

Dennis J. Felt
EL PASO FIELD SERVICES
DEPUTY OPERATIONS DIRECTOR
PRODUCTION PIT CLOSURE

DEC 21 1998

FLORANCE AE #1A
Meter/Line ID - 90547

RECEIVED
JUL 2 1998

OIL CON. DIV
DIST. 3

SITE DETAILS

Approved
Legals - Twn: 30 Rng: 10

Sec: 25

Unit: J

NMOCD Hazard Ranking: 40

Land Type: 2 - Federal

Operator: AMOCO PRODUCTION COMPANY

Pit Closure Date: 02/01/95

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.

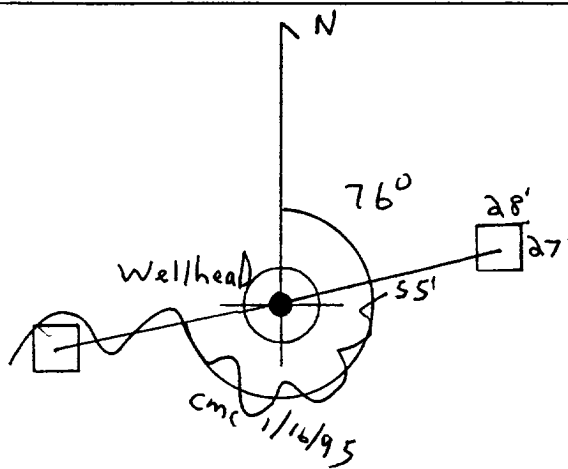
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>90547</u> Location: <u>Florence AE No. 1A</u> Operator #: <u>0203</u> Operator Name: <u>Amerco</u> P/L District: <u>Bloomfield</u> Coordinates: Letter: <u>J</u> Section <u>25</u> Township: <u>30</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>1/16/95</u> Area: <u>10</u> Run: <u>23</u>								
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)								
	Land Type: <table border="0"> <tr> <td>BLM</td> <td><input checked="" type="checkbox"/> (1)</td> </tr> <tr> <td>State</td> <td><input type="checkbox"/> (2)</td> </tr> <tr> <td>Fee</td> <td><input type="checkbox"/> (3)</td> </tr> <tr> <td>Indian</td> <td>_____</td> </tr> </table>		BLM	<input checked="" type="checkbox"/> (1)	State	<input type="checkbox"/> (2)	Fee	<input type="checkbox"/> (3)	Indian
BLM	<input checked="" type="checkbox"/> (1)								
State	<input type="checkbox"/> (2)								
Fee	<input type="checkbox"/> (3)								
Indian	_____								
REMARKS	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)								
	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)								
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)									
Name of Surface Water Body <u>Vaca Canyon (off of San Juan R.)</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'									
TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS									
Remarks : <u>Redline Book: Inside</u> <u>Vulnerable Zone Type: Inside</u> <u>3 pits. Close.</u>									
<div style="text-align: right;">DIG + HAUL</div>									

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 76° Footage from Wellhead 55'
b) Length : 28' Width : 27' Depth : 4'



REMARKS

Remarks :

Pictures @ 1043 hr 22-25 roll 1

Completed By:

Corey Chance
Signature

1/16/95
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>90547</u> Location: <u>FLORANCE A E No 1A</u></p> <p>Coordinates: Letter: <u>I</u> Section <u>25</u> Township: <u>30</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>2-1-95</u> Run: <u>10</u> <u>83</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>mk 350</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>30</u> PID Reading Depth <u>12'</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>200</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 type="checkbox"/> <input checked="" type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>2-1-95</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>When we started soil was grayish black</u></p> <p><u>very strong Hydrocarbon odor Sample Soil was Gray</u></p> <p><u>very slight Hydrocarbon odor</u></p>
	<p>Signature of Specialist: <u>Morgan Killion</u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	ML 350	946623
MTR CODE SITE NAME:	90547	N/A
SAMPLE DATE TIME (Hrs):	2-1-95	1120
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	2/2/95	2/2/95
DATE OF BTEX EXT. ANAL.:	2/2/95	2/2/95
TYPE DESCRIPTION:	VL	Brown/gray fine sand and clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.00	MG/KG	0.20080		4.98	20
TOLUENE	<1.00	MG/KG	I		I	I
ETHYL BENZENE	<1.00	MG/KG	I		I	I
TOTAL XYLENES	<3.00	MG/KG	I		I	I
TOTAL BTEX	26.00 23.00 <small>ML 350 2/2/95</small>	MG/KG				
TPH (418.1)	145	MG/KG			1.95	28
HEADSPACE PID	30	PPM				
PERCENT SOLIDS	87.1	%				

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

The Surrogate Recovery was at 80.9 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

Date:

2-22-95

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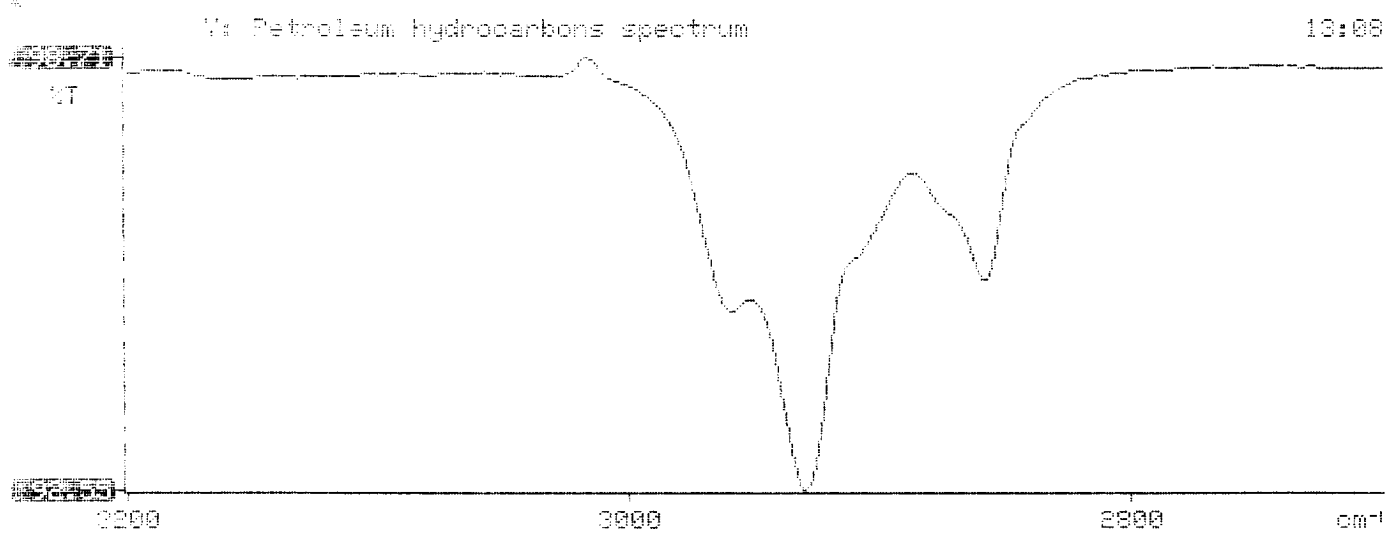
*****
Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil
Perkin-Elmer Model 1600 FT-IR
Analysis Report
*****

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05/02/02 13:08
Sample identification
746623
Initial mass of sample, g
1.950
Volume of sample after extraction, ml
25.000
Petroleum hydrocarbons, ppm
144.648
Net absorbance of hydrocarbons (2930 cm-1)
0.027

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BTEX SOIL SAMPLE WORKSHEET

File	:	946623A	Date Printed	:	2/3/95
Soil Mass (g)	:	4.98	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20080

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 1.004
Toluene (ug/L)	:	0.78	Toluene (mg/Kg):	0.157 1.004
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 1.004
p & m-xylene (ug/L)	:	0.31	p & m-xylene (mg/Kg):	0.062 2.008
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 1.004
			Total xylenes (mg/Kg):	0.062 3.012
			Total BTEX (mg/Kg):	0.219

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

File : C:\LABQUEST\CHROM001\946623A
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 946623,4.98G/100uL
 Acquired : Feb 02, 1995 20:42:10
 Printed : Feb 02, 1995 21:08:22
 User : Tony

Channel A Results

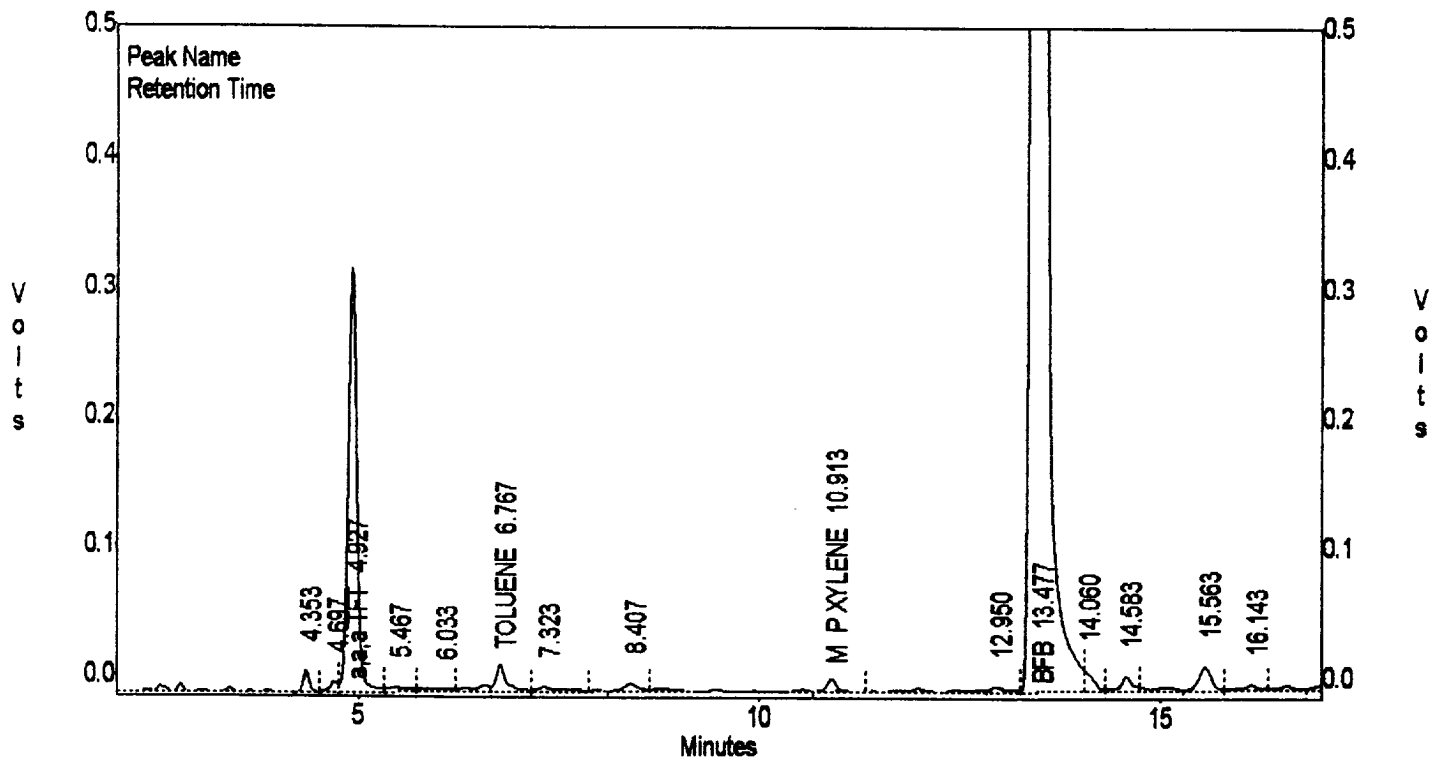
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.413	0	0.00000	0.0000
a,a,a TFT	4.927	2442113	32055.68359	74.9496
TOLUENE	6.767	192781	314479.71875	0.7801
ETHYLBENZENE	10.560	0	0.00000	0.0000
M & P XYLENE	10.913	78545	316768.40625	0.3120
O XYLENE	11.983	0	0.00000	0.0000
BFB	13.477	77141128	944778.31250	80.8951

Totals :

79854568

156.9368

C:\LABQUEST\CHROM001\946623A - Channel A



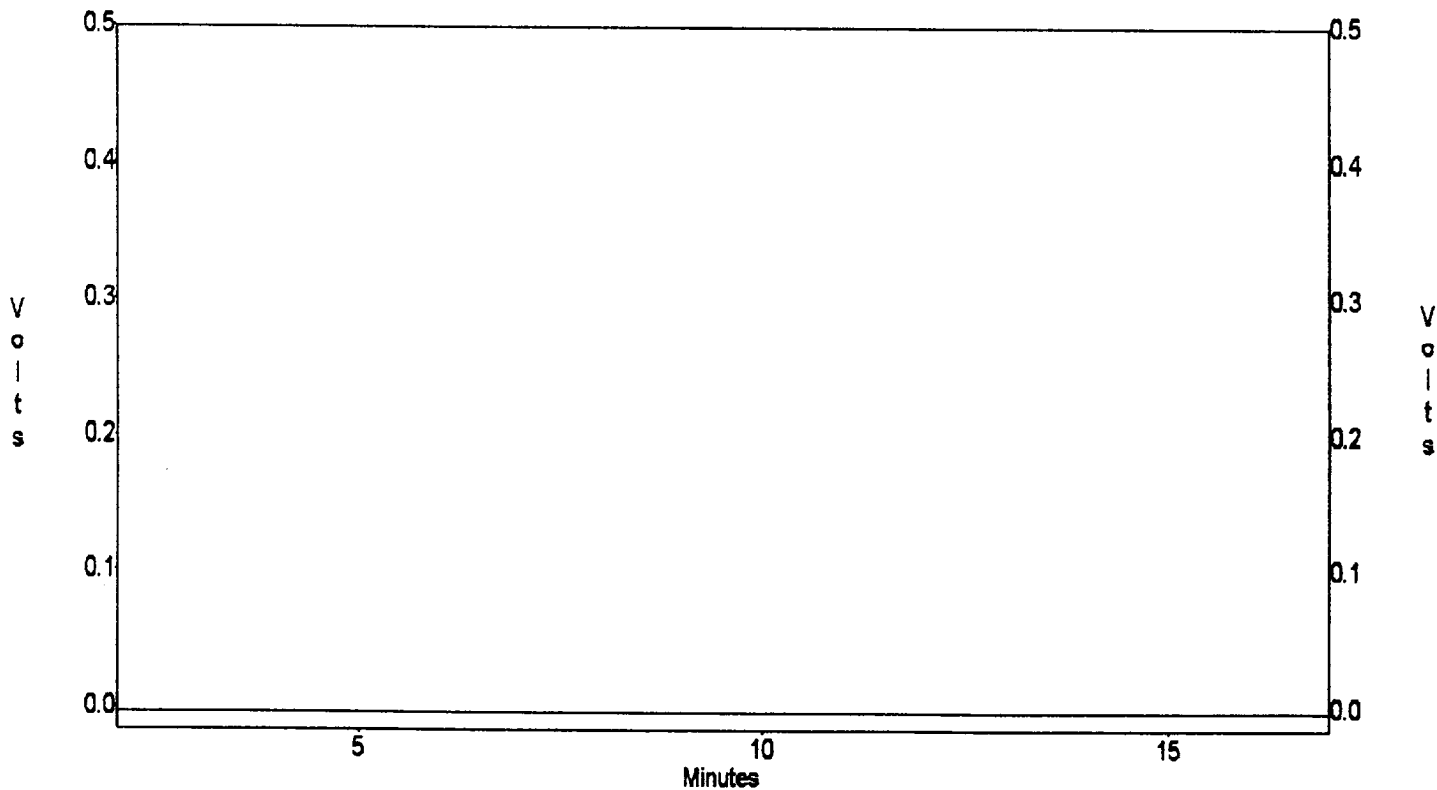
EL PASO NATURAL GAS**EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\946623A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946623,4.98G/100uL
Acquired : Feb 02, 1995 20:42:10
Printed : Feb 02, 1995 21:08:27
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.450	0	0.00000	0.0000
a,a,a TFT	4.950	0	0.00000	0.0000
TOLUENE	6.787	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

C:\LABQUEST\CHROM001\946623A - Channel B



PHASE II

RECORD OF SUBSURFACE LOCATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

(505) 328-2262 FAX (505) 328-2388

Borehole # BH-1
Well # _____
Page 1 of 1

Project Name EPNL PITS
Project Number 14509 Phase 6000 77
Project Location Fluorance AE #1A 90547

Elevation _____
Borehole Location _____
GWL Depth _____
Logged By CM Chance
Drilled By M. Dominguez
Date/Time Started 5/23/95-1427
Date/Time Completed 5/23/95-1610

Well Logged By CM Chance
Personnel On-Site M. Dominguez, K. Padilla, F. Rivera
Contractors On-Site _____
Client Personnel On-Site _____
Drilling Method 4 1/4 I.D. HSA
Air Monitoring Method P10, CBT

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 S BZ BH HS			Drilling Conditions & Blow Counts
0				Backfill to 12'						
15	1	15-17	4"	Bl silty SAND, VF-F sand, loose, sl moist, ddr			0	40	419/1121	1441
20	2	20-22	7"	Gr sandy CLAY, very stiff, med plastic, sl moist, ddr			0	85	130/257	1450
25	3	25-27	9"	lt Grn clayey SAND, VF-F sand, med dense, sl moist			4	89	30/84	1459
30	4	30-32	12"	Br silty SAND, VF-F sand, loose, dry			0	20	0/12	1511
				TDB 30'						
35										
40										

Comments: 30-32' sample submitted to lab (BTX, TPH) CM (22)
9-14# bags Portland, 5-50# bags bentonite, 1-55 gal drum with cuttings on pit

Geologist Signature _____

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 22	946833
MTR CODE SITE NAME:	90547	N/A
SAMPLE DATE TIME (Hrs):	5-23-95	1511
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5-25-95	5-25-95
DATE OF BTEX EXT. ANAL.:	5-30-95	6-1-95
TYPE DESCRIPTION:	VG	light tan/white limestone

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	0.037	MG/KG	1			
TOTAL BTEX	0.112	MG/KG				
TPH (418.1)	41.6	MG/KG			1.96	28
HEADSPACE PID	12	PPM				
PERCENT SOLIDS	97.5	%				

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

The Surrogate Recovery was at 95 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: John Lader

Date: 6/8/95

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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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95/05/25 09:35

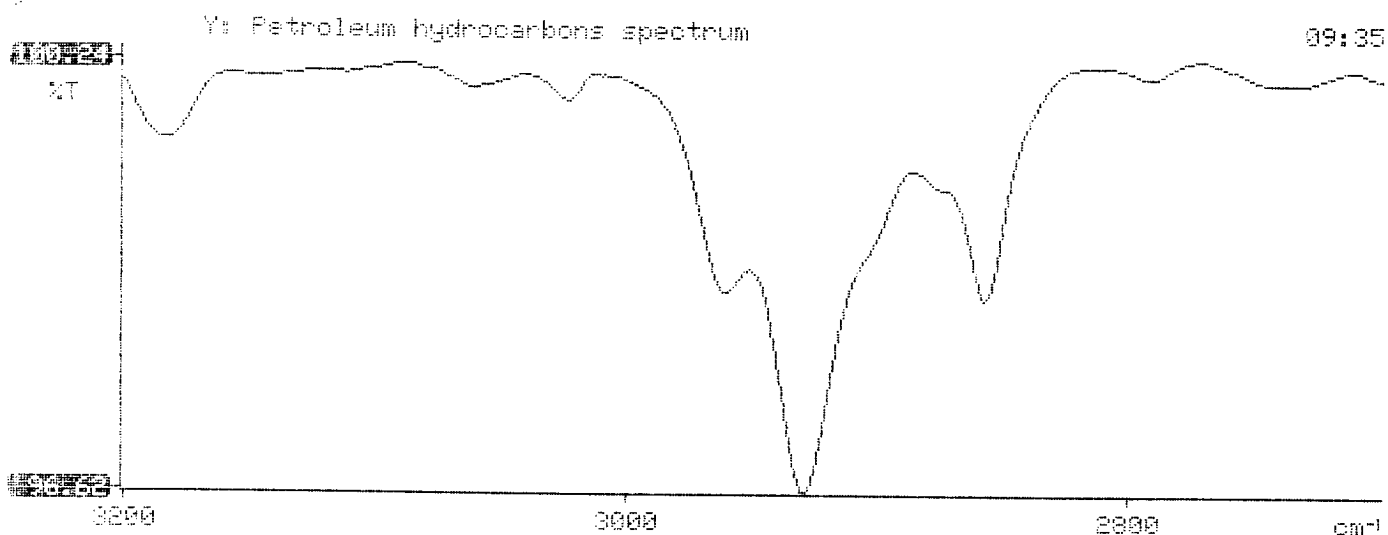
* Sample identification
946833

* Initial mass of sample, g
1.960

* Volume of sample after extraction, ml
28.000

* Petroleum hydrocarbons, ppm
41.611

* Net absorbance of hydrocarbons (2930 cm⁻¹)
0.015





Analytical**Technologies**, Inc.

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

ATI I.D. 505394

June 5, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 05/26/95, 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.

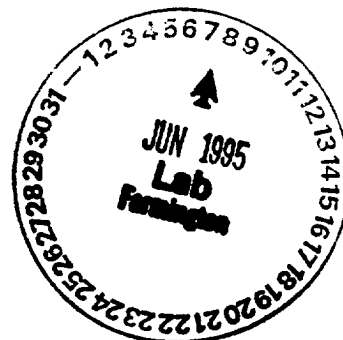
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

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.: 505394
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946833	NON-AQ	05/23/95	05/30/95	06/01/95	1
05	946834	NON-AQ	05/24/95	05/30/95	06/01/95	1

PARAMETER	UNITS	04	05
BENZENE	MG/KG	<0.025	<0.025
TOLUENE	MG/KG	<0.025	0.11
ETHYLBENZENE	MG/KG	<0.025	<0.025
TOTAL XYLENES	MG/KG	0.037	0.046

SURROGATE:

BROMOFLUOROBENZENE (%)	95	99
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