

EPFS PIT CLOSURE SUMMARY

Penny E. Faust
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Huerfanito No. 13-1
Meter/Line ID - 71097

SITE DETAILS

Approved
Legals- Twn: 26 Rng: 9
NMOCD Hazard Ranking: 30
Operator: Meridian

Sec: 1 Unit: N
Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 6/22/94
Monitor Well: N/A

Excavation: 8/11/94
Re-Excavation: N/A

Soil Boring: 8/19/95
Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to 9 feet below ground surface (bgs). PID Field screening indicated soils to be below 100 ppm at 9 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated BTEX compounds were below standards, but TPH was above standards at 1,460 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 sand and a soil sample was collected for BTEX and TPH analysis at 13-15 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH analysis indicated 26.7 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 4 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 in time with minimal risk to the environment.

RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 71097 Location: Huerfano No. 13-1
 Operator #: 2999 Operator Name: Meridian P/L District: Ballard
 Coordinates: Letter: N Section 1 Township: 26N Range: 9W
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 6-22-94 Area: 11 Run: 91

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

Land Type:

BLM ☒ (1)

State ☐ (2)

Fee ☐ (3)

Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☒ (1)

50 Ft to 99 Ft (10 points) ☐ (2)

Greater Than 100 Ft (0 points) ☐ (3)

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? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☐ (1)

200 Ft to 1000 Ft (10 points) ☒ (2)

Greater Than 1000 Ft (0 points) ☐ (3)

Name of Surface Water Body Reed Canyon Wash

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 30 POINTS

REMARKS

Remarks : one pit on location - Dry

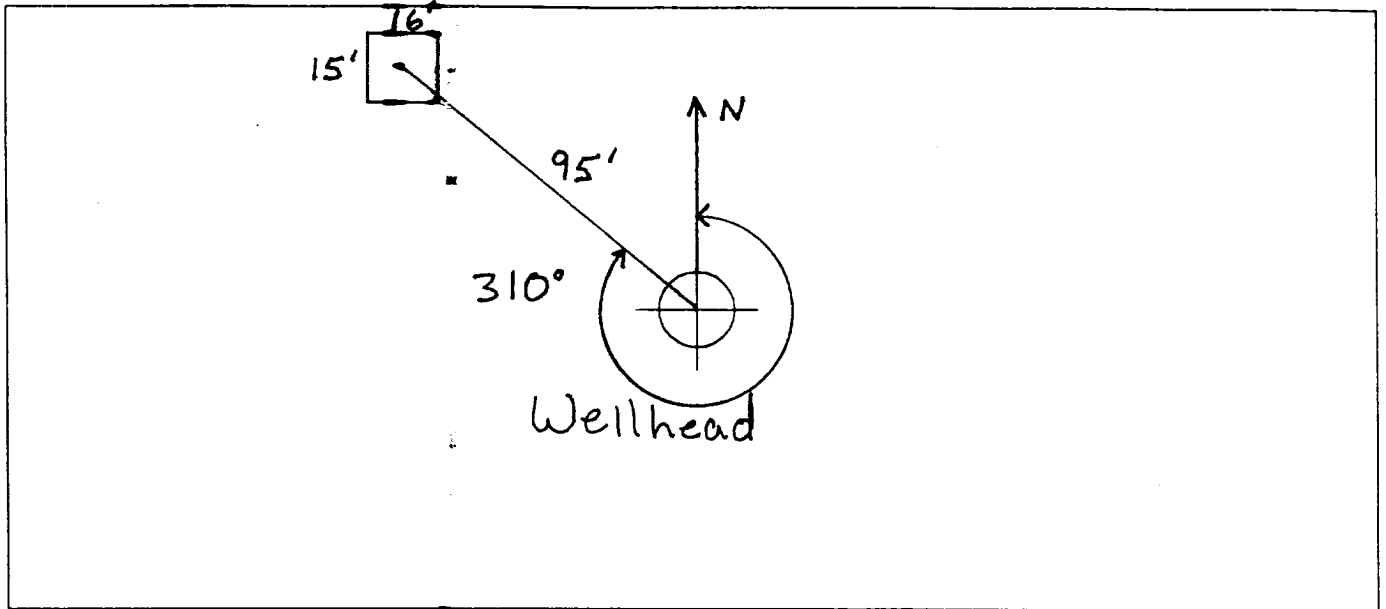
Inside V.Z. on Redline & Topo

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ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 310 Footage from Wellhead 95
b) Length : 16 Width : 15 Depth : 3



REMARKS

Remarks :

Photos- 0918Bobtail

Completed By:

Signature

6-22-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>71097</u> Location: <u>Huerfano No. 13-1</u></p> <p>Coordinates: Letter: <u>N</u> Section <u>1</u> Township: <u>26</u> Range: <u>9</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>8-11-94</u> Run: <u>11</u> <u>91</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KP180</u></p> <p>Sample Depth: <u>9'</u> Feet</p> <p>Final PID Reading <u>038</u> PID Reading Depth <u>9'</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>40</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>8-11-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>Some line markers on location started digging</u> <u>Soil turned dark gray. At 9' soil looked clean took sample</u> <u>038 closed pit</u></p> <p>Signature of Specialist: <u>Kelly Padilla</u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP180	945906
MTR CODE SITE NAME:	71097	N/A
SAMPLE DATE TIME (Hrs):	8-11-94	1333
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-16-94	8/16/94
DATE OF BTEX EXT. ANAL.:	8/17/94	8/19/94
TYPE DESCRIPTION:	VC	Brown med 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	0.116	MG/KG	1			
TOTAL XYLENES	0.42	MG/KG	1			
TOTAL BTEX	0.63	MG/KG				
TPH (418.1)	1460	MG/KG			2.14	28
HEADSPACE PID	38	PPM				
PERCENT SOLIDS	91.1	%				

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

The Surrogate Recovery was at 112 % for this sample All QA/QC was acceptable.
Narrative:

ATI results attached.

DF = Dilution Factor Used

Approved By:

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

74/08/16 12:37

1 Sample Identification C
 945906

2 Initial mass of sample, g
 2.140

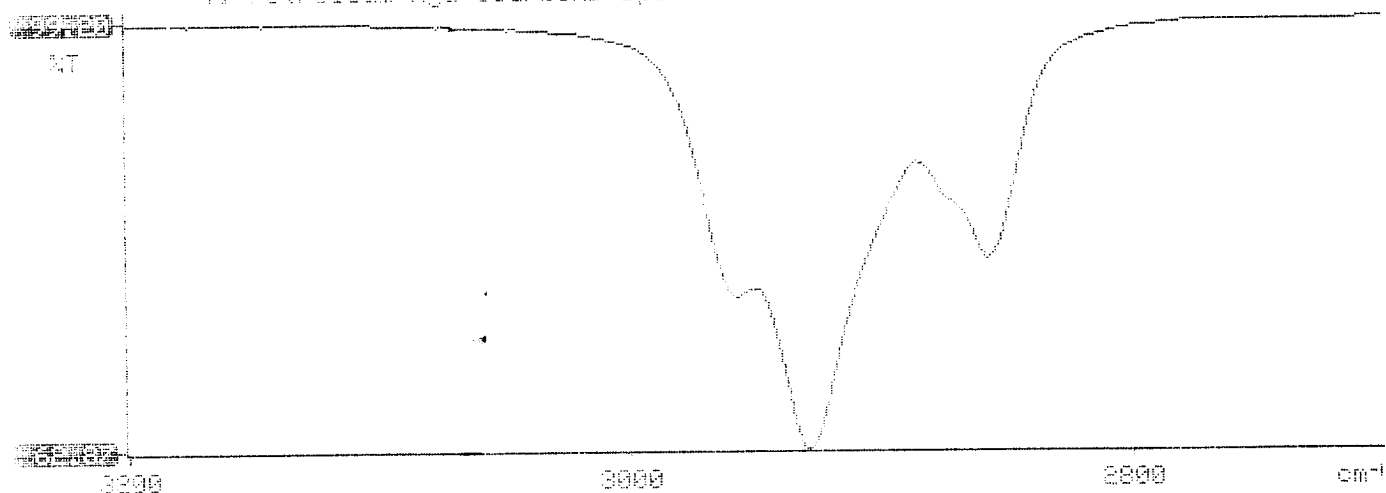
3 Volume of sample after extraction, ml
 55.000

4 Petroleum hydrocarbons, ppm
 1462.543

5 Net absorbance of hydrocarbons (2930 cm-1)
 0.197

Y: Petroleum hydrocarbons spectrum

12:37





Analytical **Technologies**, Inc.

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

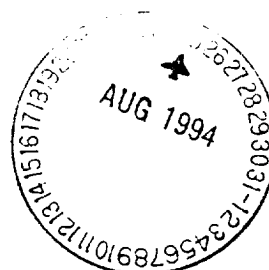
On 08/17/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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





Analytical Technologies, Inc.

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
07	945904	NON-AQ	08/11/94	08/17/94	08/19/94	1
08	945905	NON-AQ	08/11/94	08/17/94	08/19/94	1
09	945906	NON-AQ	08/11/94	08/17/94	08/19/94	1

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	0.067	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	0.16
TOTAL XYLENES	MG/KG	<0.025	<0.025	0.42

SURROGATE:

BROMOFLUOROBENZENE (%)	99	91	112
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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

JWX33

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location Huerfano No 13-1 7/10/97

Elevation _____
Borehole Location T 26N, R 9W, S 1, N
GWL Depth _____
Logged By Jeff W. Kindley
Drilled By G. Sudduth
Date/Time Started 08/19/95 0817
Date/Time Completed 08/19/95 0853

Well Logged By Jeff W. Kindley
Personnel On-Site G. Sudduth, A. Albite, J. Len
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	S/H/S	
0				Backfill						
5				material to 9'						
10										
15	1	13-15'	1.5 2.0	SW, brown sand, moist, loose, no odor Boring terminated at 15'					0	US33 9 blows per Foot
20										
25										
30										
35										
40										

Comments:

Soil sample collected at 13 to 15 feet and analyzed for BTEX and TPH. BH grouted to the surface.

Geologist Signature

Jeffrey Kindley



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK 33	947276
MTR CODE SITE NAME:	71097	Huerfano No. 13-1
SAMPLE DATE TIME (Hrs):	08-19-95	08:33
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/21/95	8-21-95
DATE OF BTEX EXT. ANAL.:	8/23/95	8/23/95
TYPE DESCRIPTION:	YG	Brown Sand (fine)

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	^{288/23/95} 2726.7	MG/KG			2.02	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	96.4	%				

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

The Surrogate Recovery was at 106% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

JP

Date:

8/28/95

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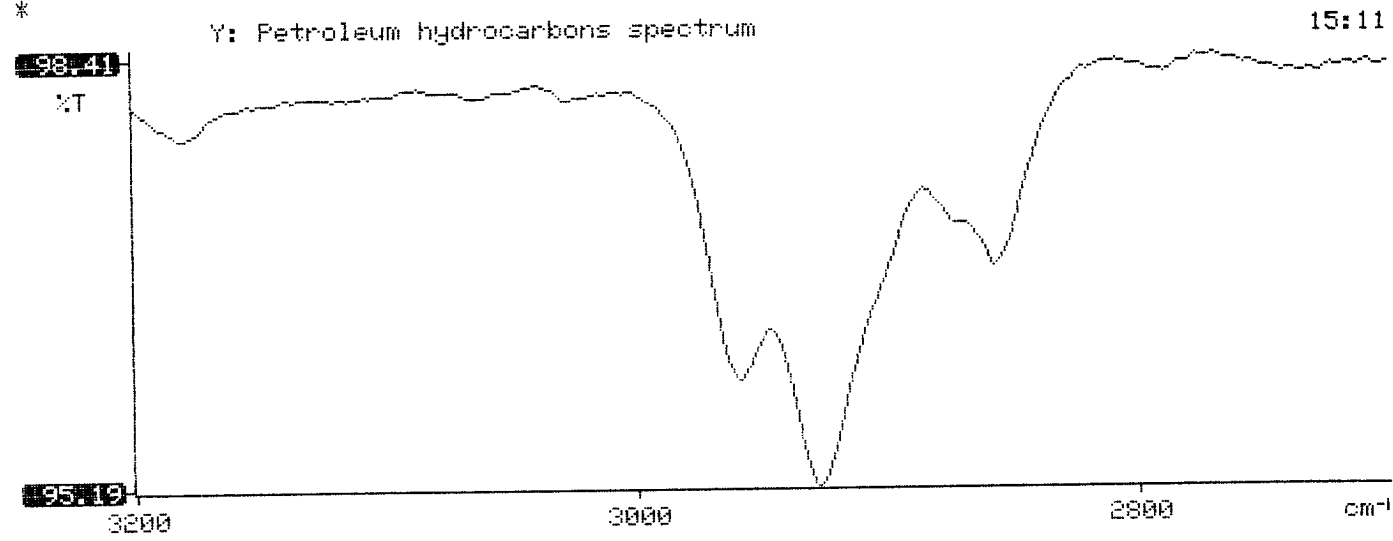
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil      *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                  *
*      Analysis Report                           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

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*
* 95/08/21 15:11
*
* Sample identification
* 947276
*
* Initial mass of sample, g
* 2.020
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 26.678
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.014
*
*
*

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BTEX SOIL SAMPLE WORKSHEET

File	:	947276	Date Printed	:	8/25/95
Soil Mass (g)	:	4.97	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20121

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.503
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.503
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.503
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.006
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.503
			Total xylenes (mg/Kg):	0.000 1.509
			Total BTEX (mg/Kg):	0.000

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082395-1.009
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 947276,4.97G,100U
 Acquired : Aug 23, 1995 21:16:04
 Printed : Aug 23, 1995 21:42:17
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.420	0	0.0000
a,a,a TFT	4.943	5160352	99.2190
TOLUENE	6.787	63540	-0.5717
ETHYLBENZENE	10.453	0	0.0000
M & P XYLENE	10.883	52851	-5.0216
O XYLENE	11.933	0	0.0000
BFB	13.417	76419200	106.0881

C:\LABQUEST\CHROM001\082395-1.009 - Channel A

