

Approved
EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 2 1 1998

JOHNSTON FED 1 CPD
Meter/Line ID - 92449

RECEIVED
JUL 2 1998

OIL CON. DIV.
DIST. 3

SITE DETAILS

Legals - Twn: 30 Rng: 09
NMOCD Hazard Ranking: 40
Operator: MERIDIAN OIL INC - UNICON

Unit: A
Land Type: 2 - Federal

Pit Closure Date: 01/20/95

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

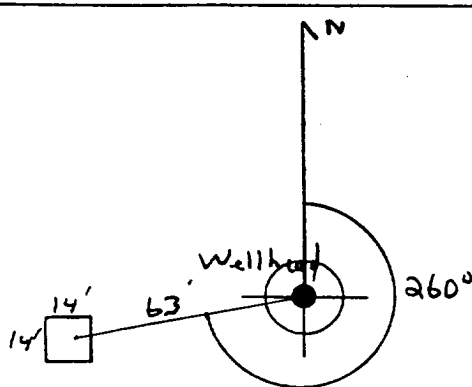
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>92449</u> Location: <u>Johnston Fed 1 CPD</u> Operator #: <u>0128</u> Operator Name: <u>MOE</u> P/L District: <u>Bloomfield</u> Coordinates: Letter: <u>A</u> Section <u>12</u> Township: <u>3D</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____ Site Assessment Date: <u>1/11/95</u> Area: <u>10</u> Run: <u>22</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 checked="" type="checkbox"/> (1) State <input 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>Manga Canyon (off Pump Canyon)</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</u> <u>Vulnerable Zone Type - Inside</u> <u>2 pits. Close</u></p> <p style="text-align: right;"><u>DIG & HAUL</u></p>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 260° Footage from Wellhead 63'
b) Length : 14' Width : 14' Depth : 5'



REMARKS

Remarks :

Pictures @ 1216 12-15

Meter is T.D.

Completed By:

Cory Chance

Signature

1/11/95

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>92449</u> Location: <u>JOHNSON FED 1 CPD</u> Coordinates: Letter: <u>A</u> Section <u>12</u> Township: <u>30</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Date Started : <u>1-20-95</u> Run: <u>10</u> <u>22</u>
FIELD OBSERVATIONS	Sample Number(s): <u>RT-5</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>6 PPM</u> PID Reading Depth <u>12'</u> Feet <div style="text-align: center;">Yes No</div> Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet
CLOSURE	Remediation Method : <div style="display: flex; justify-content: space-between;"> <div> Excavation Onsite Bioremediation Backfill Pit Without Excavation </div> <div style="text-align: center;"> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> </div> <div> Approx. Cubic Yards _____ Tierra </div> </div> Soil Disposition: <div style="display: flex; justify-content: space-between;"> <div> Envirotech Other Facility </div> <div style="text-align: center;"> <input type="checkbox"/> <input type="checkbox"/> </div> <div> Name: _____ Pit Closure Date: <u>1-20-95</u> </div> </div> Pit Closed By: <u>BET</u>
REMARKS	Remarks : _____ _____ _____
	Signature of Specialist: <u>Robert Thompson</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	RT.5	946583
MTR CODE SITE NAME:	92449	N/A
SAMPLE DATE TIME (Hrs):	1-20-95	1/23/95 12:1250
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:	V6	Brown sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.994	MG/KG	0.19881		5.03	20
TOLUENE	<0.994	MG/KG	1		1	1
ETHYL BENZENE	<0.994	MG/KG	1		1	1
TOTAL XYLENES	<2.982	MG/KG				
TOTAL BTEX	<2.982 ^{25.96} _{1/28/95}	MG/KG				
TPH (418.1)	19.4	MG/KG			1.97	28
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	90.7	%				

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

The Surrogate Recovery was at 88.9 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

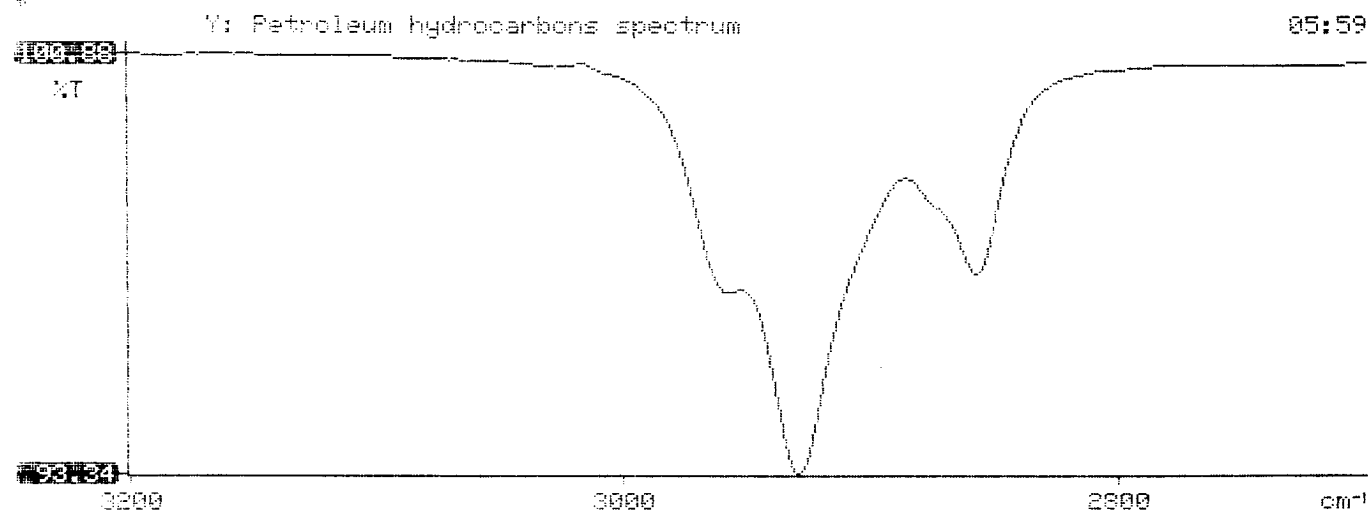
J. L.

Date:

2-22-95

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

* 95/01/28 05:58
 *
 * Sample identification
 946583
 *
 * Initial mass of sample, g
 1.970
 *
 * Volume of sample after extraction, ml
 28.000
 *
 * Petroleum hydrocarbons, ppm
 194.062
 * Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.033
 *
 *
 *



BTEX SOIL SAMPLE WORKSHEET

File	:	946583A	Date Printed	:	1/29/95
Soil Mass (g)	:	5.03	Multiplier (L/g)	:	0.00099
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.19881

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.994
Toluene (ug/L)	:	1.15	Toluene (mg/Kg):	0.229 0.994
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.994
p & m-xylene (ug/L)	:	5.80	p & m-xylene (mg/Kg):	1.153 1.988
o-xylene (ug/L)	:	2.53	o-xylene (mg/Kg):	0.503 0.994
			Total xylenes (mg/Kg):	1.656 2.982
			Total BTEX (mg/Kg):	1.885

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946583A
 Method : C:\LABQUEST\METHODS\CALCBTEX.MET
 Sample ID : 946583,5.03G/100uL
 Acquired : Jan 28, 1995 23:10:00
 Printed : Jan 29, 1995 14:01:22
 User : Tony

Channel A Results

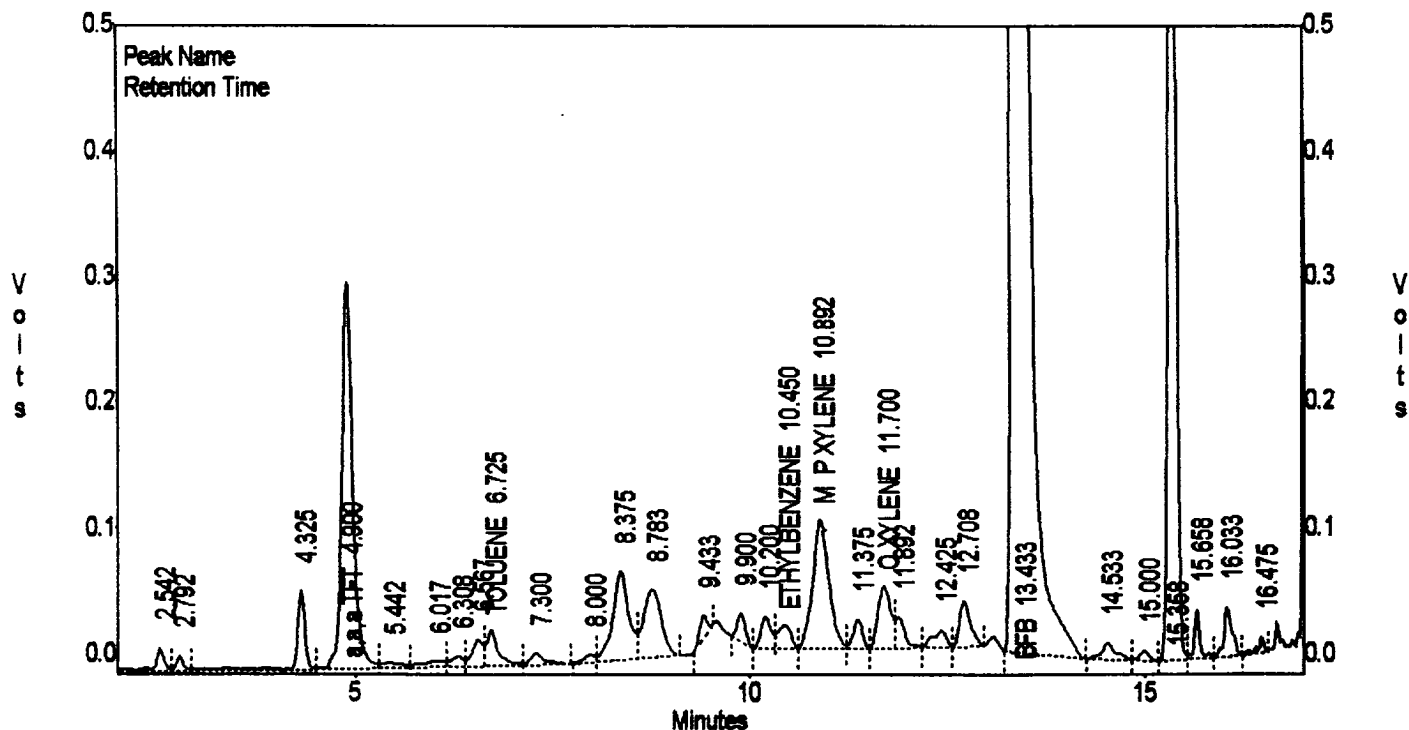
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.358	0	0.00000	0.0000
a,a,a TFT	4.900	2901528	32055.68359	89.0492
TOLUENE	6.725	284496	314479.71875	1.1512
ETHYLBENZENE	10.450	209739	228573.29688	0.9302
M & P XYLENE	10.892	1460426	316768.40625	5.8011
O XYLENE	11.700	556500	221087.17188	2.5253
BFB	13.433	84795920	944778.31250	88.9224

Totals :

90208608

188.3795

C:\LABQUEST\CHROM001\946583A - Channel A



EL PASO NATURAL GAS**EPA METHOD 8020 - BTEX SOILS**

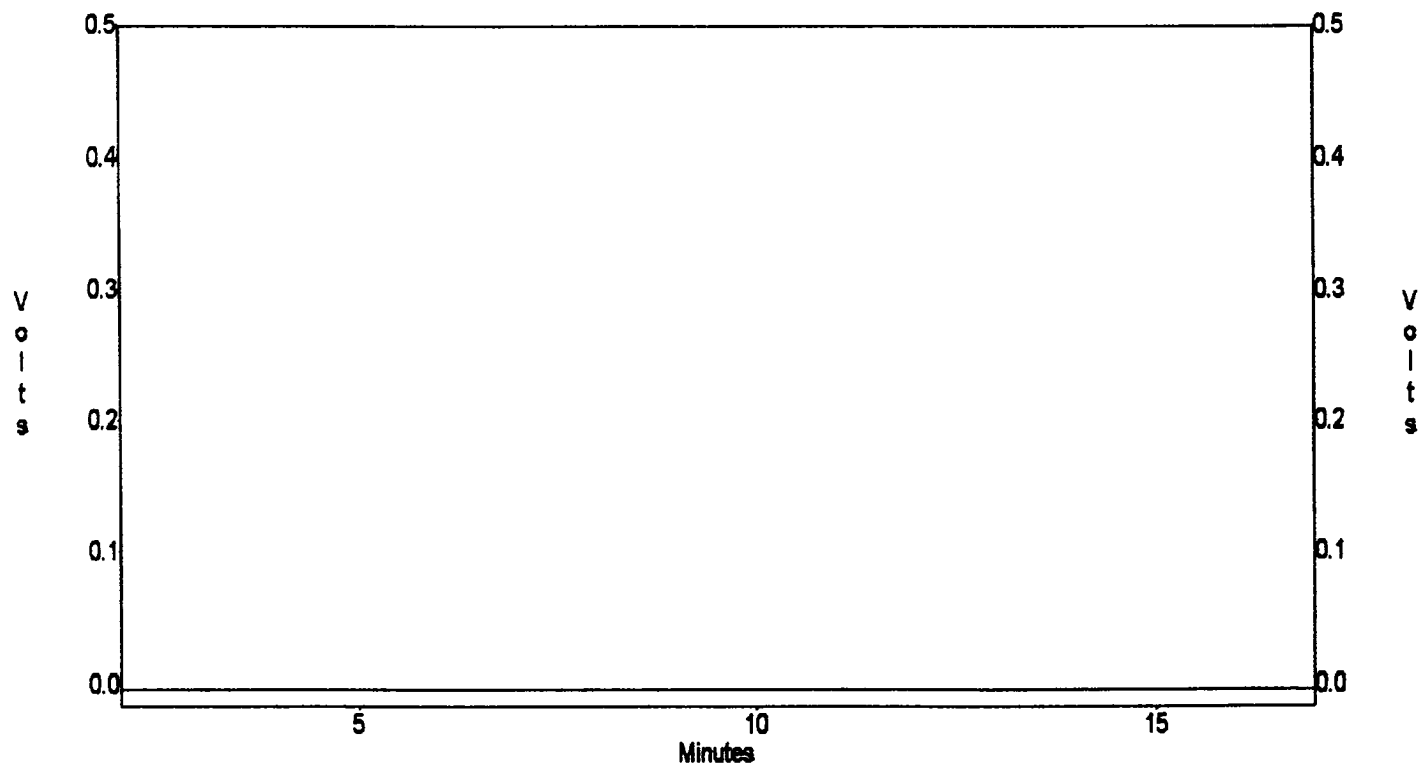
File : C:\LABQUEST\CHROM001\946583A
Method : C:\LABQUEST\METHODS\CALCBTEX.MET
Sample ID : 946583,5.03G/100uL
Acquired : Jan 28, 1995 23:10:00
Printed : Jan 29, 1995 14:01:27
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.358	0	0.00000	0.0000
a,a,a TFT	4.900	0	0.00000	0.0000
TOLUENE	6.725	0	0.00000	0.0000
ETHYLBENZENE	10.450	0	0.00000	0.0000
M & P XYLENE	10.892	0	0.00000	0.0000
O XYLENE	11.700	0	0.00000	0.0000
BFB	13.433	0	0.00000	0.0000

Totals :
0 0.0000

C:\LABQUEST\CHROM001\946583A - Channel B



PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

(505) 328-2282 FAX (505) 328-2388

Borehole # BH-1

Well #

Page 1 of 7

Project Name

EPNG PITS

Project Number

14509

Phase

6000 77

Project Location

Pamp Canyon

Well Logged By

ST Pope

Personnel On-Site

Jim O'Kiet

Contractors On-Site

N/A

Client Personnel On-Site

N/A

Elevation

Borehole Location Johnston Federal 1 CPD (92449)

GWL Depth

N/A

Logged By

S. Pope

Drilled By

M DONOHUE

Date/Time Started

6/14/95 1315

Date/Time Completed

6/14/95 1430

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				Brown Sandy Fill						
5							0	0	0	
10	1	10 12	SS 10	Brown - Gray Clayey Sand, med- Coarse grained, loose, slightly moist	SC		0	0	0	1345 Head space = 3 ppm
15	2	15 17	SS 12	SAA			0	0	7	1350 HS = 24 ppm
20	3	20 22	8	SAA Brown			0	0	0	1400 Sample collect for lab
25				TOB-22						
30										
35										
40										

Comments:

Boring Grouted to Surface w/ Cement/Bentonite Grout

Geologist Signature

John T. Pope



**FIELD SERVICES LABORATORY
ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

Phase 4

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	STP 5	946904
MTR CODE SITE NAME:	92449	N/A
SAMPLE DATE TIME (Hrs):	6-14-95	1400
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	6/15/95	6-15-95
DATE OF BTEX EXT. ANAL.:	6-16-95	6-16-95
TYPE DESCRIPTION:	VG	micron clay & 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	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	48.1	MG/KG			2.0	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	90.2	%				

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

The Surrogate Recovery was at 101 % for this sample All QA/QC was acceptable.
Narrative:

ATI - results attached

DF = Dilution Factor Used

Approved By: *J.F.*

Date: 6/28/95

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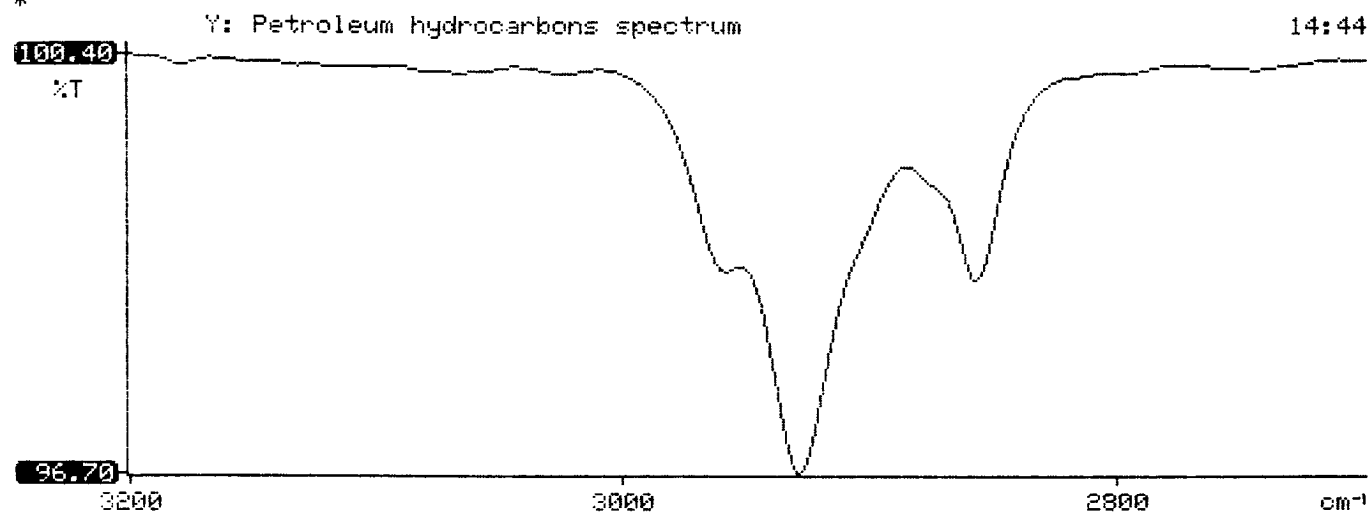
*****
*                               *
*      Test Method for          *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil        *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                    *
*      Analysis Report                      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

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*
* 95/06/15 14:44
*
* Sample identification
* 946904
*
* Initial mass of sample, g
* 2.000
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 48.070
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.016
*
*
*

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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. 506376

June 21, 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 06/16/95, 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





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506376
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	946903	NON-AQ	06/14/95	06/16/95	06/16/95	1
14	946904	NON-AQ	06/14/95	06/16/95	06/16/95	1
15	946905	NON-AQ	06/14/95	06/16/95	06/16/95	1
PARAMETER			UNITS	13	14	15
BENZENE			MG/KG	<0.025	<0.025	<0.025
TOLUENE			MG/KG	0.037	<0.025	<0.025
ETHYLBENZENE			MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES			MG/KG	<0.025	<0.025	<0.025

SURROGATE:

BROMOFLUOROBENZENE (%)	102	101	94
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