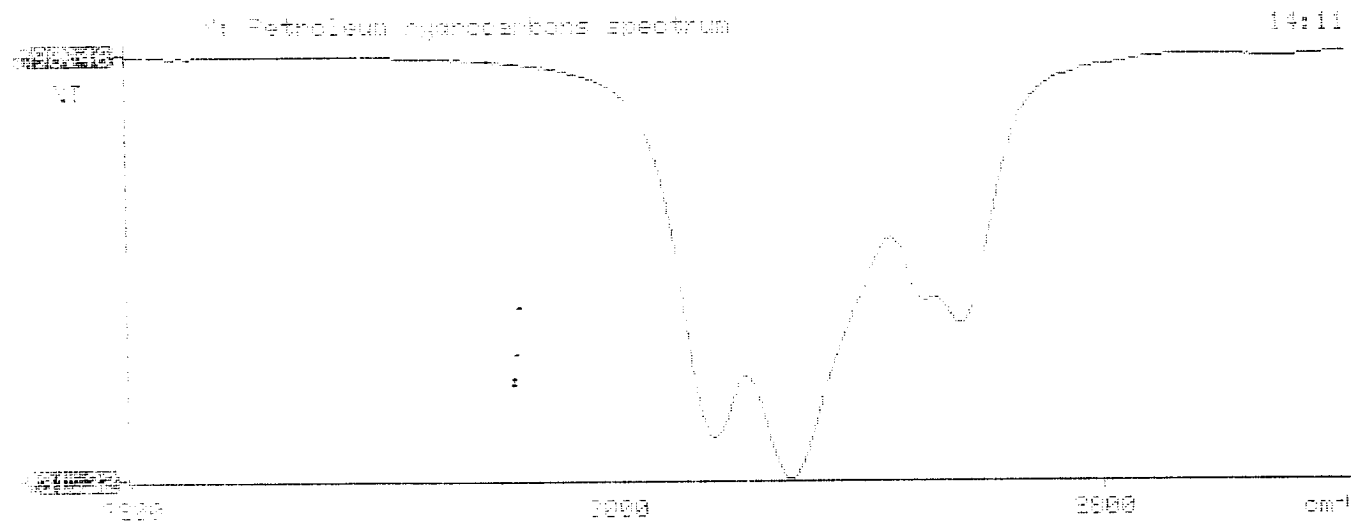
Sample Identification
005537

Initial mass of sample, g
0.120

Volume of sample after extraction, ml
20.000

Petroleum hydrocarbons, ppm
8744.066

Net absorbance of hydrocarbons (2930 cm⁻¹)
0.497



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
 CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408364
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
22	945934	NON-AQ	08/15/94	08/17/94	08/20/94	50
23	945935	NON-AQ	08/15/94	08/17/94	08/20/94	1
24	945936	NON-AQ	08/15/94	08/17/94	08/20/94	1
PARAMETER			UNITS	22	23	24
BENZENE			MG/KG	<1.3	<0.025	<0.025
TOLUENE			MG/KG	<1.3	<0.025	<0.025
ETHYLBENZENE			MG/KG	3.9	<0.025	<0.025
TOTAL XYLENES			MG/KG	96	<0.025	<0.025

SURROGATE:

BROMOFLUOROBENZENE (%)	NA*	85	85
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*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

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 Huerfano 24-4, 14030

Elevation _____
Borehole Location T 26N, R 9W, S 4, K
GWL Depth _____
Logged By Jeff W. Kindley
Drilled By G. Sudduth
Date/Time Started 08/04/95 1425
Date/Time Completed 08/04/95 1550

Well Logged By Jeff W. Kindley
Personnel On-Site G. Sudduth, J. Long, D. Roberts
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/H S			Drilling Conditions & Blow Counts
0				Backfill material to 12'						
5										
10										
15										
20	1	18-20'	$\frac{.9}{2.0}$	clayey sand (30% clay) gray/brown, medium/coarse grained (sand dry, clay moist)					339/180	1448
25	2	23-25'	$\frac{.7}{2.0}$	Sandy clay (25% sand) dark gray, stiff, very dry					25/145	1455
30	3	28-30'	$\frac{.6}{2.0}$	S.A.A. Boring terminated at 30'					0/6	1512
35										
40										

Comments:

Sample collected from 28' to 30', Analyzed for BTEX, TPH. BH grouted to surface.

Geologist Signature

Jeff W. Kindley



Analytical **Technologies**, Inc.

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

ATI I.D. 508367

August 17, 1995

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

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

Attention: John Lambdin

On 08/11/95, 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





FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK 7	947154
MTR CODE SITE NAME:	14030	Huerfano No. 24-4
SAMPLE DATE TIME (Hrs):	08/04/95	15:12
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8-7-95	8-7-95
DATE OF BTEX EXT. ANAL.:	8-12-95	8-12-95
TYPE DESCRIPTION:	V6	Grey clay

Field Remarks: (28-30')

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	LO.025	MG/KG	1			
TOLUENE	LO.025	MG/KG	1			
ETHYL BENZENE	LO.025	MG/KG	1			
TOTAL XYLENES	0.040	MG/KG	1			
TOTAL BTEX	0.040	MG/KG				
TPH (418.1)	95.4	MG/KG			2.01	28
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	93.2	%				

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

The Surrogate Recovery was at 111 for this sample All QA/QC was acceptable.

Narrative:

AT 1 Results attached.

DF = Dilution Factor Used

Approved By:

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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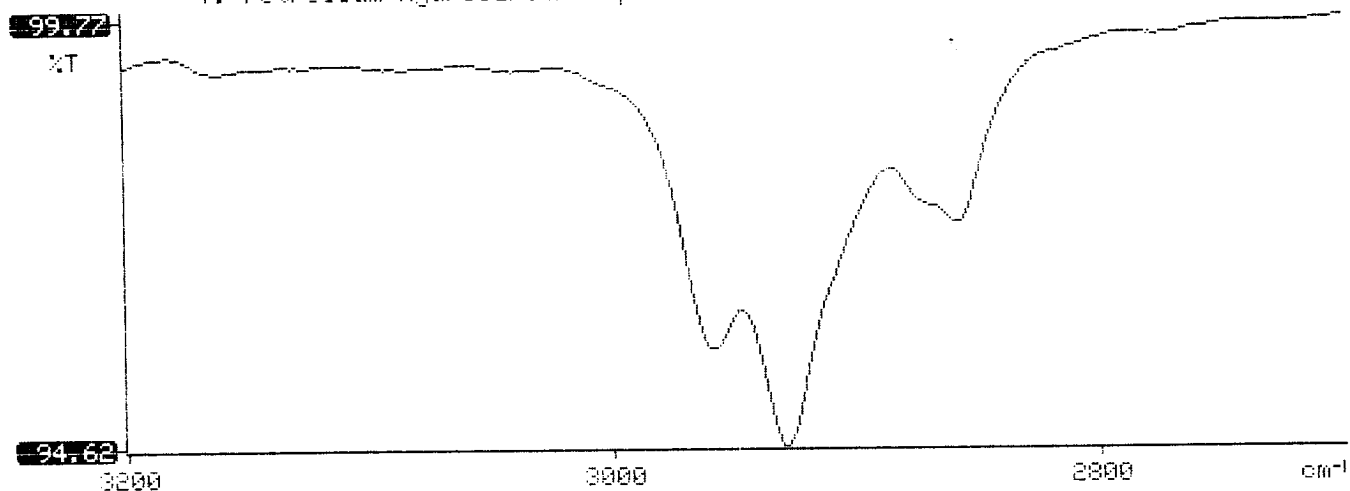
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* 95/08/07 13:53
*
* Sample identification
* 947154
*
* Initial mass of sample, g
* 2.010
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 95.373
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.022
*
*
*

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Y: Petroleum hydrocarbons spectrum

13:53





Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 508367
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE I, II & III

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947153	NON-AQ	08/04/95	08/12/95	08/12/95	1
02	947154	NON-AQ	08/04/95	08/12/95	08/12/95	1
03	947155	NON-AQ	08/04/95	08/12/95	08/12/95	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	<0.025
TOTAL XYLENES	MG/KG	<0.025	0.040	<0.025

SURROGATE:

BROMOFLUOROBENZENE (%)	109	111	109
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