

EPES PIT CLOSURE SUMMARY

Denny A. Smith
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998
Approved

Schultz No. 1
Meter/Line ID - 71033

SITE DETAILS

Legals - Twn: 27 Rng: 8
NMCD Hazard Ranking: 40
Operator: Meridian

Sec: 16 Unit: G
Land Type: STATE

PREVIOUS ACTIVITIES

Site Assessment: 6/10/94
Monitor Well: N/A

Excavation: 8/2/94
Re-Excavation: N/A

Soil Boring: 7/24/95
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 211 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 above standards at 52 mg/kg and TPH was above standards at 2,910 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soils. The soil lithology beneath the initial excavation consisted of a gray sandy clay, which continued to approximately 25 feet bgs. At 25 feet bgs a brown fine grained sand was encountered and continued to the termination of the boring at 32 feet bgs. A sample was collected for BTEX and TPH analysis at 30-32 feet bgs. Laboratory analysis showed total BTEX to be below laboratory detection limits and TPH present at 14.7 mg/kg.

RECOMMENDATIONS

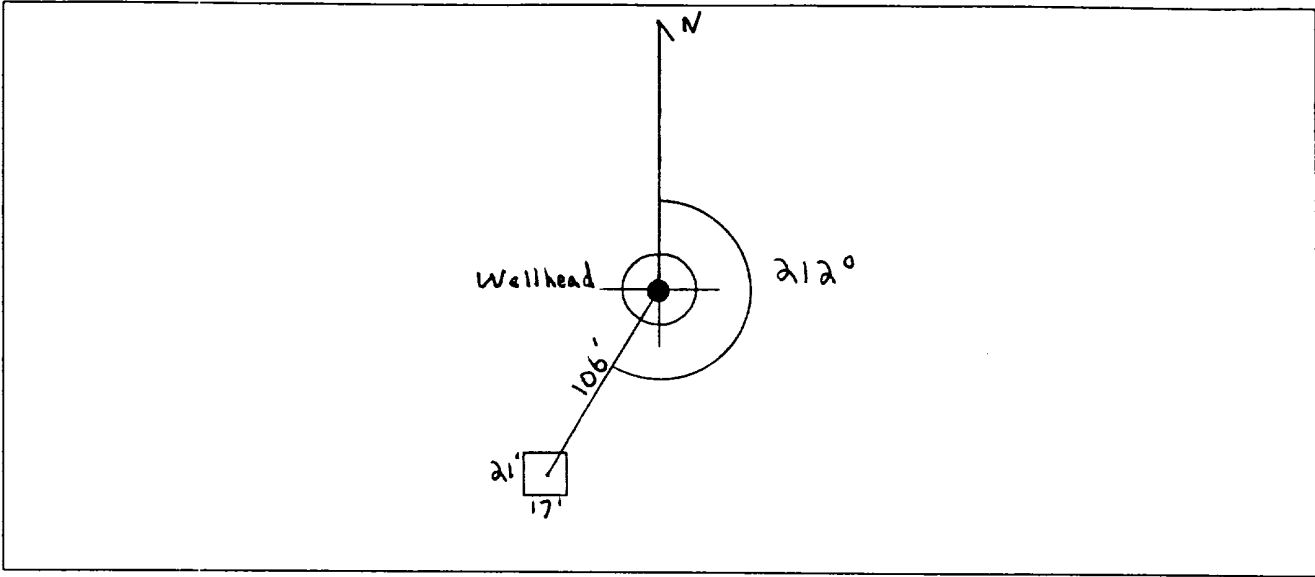
No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 18 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

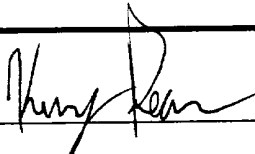
GENERAL	<p>Meter: <u>71033</u> Location: <u>Schultz No 1</u> Operator #: <u>2999</u> Operator Name: <u>MOI</u> P/L District: <u>Ballard</u> Coordinates: Letter: <u>G</u> Section <u>16</u> Township: <u>27</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____ Site Assessment Date: <u>6/10/94</u> Area: <u>07</u> Run: <u>32</u></p>
	<p>NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input type="checkbox"/> (1) State <input checked="" type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater 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>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body 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>Star Canyon (off of Largo)</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline Book - Inside, Vulnerable Area Top - Inside</u> <u>1 pit. Will close. Pit Dry. Meter show Meridian Oil as operator. Location sign says EPNG</u></p> <p style="text-align: right;"><u>DIG + HAUL</u></p>

ORIGINAL PIT LOCATION	<div data-bbox="632 291 1083 335" data-label="Section-Header"><p>ORIGINAL PIT LOCATION</p></div> <div data-bbox="206 352 1524 457" data-label="Text"><p>Original Pit : a) Degrees from North <u>212°</u> Footage from Wellhead <u>106'</u> b) Length : <u>21'</u> Width : <u>17'</u> Depth : <u>2'</u></p></div> <div data-bbox="209 501 1524 1078" data-label="Diagram"></div>
REMARKS	<div data-bbox="201 1139 406 1178" data-label="Text"><p>Remarks :</p></div> <div data-bbox="201 1178 806 1283" data-label="Text"><p><u>Pictures @ 1242 (1-4) roll 1</u> <u>End Dump</u></p></div>
	<div data-bbox="201 1740 460 1782" data-label="Text"><p>Completed By:</p></div> <div data-bbox="295 1804 814 1940" data-label="Text"><p><u>Cory Chase</u> Signature</p></div> <div data-bbox="1067 1832 1232 1940" data-label="Text"><p><u>6/10/99</u> Date</p></div>

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PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>71033</u> Location: <u>Shultz #1</u></p> <p>Coordinates: Letter: <u>G</u> Section <u>16</u> Township: <u>27</u> Range: <u>8</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>8/2/94</u> Run: <u>07</u> <u>32</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 182</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>211 ppm</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 checked="" type="checkbox"/> Tierra <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>8/2/94</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>Excavated pit to 12', TOOK PID Sample, closed pit</u></p> <p>_____</p> <p>_____</p>
	<p>Signature of Specialist: <u></u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 182	945813
MTR CODE SITE NAME:	71033	N/A
SAMPLE DATE TIME (Hrs):	8-2-94	1415
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8/4/94	8/4/94
DATE OF BTEX EXT. ANAL.:	8/8/94	8/8/94
TYPE DESCRIPTION:	VL	Brown Sand/Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	LO.25	MG/KG	10			
TOLUENE	LO.25	MG/KG	10			
ETHYL BENZENE	LO.25	MG/KG	10			
TOTAL XYLENES	51	MG/KG	10			
TOTAL BTEX	52	MG/KG				
TPH (418.1)	2910	MG/KG			1.37	28
HEADSPACE PID	211	PPM				
PERCENT SOLIDS	86.9	%				

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

The Surrogate Recovery was at 192 % 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: J.S.

Date: 9/2/94

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

04/06/04 12:54

Sample identification

143813

Initial mass of sample, g

1.17

Volume of sample after extraction, ml

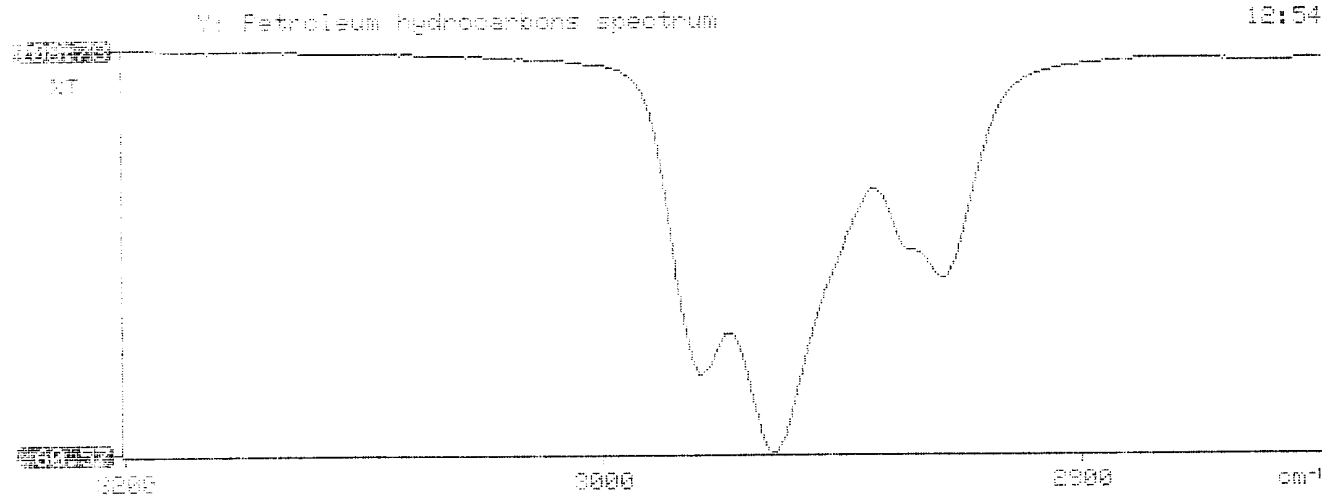
26.000

Petroleum hydrocarbons, ppm

9505.574

Net absorbance of hydrocarbons (2930 cm⁻¹)

0.051





Analytical **Technologies, Inc.**

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

ATI I.D. 408328

August 11, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/05/94, 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.

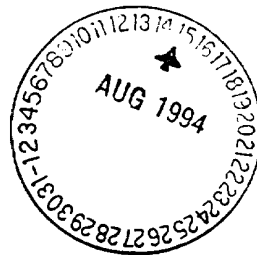
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

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.: 408328
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945812	NON-AQ	08/02/94	08/08/94	08/08/94	10
02	945813	NON-AQ	08/02/94	08/08/94	08/08/94	10
03	945814	NON-AQ	08/02/94	08/08/94	08/10/94	20
PARAMETER			UNITS	01	02	03
BENZENE			MG/KG	<0.25	<0.25	<0.5
TOLUENE			MG/KG	<0.25	<0.25	<0.5
ETHYLBENZENE			MG/KG	6.2	<0.25	1.0
TOTAL XYLENES			MG/KG	74	51	140

SURROGATE:

BROMOFLUOROBENZENE (%) 130* 192* 305*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

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

Schultz #1

71033

Elevation

Borehole Location OG-S16-T27-R8

GWL Depth

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 7/24/95 - 0830

Date/Time Completed 7/24/95 - 0950

Well Logged By

CM Chance

Personnel On-Site

K Padilla, F. Rivera, D. Gatto

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			Drilling Conditions & Blow Counts
							BZ	BH	HS	
0				Backfill to 12'						
5										
10										
15	1	15-17	20"	Gry sandy CLAY, vF sand, soft, low plastic, moist, sl odor			0	3A	$\frac{272}{226}$	0827 hr
20	2	20-22	12"	Br clayey SAND, vF-F sand, v. loose, v. moist			0	85	$\frac{465}{428}$	0835 let BH set for 15 min no water.
25	3	25-27	20"	Br SAND, abut silt, vF-F sand, tr med, loose, sl moist			1	8A	$\frac{52}{41}$	0847
30	4	30-32	8"	AA, dry			0	45	$\frac{2}{2}$	0856
35				TOB 32'						
40										

Comments:

CMC 70 (30-32) sent to lab (BTEX, TPH). BH grouted to surface

Geologist Signature

Cam Chance



Phase II Drilling
Shultz #1

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC 70	947067
MTR CODE SITE NAME:	71033	N/A
SAMPLE DATE TIME (Hrs):	07-24-95	08:56
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	7-25-95	7-25-95
DATE OF BTEX EXT. ANAL.:	7-27-95	7-27-95
TYPE DESCRIPTION:	V6	Brown fine sand

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)	^{100%} 7/27/95 15 14.7	MG/KG			1.98	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	93.5	%				

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

The Surrogate Recovery was at 103 % for this sample All QA/QC was acceptable.

Narrative:

ATT Results attached

DF = Dilution Factor Used

Approved By: JS

Date:

8/22/95

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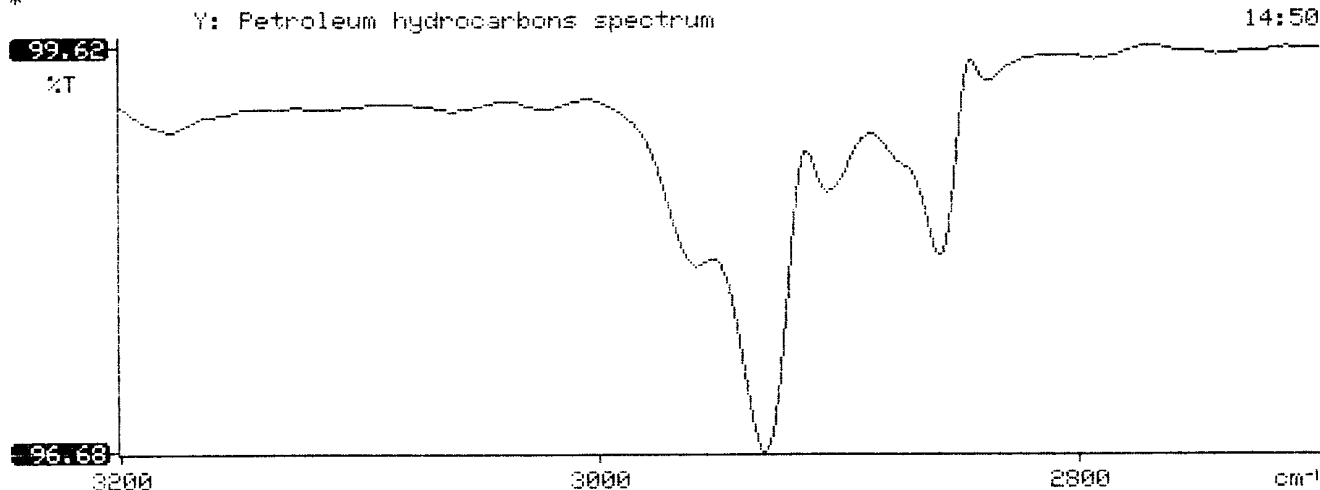
*****
*                               *
*      Test Method for          *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil       *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                    *
*      Analysis Report      *
*****

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*      95/07/25  14:49
*
*      Sample identification
*      947067
*
*      Initial mass of sample, g
*      1.980
*
*      Volume of sample after extraction, ml
*      28.000
*
*      Petroleum hydrocarbons, ppm
*      14.664
*      Net absorbance of hydrocarbons (2930 cm-1)
*      0.012
*
*
*

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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. 507411

August 3, 1995

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

Project Name/~~Number~~: PIT CLOSURE/PHASE II DRILLING 24324

Attention: John Lambdin

On 07/27/95, 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.

EPA method 8015 analyses were added on 07/27/95 for samples "947068", "947069" and "947077" per Kim Kirby.

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 CO. ATI I.D.: 507411
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE II DRILLING

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947067	NON-AQ	07/24/95	07/27/95	07/27/95	1
02	947068	NON-AQ	07/24/95	07/27/95	07/27/95	50
03	947069	NON-AQ	07/24/95	07/27/95	07/27/95	50
PARAMETER			UNITS	01	02	03
BENZENE			MG/KG	<0.025	<1.3	<1.3
TOLUENE			MG/KG	<0.025	2.8	<1.3
ETHYLBENZENE			MG/KG	<0.025	4.1	4.1
TOTAL XYLENES			MG/KG	<0.025	37	44

SURROGATE:

BROMOFLUOROBENZENE (%)	103	113	91
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