EPFS PIT CLOSURE SUMMARY

Denny G. Foust

DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

MKL # 3
Meter/Line ID - 70069

Approved

SITE DETAILS

Legals - Twn: 26 **Rng:** 7
Sec: 6 **Unit:** P
NMOCD Hazard Ranking: 20
Land Type: FEE
Operator: Louis Dreyfus

PREVIOUS ACTIVITIES

Site Assessment: 6/15/94 **Excavation:** 7/22/94 **Soil Boring:** 7/31/95
Monitor Well: N/A **Re-Excavation:** N/A **Geoprobe:** N/A

CONCLUSIONS

The test pit 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 1 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 below standards at 0.12 mg/kg and TPH was above standards at 115 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of the impact to soils. A light brown sandstone was encountered at 18 feet bgs and continued to 28 feet bgs. At 28 feet bgs a brown dense siltstone was encountered and continued to the termination of the boring at 28.5 feet bgs. A sample was collected for BTEX and TPH analysis at 28-28.5 feet bgs. Laboratory analysis showed total BTEX to be below laboratory detection limits and TPH present at 63.2 mg/kg. The 28-28.5 foot soil sample was reanalyzed for TPH by USEPA method 8015 modified and results were below laboratory detection limits for the C14-C30 range hydrocarbons.

RECOMMENDATIONS

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

- Test boring sample results indicated soils below standards 16 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: 70069 Location: MKL #3

Operator #: 0448 Operator Name: LOUIS DREYFUS P/L District: BALLARD

Coordinates: Letter: P Section 6 Township: 26 Range: 7

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____

Site Assessment Date: 6.15.94 Area: 07 Run: 51

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 _____

(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'

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

TOTAL HAZARD RANKING SCORE: 20 **POINTS**

REMARKS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS EAST OF HEIFER CANYON AND A LITTLE SOUTH OF LARGO WASH. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.

DIG & [illegible]

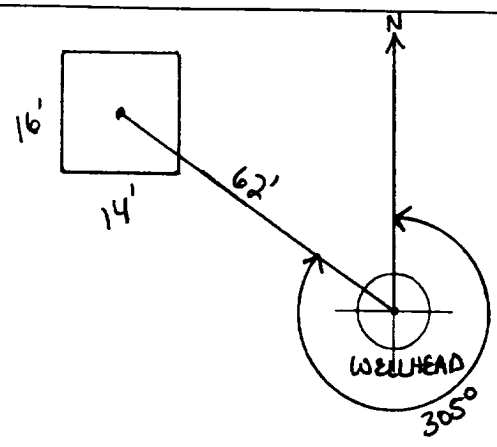
(version) 04/08/94

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 305° Footage from Wellhead 62'

b) Length : 16' Width : 14' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 2:42 P.M.
END DUMP

Completed By:

Robert Thompson
Signature

6-15-94
Date

PHASE I
EXCAVATION

FII) PIT REMEDIATION/CLOS' E FORM

GENERAL

Meter: 70069 Location: MKL #3

Coordinates: Letter: P Section 6 Township: 26 Range: 7

Or Latitude _____ Longitude _____

Date Started : 7-22-94 Area: 07 Run: 51

FIELD OBSERVATIONS

Sample Number(s): KP 145 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 001 PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐ (1)	☒ (2)

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☐ (1) Approx. Cubic Yards 0

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☒ (3)

Soil Disposition:

Envirotech ☒ (1) 7/25/94 PR ☐ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 7-22-94 Pit Closed By: B.C.T

REMARKS

Remarks : Some Line marker Pit looked clean test hol. Pid 001.

Signature of Specialist: Kelly Padilla

(SP3191) 04/07

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 145	94575
ITR CODE | SITE NAME:	70069	N/A
SAMPLE DATE | TIME (Hrs):	7-22-94	1145
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7-26-94	7-26-94
DATE OF BTEX EXT. | ANAL.:	7/27/94	7/28/94
TYPE | DESCRIPTION:	VG	coarse brown sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.025	MG/KG	1			
TOLUENE	0.042	MG/KG	1			
ETHYL BENZENE	< 0.025	MG/KG	1			
TOTAL XYLENES	< 0.025	MG/KG	1			
TOTAL BTEX	0.12	MG/KG				
TPH (418.1)	115	MG/KG			2.05	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	99.0	%				

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

The Surrogate Recovery was at 80 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: J.P. Date: 8/12/94

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

Perkin-Elmer Model 1600 FT-IR
Analysis Report

94/07/26 13:17

Sample identification
945754

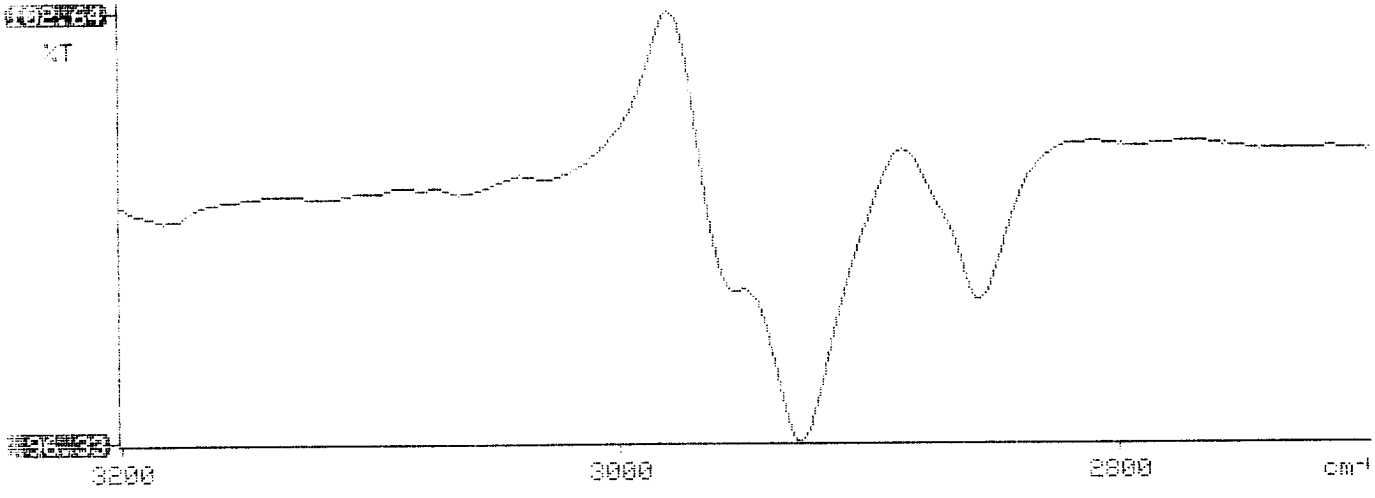
Initial mass of sample, g
1.050

Volume of sample after excraction, ml
28.000

Petroleum hydrocarbons, ppm
14.722

Net absorbance of hydrocarbons (2930 cm-1)
0.017

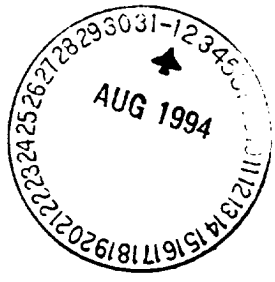
Petroleum hydrocarbons spectrum 13:17



Analytical Technologies, Inc.

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

ATI I.D. **407410**



July 29, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **07/27/94**, 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

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407410
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945753	NON-AQ	07/22/94	07/27/94	07/28/94	10
08	945754	NON-AQ	07/22/94	07/27/94	07/28/94	1
09	945755	NON-AQ	07/22/94	07/27/94	07/28/94	10

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	1.5	<0.025	0.49
TOLUENE	MG/KG	28	0.042	33
ETHYLBENZENE	MG/KG	4.1	<0.025	10
TOTAL XYLENES	MG/KG	55	<0.025	130
SURROGATE:				
BROMOFLUOROBENZENE (%)		78	80	87

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

Burlington Environmental Inc.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
Project Number 14509 Phase 6000.77
Project Location MKL #3 70629

Elevation
Borehole Location Letter P-S26-T26-R7
GWL Depth
Logged By J.F. LaBarbera
Drilled By ~~K. Padilla~~ M. Donahue
Date/Time Started 7/31/95 - 0838
Date/Time Completed - 1010

Well Logged By J.F. LaBarbera
Personnel On-Site ~~K. Padilla, P. Rivera, D. Charlie~~
Contractors On-Site M. Donahue, J. O'Keefe, B. Goat
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	KS/S	Drilling Conditions & Blow Counts
0				Fill						
5										
10										
15										
20	1	18-18.5	7	Lt. Brown, fine to coarse, SANDSTONE, little silt, dry, odor, moderately cemented.	X		0.2	3	332/332	no recovery 0918 0915
25	2	23-28 rock	3	AA, sl. odor			0	20	163/50	0923
30	3	28-28.5	3	Brown, dense, SILTSTONE, dry, no odor noted.			0	6	1.3/4.7	0932
35				TOB at 28.5'						
40										

Comments: Sample JFL 33 from 28-28.5' sent to lab for BTEX/TPH analysis

Geologist Signature J. F. LaBarbera

El Paso Natural Gas Company

Phase II Drilling
MKL #3
(28-2451)

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JFL 33	947109
MTR CODE | SITE NAME:	70069	N/A
SAMPLE DATE | TIME (Hrs):	07/31/95	09:32
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	8-1-95	8-1-95
DATE OF BTEX EXT. | ANAL.:	8-3-95	8-4-95
TYPE | DESCRIPTION:	VG	Brown Sand & Clay

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	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	148	MG/KG			2.04	28
HEADSPACE PID	1.3	PPM				
PERCENT SOLIDS	92.0	%				

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

The Surrogate Recovery was at 94 % for this sample All QA/QC was acceptable.

Narrative: ATI Results attached for BTEX and mod 8015

DF = Dilution Factor Used

Approved By: _____ 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                     *
**********************************************************
*
 95/08/01  13:19
*
*  Sample identification
 947109
*
*  Initial mass of sample, g
 2.040
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 147.948
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.029
*
*
*
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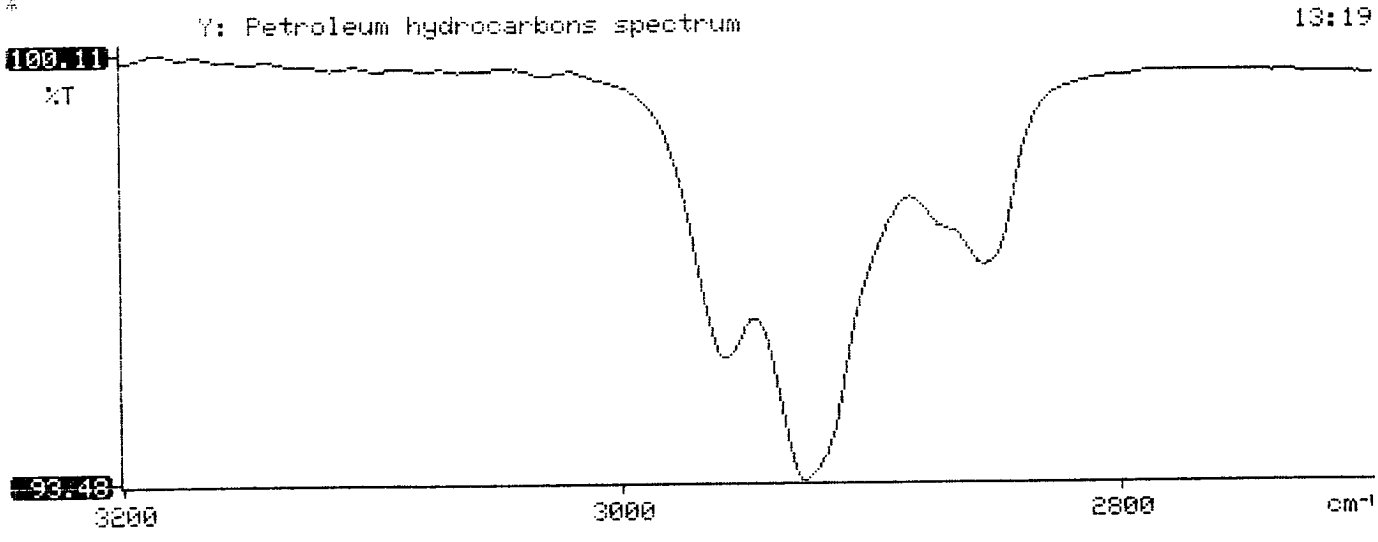


Analytical **Technologies,** Inc.

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

ATI I.D. **508322**

August 8, 1995

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

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

Attention: John Lambdin

On **08/03/95**, 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.

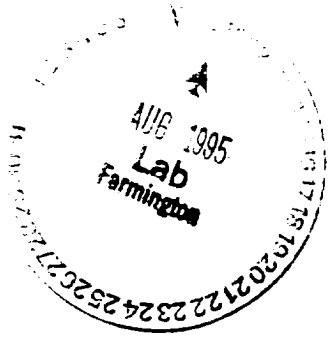
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS ATI I.D.: 508322

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947108	NON-AQ	07/31/95	08/03/95	08/04/95	1
02	947109	NON-AQ	07/31/95	08/03/95	08/04/95	1
03	947110	NON-AQ	07/31/95	08/03/95	08/04/95	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	0.029	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES	MG/KG	0.059	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		92	94	92

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED

CLIENT : EL PASO NATURAL GAS ATI I.D.: 508322

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
02	947109	NON-AQ	07/31/95	08/03/95	08/03/95	1
05	947112	NON-AQ	07/31/95	08/03/95	08/03/95	1

PARAMETER	UNITS	02	05
FUEL HYDROCARBONS	MG/KG	<5	22
HYDROCARBON RANGE		-	C14-C30
HYDROCARBONS QUANTITATED USING		-	DIESEL
SURROGATE:			
O-TERPHENYL (%)		93	88