EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 2 1 1998

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

ELLIOTT GAS COM L#1
Meter/Line ID - 73144

SITE DETAILS

Legals - Twn: 30 **Rng:** 09 **Sec:** 33 **Unit:** H
NMOCD Hazard Ranking: 20 **Land Type:** 4 - Fee
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/11/94**

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.
- 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: 73144 Location: ELLIOT GAS COM L #1
Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD
Coordinates: Letter: H Section 33 Township: 30 Range: 9
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 4.18.94 Area: 10 Run: 43

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 CABALLO 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: 20 **POINTS**

REMARKS

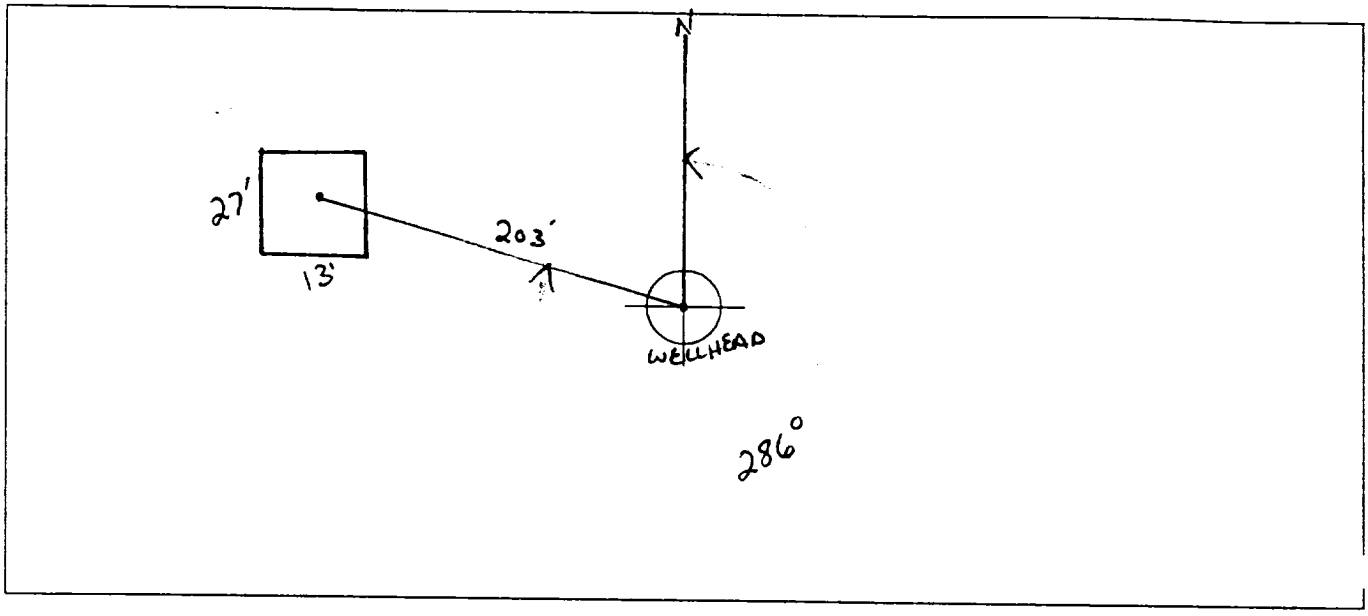
Remarks : ONLY PIT ON LOCATION. PIT IS DRY.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 286° Footage from Wellhead 203'

b) Length : 27' Width : 13' Depth : 2'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 1:15 P.M.
END DUMP

Completed By:

Robert Thompson
Signature

4.18.91
Date

PHASE I
EXCAVATION

GENERAL

Meter: 73144 Location: Elliot Gas Com L #1

Coordinates: Letter: H Section 33 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-11-94 Area: 10 Run: 43

FIELD OBSERVATIONS

Sample Number(s): K-P36 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 615 PID Reading Depth 12' Feet

	Yes	No	
Groundwater Encountered	☐ (1)	☒ (2)	Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 55
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

Envirotech	☐ (1)	☒ (3)	Tierra
Other Facility	☐ (2)	Name:	_____

Pit Closure Date: 5-11-94 Pit Closed By: B.E.I

REMARKS

Remarks : Soil is Light Black with A Smell. Some Line marker. 12' Soil still Dark gray. ON All Four walls And floor of Pit. P.I.D 615

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 36	945125
MTR CODE | SITE NAME:	73144	N/A
SAMPLE DATE | TIME (Hrs):	5-11-94	0900
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-12-94	5-12-94
DATE OF BTEX EXT. | ANAL.:	5/18/94	5/21/94
TYPE | DESCRIPTION:	VC	Grey Sand | Clay

REMARKS: Split w/ ATI

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Result
			DF	Q	M(g)	V(ml)	
BENZENE	12.0	MG/KG					5.7
TOLUENE	> 388	MG/KG		D			130
ETHYL BENZENE	104	MG/KG					57
TOTAL XYLENES	> 1000	MG/KG		D			780
[redacted]BTEX	> 1500	MG/KG	0.005988		.501	30	97
[redacted] 15,800	~~1570~~ ANP 3/14/94	MG/KG			.53	28	30,0
HEADSPACE PID	615	PPM					DF = 5
[redacted]SOLIDS	83.7	%					

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

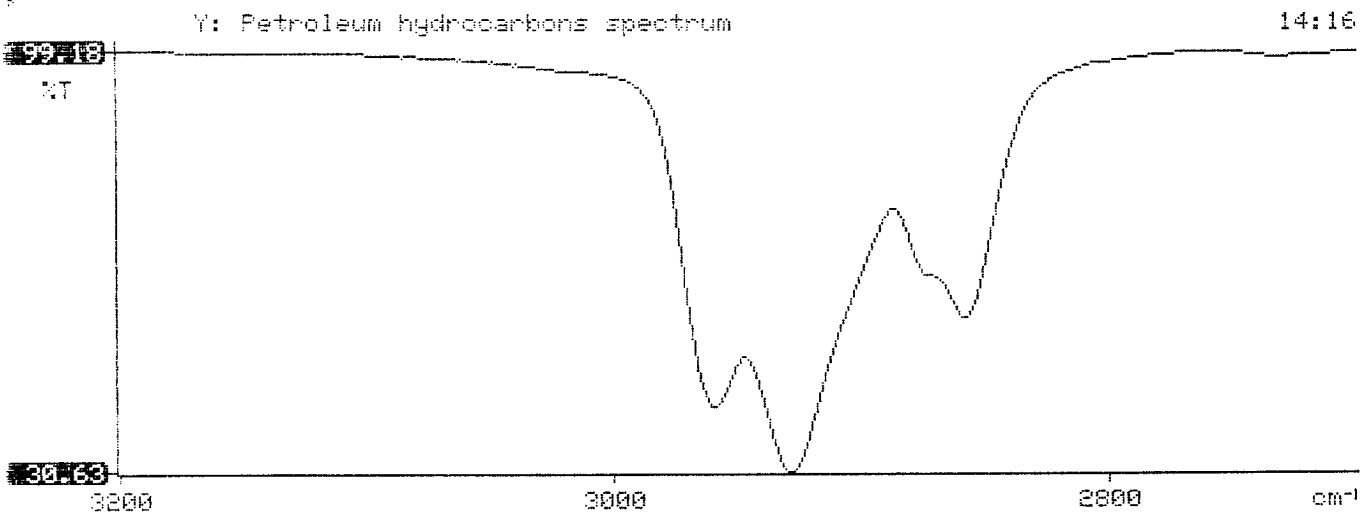
The Surrogate Recovery was at 215 % for this sample All QA/QC was acceptable. Surrogate = N/A

Narrative: Surrogate recovery was outside EPNG QC limits due to matrix interference. ATI results attached. No surrogate recovery for ATI due to sample dilution

DF = Dilution Factor Used

Approved By: John Fuller Date: 7/14/94

```
*****************************************************
*                    Test Method for                *
*      Oil and Grease and Petroleum Hydrocarbons    *
*                  in Water and Soil                *
*                                                   *
*            Perkin-Elmer Model 1600 FT-IR          *
*                  Analysis Report                  *
*****************************************************
*
 94/05/12  14:16
*
*  Sample identification
 945125
*
*  Initial mass of sample, g
 0.530
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 15765.437
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.509
*
*
*
```



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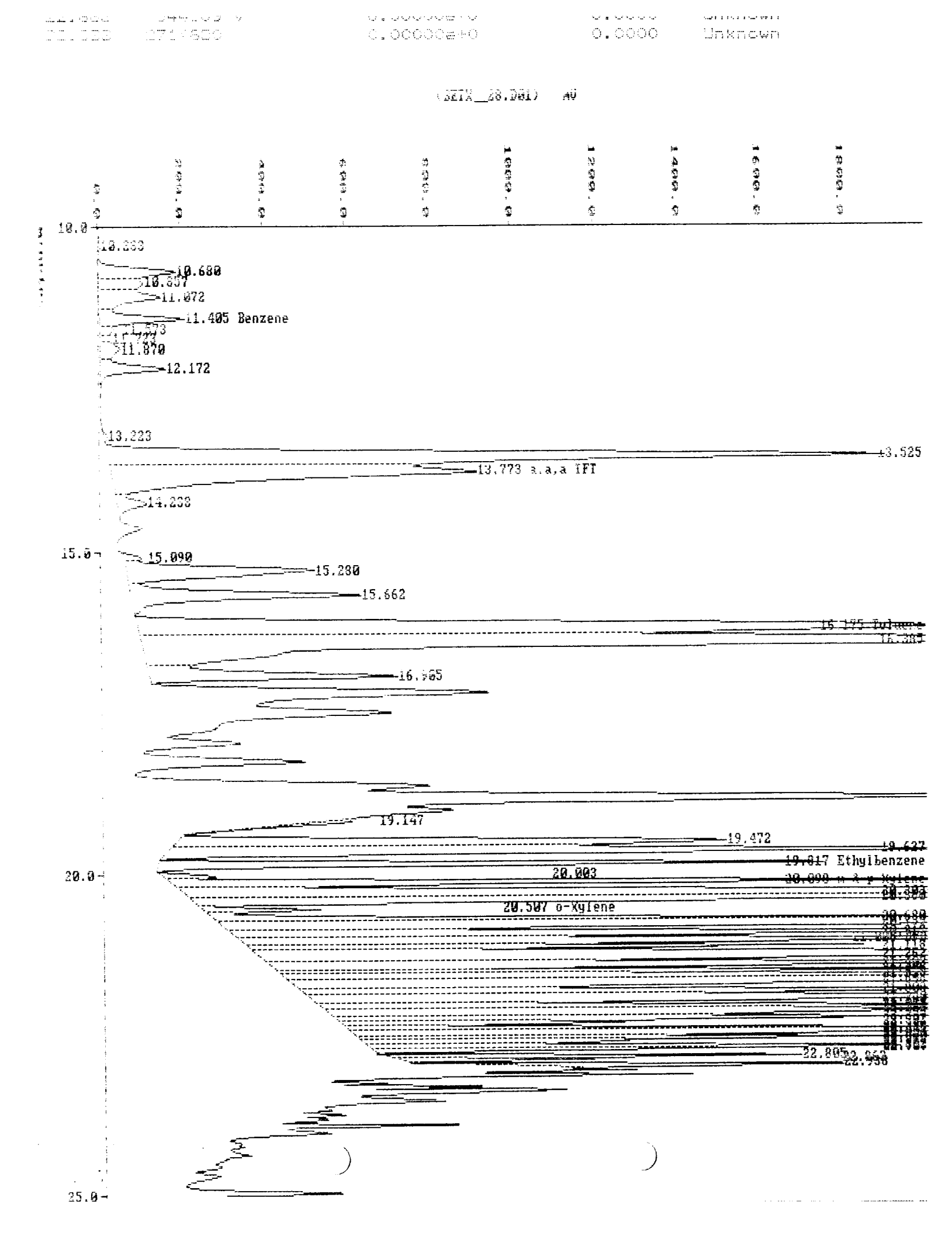
Run : [illegible]   Type : Sample
Path : C:\CHROM
Calibration : 15:19:48 May 21 1994   Meth(A): BETX   [09:15:25 May 18 1994]
Integration: 15:19:48 May 21 1994   Meth(A): BETX   [09:15:25 May 18 1994]
Report : 15:43:50 May 21 1994   Meth(A): BETX   [09:15:25 May 18 1994]

Sample Amt : 1.00000e+0   Dilution: 2.00000e+2

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
[illegible]	[illegible]	T		0.00000e+0	0.0000	Unknown
[illegible]	1680091	T		0.00000e+0	0.0000	Unknown
10.857	1040005	T		0.00000e+0	0.0000	Unknown
11.071	1871121	T		0.00000e+0	0.0000	Unknown
11.405	1472416	T	11.392	6.81201e-6	10.03 2006.4072	Benzene
[illegible]	159970	T		0.00000e+0	0.0000	Unknown
11.720	179969	T		0.00000e+0	0.0000	Unknown
[illegible]	539761	T		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]			0.00000e+0	0.0000	Unknown
[illegible]	95540	T		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	T		0.00000e+0	0.0000	Unknown
13.773	11299826	T	13.773	1.68706e-4	381268.6375	F a,a,a TFT
[illegible]	826940	V		0.00000e+0	0.0000	Unknown
15.090	236408	T		0.00000e+0	0.0000	Unknown
15.280	4610540	T		0.00000e+0	0.0000	Unknown
15.662	4715034	V	7.62062e-6	0.00000e+0	0.0000	Unknown
16.175	20482070	T	~~[illegible]~~	~~7.[illegible]~~	324,2 ~~[illegible]~~	Toluene x200 = 64,800
16.385	42540756	T		0.00000e+0	0.0000	Unknown
18.905	4311586			0.00000e+0	0.0000	Unknown
19.147	275612	V		0.00000e+0	0.0000	Unknown
19.471	9597351	T		0.00000e+0	0.0000	Unknown
19.827	11214894	V	8.27176e-6	0.00000e+0	0.0000	Unknown
19.317	6295270	V	~~19.905~~	~~7.[illegible]~~	86.53 ~~[illegible]~~	Ethylbenzene x200 = 17,300
[illegible]	339912	T		0.00000e+0	0.0000	Unknown
[illegible]	10461038	T	~~20.087~~	~~7.[illegible]~~	583.8 ~~[illegible]~~	m & p-Xylene x200 = 117,000
[illegible]	10417084	T	9.19982e-6	0.00000e+0	0.0000	Unknown
20.360	12502205	T		0.00000e+0	0.0000	Unknown
[illegible]	939297	T	~~[illegible]~~	~~[illegible]~~	253,4 ~~[illegible]~~	o-Xylene x200 = 50,700
20.580	2858972	T	8.3324e-6	0.00000e+0	0.0000	Unknown
20.731	30416921	T		0.00000e+0	0.0000	Unknown
20.916	10980220	T		0.00000e+0	0.0000	Unknown
21.009	10527572	T	~~[illegible]~~	~~[illegible]~~	215,4 ~~[illegible]~~	BFB
21.115	1174624	T	5.43709e-6	0.00000e+0	0.0000	Unknown
21.231	39513588	T		0.00000e+0	0.0000	Unknown
[illegible]	11068900	T		0.00000e+0	0.0000	Unknown
21.495	2988696	T		0.00000e+0	0.0000	Unknown
21.575	10537080	T		0.00000e+0	0.0000	Unknown
21.648	34696168	T		0.00000e+0	0.0000	Unknown
21.808	9419307	T		0.00000e+0	0.0000	Unknown
21.940	29760238	T		0.00000e+0	0.0000	Unknown
22.053	5704810	T		0.00000e+0	0.0000	Unknown
22.116	12155034	T		0.00000e+0	0.0000	Unknown
22.236	6795705	T		0.00000e+0	0.0000	Unknown
22.307	2240636	T		0.00000e+0	0.0000	Unknown
22.398	4552408	T		0.00000e+0	0.0000	Unknown
22.447	9798001	T		0.00000e+0	0.0000	Unknown
22.530	4064920	T		0.00000e+0	0.0000	Unknown
22.585	2400709	T		0.00000e+0	0.0000	Unknown
22.652	4050892	T		0.00000e+0	0.0000	Unknown
22.707	1086593	V		0.00000e+0	0.0000	Unknown

[signature] 5/22/94


10.0
15.0
20.0
25.0
10.680
11.072
11.405 Benzene
11.870
12.172
13.223
13.525
13.773 a,a,a TFT
14.238
15.090
15.230
15.662
16.965
19.147
19.472
19.617
19.817 Ethylbenzene
20.003
20.507 o-Xylene
22.805

[illegible] : [illegible]_[illegible] [illegible] [illegible] John Lambdin

Type : Sample

[illegible]

[illegible] : [illegible]:10:48 May 21 1994 Meth(ID): DETX [illegible] 10:07:16 May 17 1994 [illegible]

[illegible]: [illegible]:11:40 May 21 1994 Meth(C): DETX [illegible] 10:07:16 May 17 1994 [illegible]

[illegible] : 13:46:10 May 21 1994 Meth(R): DETX [illegible] 10:07:16 May 17 1994 [illegible]

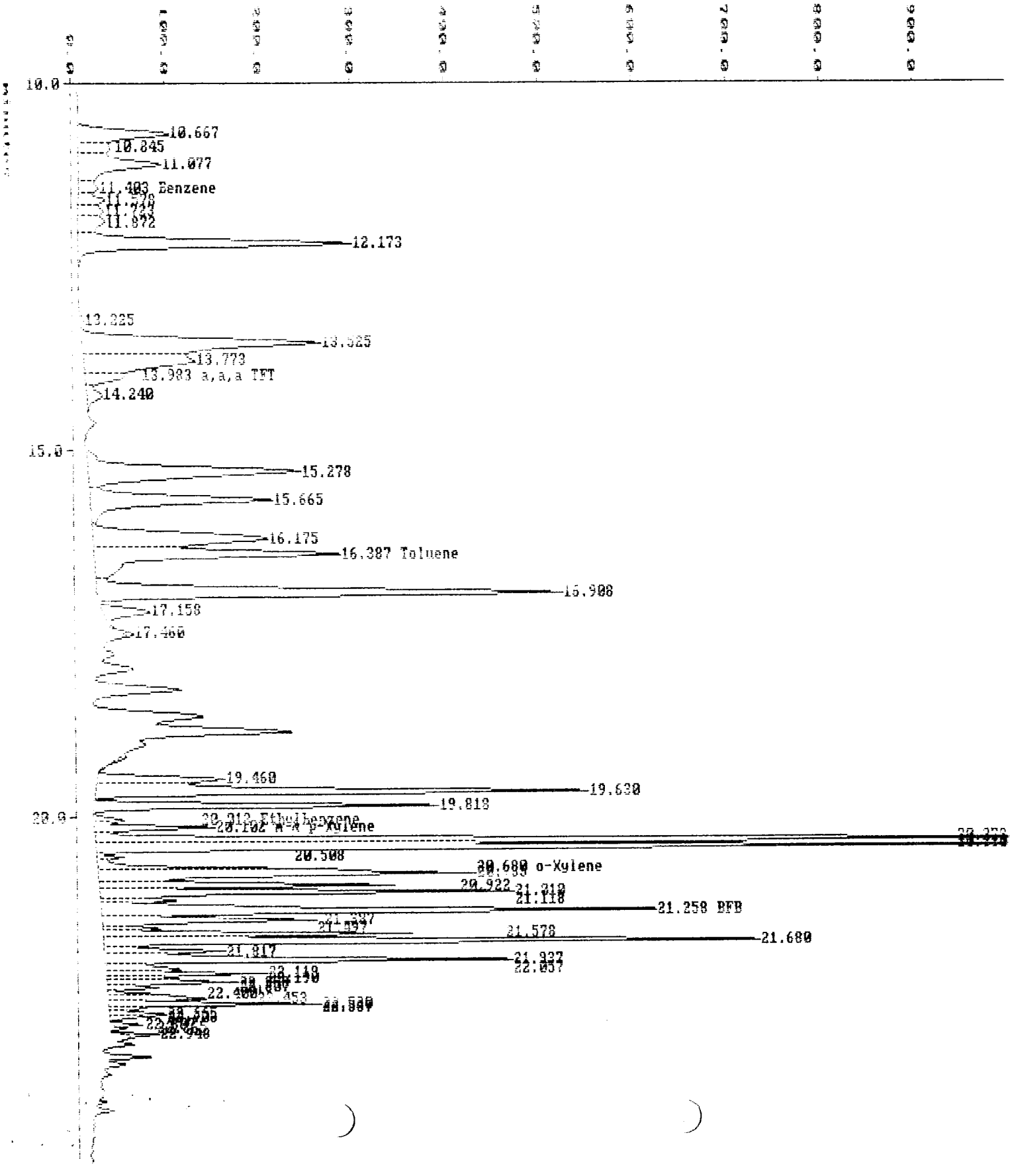
Sample Amt : [illegible] Dilution: 2.0000e+2

INTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
[illegible]	327387	T		0.00000e+0	0.0000	Unknown
[illegible]	102104	T		0.00000e+0	0.0000	Unknown
[illegible]	355790	T		0.00000e+0	0.0000	Unknown
11.[illegible]	177057	T	11.450	1.79498e-4	6337.0527	Benzene
11.[illegible]	239040	T		0.00000e+0	0.0000	Unknown
11.722	112006	T		0.00000e+0	0.0000	Unknown
[illegible]	321505	T		0.00000e+0	0.0000	Unknown
[illegible]	1098874			0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	T		[illegible]	0.0000	Unknown
[illegible]	3149298	T		0.00000e+0	0.0000	Unknown
[illegible]	1020446	T		0.00000e+0	0.0000	Unknown
13.980	283436	T	13.983	0.00000e+0	0.0000	R a,a,a TFT
[illegible]	[illegible]			0.00000e+0	0.0000	Unknown
15.[illegible]	2166601	T		0.00000e+0	0.0000	Unknown
15.[illegible]	1327104	T		0.00000e+0	0.0000	Unknown
16.175	1986154	T		0.00000e+0	0.0000	Unknown
16.387	2165170	T	16.360,	2.10040e-4	91302.2891	Toluene
16.900	3385512	V		0.00000e+0	0.0000	Unknown
17.158	394426	V		0.00000e+0	0.0000	Unknown
17.[illegible]	52131			0.00000e+0	0.0000	Unknown
19.460	776217	T		0.00000e+0	0.0000	Unknown
19.[illegible]	2662015	T		0.00000e+0	0.0000	Unknown
[illegible]	1410062	V		0.00000e+0	0.0000	Unknown
[illegible]	100236	T	20.000	1.06552e-4	[illegible]121.0125	Ethylbenzene
[illegible]	420931	T	20.155	2.07231e-4	[illegible]9903.8540	m & p-Xylene
[illegible]	[illegible]010410	T		0.00000e+0	0.0000	Unknown
20.[illegible]	3988517	T		0.00000e+0	0.0000	Unknown
[illegible]	104501	T		0.00000e+0	0.0000	Unknown
20.[illegible]	341750	T	20.620	2.16285e-4	36411.6875	o-Xylene
[illegible]	1385105	T		0.00000e+0	0.0000	Unknown
[illegible]	1104732	T		0.00000e+0	0.0000	Unknown
21.[illegible]	1527317	T		0.00000e+0	0.0000	Unknown
[illegible]	225024	T		0.00000e+0	0.0000	Unknown
[illegible]	264[illegible]	T	[illegible]	3.42589e-6	4452.7510	BFB
[illegible]	919400	T		0.00000e+0	0.0000	Unknown
[illegible]	148646	T		0.00000e+0	0.0000	Unknown
21.579	1050825	T		0.00000e+0	0.0000	Unknown
21.[illegible]	2562733	T		0.00000e+0	0.0000	Unknown
21.917	497014	T		0.00000e+0	0.0000	Unknown
21.936	1500625	T		0.00000e+0	0.0000	Unknown
22.057	[illegible]	T		0.00000e+0	0.0000	Unknown
22.118	532449	T		0.00000e+0	0.0000	Unknown
22.190	172494	T		0.00000e+0	0.0000	Unknown
22.239	385451	T		0.00000e+0	0.0000	Unknown
22.307	156969	T		0.00000e+0	0.0000	Unknown
22.400	155207	T		0.00000e+0	0.0000	Unknown
22.453	339960	T		0.00000e+0	0.0000	Unknown
22.530	550779	T		0.00000e+0	0.0000	Unknown
22.557	104041	T		0.00000e+0	0.0000	Unknown
22.635	186148	T		0.00000e+0	0.0000	Unknown

22.158	32804 V	0.00000e+0	0.0000	Unknown
22.748	22482	0.00000e+0	0.0000	Unknown

(BETX_28.D02) mV



Analytical Technologies, Inc.

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

ATI I.D. **405359**

May 25, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/13/94**, 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.

EPA Method 418.1 analysis was added for sample 945125 on 05/17/94.

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.: 405359
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945124	NON-AQ	05/11/94	05/17/94	05/18/94	20
08	~~945125~~	NON-AQ	05/11/94	05/17/94	05/18/94	50
09	945126	NON-AQ	05/11/94	05/17/94	05/18/94	1

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.50	5.7	<0.025
TOLUENE	MG/KG	4.1	130	<0.025
ETHYLBENZENE	MG/KG	10	57	<0.025
TOTAL XYLENES	MG/KG	140	780	0.057
SURROGATE:				
BROMOFLUOROBENZENE (%)		182*	NA**	96

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE
**SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

Split 888 sample dwd 6/29/94

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: EL PASO NATURAL GAS CO.	ATI I.D.	: 405359
PROJECT #	: 24324	DATE RECEIVED	: 05/13/94
PROJECT NAME	: PIT CLOSURE	DATE ANALYZED	: 05/17/94

PARAMETER	UNITS	08
PETROLEUM HYDROCARBONS, IR	MG/KG	30000

EPNG Sample # 945125

Split Sample

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH1
Well #
Page 1 of 2

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

Project Name EPNG Pits
Project Number 11957 Phase 4002
Project Location Elliot Gas Com L#1 73144

Elevation
Borehole Location
GWL Depth
Logged By CM Chaney
Drilled By M. Donahue
Date/Time Started 5/17/95 - 1100
Date/Time Completed 5/17/95 - 1530

Well Logged By CM Chaney
Personnel On-Site M. Donahue, K. Padilla, F. Pluer
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼ 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: NDU's BZ	BH	HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	9"	DK Grey, silty Sand, vf-f sand, loose, sl moist			0	50	13/105	1111 hr
20	2	20-22	6"	AA Br silty Clay, med stiff, low plastic sl moist			4	80	62/211	1117
25	3	25-27	14"	AA Gr silty Sand, f-med sand, abt gravel, loose, dry			11	260	141/1800	1125
30	4	30-32	10"	DK Br sandy Clay, vf sand, sdft, med plastic, sl moist			12	300	293/3600	1132
35	5	35-37	6"	Br sandy gravel, loose, f-med sand, sl moist			9	380	96/1400	Drlng Harder (Gravel) 1152
40	6	39.5-40.5	5"	Br silty Clay, Hard, Nonplastic, dry			6		18/600	1230

Comments:

Geologist Signature

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH1
Well #
Page 2 of 2

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

Project Name EPNG PITS
Project Number 11957 Phase 4002 77
Project Location Elliott GC LH1 73144

Elevation
Borehole Location
GWL Depth
Logged By CM Chance
Drilled By M Donahue
Date/Time Started
Date/Time Completed

Well Logged By CM Chance
Personnel On-Site M. Donahue, K Padilla, F. Rivera
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4 I.D. 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: NDU BZ	BH	HS	Drilling Conditions & Blow Counts
0										
45	7	45-46.5	8"	Blk Shale, carbonaceous, ~~fissile~~ friable			8	80	71/830	12sa
	8	47.5-48	3"	lt Br Sand, f-med sand, abm Qtz, loose, sl moist			9	65	21/652	Drlng Harder @47' Refusal @47.5' 13/45
50				TDB 47.5'						
55										
60										
65										
70										
75										
80										

Comments: Refusal @ 47.5. Sample submitted to lab from 47.5-48' int. (HS:652) CMC 9

Geologist Signature

Plase II
Drilling

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:	CMC 9	96820
MTR CODE | SITE NAME:	73144	N/A
SAMPLE DATE | TIME (Hrs):	5-17-95	1345
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-18-95	5-18-95
DATE OF BTEX EXT. | ANAL.:	5/18/95	5/18/95
TYPE | DESCRIPTION:	VG	Light Brown - small stones

REMARKS: This sample is biased due to being heated for Field PID prior to collection for the lab.

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.24	MG/KG	0.49751		2.01	20
TOLUENE	<1.24	MG/KG				
ETHYL BENZENE	<1.24	MG/KG				
TOTAL XYLENES	5.96	MG/KG				
TOTAL BTEX	5.96	MG/KG				
TPH (418.1)	82.5	MG/KG			2.01	28
HEADSPACE PID	652	PPM				
PERCENT SOLIDS	91.7	%				

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

The Surrogate Recovery was at 84.1 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: John Fowler Date: 5/23/95

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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                     *
**********************************************************
*
 95/05/18  13:39
*
*  Sample identification
 946820
*
*  Initial mass of sample, g
 2.010
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 82.527
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.020
*
*
*
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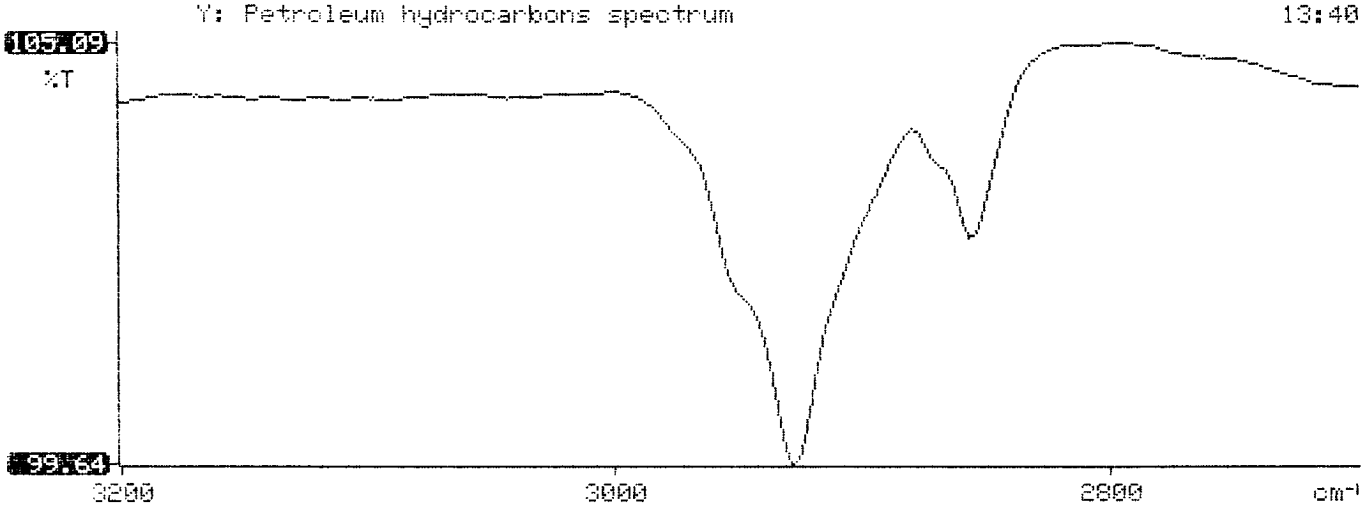


BTEX SOIL SAMPLE WORKSHEET

File	946820B	**Date Printed**	5/19/95
Soil Mass (g)	2.01	**Multiplier (L/g)**	0.00249
Extraction vol. (mL)	20	**DF (Analytical)**	200
Shot Volume (uL)	100	**DF (Report)**	0.49751

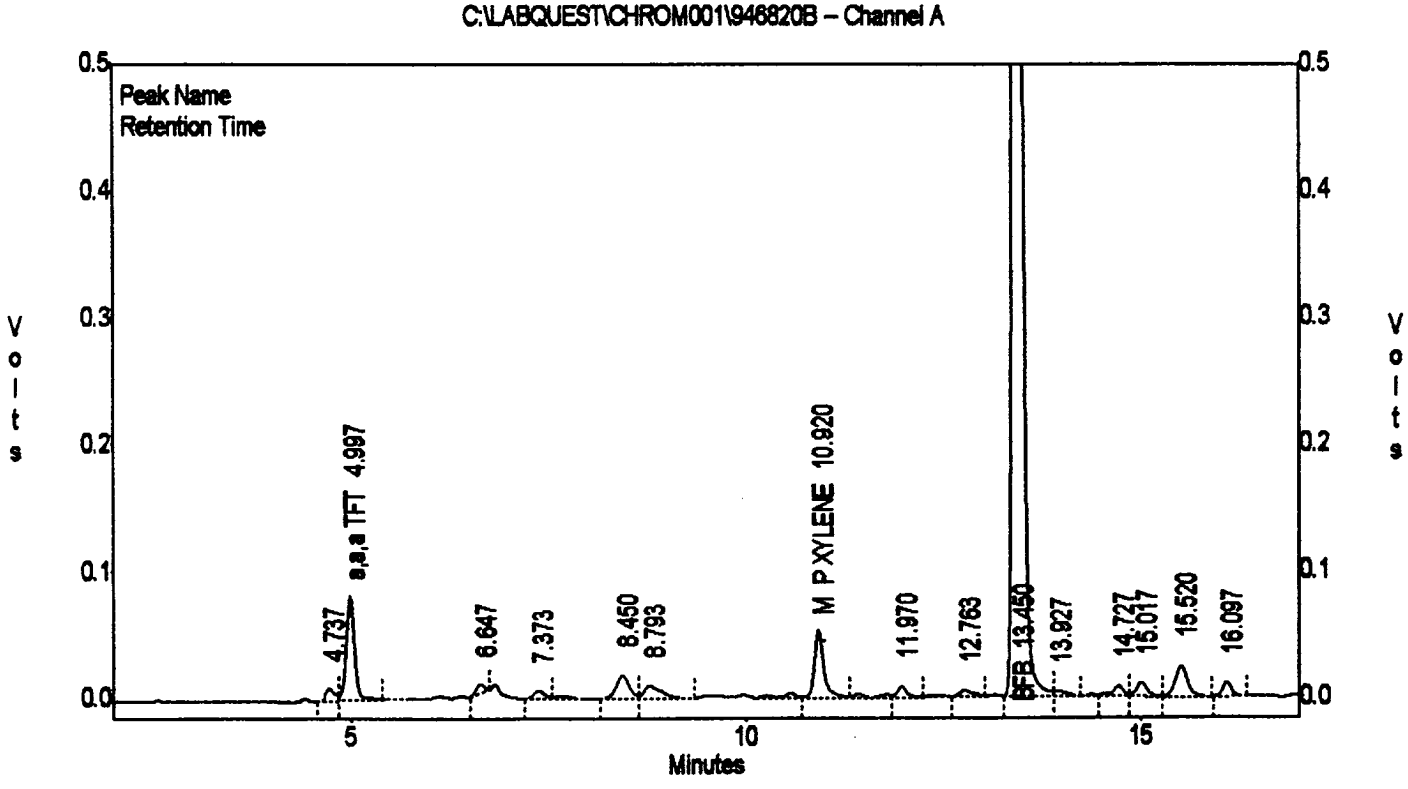
				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.00**	1.244
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.00**	1.244
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.00**	1.244
p & m-xylene (ug/L)	11.97	p & m-xylene (mg/Kg):	5.96	2.488
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.00	1.244
		Total xylenes (mg/Kg):	**5.96**	3.731
		Total BTEX (mg/Kg):	**5.96**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946820B
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946820,2.01/100uL
Acquired : May 19, 1995 02:11:28
Printed : May 19, 1995 02:37:44
User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.480	0	0.0000
a,a,a TFT	4.997	613060	81.9977
TOLUENE	6.807	0	0.0000
ETHYLBENZENE	10.550	0	0.0000
M & P XYLENE	10.920	443058	11.9695
O XYLENE	11.763	0	0.0000
BFB	13.450	12567063	84.1107



EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946820B
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946820,2.01/100uL
Acquired : May 19, 1995 02:11:28
Printed : May 19, 1995 02:37:48
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.337	0	0.0000
a,a,a TFT	4.997	804501	95.6632
TOLUENE	6.640	114409	8.3214
ETHYLBENZENE	10.637	0	0.0000
M & P XYLENE	10.923	356628	13.8144
O XYLENE	11.890	0	0.0000
BFB	13.450	4459379	93.4074