Jenny Ford
DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

Approved

TAPP COM 5
Meter/Line ID - 93945

SITE DETAILS

Legals - Twn: 28 **Rng:** 08 **Sec:** 17 **Unit:** P
NMOCD Hazard Ranking: 60 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 06/10/94**

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.
- 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: 93945 Location: TAPP COM S
Operator #: 0203 Operator Name: AMOCO P/L District: BLANCO
Coordinates: Letter: P Section 17 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 Carrizo Canyon
(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: 60 **POINTS**

REMARKS

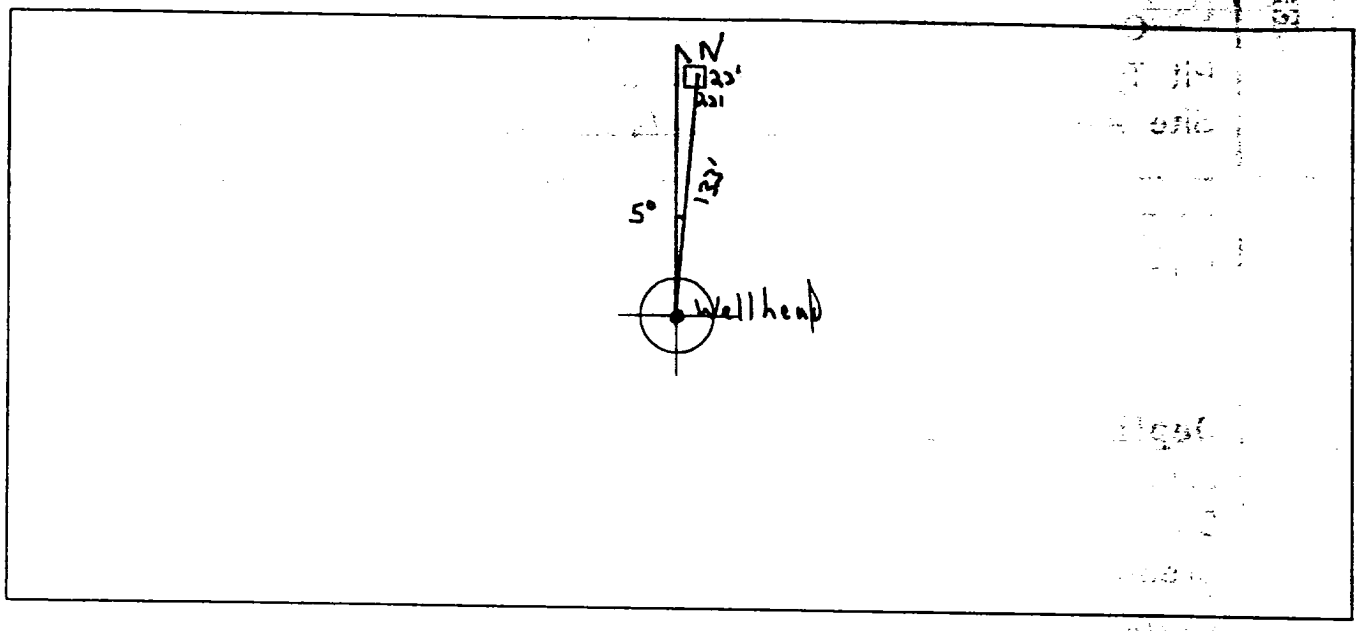
Remarks : Redline - Inside/Vuln - Inside
3 pits. Closed. Pit Dry
Vuln. Area map shows circled area close to well, however, cannot determine from map if area is spring or not.
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 5° Footage from Wellhead 133'

b) Length : 23' Width : 23' Depth : 5'



REMARKS

Remarks :

Pictures @ 1010 (5-8) rolls

END Dump

Completed By:

Cory Chase
Signature

5/20/94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 73945 Location: Tapp Com #5

Coordinates: Letter: P Section 12 Township: 28 Range: 8

Or Latitude _____ Longitude _____

Date Started : 6/10/94 Area: 13 Run: 62

FIELD OBSERVATIONS

Sample Number(s): 4P30 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 324 ppm PID Reading Depth 12 Feet

Yes No

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

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 60

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 6/10/94 Pit Closed By: BEE

REMARKS

Remarks : Remediated pit to 12' took VC sample meter reading was 324 ppm at 78° closed pit

Signature of Specialist: James J Powers

(SP3191) 04/07/9

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JP30	945426
MTR CODE | SITE NAME:	93945	TAPP COM 5
SAMPLE DATE | TIME (Hrs):	10-Jun-94	1000
PROJECT:	Phase I Excavation	
DATE OF TPH EXT. | ANAL.:	6/13/94	6/13/94
DATE OF BTEX EXT. | ANAL.:	6/24/94	6/28/94
TYPE | DESCRIPTION:	VC	Brown Fine Sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.05	MG/KG				
TOLUENE	0.23	MG/KG				
ETHYL BENZENE	0.83	MG/KG				
TOTAL XYLENES	19.3	MG/KG				
TOTAL BTEX	20.4	MG/KG				
TPH (418.1)	345	MG/KG			2.05	28.0
HEADSPACE PID	324	PPM				
PERCENT SOLIDS	91.2	%				

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

The Surrogate Recovery was at 94.7 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: Original: 8/8/94 Re-print: 4/14/98

Test Method for
Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

ILLEGIBLE

Sample Identification

Initial mass of sample, g
1.050

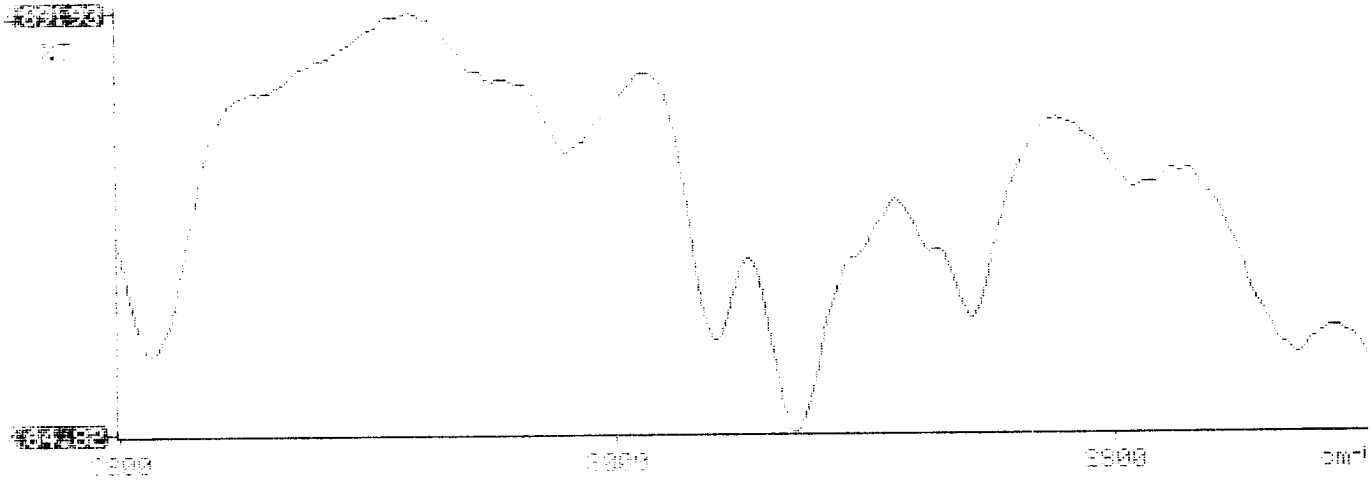
Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm

Net absorbance of hydrocarbons (2930 cm-1)
0.147

1: Petroleum hydrocarbons spectrum

13:14

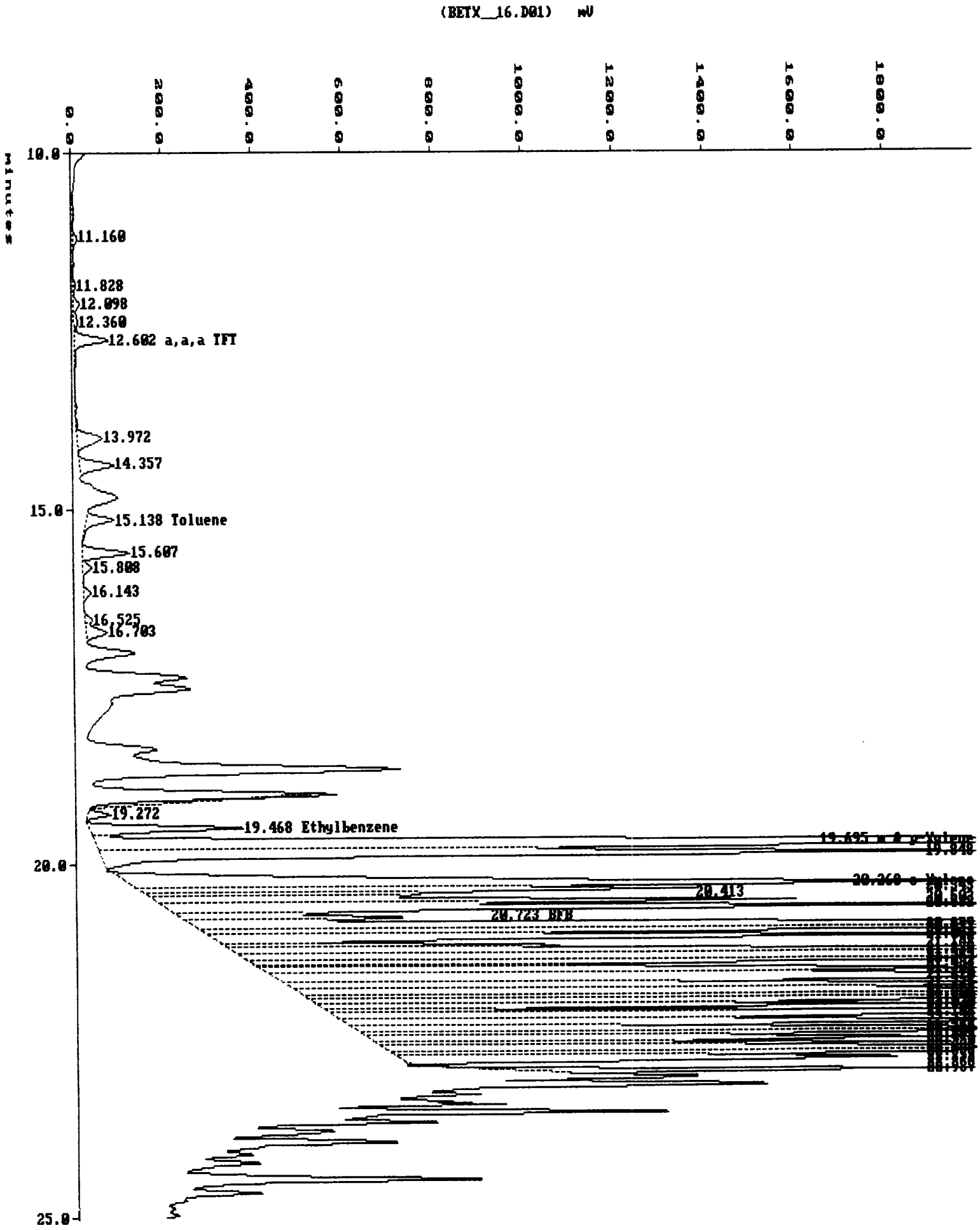


File : BETX__16.D01 945426 MTR 93945 John Lambdin
Run : 01 Type : Sample
Path : C:\CHROM
Collection : 12:05:55 Jun 29 1994 Meth(A): BETX [14:01:22 Jun 28 1994]
Integration: 12:05:55 Jun 29 1994 Meth(A): BETX [14:01:22 Jun 28 1994]
Report : 12:32:06 Jun 29 1994 Meth(A): BETX [14:01:22 Jun 28 1994]

Sample Amt : 1.00000e+0 Dilution: 5.00000e+0

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
			10.244	8.44764e-6	15ug/L	[redacted]
11.160	83699	T		0.00000e+0	0.0000	Unknown
11.828	38650	T		0.00000e+0	0.0000	Unknown
12.098	105792	T		0.00000e+0	0.0000	Unknown
12.360	85164	T		0.00000e+0	0.0000	Unknown
12.601	566759	T	12.601	1.53556e-4	87.02435.1474	R a,a,a TFT
13.972	558047	V		0.00000e+0	0.0000	Unknown
14.357	571370			0.00000e+0	0.0000	Unknown
15.138	434977	V	15.118	1.04385e-5	4.54 22.7025	Toluene
15.607	689891	T		0.00000e+0	0.0000	Unknown
15.808	149102	T		0.00000e+0	0.0000	Unknown
16.143	134720	V		0.00000e+0	0.0000	Unknown
16.525	112932	T		0.00000e+0	0.0000	Unknown
16.703	365148	V		0.00000e+0	0.0000	Unknown
19.272	227818	V		0.00000e+0	0.0000	Unknown
19.468	1793720	T	19.375	9.24564e-6	16.58 82.9204	Ethylbenzene
19.695	31879084	T	19.606	8.62158e-6	274.84 1374.2407	m & p [redacted]
19.848	9572737	V		0.00000e+0	0.0000	Unknown
20.268	12157073	T	20.178	9.25915e-6	112.56 562.8208	o-Xyl[redacted]
20.343	4614749	T		0.00000e+0	0.0000	Unknown
20.413	1865836	T		0.00000e+0	0.0000	Unknown
20.503	5462959	T		0.00000e+0	0.0000	Unknown
20.582	8551413	T		0.00000e+0	0.0000	Unknown
20.723	1775097	T	~~20.793~~	~~4.59608e-6~~	94.68 ~~40.7924~~	BFB
20.877	20049336	T	4.72254e-6	0.00000e+0	0.0000	Unknown
20.927	10373079	T		0.00000e+0	0.0000	Unknown
21.033	8966341	T		0.00000e+0	0.0000	Unknown
21.148	1753029	T		0.00000e+0	0.0000	Unknown
21.233	18328830	T		0.00000e+0	0.0000	Unknown
21.315	32913012	T		0.00000e+0	0.0000	Unknown
21.357	14200534	T		0.00000e+0	0.0000	Unknown
21.436	1314375	T		0.00000e+0	0.0000	Unknown
21.508	7107960	T		0.00000e+0	0.0000	Unknown
21.620	32339584	T		0.00000e+0	0.0000	Unknown
21.725	9222932	T		0.00000e+0	0.0000	Unknown
21.823	12805629	T		0.00000e+0	0.0000	Unknown
21.905	5353829	T		0.00000e+0	0.0000	Unknown
21.940	10247559	T		0.00000e+0	0.0000	Unknown
22.020	5220624	T		0.00000e+0	0.0000	Unknown
22.102	5250483	T		0.00000e+0	0.0000	Unknown
22.143	14229535	T		0.00000e+0	0.0000	Unknown
22.238	19391928	T		0.00000e+0	0.0000	Unknown
22.358	8028995	T		0.00000e+0	0.0000	Unknown
22.403	3936122	T		0.00000e+0	0.0000	Unknown
22.492	5699319	T		0.00000e+0	0.0000	Unknown
22.550	3136098	T		0.00000e+0	0.0000	Unknown
22.635	8609677	T		0.00000e+0	0.0000	Unknown
22.693	3483112	T		0.00000e+0	0.0000	Unknown
22.755	4802170	V		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	V		0.00000e+0	0.0000	Unknown

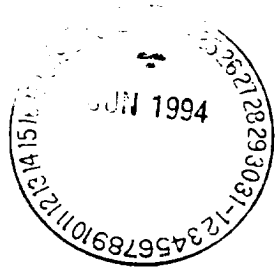

(BETX__16.D01) mV
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
1400.0
1600.0
1800.0
minutes
10.0
15.0
20.0
25.0
11.160
11.828
12.098
12.360
12.602 a,a,a TFT
13.972
14.357
15.138 Toluene
15.607
15.808
16.143
16.525
16.703
19.272
19.468 Ethylbenzene
19.695 m & p-Xylene
20.260 o-Xylene
20.413
20.723 BFB

Analytical **Technologies,** Inc.

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

ATI I.D. **406351**

June 21, 1994



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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/14/94**, 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.: 406351
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
25	945424	NON-AQ	06/10/94	06/15/94	06/17/94	1
26	945425	NON-AQ	06/10/94	06/15/94	06/18/94	20
27	945426	NON-AQ	06/10/94	06/15/94	06/18/94	20

PARAMETER	UNITS	25	26	27
BENZENE	MG/KG	<0.025	<0.50	<0.50
TOLUENE	MG/KG	0.030	43	16
ETHYLBENZENE	MG/KG	<0.025	6.1	5.9
TOTAL XYLENES	MG/KG	0.11	210	120
SURROGATE:				
BROMOFLUOROBENZENE (%)		106	63	44*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

Split Sample

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: EL PASO NATURAL GAS CO.	ATI I.D.	: 406351
PROJECT #	: 24324	DATE RECEIVED	: 06/14/94
PROJECT NAME	: PIT CLOSURE	DATE ANALYZED	: 06/16/94

PARAMETER	UNITS	02	18	27
PETROLEUM HYDROCARBONS, IR	MG/KG	<20	50	3200

EPNG # 945426

Split Sample

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 14505 Phase 6000.77
Project Location Jaffa Com 5 93545

Elevation
Borehole Location QP-S17-T25-R8
GWL Depth
Logged By PL Moss
Drilled By K. Padilla
Date/Time Started 9/5/95 / 1358
Date/Time Completed 9/5/95 / 15:10

Well Logged By
Personnel On-Site C. Chance, K. Padilla, F. Rivera, D. Cl
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼ ID HSA
Air Monitoring Method PID, GI

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 12'.						
5										
10										
15	1	15-17	SS 14"	SAND, fine-grained, loose, light brown, hydrocarbon odor, moist	SP	19	1	6	177/303	14:07
20	2	20-22	SS 10"	silty SAND, f.g., med. dense, light brown, moist, tr. gypsum	SM	24	1.4	52	205/854	14:15
25	3	25-27	SS 16"	clayey SAND, f.g., med. dense, brown with white mottling, moist, tr. gypsum, no odor	SC		20	86	2/6	14:23
30				27' TD						
35										
40										

Comments: PLMS (25-27') sent to lab (BTEX, TPH). BH grouted to surface. Sample bagged and used prior to packing in jar.

Geologist Signature Philip 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:	PLM5	947398
MTR CODE | SITE NAME:	93945	Tapp Com 5
SAMPLE DATE | TIME (Hrs):	09-05-95	1423
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9-6-95	
DATE OF BTEX EXT. | ANAL.:	9/6/95	9/11/95
TYPE | DESCRIPTION:	VG	LIGHT 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)	172	MG/KG			1.99	28
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	88.2	%				

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

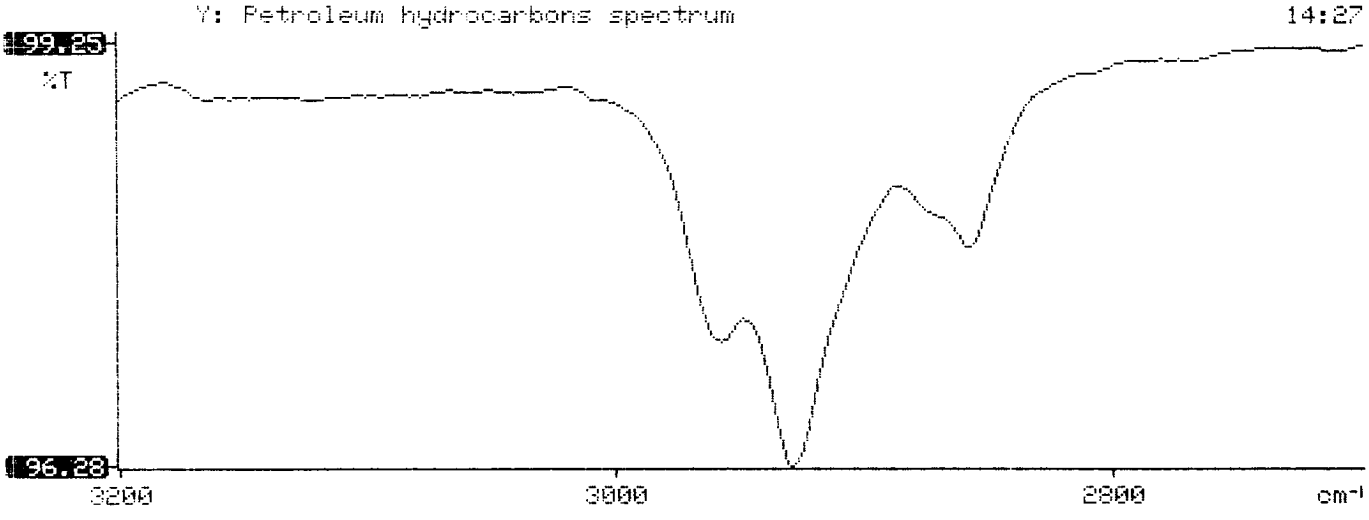
The Surrogate Recovery was at 100 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: AR Date: 9-13-95

```
*************************************************************
*                    Test Method for                        *
*      Oil and Grease and Petroleum Hydrocarbons            *
*                  in Water and Soil                        *
*                                                           *
*            Perkin-Elmer Model 1600 FT-IR                  *
*                  Analysis Report                          *
*************************************************************
*
 95/09/06  14:27
*
*  Sample identification
 947398
*
*  Initial mass of sample, g
 1.990
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 17.186
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.012
*
*
*
```



BTEX SOIL SAMPLE WORKSHEET

File	947398	**Date Printed**	9/12/95
Soil Mass (g)	5.05	**Multiplier (L/g)**	0.00099
Extraction vol. (mL)	20	**DF (Analytical)**	200
Shot Volume (uL)	100	**DF (Report)**	0.19802

				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.495
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.495
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.495
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	0.990
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.495
		Total xylenes (mg/Kg):	**0.000**	1.485
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\091195-0.006
Method : C:\LABQUEST\METHODS\9000.met
Sample ID : 947398,5.05G,100U
Acquired : Sep 11, 1995 14:39:47
Printed : Sep 11, 1995 15:10:12
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.833	49138	-1.1263
a,a,a-TFT	11.257	12782498	99.0400
TOLUENE	14.280	584802	-1.0718
ETHYLBENZENE	19.307	228722	-0.9589
M,P-XYLENES	19.723	1179496	-3.0512
O-XYLENE	20.983	183170	-0.7547
BFB	22.740	113538032	99.6053