DEPUTY OIL & GAS INSPECTOR

DEC 2 1998

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

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

HANCOCK #1A
Meter/Line ID - 90056

SITE DETAILS

Legals - Twn: 31 **Rng:** 13 **Sec:** 01 **Unit:** E
NMOCD Hazard Ranking: 20 **Land Type:** 4 - Fee
Operator: MERIDIAN OIL INC **Pit Closure Date: 04/22/94**

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: 90056 Location: HANCOCK #1A

Operator #: ~~4987~~ ET 4.4.94 2999 Operator Name: MERIDIAN P/L District: KUTZ

Coordinates: Letter: E Section 1 Township: 31 Range: 13

Or Latitude _____ Longitude _____

Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: ___

Site Visit Date: 4.4.94 Run: 02 21

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside Vulnerable Zone ☒
Outside ☐

Land Type:
BLM ☐
State ☐
Fee ☒
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☐
50 Ft to 99 Ft (10 points) ☒
Greater Than 100 Ft (0 points) ☐

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? ☐ YES (20 points) ☒ NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) ☐
200 Ft to 1000 Ft (10 points) ☒
Greater Than 1000 Ft (0 points) ☐
Name of Surface Water Body McDERMOTT ARROYO
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 20 **POINTS**

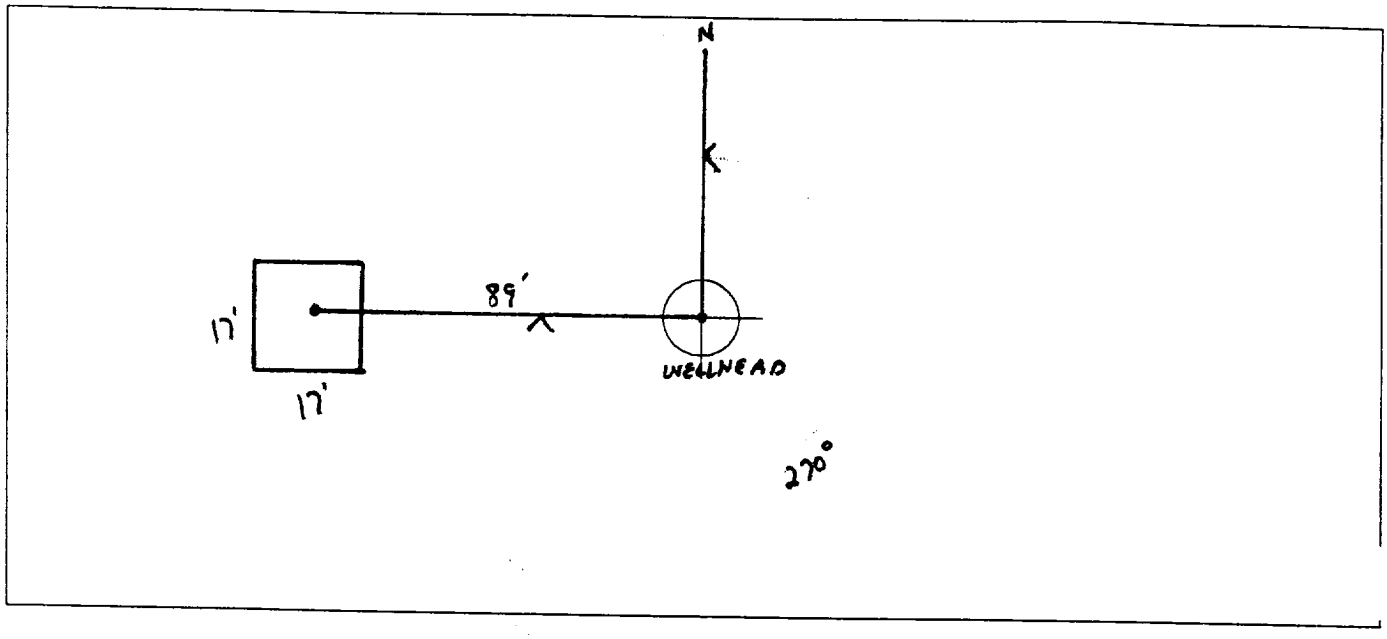
REMARKS

Remarks : THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 270° Footage to Wellhead 89'
b) Degrees from North _____ Footage to Dogleg _____
Dogleg Name _____
c) Length : 12' Width : 12' Depth : 4'



REMARKS

Remarks :
STARTED TAKING PICTURES AT 9:44 A.M.
END DUMP

Completed By:
Robert Thompson
Signature

4.4.94
Date

PHASE I
EXCAVATION

FII) PIT REMEDIATION/CLOS RE FORM

GENERAL

Meter: 90056 Location: Hancock #1A

Coordinates: Letter: E Section 1 Township: 31 Range: 13

Or Latitude _____ Longitude _____

Date Started : 4-22-94 Area: 02 Run: 31

FIELD OBSERVATIONS

Sample Number(s): 945003 VW24 945004 VW25 945005 VW26 _____

Sample Depth: 8 Feet

Final PID Reading 244 PID Reading Depth 8 Feet

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

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 25
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

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

Pit Closure Date: 4-22-94 Pit Closed By: BEI

REMARKS

Remarks : Hit Rock at 8' & couldn't dig any further. NO line Markers

Signature of Specialist: Vale Wilson

(SP3191) 04/07/94

20 RERUN BTEX

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW24	945003
MTR CODE | SITE NAME:	90056	N/A
SAMPLE DATE | TIME (Hrs):	4/22/94	1030
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	N/A	N/A
DATE OF BTEX EXT. | ANAL.:	5/6/94 → 5/24/94	5/14/94
TYPE | DESCRIPTION:	~~N/A~~ VC	N/A

See attached pg.

REMARKS: Re-extract for BTEX at 0.5g/20ml

RESULTS 250ul / 4.75ml H_2O / 2ml std

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
BENZENE	2.42	MG/KG				
TOLUENE	56.2	MG/KG				
ETHYL BENZENE	12.0	MG/KG				
TOTAL XYLENES (42.7 + 54.7)	97.4	MG/KG				
TOTAL BTEX	168.0 5/16/94	MG/KG	0.03125 ~~0.0125~~ 5/16/94		.64	20
TPH (418.1)	1530	MG/KG				
HEADSPACE PID	249	PPM				
PERCENT SOLIDS	82.0	%				

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

The Surrogate Recovery was at 84.5 % for this sample All QA/QC was acceptable.

Narrative:
The Field Duplicate on this sample appears to not have been collected properly.

DF = Dilution Factor Used

Approved By: John Fambrough Date: 5/21/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID (Amd 4/29/94)
SAMPLE NUMBER:	VW 24	~~940500~~ 3945003
MTR CODE | SITE NAME:	90056	N/A
SAMPLE DATE | TIME (Hrs):	4/22/94	1030
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	4-28-94	4/28/94
DATE OF BTEX EXT. | ANAL.:	5/2/94	5/1
TYPE | DESCRIPTION:	VC	Grey Sand/ Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG	.6250		.64	20
TPH (418.1)	1536	MG/KG			2.04	28
HEADSPACE PID	249	PPM				
PERCENT SOLIDS	82.0	%				

IDF
20

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

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

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: _____

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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                         *
******************************************************
```

?4/04/28 14:22

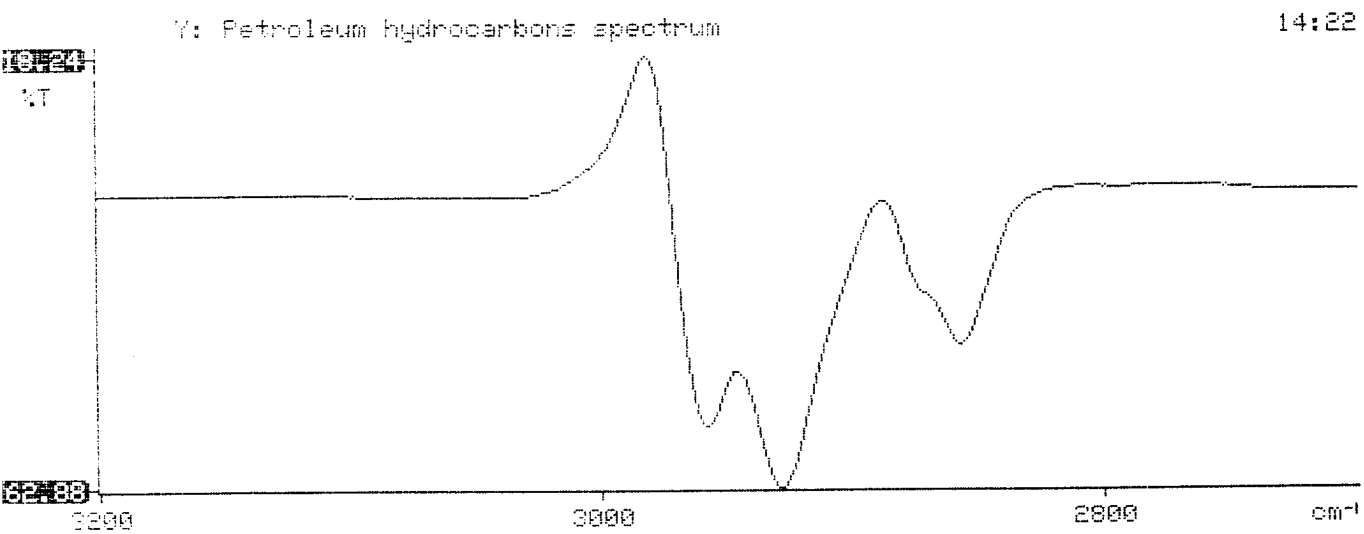
Sample identification
?4500I

Initial mass of sample, g
?.040

Volume of sample after extraction, ml
?8.000

Petroleum hydrocarbons, ppm
1533.376

Net absorbance of hydrocarbons (2930 cm-1)
?.204



Ext Vol = 20 mL = .02 L

Sample mass = 0.64 g

uL Inj = 250 uL

FACTOR = .03125

File : BETX__06.D01 945003 1/20 John Lambdin

Run : 01 Type : Sample

Path : C:\CHROM

Collection : 09:39:03 May 14 1994 Meth(A): BETX [08:36:42 May 14 1994]

Integration: 09:39:03 May 14 1994 Meth(A): BETX [08:36:42 May 14 1994]

Report : 10:05:15 May 14 1994 Meth(A): BETX [08:36:42 May 14 1994]

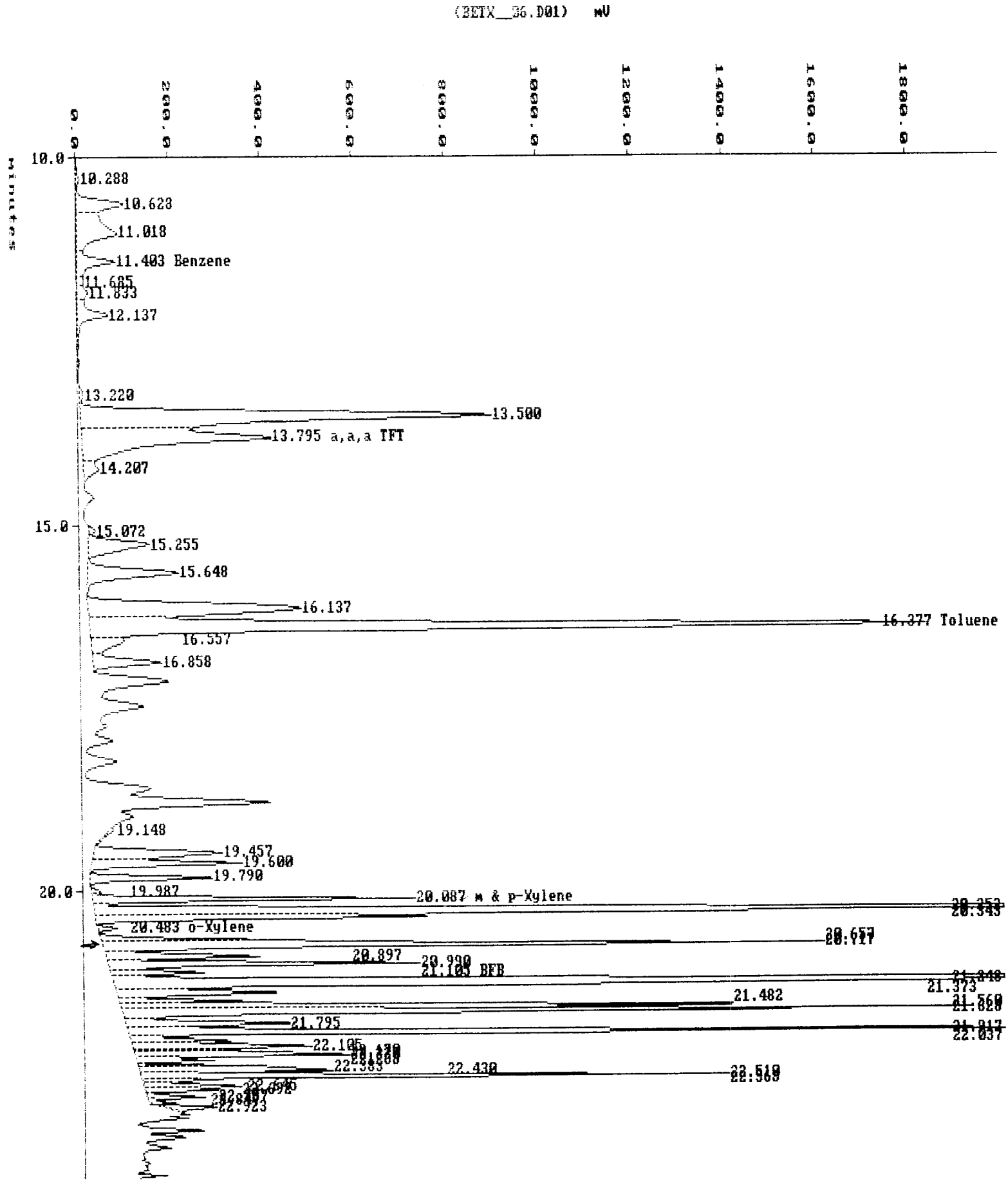
Sample Amt : 1.00000e+0 Dilution: 2.00000e+1

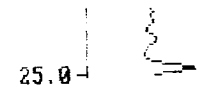
EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF		ug/L	Name
10.288	46891	T		0.00000e+0		0.0000	Unknown
10.628	915939	T		0.00000e+0		0.0000	Unknown
11.018	1576868	T		0.00000e+0		0.0000	Unknown
11.403	685982	T	11.400	5.63368e-6	3.86	77.2922	Benzene X 2.42
11.685	92400	T		0.00000e+0		0.0000	Unknown
11.833	190409	T		0.00000e+0		0.0000	Unknown
12.136	630961			0.00000e+0		0.0000	Unknown
13.220	76316	T		0.00000e+0		0.0000	Unknown
13.500	9555124	T		0.00000e+0		0.0000	Unknown
13.795	4908732	T	13.795	6.17972e-5	303.3	6066.9209	R a,a,a TFT
14.207	332919	V		0.00000e+0		0.0000	Unknown
15.072	69873	T		0.00000e+0		0.0000	Unknown
15.255	1225767	T		0.00000e+0		0.0000	Unknown
15.648	16-4415	V		0.00000e+0		0.0000	Unknown
16.137	4841027	T		0.00000e+0		0.0000	Unknown
16.577	11956149	T	16.293	7.52260e-6	89.94	1796.8254	Toluene
16.557	612842	T		0.00000e+0		0.0000	Unknown
16.858	956151	V		0.00000e+0		0.0000	Unknown
19.148	52137	V		0.00000e+0		0.0000	Unknown
19.457	1766471	T		0.00000e+0		0.0000	Unknown
19.600	1477713	V		0.00000e+0		0.0000	Unknown
19.790	1018804	V		0.00000e+0		0.0000	Unknown
			19.917	9.27158e-6		19.2238	Ethylbenzene X20 = 384.
19.966	86493	T		0.00000e+0		0.0000	Unknown
20.087	2824030	T	20.053	9.20521e-6	68.2685	1413.1707	m & p-Xylene X20 = 1365
20.252	21272016	T		0.00000e+0		0.0000	Unknown
20.343	2185178	V		0.00000e+0		0.0000	Unknown
20.483	122368	V	20.532	-1.69803e-5	87.4450	-41.5579	o-Xylene X20 = 1748.9
20.657	1349041	T		0.00000e+0		0.0000	Unknown
20.717	5149790	T		0.00000e+0		0.0000	Unknown
20.897	1305880	T		0.00000e+0		0.0000	Unknown
20.990	2234552	T		0.00000e+0		0.0000	Unknown
21.105	586837	T	21.053	2.68084e-6	84.53	80.9714	BFB X20 1690.7
21.248	32034716	T		0.00000e+0		0.0000	Unknown
21.373	1545877	T		0.00000e+0		0.0000	Unknown
21.482	686693	T		0.00000e+0		0.0000	Unknown
21.560	3819357	T		0.00000e+0		0.0000	Unknown
21.628	6062505	T		0.00000e+0		0.0000	Unknown
21.795	1233168	T		0.00000e+0		0.0000	Unknown
21.916	5149074	T		0.00000e+0		0.0000	Unknown
22.037	839099	T		0.00000e+0		0.0000	Unknown
22.105	1292971	T		0.00000e+0		0.0000	Unknown
22.170	617245	T		0.00000e+0		0.0000	Unknown
22.220	1257693	T		0.00000e+0		0.0000	Unknown
22.288	464803	T		0.00000e+0		0.0000	Unknown
22.383	641687	T		0.00000e+0		0.0000	Unknown
22.430	1199987	T		0.00000e+0		0.0000	Unknown

JW Lambdin 5/14/94

22.645	631363 T	0.00000e+0	0.0000	Unknown
22.692	367096 T	0.00000e+0	0.0000	Unknown
22.787	289212 T	0.00000e+0	0.0000	Unknown
22.846	114486 V	0.00000e+0	0.0000	Unknown
22.923	393867 V	0.00000e+0	0.0000	Unknown





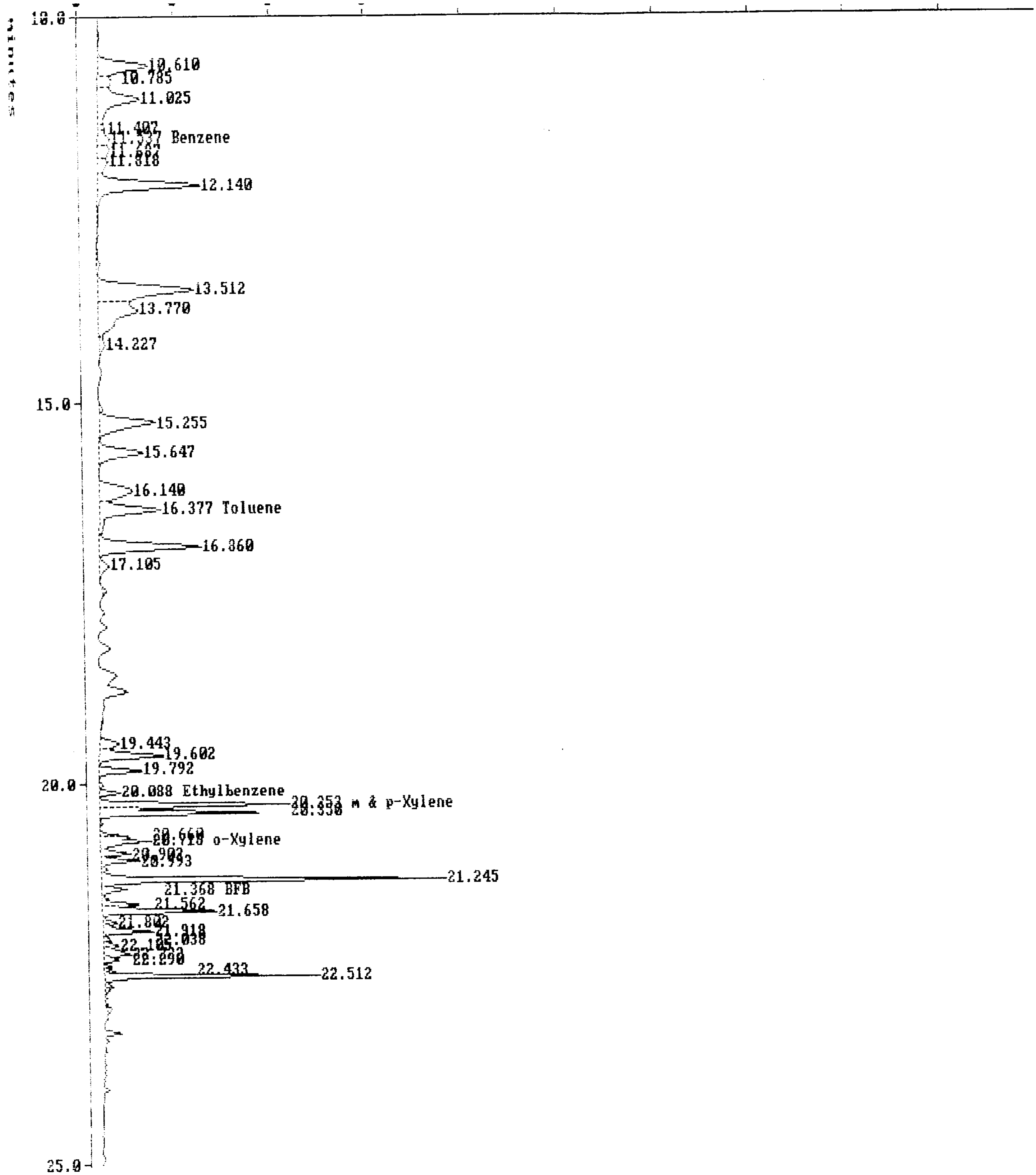
File : BETX__06.D02 945003 John Lambdin
Run : 01 Type : Sample
Path : C:\CHROM
Collection : 09:39:03 May 14 1994 Meth(B): BETX [08:36:41 May 14 1994]
Integration: 09:39:03 May 14 1994 Meth(B): BETX [08:36:41 May 14 1994]
Report : 10:05:35 May 14 1994 Meth(B): BETX [08:36:41 May 14 1994]

Sample Amt : 1.00000e+0 Dilution: 2.00000e+1

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
10.610	450172	T		0.00000e+0	0.0000	Unknown
10.785	110664	T		0.00000e+0	0.0000	Unknown
11.025	502831	T		0.00000e+0	0.0000	Unknown
11.407	31082	T		0.00000e+0	0.0000	Unknown
11.537	119742	T	11.521	1.61705e-4	387.2586	Benzene
11.637	109280	T		0.00000e+0	0.0000	Unknown
11.819	91528	T		0.00000e+0	0.0000	Unknown
12.140	786267			0.00000e+0	0.0000	Unknown
13.511	1018145	T		0.00000e+0	0.0000	Unknown
13.776	607815	T		0.00000e+0	0.0000	Unknown
			14.070	0.00000e+0		a,a,a TFT
14.226	52978			0.00000e+0	0.0000	Unknown
15.255	501046	T		0.00000e+0	0.0000	Unknown
15.646	358564	V		0.00000e+0	0.0000	Unknown
16.140	362372	T		0.00000e+0	0.0000	Unknown
16.377	483168	T	16.470	2.02277e-4	1954.6750	Toluene
16.860	679412	T		0.00000e+0	0.0000	Unknown
17.105	81298	V		0.00000e+0	0.0000	Unknown
19.443	132070	T		0.00000e+0	0.0000	Unknown
19.602	293230	V		0.00000e+0	0.0000	Unknown
19.791	171210	V		0.00000e+0	0.0000	Unknown
20.088	73633	T	20.127	1.76802e-4	260.3715	Ethylbenzene
20.253	662618	T	20.290	2.12471e-4	2815.7422	m & p-Xylene
20.350	498677	T		0.00000e+0	0.0000	Unknown
20.660	97385	T		0.00000e+0	0.0000	Unknown
20.718	216738	T	20.748	2.03522e-4	882.2232	o-Xylene
20.901	104175	T		0.00000e+0	0.0000	Unknown
20.993	131607	T		0.00000e+0	0.0000	Unknown
21.245	964025	T		0.00000e+0	0.0000	Unknown
21.368	91271	T	21.348	-1.33452e-5	-24.3607	BFB
21.561	111830	T		0.00000e+0	0.0000	Unknown
21.656	364563	T		0.00000e+0	0.0000	Unknown
21.802	48987	T		0.00000e+0	0.0000	Unknown
21.918	169411	T		0.00000e+0	0.0000	Unknown
22.038	34023	T		0.00000e+0	0.0000	Unknown
22.105	49487	T		0.00000e+0	0.0000	Unknown
22.221	119720	T		0.00000e+0	0.0000	Unknown
22.290	39538	T		0.00000e+0	0.0000	Unknown
22.433	31989	T		0.00000e+0	0.0000	Unknown
22.512	507541	T		0.00000e+0	0.0000	Unknown

(BETX__06.D02) mV



Minutes
10.0
10.610
10.785
11.025
11.407
Benzene
11.818
12.140
13.512
13.770
14.227
15.0
15.255
15.647
16.140
16.377 Toluene
16.860
17.105
19.443
19.602
19.792
20.0
20.088 Ethylbenzene
20.253 m & p-Xylene
20.330
20.660
20.718 o-Xylene
20.903
20.993
21.245
21.368 BFB
21.562
21.658
21.802
21.918
22.038
22.105
22.290
22.433
22.512
25.0

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 14509 Phase 6000.77
Project Location Hancock #1A 90056

Elevation
Borehole Location T31, R 13, S I, E
GWL Depth
Logged By Jeff W. Kindley
Drilled By S. Sneider
Date/Time Started 09/21/95 0920
Date/Time Completed 09/21/95 1005

Well Logged By Jeff W. Kindley
Personnel On-Site S. Sneider, D. Roberts, J. Johnson
Contractors On-Site
Client Personnel On-Site

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 BZ	BH	S	Drilling Conditions & Blow Counts
0				Backfill material to 12 feet						
15	1	15-17	.6/2.0	CL, BR CLAY, dry, hard, low plasticity, odor (hydrocarbon)					35/71	0930 63 blows per Foot
20	2	20-22	.7/2.0	S.A.A					0/0	0935 60 blows per Foot
				Boring terminated at 22 feet.						

Comments: Sample collected at 20 to 22 feet (7WK78). Sample analyzed for BTEX and TPH. BH grouted to the surface

Geologist Signature Jeffrey Kindley

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:	JWK78	947517
MTR CODE | SITE NAME:	90056	Hancock #1A
SAMPLE DATE TIME (Hrs):	09-21-95	0935
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9-22-95	
DATE OF BTEX EXT. | ANAL.:	9/22/95	9/25/95
TYPE | DESCRIPTION:	VG	Light brown sand & sand stone

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)	30.1	MG/KG			2.11	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	88.2	%				

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

The Surrogate Recovery was at 98% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 9-29-95

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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                     *
**********************************************************
*
 95/09/22  14:50
*
*  Sample identification
 947517
*
*  Initial mass of sample, g
 2.110
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 30.090
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
```

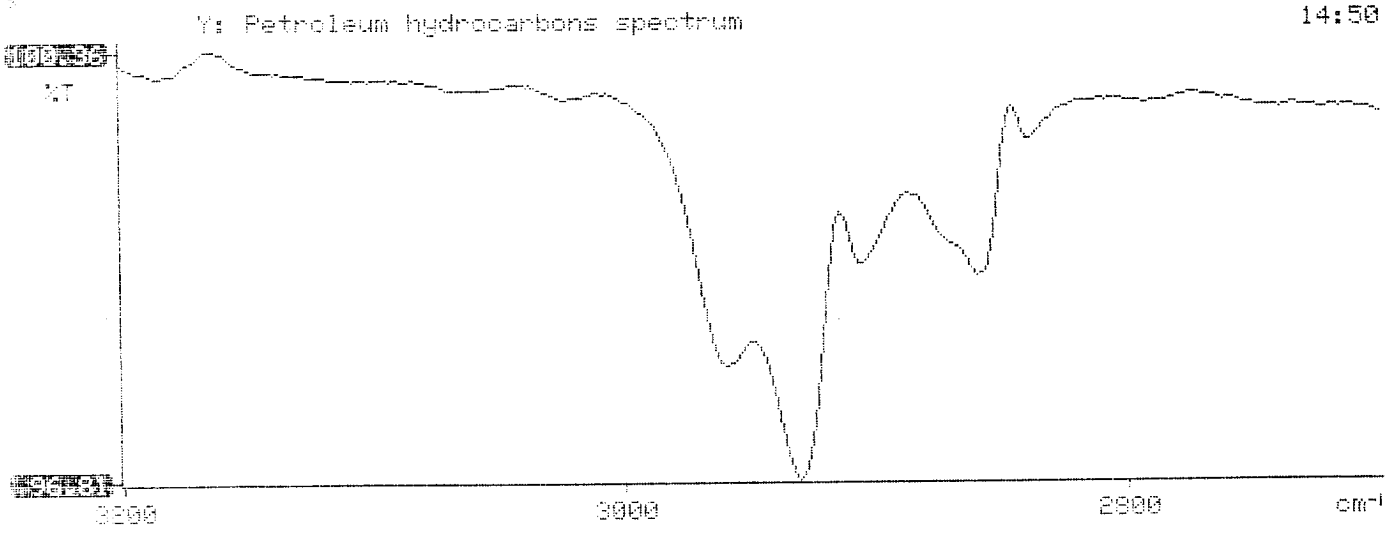

BTEX SOIL SAMPLE WORKSHEET

File	947517	**Date Printed**	9/26/95
Soil Mass (g)	4.99	**Multiplier (L/g)**	0.00100
Extraction vol. (mL)	10	**DF (Analytical)**	200
Shot Volume (uL)	50	**DF (Report)**	0.20040

			Det. Limit
Benzene (ug/L)	0.18	**Benzene (mg/Kg):**	**0.036**	0.501
Toluene (ug/L)	0.33	**Toluene (mg/Kg):**	**0.066**	0.501
Ethylbenzene (ug/L)	0.12	**Ethylbenzene (mg/Kg):**	**0.024**	0.501
p & m-xylene (ug/L)	0.84	p & m-xylene (mg/Kg):	0.168	1.002
o-xylene (ug/L)	0.25	o-xylene (mg/Kg):	0.050	0.501
		Total xylenes (mg/Kg):	**0.218**	1.503
		Total BTEX (mg/Kg):	**0.345**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092595-0.012
Method : C:\LABQUEST\METHODS\9000.MET
Sample ID : 947517,4.99G,50U
Acquired : Sep 25, 1995 18:40:01
Printed : Sep 25, 1995 19:10:24
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.123	66142	0.1768
a,a,a-TFT	10.483	8928343	102.0548
TOLUENE	12.903	119395	0.3281
ETHYLBENZENE	17.253	40804	0.1212
M,P-XYLENES	17.633	338241	0.8431
O-XYLENE	18.820	82985	0.2534
BFB	19.880	53374992	97.9212