Denny
DEPUTY OIL & GAS INSPECTOR

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 23 1998

Approved

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

FEDERAL #1
Meter/Line ID - 73486

SITE DETAILS

Legals - Twn: 31 **Rng:** 13 **Sec:** 29 **Unit:** J
NMOCD Hazard Ranking: 10 **Land Type:** 2 - Federal
Operator: BRUCE ANDERSON **Pit Closure Date:** 04/21/94

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

73486
Meter: 97343 Location: FEDERAL #1

Operator #: 0208 Operator Name: BRUCE ANDERSON P/L District: KUTZ

Coordinates: Letter: J Section 29 Township: 31 Range: 13

Or Latitude _____ Longitude _____

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

Site Visit Date: 3·28·94 Run: 02 42

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 BARKER ARROYO
(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds)

TOTAL HAZARD RANKING SCORE: 10 **POINTS**

REMARKS

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

(SP3190) 03/16

ORIGINAL PIT LOCATION

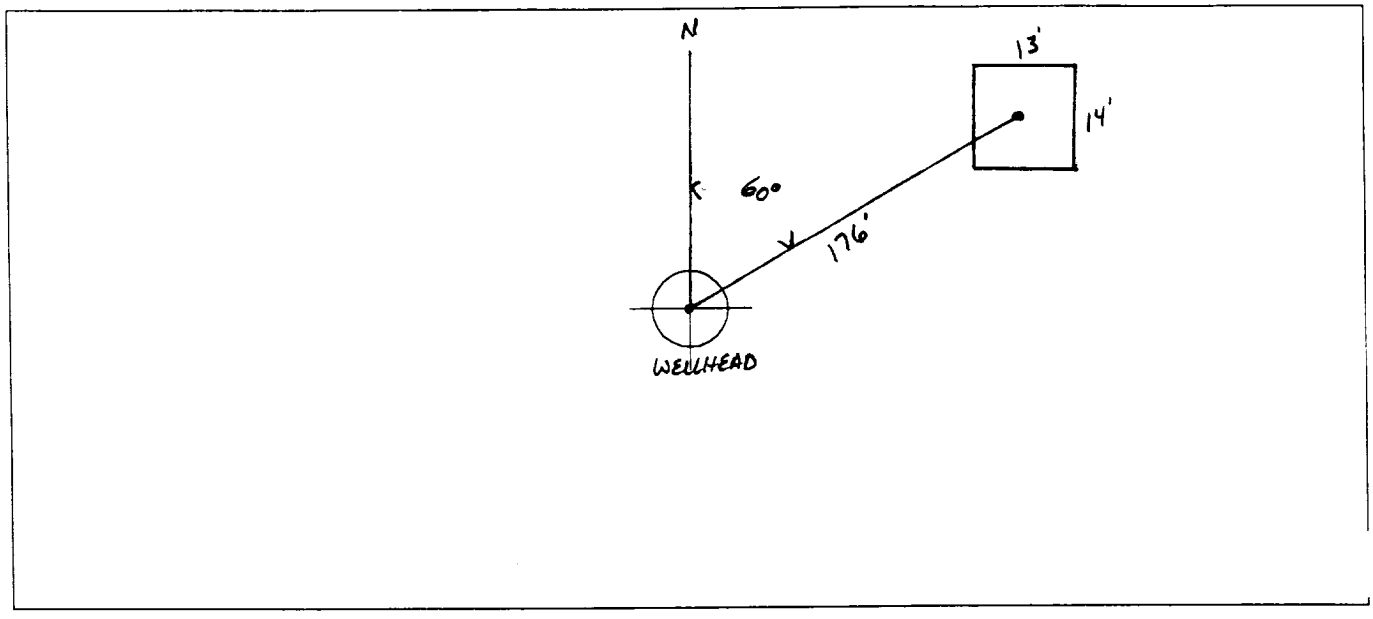
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 60° Footage to Wellhead 176'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 14' Width : 13' Depth : 1'



REMARKS

Remarks :

STARTED TAKING PICTURES AT. 1:29 P.M.

DUMP TRUCK - BOBTAIL

Completed By:

Signature

3.28.94

Date

7.22.94
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73486 97343 Location: FEDERAL #1

Operator #: _____ Operator Name: _____ P/L District: _____

Coordinates: Letter: ___ Section ___ Township: ___ Range: ___

Or Latitude _____ Longitude _____

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

Site Assessment Date: _____ Area: 02 Run: 42

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 _____

(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: 30 POINTS

REMARKS

Remarks : _____

PHASE I
EXCAVATION

FIE PIT REMEDIATION/CLOS E FORM

GENERAL

Meter: 73486 / 97343 Location: Federal #1

Coordinates: Letter: J Section 29 Township: 31 Range: 13

Or Latitude _____ Longitude _____

Date Started : 4/21/94 Area: 02 Run: 42

FIELD OBSERVATIONS

Sample Number(s): 940848 VW19 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 253 PID Reading Depth 12 Feet

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

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 40
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

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

Pit Closure Date: 4-21-94 Pit Closed By: BEI

REMARKS

Remarks : Soil discolored pretty bad

Signature of Specialist: Vale Nelson

(SP3191) 04/07/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW19	940848
MTR CODE | SITE NAME:	73486/97343	N/A
SAMPLE DATE | TIME (Hrs):	4/21/94	1230
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	4-22-94	4-22-94
DATE OF BTEX EXT. | ANAL.:	4/29/94	4/30/94
TYPE | DESCRIPTION:	VC	Grey Sand/Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	1.79	MG/KG	20			
TOLUENE	112	MG/KG	20	DZ, B		
ETHYL BENZENE	13.1	MG/KG	20			
TOTAL XYLENES	223	MG/KG	20	D1		
TOTAL BTEX	350	MG/KG	.7547		0.53	20
TPH (418.1)	~~2489~~ 2490 (5/14/94)	MG/KG			2.08	28
HEADSPACE PID	253	PPM				
PERCENT SOLIDS	84.3 %	%				

IDI 20

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

The Surrogate Recovery was at 100.1 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: John Loveless Date: 5/17/94

[illegible] TO [illegible] [illegible]

Mach(A): BETX [illegible]

Mach(A): BETX [illegible]

[illegible] 1994 Mach(A): BETX [illegible]

Sample Amt [illegible] Dilution 7.5[illegible]

ILLEGIBLE

EXTERNAL STANDARD [illegible]

RT	Area	BC	[illegible]	RF	ug/L	Name
[illegible]	[illegible]	[illegible]		0.00000e+0	0.0000	Unknown
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[illegible]	[illegible]			0.00000e+0	0.0000	Unknown
[illegible]	10170	T		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	[illegible]	[illegible]	2.[illegible]e-5	1.4910	Benzene
[illegible]	[illegible]	[illegible]		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	T		0.00000e+0	0.0000	Unknown
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[illegible]	[illegible]	T	[illegible]	7.22655e-6	[illegible]	Toluene
[illegible]	[illegible]			0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	V		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	[illegible]		0.00000e+0	0.0000	Unknown
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[illegible]	[illegible]	[illegible]		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] >188	[illegible]	m & p-Xylene
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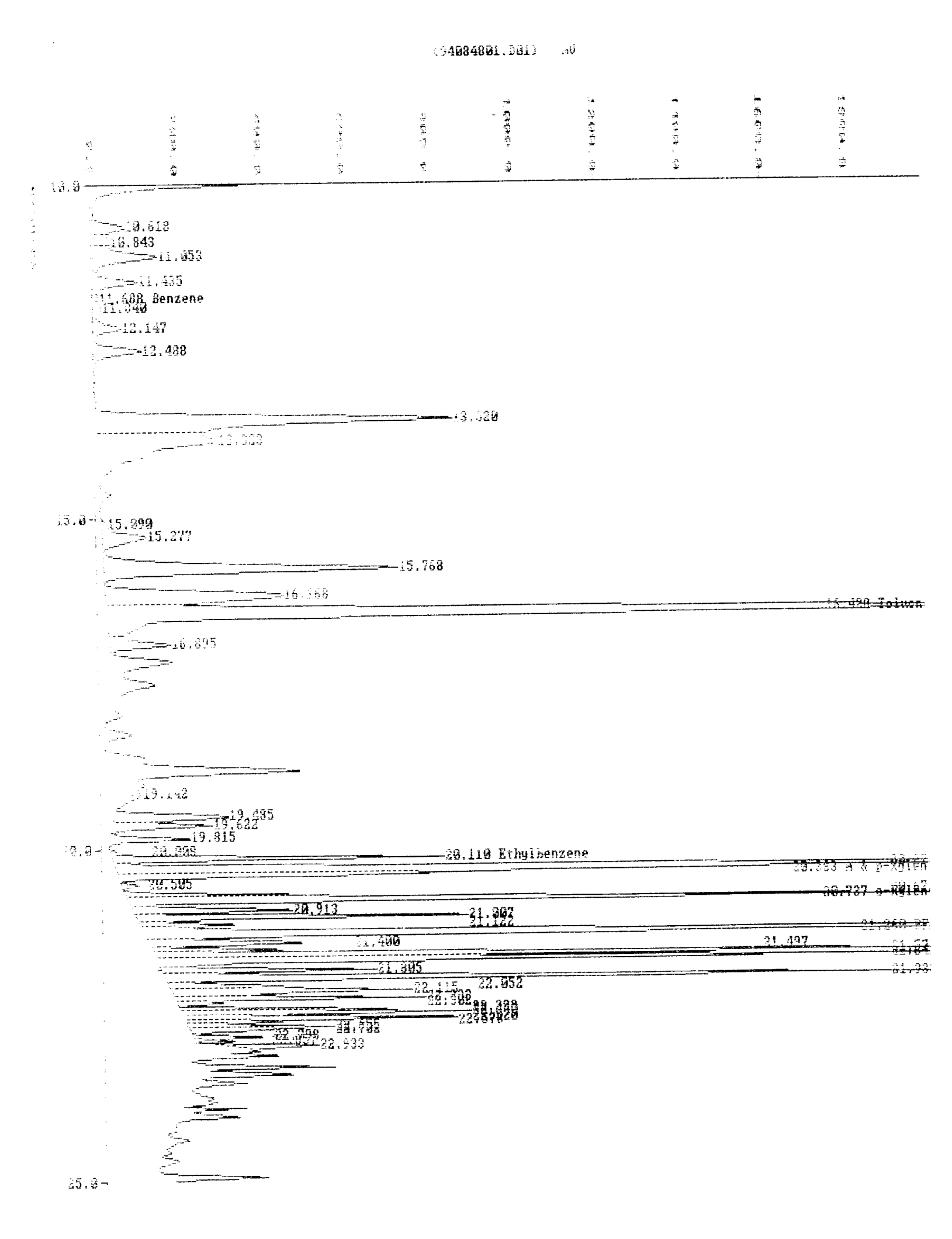
(94084001.301)
10.618
10.843
11.053
11.435
11.608 Benzene
11.840
12.147
12.408
13.020
15.299
15.277
15.768
16.368
16.895
19.142
19.485
19.622
19.815
20.110 Ethylbenzene
20.913
21.400
21.497
21.805
22.052
22.933

[illegible] 10/21/1994 [illegible] [illegible] STACY [illegible]

Clean : SOILEXTR Set Number : [illegible] Type : Sample

Path : [illegible]

Inject[illegible] : [illegible] Apr 20 1994 Meth(B): BETX [illegible] Apr 20 1994 [illegible]

[illegible] : [illegible] Apr 20 1994 Meth(B): BETX [illegible] Apr 20 1994 [illegible]

Result : [illegible] Apr 20 1994 Meth(B): BETX [illegible]

ILLEGIBLE

Sample Amt : 1.00000e[illegible] [illegible]

EXTERNAL STANDARD : AREA

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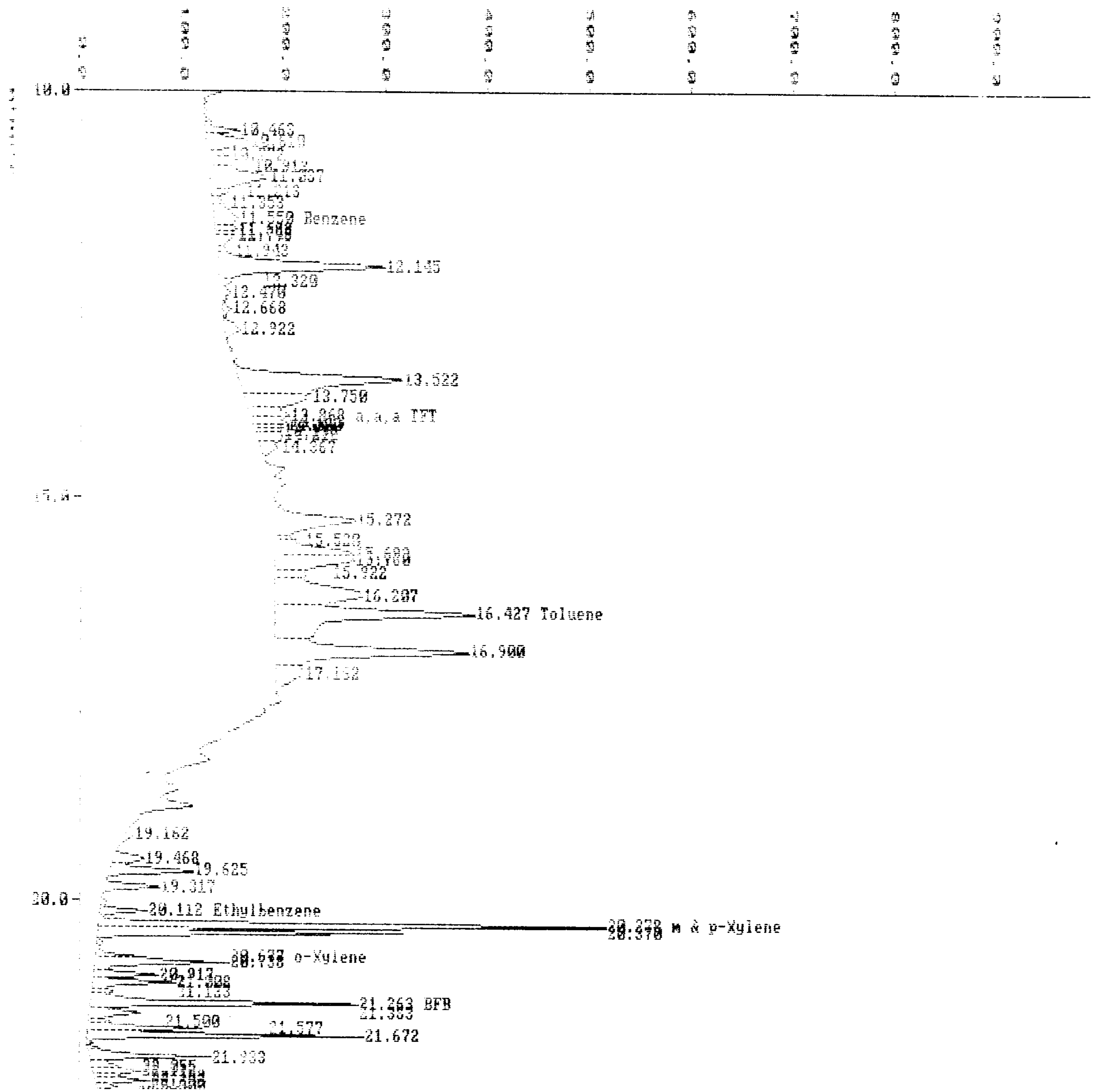

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*************************   ************************
*               Test Method for                      *
*     Oil and Grease and Petroleum Hydrocarbons      *
*              in Water and Soil                     *
*                                                    *
*          Perkin-Elmer Model 1600 FT-IR             *
*               Analysis Report                      *
******************************************************
*
 94/04/22  12:59
*
*  Sample identification
 940848
*
*  Initial mass of sample, g
 2.080
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 2488.711
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.328
*
*
*
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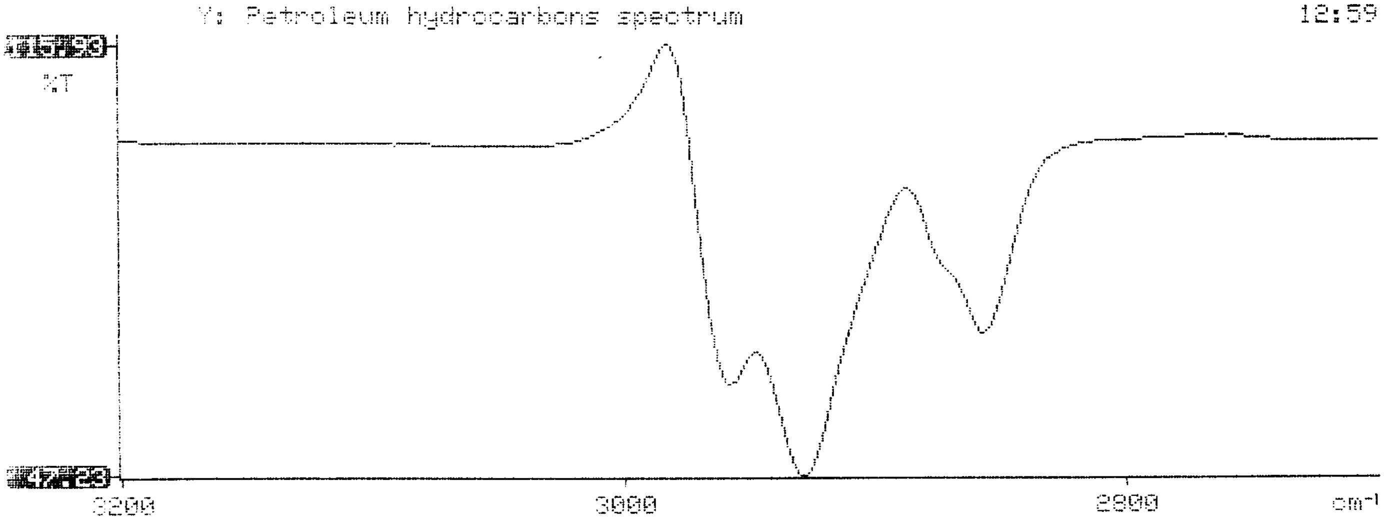
Y: Petroleum hydrocarbons spectrum 12:59



PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well # N/A
Page 1 of 2

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 Federal No. 1 (97343/72486)

Elevation
Borehole Location T31, R13, S29, J
GWL Depth N/A
Logged By ST Pope
Drilled By M DONOHUE
Date/Time Started 10/3/95 0930
Date/Time Completed 10/3/95 1230

Well Logged By ST Pope
Personnel On-Site J. Lang, C Meaz
Contractors On-Site N/A
Client Personnel On-Site N/A

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	HS	Drilling Conditions & Blow Counts
0				Brown Sandy Fill						
5										
10				Bottom of Pit		12				HS = 724 ppm Strong odor
15	1	13 14.5	18	Gray Clayey Sand, fine-Med. Sand, trace silt, Med dense, Moist	SC		0	0	375	
20	2	18 20	6	Brown Clay w/Sand, fine-med grained Sand, med stiff, med plastic Moist.	CL	18	0	12	341	HS = 613 ppm
25	3	23 25	6	Brown Sand, trace clay, fine-Med Sand, trace moisture, dense possibly cemented	Sand Stone	23	0	181	245	Spoon Refusal @ 6" HS = 600 ppm Noted med gravel in cuttings
30	4	28 30	6"	SAA Brown - Gray			0	265	718	Spoon Refusal @ 6" HS = 598 ppm Very hard drilling
35	5	33 35	6"	SAA			0	76	109	Spoon Refusal @ 6" HS = 109
40	6	38 40	3"	SAA			0	85	245	Spoon Refusal @ 6" HS = 404

Comments: See Page 2

Geologist Signature Scott T. Pope

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well # N/A
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 14509 Phase 6000 77
Project Location Federal No. 1 (97343/73486)

Elevation
Borehole Location T31, R13, S29, J
GWL Depth N/A
Logged By ST Pope
Drilled By M DONOHUE
Date/Time Started 10/3/95 0930
Date/Time Completed 10/3/95 1230

Well Logged By ST Pope
Personnel On-Site J. Long, C Meaz
Contractors On-Site N/A
Client Personnel On-Site N/A

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	HS	Drilling Conditions & Blow Counts
40										
* 45	7	43 45	4	Brownish Gray Sand Stone, Fine Med grained, trace silt & Clay, trace Moisture			1	121	253	No enough sample for Head Space *
				TOB - 45' Auger Refusal						Auger Refusal
10										
15										
20										
25										
30										
35										
40										

Comments: SAA - Same As Above, * Sample STP-23, 43-45' Collected and sent to EPNG Lab. for BTEX & TPH.

Geologist Signature Sara T. Pope

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:	STP23	9474~~78~~578 RLB 10/5/95
MTR CODE | SITE NAME:	97343/73486	Federal No. 1
SAMPLE DATE | TIME (Hrs):	10-3-95	1145
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	10-4-95	
DATE OF BTEX EXT. | ANAL.:	10/4/95	10/4/95
TYPE | DESCRIPTION:	VG	Dark 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)	17.3	MG/KG			2.24	28
HEADSPACE PID	253	PPM				
PERCENT SOLIDS	94.4	%				

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

The Surrogate Recovery was at 89 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 10-10-95

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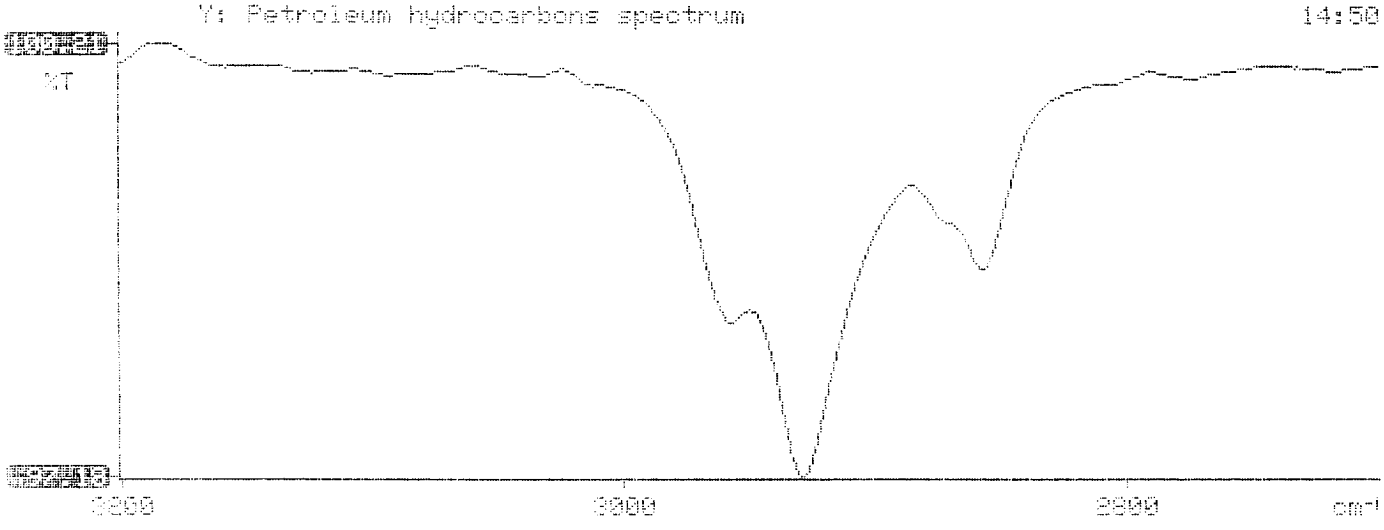
*****************************************************
*                    Test Method for                *
*      Oil and Grease and Petroleum Hydrocarbons    *
*                  in Water and Soil                *
*                                                   *
*           Perkin-Elmer Model 1600 FT-IR           *
*                  Analysis Report                  *
*****************************************************
*
 95/10/04   14:49
*
*   Sample identification
 947578
*
*   Initial mass of sample, g
 2.240
*
*   Volume of sample after extraction, ml
 29.000
*
*   Petroleum hydrocarbons, ppm
 17.773
*   Net absorbance of hydrocarbons (2930 cm-1)
 0.013
*
*
*
```



BTEX SOIL SAMPLE WORKSHEET

File	947578	**Date Printed**	10/5/95
Soil Mass (g)	4.96	**Multiplier (L/g)**	0.00101
Extraction vol. (mL)	10	**DF (Analytical)**	200
Shot Volume (uL)	50	**DF (Report)**	0.20161

				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.504
Toluene (ug/L)	0.55	**Toluene (mg/Kg):**	**0.111**	0.504
Ethylbenzene (ug/L)	0.25	**Ethylbenzene (mg/Kg):**	**0.050**	0.504
p & m-xylene (ug/L)	1.05	p & m-xylene (mg/Kg):	0.212	1.008
o-xylene (ug/L)	0.40	o-xylene (mg/Kg):	0.081	0.504
		Total xylenes (mg/Kg):	**0.292**	1.512
		Total BTEX (mg/Kg):	**0.454**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\100495-1.010
Method : C:\LABQUEST\METHODS\1-091895.MET
Sample ID : 947578,4.96G,50U
Acquired : Oct 04, 1995 17:05:01
Printed : Oct 04, 1995 17:31:24
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.917	0	0.0000
a,a,a TFT	6.653	4450614	96.4019
TOLUENE	8.683	151626	0.5460
ETHYLBENZENE	12.680	63445	0.2483
M & P XYLENE	13.063	348942	1.0532
O XYLENE	14.167	95598	0.4014
BFB	15.730	64344972	88.7649