DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Jones A 2
Meter/Line ID - 70998

SITE DETAILS

Legals - Twn: 28 **Rng:** 8 **Sec:** 11 **Unit:** D

NMOCD Hazard Ranking: 40 **Land Type:** BLM

Operator: Amoco

PREVIOUS ACTIVITIES

Site Assessment: 5/20/94 **Excavation:** 6/13/94 **Soil Boring:** 9/6/95

Monitor Well: N/A **Re-Excavation:** N/A - **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 733 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 329 mg/kg, and TPH was above standards at 10,300 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A grayish-brown silty sand was encountered at 15 feet bgs and continued to the termination of the boring at 17 bgs. A soil sample was collected for BTEX and TPH analysis at 15-17 feet bgs. Laboratory analysis showed all BTEX compounds to be below laboratory detection limits and TPH present at 36.7 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 3 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.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 70998 Location: JONES A 2
Operator #: 0203 Operator Name: AMOCO P/L District: BLANCO
Coordinates: Letter: D Section 11 Township: 28 Range: 8
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: ✓ Line Drip: ___ Other: _____
Site Assessment Date: 5/20/94 Area: 13 Run: 62

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

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 Jasis Canyon

RECEIVED
MAR - 9 1993
OIL CON. DIV.
DIST. 3

(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: 40 **POINTS**

REMARKS

Remarks : Redline & Vols. - Inside
2 pits. Closed. Pit Dry

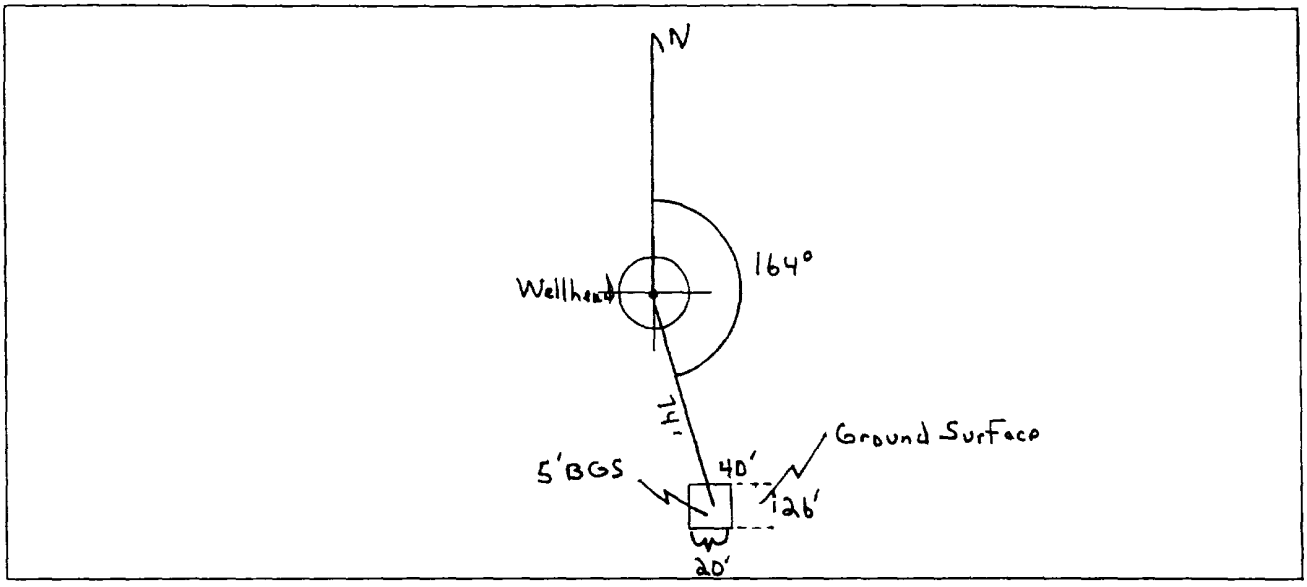
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 164° Footage from Wellhead 74'

b) Length : 40' Width : 26' Depth : 5'



REMARKS

Remarks :

Pictures @ 150' (6-9)

Dump Truck

Actual pit is 26'x20'x5'. A 40'x26' berm + ~~Fence~~ Fence surround pit

Completed By:

Cory Chase
Signature

5/20/94
Date

PHASE I EXCAVATION

FIEI PIT REMEDIATION/CLOSU E FORM

GENERAL

Meter: 70998 Location: JONES A #2

Coordinates: Letter: D Section 11 Township: 28 Range: 8

Or Latitude _____ Longitude _____

Date Started : 6-13-94 Area: 13 Run: 62

FIELD OBSERVATIONS

Sample Number(s): KP # 100 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 733 PID Reading Depth 12' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 70

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 6-13-94 Pit Closed By: BEI

REMARKS

Remarks : Some Line markers. Started Remediating 12' soil Looks Black. At 12 soil still same.

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

40

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP100	945435
MTR CODE | SITE NAME:	70998	N/A
SAMPLE DATE | TIME (Hrs):	6-13-94	1047
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6/16/94	6/16/94
DATE OF BTEX EXT. | ANAL.:	6/17/94	6/20/94
TYPE | DESCRIPTION:	VC	Brown Fine Sand/Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.50	MG/KG	20			
TOLUENE	33	MG/KG	20			
ETHYL BENZENE	15	MG/KG	20			
TOTAL XYLENES	280	MG/KG	20			
TOTAL BTEX	329	MG/KG				
TPH (418.1)	10,300	MG/KG			1.02	28
HEADSPACE PID	733	PPM				
PERCENT SOLIDS	67.5	%				

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

The Surrogate Recovery was at 123 % for this sample All QA/QC was acceptable.

Narrative:
ATI results attached. Surrogate recovery exceeded ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By: Date: 7/07/94

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

Perkin-Elmer Model 1600 FT-IR
Analysis Report

94/06/16 15:36

Sample identification
745435

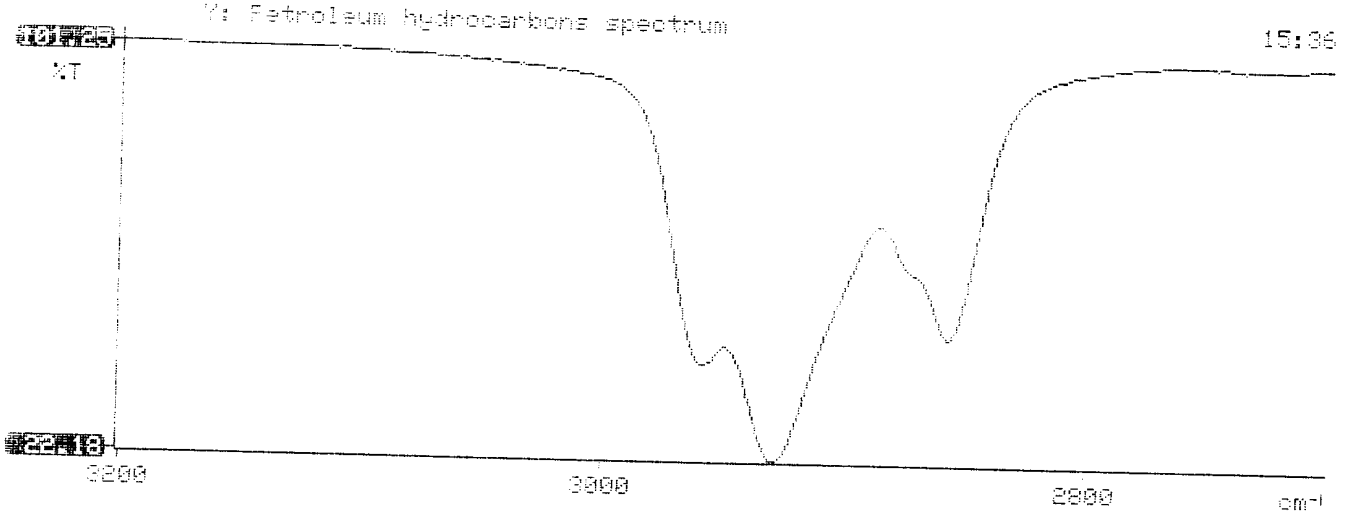
Initial mass of sample, g
1.020

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
10278.570

Net absorbance of hydrocarbons (2930 cm-1)
0.655

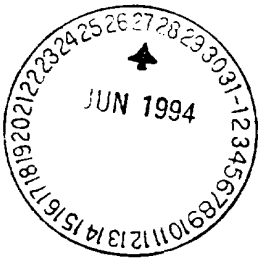
Y: Petroleum hydrocarbons spectrum



Analytical Technologies, Inc.

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

ATI I.D. **406367**



June 24, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/17/94**, 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.

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.: 406367
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945433	NON-AQ	06/13/94	06/17/94	06/20/94	1
02	945434	NON-AQ	06/13/94	06/17/94	06/20/94	100
03	945435	NON-AQ	06/13/94	06/17/94	06/20/94	20

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<2.5	<0.50
TOLUENE	MG/KG	0.034	<2.5	33
ETHYLBENZENE	MG/KG	<0.025	30	15
TOTAL XYLENES	MG/KG	<0.025	570	280
SURROGATE:				
BROMOFLUOROBENZENE (%)		96	73	123*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.
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 Jones AZ 70998

Elevation
Borehole Location QQ-SW-T28-R8
GWL Depth
Logged By Phillip Moss
Drilled By K. Padilla
Date/Time Started 9/6/95 / 10:53
Date/Time Completed 9/6/95 / 11:33

Well Logged By Phillip Moss
Personnel On-Site K. Padilla, P. Moss, E. Rivera
Contractors On-Site
Client Personnel On-Site M. Gonzales

Drilling Method 4 1/4 I.D. 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	Drilling Conditions & Blow Counts
0				Back fill to 12'.						
5										
10										
15	1	15-17	SS 14"	silty SAND, fine-grained, loose, grayish brown, no odor, moist.	SM		.2	1	35/5	11:01
				TD - 17'						
20										
25										
30										
35										
40										

Comments: PLM 6 (15-17') sent to lab (BTEX, TPH). BH grouted to the surface.

Geologist Signature Phillip L. Moss

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	PLM6	947407
MTR CODE | SITE NAME:	70998	Jones A 2
SAMPLE DATE | TIME (Hrs):	09-06-95	1101
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9-8-95	
DATE OF BTEX EXT. | ANAL.:	9/8/95	9/11/95
TYPE | DESCRIPTION:	VG	DARK BROWN SAND+CLAY

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	36.7	MG/KG			2.01	28
HEADSPACE PID	5	PPM				
PERCENT SOLIDS	92.8	%				

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

The Surrogate Recovery was at 92.9% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 9-13-95

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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                       *
**********************************************************
*
 95/09/08  14:01
*
*  Sample identification
 947407
*
*  Initial mass of sample, g
 2.010
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 36.730
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.015
*
*
*
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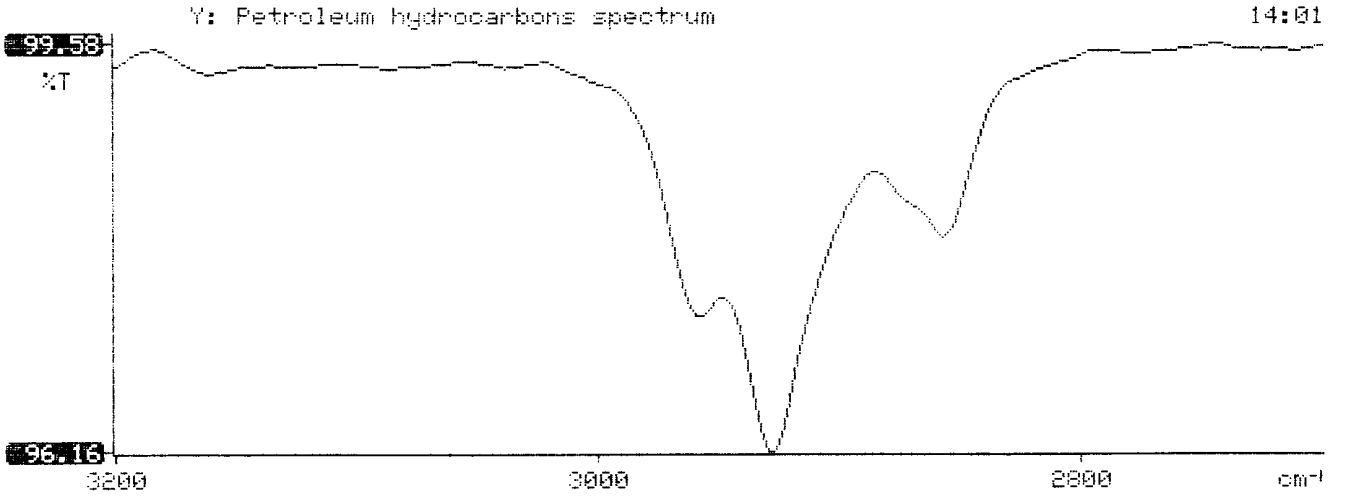

BTEX SOIL SAMPLE WORKSHEET

File	947407	**Date Printed**	9/12/95
Soil Mass (g)	4.95	**Multiplier (L/g)**	0.00101
Extraction vol. (mL)	20	**DF (Analytical)**	200
Shot Volume (uL)	100	**DF (Report)**	0.20202

				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.505
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.505
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.505
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	1.010
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.505
		Total xylenes (mg/Kg):	**0.000**	1.515
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\091195-1.008
Method : C:\LABQUEST\METHODS\9001:MET
Sample ID : 947407,4.95G,100U
Acquired : Sep 11, 1995 22:20:47
Printed : Sep 11, 1995 22:47:09
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.410	0	0.0000
a,a,a TFT	4.963	3097739	89.7040
TOLUENE	6.800	51517	-0.6812
ETHYLBENZENE	10.513	0	0.0000
M & P XYLENE	10.927	149647	-3.8172
O XYLENE	11.927	0	0.0000
BFB	13.467	55260992	92.2166