Denny's Foust ~~PIT CLOSURE~~ SUMMARY
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Howell L No. 3
Meter/Line ID - 70053

Approved

SITE DETAILS

Legals - Twn: 30 **Rng:** 8 **Sec:** 35 **Unit:** M
NMOCD Hazard Ranking: 40 **Land Type:** BLM
Operator: Meridian

PREVIOUS ACTIVITIES

Site Assessment: 1/4/94 **Excavation:** 1/23/95 **Soil Boring:** 6/20/95
Monitor Well: N/A **Re-Excavation:** N/A **Geoprobe:** N/A

CONCLUSIONS

The initial excavation was excavated to the top of bedrock, which was 2 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 130 ppm at 2 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 108 mg/kg and TPH was above standards at 9,120 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. The soil lithology beneath the excavation consisted of a very dense, tan, medium grained silty sand (sandstone), which continued to the termination of the boring at 5.1 feet bgs. A soil sample was collected for BTEX and TPH analysis at 5-5.3 feet bgs. Laboratory analysis showed all BTEX compounds to be below standards at .387 mg/kg. TPH Method 418.1 analysis showed TPH present at 155 mg/kg. The sample was reanalyzed using Method 8015 modified (C9-C18) and the sample results indicated 54 mg/kg TPH present.

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.
- The excavation was terminated in bedrock.
- 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: 70053 Location: Howell L No. 3
Operator #: 1987 Operator Name: MOT P/L District: Bloomfield
Coordinates: Letter: M Section 35 Township: 30 Range: 8
Or Latitude _____ Longitude _____
Pit Type: Dehydrator √ Location Drip: ___ Line Drip: ___ Other: _____
Site Assessment Date: 1/4/94 Area: 10 Run: 41

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)

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OIL CON. DIV.
DIST. 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 Escarbada Canyon (off of Gobernador)
(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 Book - Inside Vulnerable Zone Topo - Inside
2 pits. Will close 1. Pit has no standing fluid.

DIGHAUL

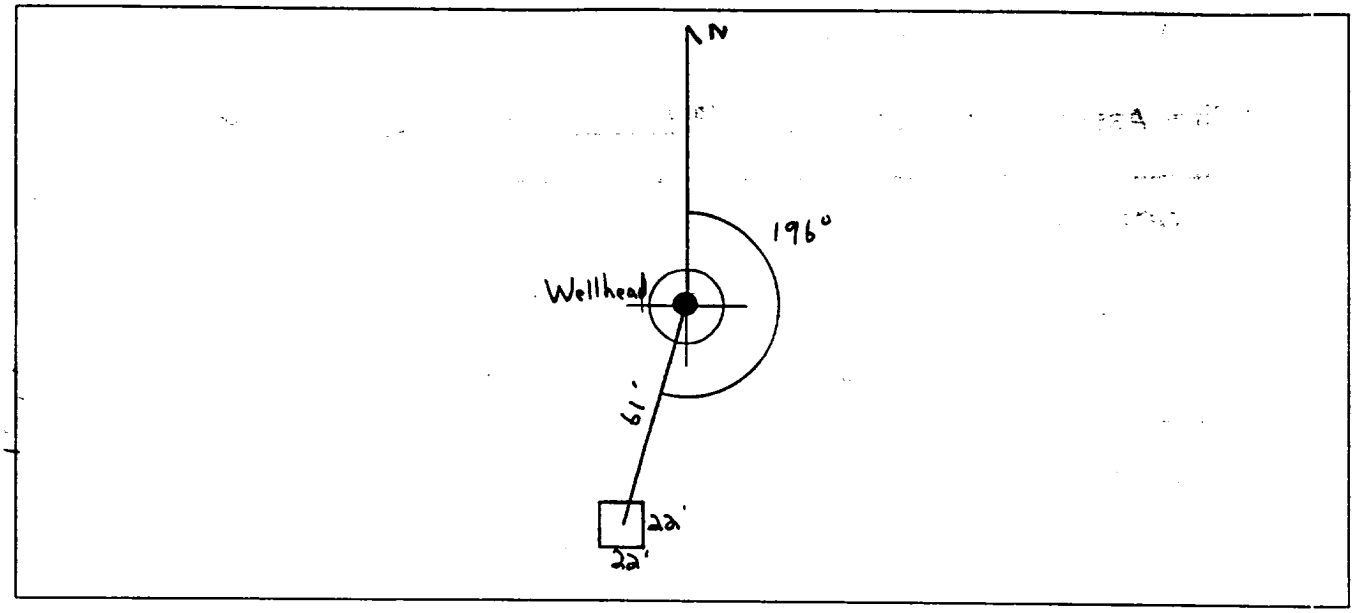
(SP3190) 04/08/94

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 196° Footage from Wellhead 61'

b) Length : 22' Width : 22' Depth : 3'



REMARKS

Remarks :

Pictures @ 1256 hr 1-5 roll 1

Completed By:

Cory Chance
Signature

1/4/94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70053 Location: Howell L No. 3

Coordinates: Letter: M Section 35 Township: 30 Range: 8

Or Latitude _____ Longitude _____

Date Started : 1-23-95 Run: ~~01~~ 10 41

FIELD OBSERVATIONS

Sample Number(s): KP386 _____ _____ _____

Sample Depth: 2' Feet

Final PID Reading 130 PID Reading Depth 2' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☐ Approx. Cubic Yards _____

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☒

Soil Disposition:

Envirotech ☐ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 1-23-95 Pit Closed By: B.E.I

REMARKS

Remarks : NO LINE markers. started Remeadiating TO 12'
Hit SANDSTONE At 2' Sampled closed Pit.

Signature of Specialist: Kelly Padilla

(SP3191) 03/16/94

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:	KP 3816	946586
MTR CODE | SITE NAME:	70053	N/A
SAMPLE DATE | TIME (Hrs):	1-23-95	1045
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	1-28-95	1-28-95
DATE OF BTEX EXT. | ANAL.:	1/28/95	1/28/95
TYPE | DESCRIPTION:	VG	Dark Brown clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	5.96	MG/KG	0.40241		4.97	20
TOLUENE	47.1	MG/KG				
ETHYL BENZENE	3.26	MG/KG				
TOTAL XYLENES	51.5	MG/KG				
TOTAL BTEX	108	MG/KG				
TPH (418.1)	9120	MG/KG			0.36	28
HEADSPACE PID	130	PPM				
PERCENT SOLIDS	86.9	%				

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

The Surrogate Recovery was at 90.0 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 2-22-95

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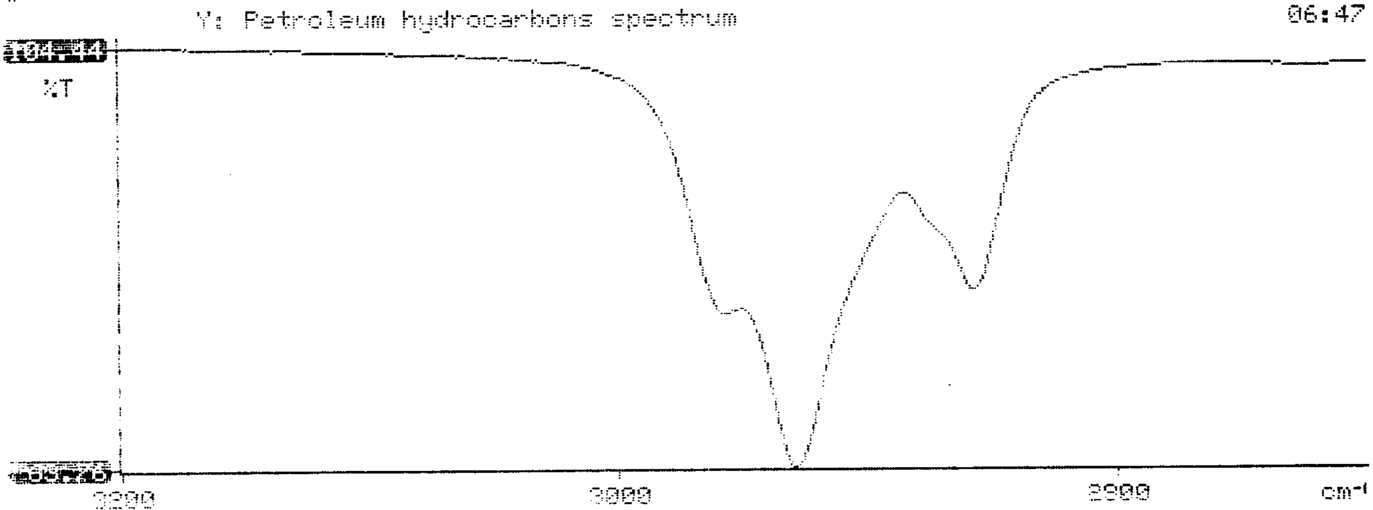
*********************************************************
*                 Test Method for                       *
*     Oil and Grease and Petroleum Hydrocarbons         *
*                in Water and Soil                      *
*                                                       *
*           Perkin-Elmer Model 1600 FT-IR               *
*                 Analysis Report                       *
*********************************************************
*
 95/01/28  06:47
*
*  Sample identification
 946586
*
*  Initial mass of sample, g
 0.360
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 9115.208
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.210
*
*
*
```

Y: Petroleum hydrocarbons spectrum

06:47



BTEX SOIL SAMPLE WORKSHEET

File	946586A	**Date Printed**	1/29/95
Soil Mass (g)	4.97	**Multiplier (L/g)**	0.00101
Extraction vol. (mL)	20	**DF (Analytical)**	400
Shot Volume (uL)	50	**DF (Report)**	0.40241

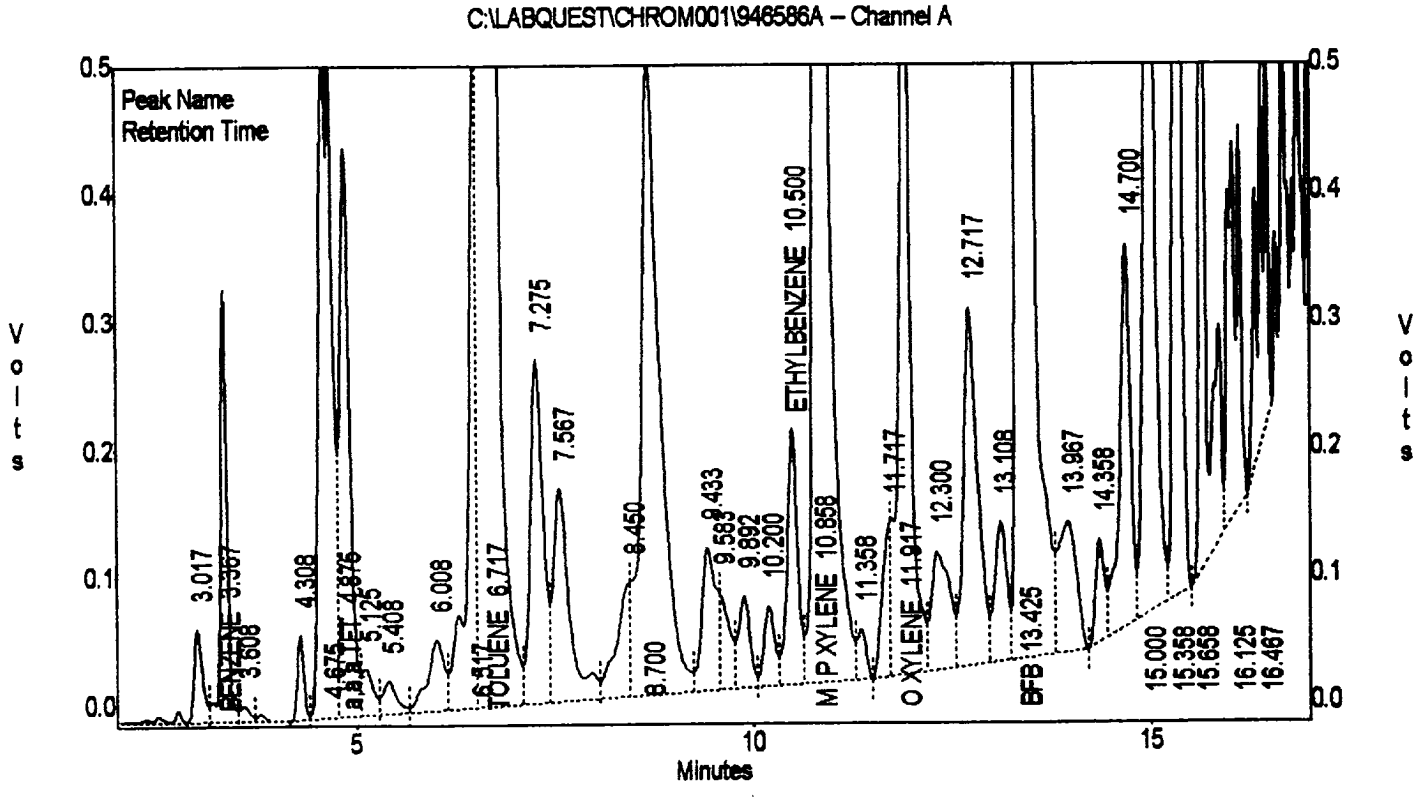
			Det. Limit
Benzene (ug/L)	14.80	**Benzene (mg/Kg):**	**5.956**	2.012
Toluene (ug/L)	117.16	**Toluene (mg/Kg):**	**47.147**	2.012
Ethylbenzene (ug/L)	8.09	**Ethylbenzene (mg/Kg):**	**3.256**	2.012
p & m-xylene (ug/L)	98.82	p & m-xylene (mg/Kg):	39.767	4.024
o-xylene (ug/L)	29.12	o-xylene (mg/Kg):	11.718	2.012
		Total xylenes (mg/Kg):	**51.485**	6.036
		Total BTEX (mg/Kg):	**107.843**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946586A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946586,4.97G/50uL
Acquired : Jan 29, 1995 01:01:19
Printed : Jan 29, 1995 01:18:27
User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.367	1908264	121531.74219	14.8140
a,a,a TFT	4.875	3809547	32055.68359	116.9167
TOLUENE	6.717	28952196	314479.71875	117.1555
ETHYLBENZENE	10.500	1824733	228573.29688	8.0930
M & P XYLENE	10.858	24877188	316768.40625	98.8171
O XYLENE	11.917	6417738	221087.17188	29.1223
BFB	13.425	85798272	944778.31250	89.9736
Totals :		153587936		474.8922

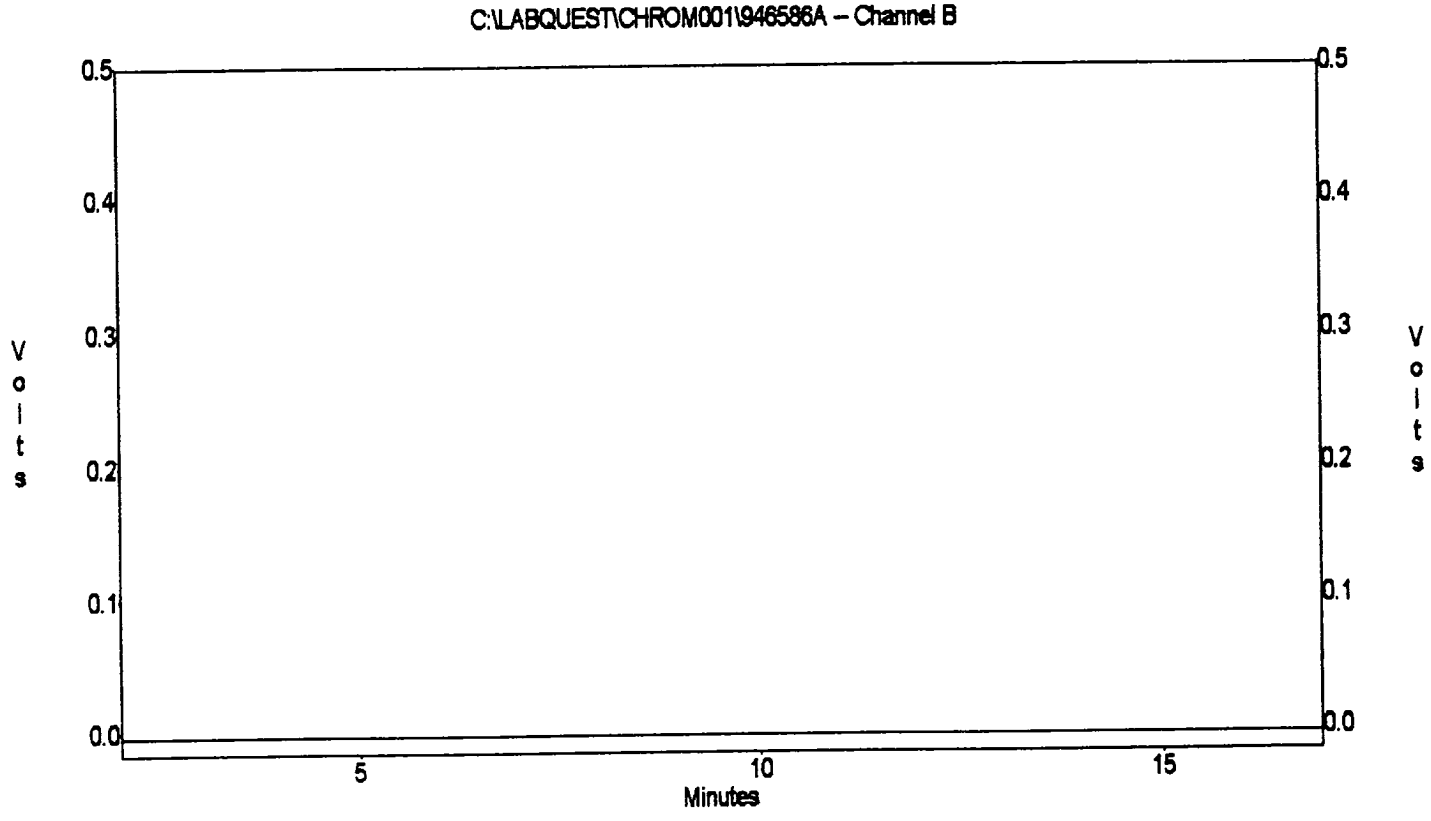


EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946586A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946586,4.97G/50uL
Acquired : Jan 29, 1995 01:01:19
Printed : Jan 29, 1995 01:18:32
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.367	0	0.00000	0.0000
a,a,a TFT	4.883	0	0.00000	0.0000
TOLUENE	6.700	0	0.00000	0.0000
ETHYLBENZENE	10.480	0	0.00000	0.0000
M & P XYLENE	10.833	0	0.00000	0.0000
O XYLENE	11.900	0	0.00000	0.0000
BFB	13.400	0	0.00000	0.0000
Totals :		0		0.0000



PHASE II

RECORD OF SUBSURFACE E. .ORATION

Borehole # BH-1
Well #
Page 1 of 1

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(606) 326-2262 FAX (606) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase ~~601~~ 6000.7
Project Location Howell L No.3, 70053

Elevation
Borehole Location
GWL Depth
Logged By S.Kelly
Drilled By K. Padilla
Date/Time Started 6/20/95, 0900
Date/Time Completed 6/20/95, 0915

Well Logged By S.Kelly
Personnel On-Site K. Padilla, F. Rivera, D. Tsabo
Contractors On-Site
Client Personnel On-Site

Drilling Method 4½" ID HSA
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S	Drilling Conditions & Blow Counts
0				Backfill to 2'.						
5	5-7		.3'	silty SAND, med. sand, 5-15% silt, tan, very dense, dry.			0	5	15 —	Drills like rock. ← headspace not taken, not enough sampld.
				BOH-5.'						
10										
15										
20										
25										
30										
35										
40										

Comments: No headspace taken, not enough sample. Split spoon could only be driven .3', 5'-5.3' sample (SER15) sent to lab (BTEX & TPH.) BH grouted to surface.

Geologist Signature Sarah Kelly

Phase II

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:	SBK 15	94695
MTR CODE | SITE NAME:	70053	N/A
SAMPLE DATE | TIME (Hrs):	6-20-95	1130
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-21-95	6-21-95
DATE OF BTEX EXT. | ANAL.:	6-22-95	6-22-95
TYPE | DESCRIPTION:	VG	light tan fine sand

REMARKS: Headspace not taken, not enough sample (- Field Drilling Log).

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	0.047	MG/KG	1			
TOTAL XYLENES	0.34	MG/KG	1			
TOTAL BTEX	~~0.437~~ 0.387 7/11/95	MG/KG				
TPH (418.1)	~~154~~ 155 KDH 6/22/95	MG/KG			2.04	25
HEADSPACE PID	—	PPM				
PERCENT SOLIDS	94.5	%				

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

The Surrogate Recovery was at 113 % for this sample All QA/QC was acceptable.

Narrative:
ATL results attached for BTEX and Modified 8015

DF = Dilution Factor Used

Approved By: _____ Date: 7/11/95

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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                     *
**********************************************************
*
 95/06/21   12:49
*
*  Sample identification
 946915
*
*  Initial mass of sample, g
 2.040
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 154.857
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.029
*
*
*
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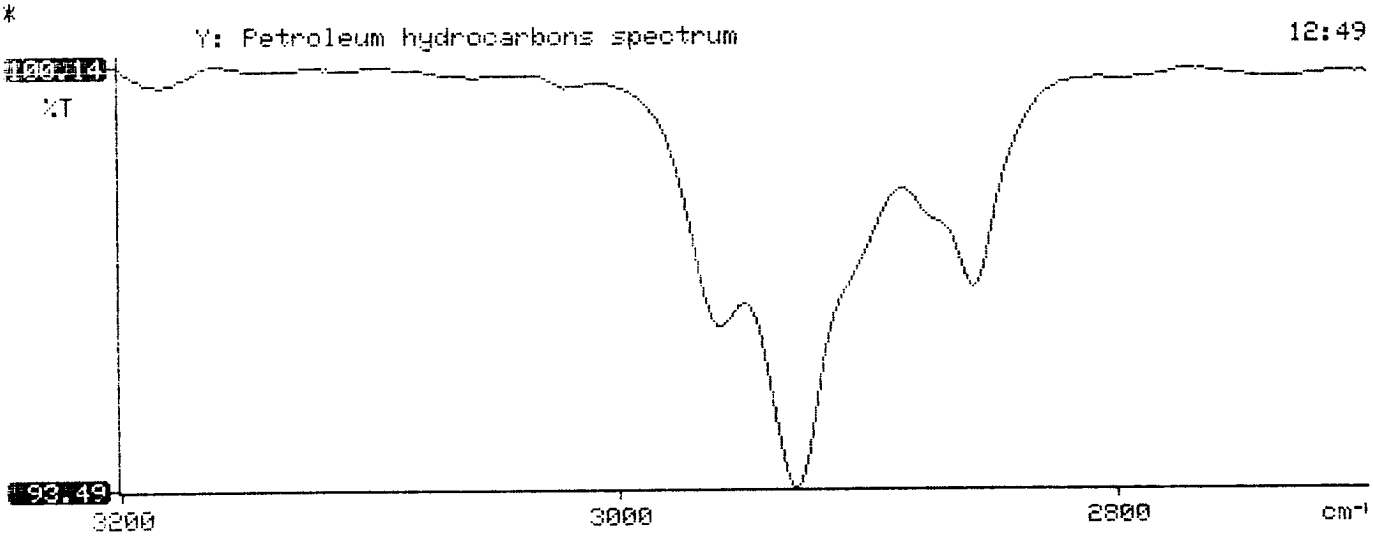


Analytical Technologies, Inc.

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

ATI I.D. **506401**

June 27, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On **06/22/95**, 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.

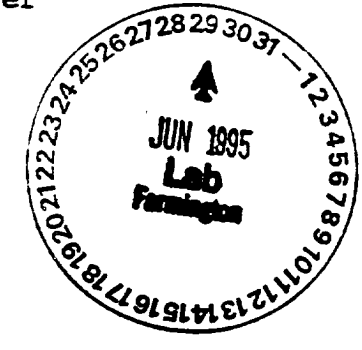
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:gsm

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506401

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946915	NON-AQ	06/20/95	06/22/95	06/22/95	1
05	946916	NON-AQ	06/20/95	06/22/95	06/22/95	1
06	946917	NON-AQ	06/20/95	06/22/95	06/23/95	1

PARAMETER	UNITS	04	05	06
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	<0.025
ETHYLBENZENE	MG/KG	0.047	<0.025	<0.025
TOTAL XYLENES	MG/KG	0.34	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		113	96	94

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506401

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946915	NON-AQ	06/19/95	06/20/95	06/24/95	1

PARAMETER	UNITS	04
FUEL HYDROCARBONS	MG/KG	54
HYDROCARBON RANGE		C9-C18
HYDROCARBONS QUANTITATED USING		DIESEL
SURROGATE:		
O-TERPHENYL (%)		108