EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1998

RECEIVED
JUL 2 1998

Approved

MCGEE #1E
Meter/Line ID - 94501

SITE DETAILS

Legals - Twn: 30 **Rng:** 13 **Sec:** 27 **Unit:** F
NMOCD Hazard Ranking: 20 **Land Type:** 4 - Fee
Operator: MERIDIAN OIL INC - UNICON **Pit Closure Date: 04/19/94**

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: 94501 Location: McGEE #1E

Operator #: 0128 Operator Name: MERIDIAN P/L District: KUTZ

Coordinates: Letter: F Section 27 Township: 30 Range: 13

Or Latitude _____ Longitude _____

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

Site Visit Date: 3-24-94 Run: 02 31

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

TOTAL HAZARD RANKING SCORE: 0 **POINTS**

REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. DEHY HAS BEEN DISCONNECTED BUT NOT REMOVED. PIT IS DRY.

ORIGINAL PIT LOCATION

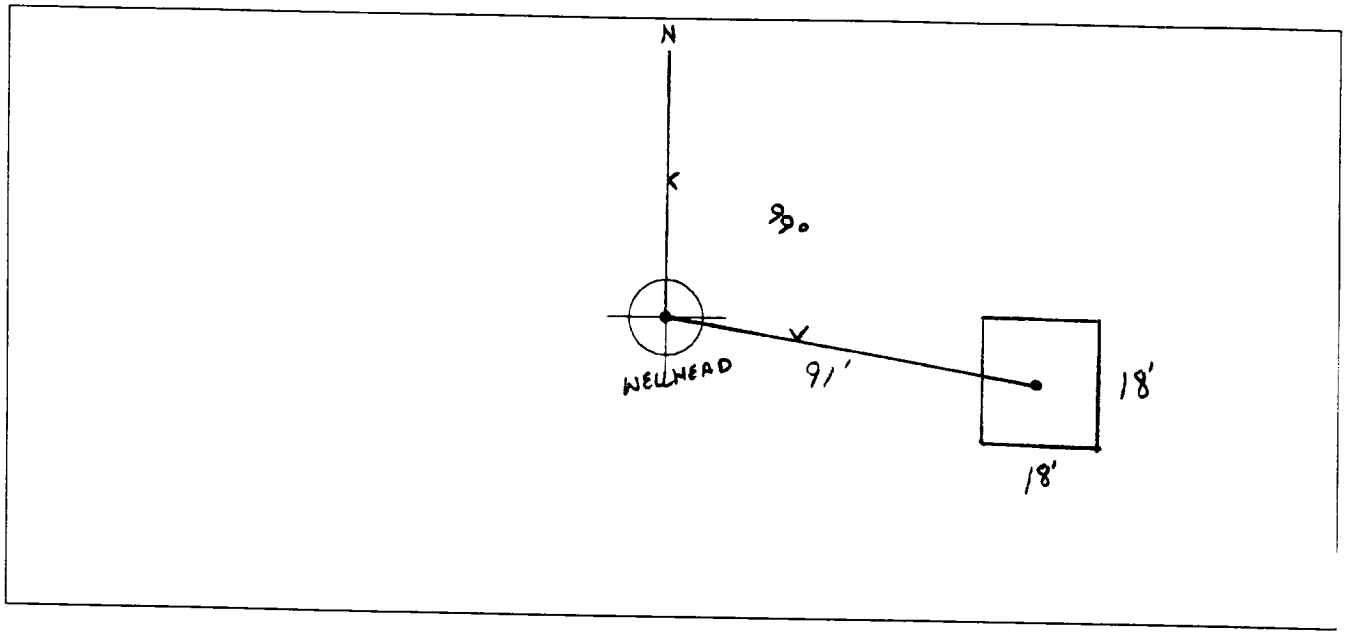
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 99° Footage to Wellhead 91'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 18' Width : 18' Depth : 3'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 11:18 A.M.
END DUMP

Completed By:

Robert Thompson
Signature

3.24.04
Date

4-22-94
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 94501 Location: McGEE #1E
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: 31

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 FARMINGTON GLADE
(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 : _____

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 94501 Location: McGee #1E

Coordinates: Letter: F Section 27 Township: 30 Range: 13

Or Latitude _____ Longitude _____

Date Started : 4-19-94 Area: 02 Run: 31

FIELD OBSERVATIONS

Sample Number(s): 940830 KD7 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 612 PPM PID Reading Depth 12' Feet

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

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 83

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 4-19-94 Pit Closed By: BEI

REMARKS

Remarks : TOOK Excavation to 12', Contamination throughout
Final PID Reading 612 ppm.

Signature of Specialist: Kenny Dean

(SP3191) 04/07/94

RERUN
BTEX
0.2g | 30ml
meOH

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD7	940830
MTR CODE | SITE NAME:	94501	N/A
SAMPLE DATE | TIME (Hrs):	4/19/94	1110
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	N/A	N/A
DATE OF BTEX EXT. | ANAL.:	5/3/94	5/17/94
TYPE | DESCRIPTION:	VC	N/A

REMARKS: ReRun BTEX @ 0.2g | 30ml meOH

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	6.26	MG/KG				
TOLUENE	79.2	MG/KG				
ETHYL BENZENE	22.5	MG/KG				
TOTAL XYLENES	198	MG/KG				
TOTAL BTEX	306	MG/KG	91429		0.21	30
TPH (418.1)	~~8170~~ 10,100 5/24/94	MG/KG			0.970	28
HEADSPACE PID	612	PPM				
PERCENT SOLIDS	91.0	%				

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

The Surrogate Recovery was at 87.1 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

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

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD7	940830
MTR CODE | SITE NAME:	94501	N/A
SAMPLE DATE | TIME (Hrs):	4/19/94	1110
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	4-22-94	4-22-94
DATE OF BTEX EXT. | ANAL.:	4/25/94	
TYPE | DESCRIPTION:	VC	Brown Coarse 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	0.0351		0.57	20
~~TPH (418.1)~~	~~817~~ 5/4/94	MG/KG			2.02	28
HEADSPACE PID	612	PPM				
~~PERCENT SOLIDS~~	91.0	%				

-- 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

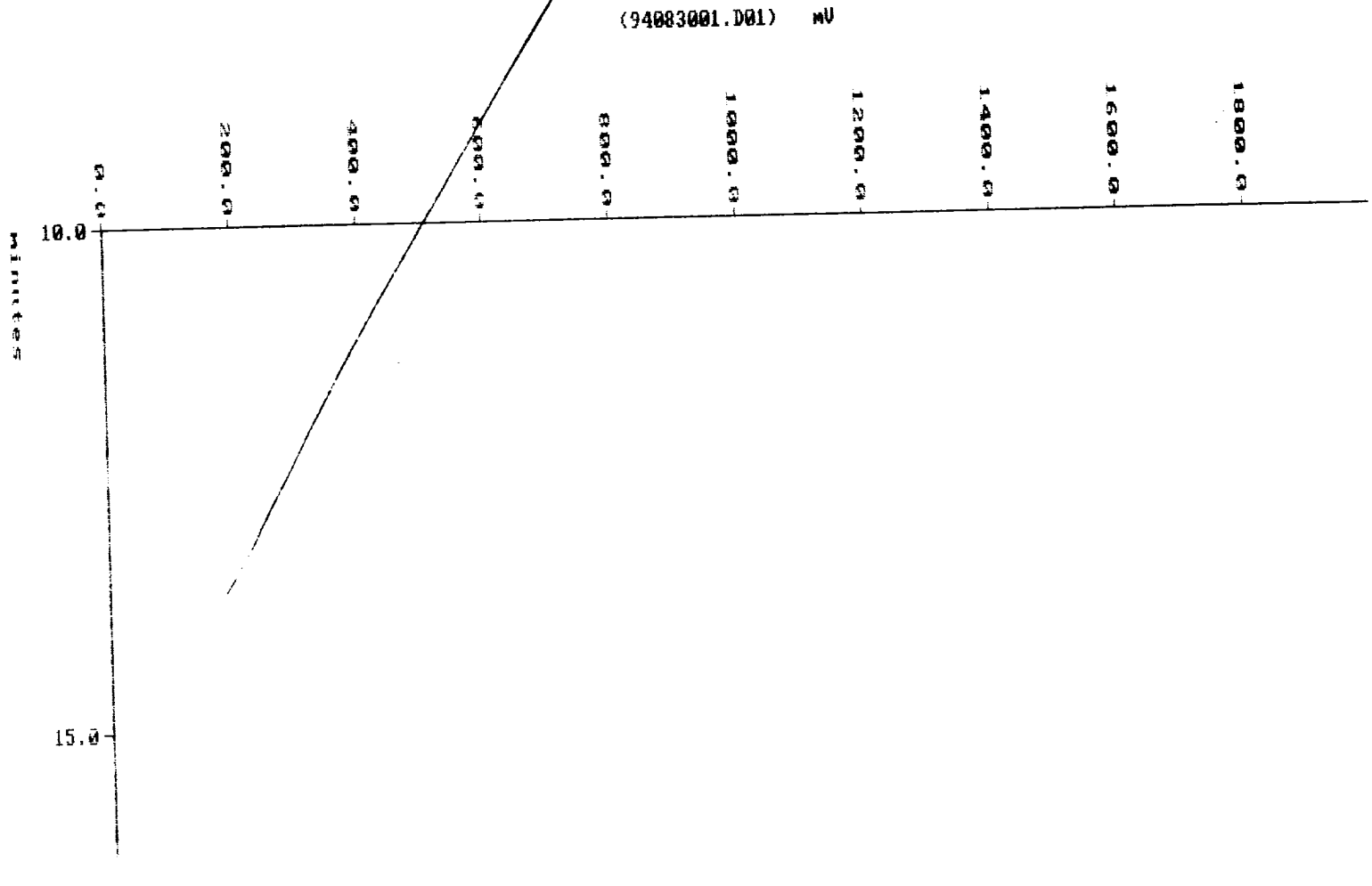
Approved By: _____ Date: _____

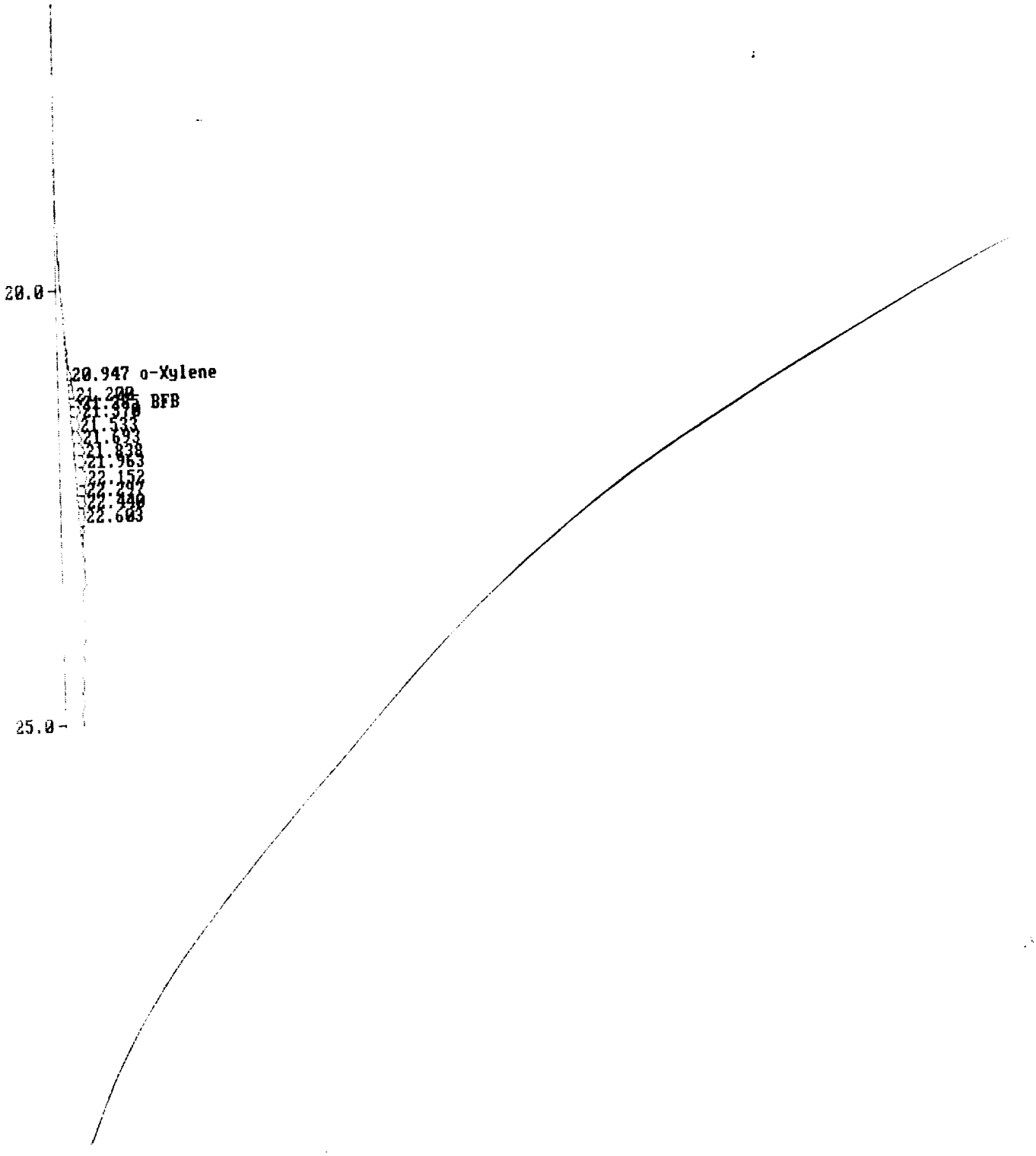
File : 94083001.D01 MTR 94501 STACY SENDLER
Cal : 1 Queue : SOILEXTR Set Number : 1 Type : Sample
Path : I:\CHROM
Collection : 03:49:32 Apr 26 1994 Meth(A): BETX [13:51:33 Apr 25 1994]
Integration: 03:49:32 Apr 26 1994 Meth(A): BETX [13:51:33 Apr 25 1994]
Report : 04:15:39 Apr 26 1994 Meth(A): BETX [13:51:33 Apr 25 1994]

Sample Amt : 1.00000e+0 Dilution: 3.51000e-2

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
			11.677	9.51502e-6		Benzene
			14.090	1.81295e-4		a,a,a TFT
			18.611	7.20270e-6		Toluene
			20.180	6.59961e-6		Ethylbenzene
			20.639	6.27948e-6		m & p-Xylene
20.947	46801	T	22.782	1.77760e-6	0.0029	o-Xylene
21.200	31987	T		0.00000e+0	0.0000	Unknown
21.285	100471	T	21.311	-2.02484e-6	-0.0071	BFB
21.370	32102	T		0.00000e+0	0.0000	Unknown
21.533	115017	T		0.00000e+0	0.0000	Unknown
21.590	111046	T		0.00000e+0	0.0000	Unknown
21.838	144769	T		0.00000e+0	0.0000	Unknown
21.963	158220	T		0.00000e+0	0.0000	Unknown
22.151	200494	T		0.00000e+0	0.0000	Unknown
22.297	114640	T		0.00000e+0	0.0000	Unknown
22.440	95907	T		0.00000e+0	0.0000	Unknown
22.603	104444	T		0.00000e+0	0.0000	Unknown




20.0
20.947 o-Xylene
BFB
25.0

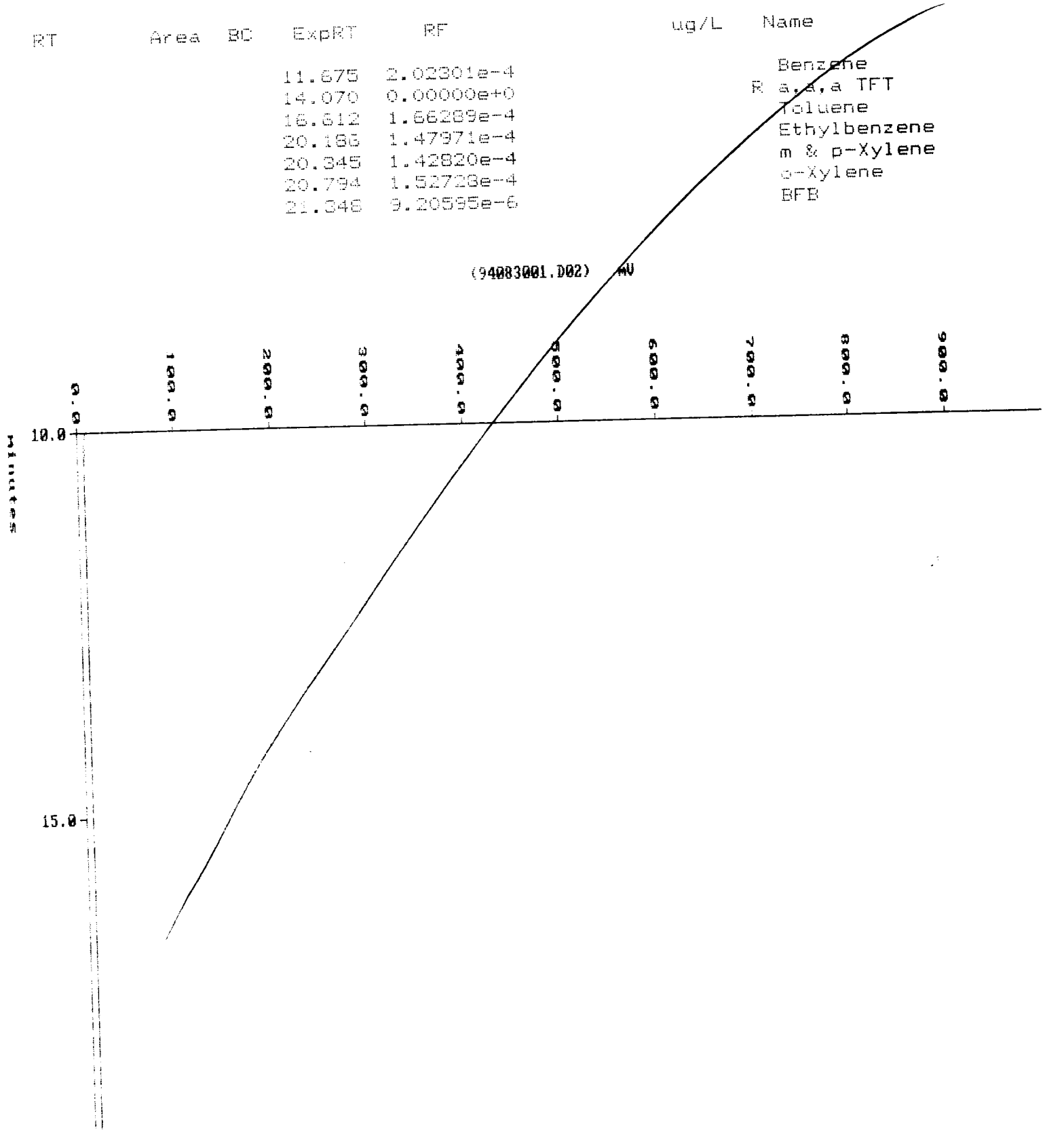
File : 94083001.D02 NTP 94501 STACY SENDLER
Run : 1 Queue : SCILEXTR Set Number : 1 Type : Sample
Dir : I:\CHROM
Collection : 03:40:02 Apr 26 1994 Meth(B): BETX [11:29:28 Apr 22 1994]
Integration: 03:49:32 Apr 26 1994 Meth(B): BETX [11:29:28 Apr 22 1994]
Report : 04:15:45 Apr 28 1994 Meth(B): BETX [11:29:28 Apr 22 1994]

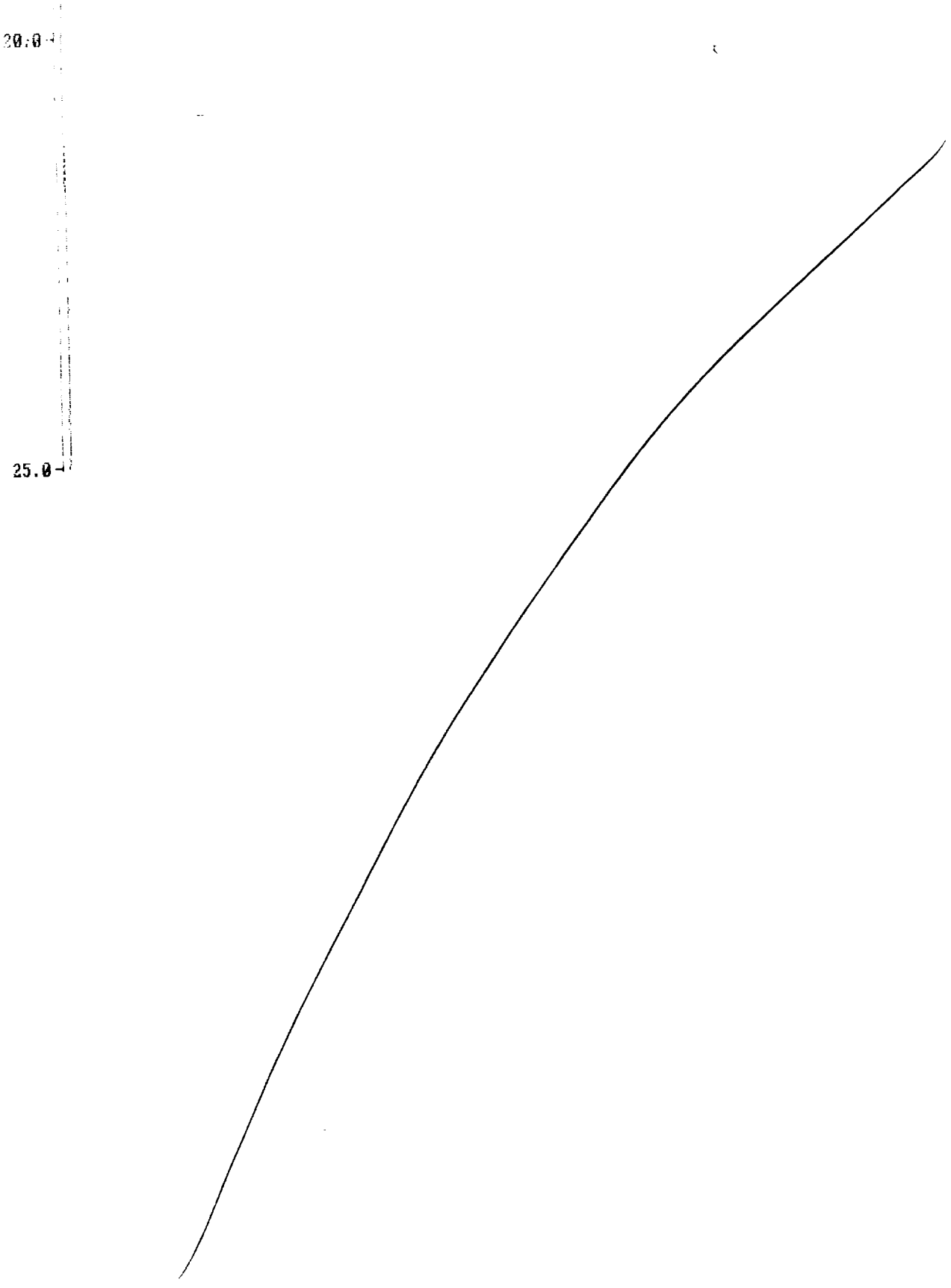
Sample Amt : 1.00000e+0 Dilution: 5.51000e-2

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
			11.675	2.02301e-4		Benzene
			14.070	0.00000e+0		a,a,a TFT
			16.612	1.66289e-4		Toluene
			20.165	1.47971e-4		Ethylbenzene
			20.345	1.42820e-4		m & p-Xylene
			20.794	1.52728e-4		o-Xylene
			21.348	9.20595e-6		BFB

R




20.0
25.0

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

94/04/22 13:51

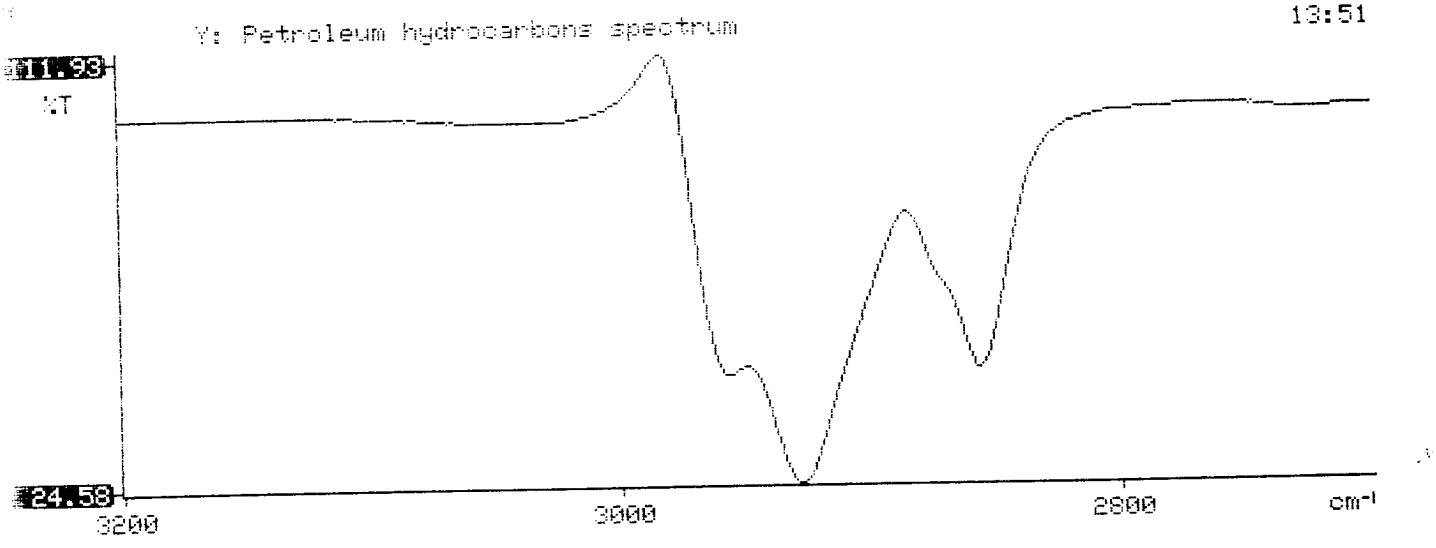
Sample identification
940830

Initial mass of sample, g
0.970

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
10123.626

Net absorbance of hydrocarbons (2930 cm-1)
0.609



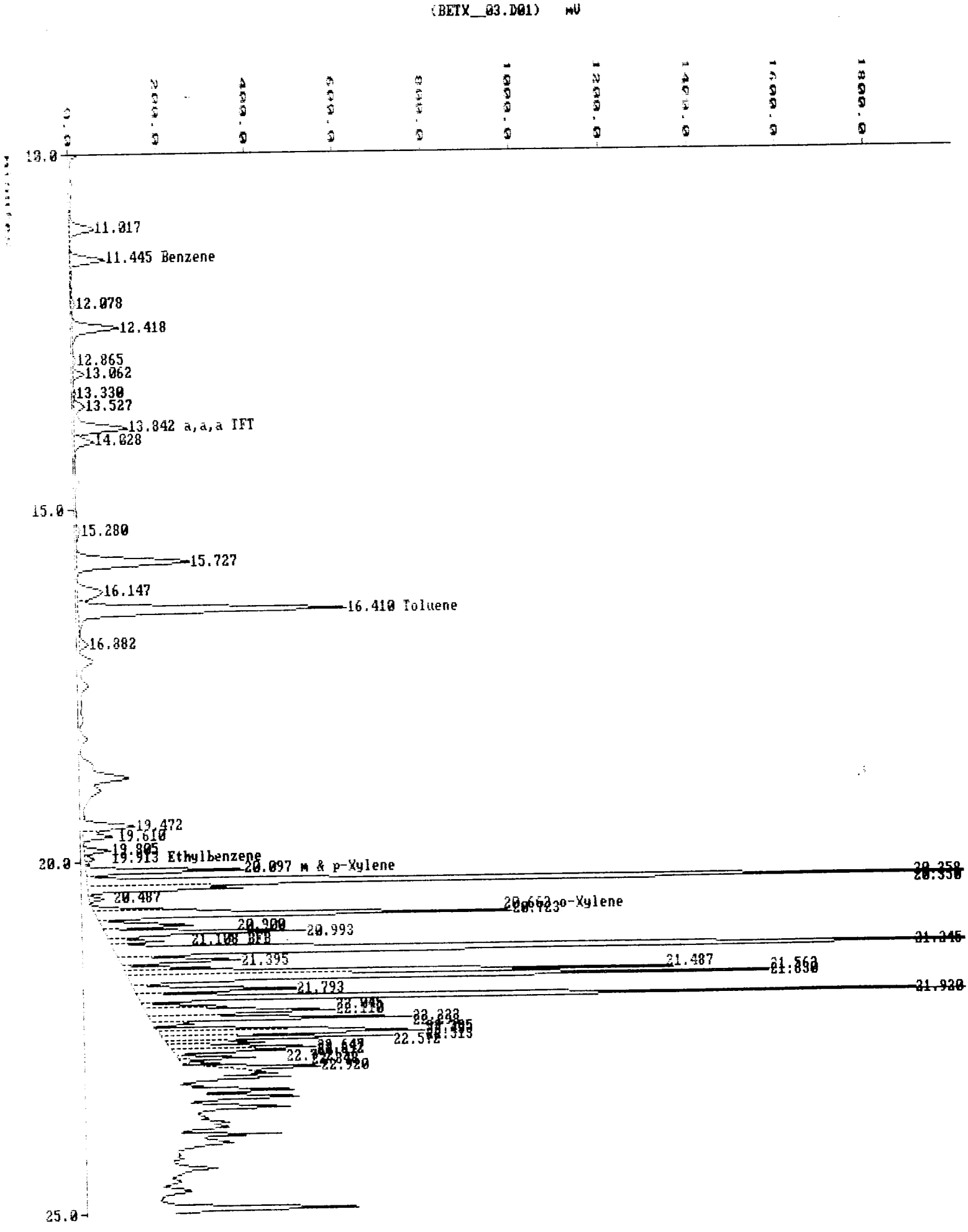
File : BETX__0.331 S40830 1/20 John Lamboin
Run : 25 Type : Sample
Path : C:\CHROM
Collection : 10:00:32 May 17 1994 Meth(A): 2ETX [11:10:11 May 17 1994]
Integration: 10:00:32 May 17 1994 Meth(A): BETX [11:40:11 May 17 1994]
Report : 13:26:43 May 17 1994 Meth(A): BETX [11:40:11 May 17 1994]

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

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF		ug/L	Name
11.017	381209	V		0.00000e+0		0.0000	Unknown
11.445	472422		11.448	4.63528e-6	2.19	43.7961	Benzene
12.078	49884	T		0.00000e+0		0.0000	Unknown
12.418	777348	V		0.00000e+0		0.0000	Unknown
12.265	50108	T		0.00000e+0		0.0000	Unknown
13.062	156555	T		0.00000e+0		0.0000	Unknown
13.350	32147	T		0.00000e+0		0.0000	Unknown
13.567	202871	T		0.00000e+0		0.0000	Unknown
13.841	919435	T	13.841	1.59674e-4		2936.2012	a,a,a TFT
14.322	313038			0.00000e+0		0.0000	Unknown
15.220	86459	V		0.00000e+0		0.0000	Unknown
15.726	1865363	V		0.00000e+0		0.0000	Unknown
16.147	256705	T		0.00000e+0		0.0000	Unknown
16.410	2791555	T	16.355	7.21248e-6	27.7	554.5131	Toluene
16.981	118454			0.00000e+0		0.0000	Unknown
18.47.	383214	T		0.00000e+0		0.0000	Unknown
19.610	292790	V		0.00000e+0		0.0000	Unknown
19.805	223543	T	6.59961e-6	0.00000e+0		0.0000	Unknown
19.913	83922	T	[illegible]	[illegible]	7.88	[illegible]	Ethylbenzene x20 = 157.5
20.096	1193461	T	20.166	7.27409e-6	56.63	[illegible]	m & p-Xylene x20 = 1132.
20.255	9017755	T	6.27948e-6	0.00000e+0		0.0000	Unknown
20.330	1071576	T		0.00000e+0		0.0000	Unknown
20.486	116475	V		0.00000e+0		0.0000	Unknown
20.661	773854	T	20.619	4.32975e-6	12.77	67.0115	o-Xylene x20 = 255.4
20.728	2949505	T		0.00000e+0		0.0000	Unknown
20.900	794408	T		0.00000e+0		0.0000	Unknown
20.990	1555117	T		0.00000e+0		0.0000	Unknown
21.106	342965	T	21.152	4.04194e-6	87.1	27.7245	BFB
21.245	21552964	T		0.00000e+0		0.0000	Unknown
21.395	1124824	T		0.00000e+0		0.0000	Unknown
21.486	465133	T		0.00000e+0		0.0000	Unknown
21.583	3564285	T		0.00000e+0		0.0000	Unknown
21.683	4860955	T		0.00000e+0		0.0000	Unknown
21.788	1108009	T		0.00000e+0		0.0000	Unknown
21.923	5042025	T		0.00000e+0		0.0000	Unknown
22.043	617958	T		0.00000e+0		0.0000	Unknown
22.110	1782705	T		0.00000e+0		0.0000	Unknown
22.222	1666251	T		0.00000e+0		0.0000	Unknown
22.333	348177	V		0.00000e+0		0.0000	Unknown
22.435	929582	T		0.00000e+0		0.0000	Unknown
22.488	1911731	T		0.00000e+0		0.0000	Unknown
22.512	1010213	T		0.00000e+0		0.0000	Unknown
22.572	563730	T		0.00000e+0		0.0000	Unknown
22.647	973334	T		0.00000e+0		0.0000	Unknown
22.698	567982	T		0.00000e+0		0.0000	Unknown
22.791	358366	T		0.00000e+0		0.0000	Unknown
22.848	187755	V		0.00000e+0		0.0000	Unknown
22.920	752339	V		0.00000e+0		0.0000	Unknown

5/17/94


(BETX__03.D01) mV
10.0
11.017
11.445 Benzene
12.078
12.418
12.865
13.062
13.330
13.527
13.842 a,a,a TFT
14.028
15.0
15.280
15.727
16.147
16.410 Toluene
16.882
19.472
19.610
19.805
19.913 Ethylbenzene
20.0
20.097 m & p-Xylene
20.487
20.993
21.108 BFB
21.395
21.487
21.793
22.513
22.920
25.0

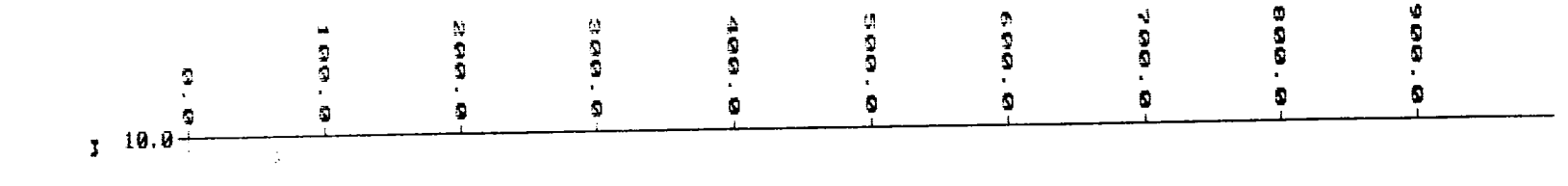
[illegible] 940630 1/20 John Lambdin
[illegible] Type : Sample
[illegible]
[illegible]
Calibration : 10:00:22 May 17 1994 Meth(B): BETX [10:07:15 May 17 1994]
Integration: 10:00:32 May 17 1994 Meth(B): BETX [10:07:16 May 17 1994]
Users : 10:07:41 May 17 1994 Meth(B): BETX [10:07:16 May 17 1994]

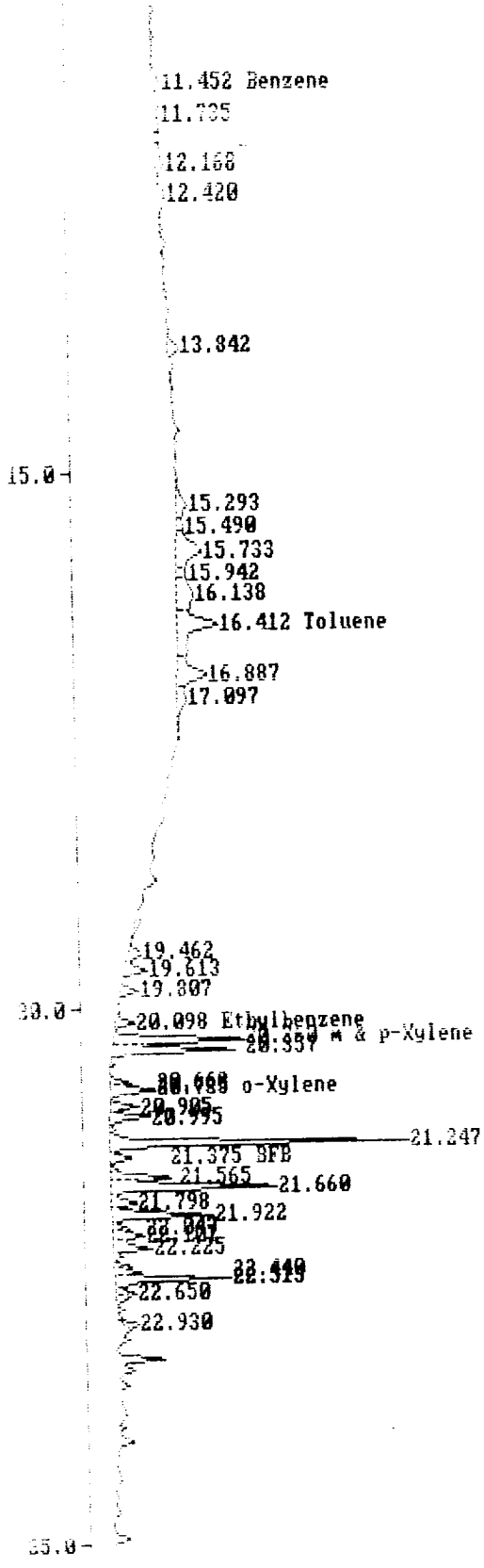
Sample Amt : 1.00000e+0 Dilution: 2.00000e+1

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
10.562	47690	T		0.00000e+0	0.0000	Unknown
11.452	56007	T	11.521	9.93760e-5	111.3155	Benzene
11.735	47967	T		0.00000e+0	0.0000	Unknown
12.168	54934	T		0.00000e+0	0.0000	Unknown
12.420	43346	T		0.00000e+0	0.0000	Unknown
13.841	57280	T		0.00000e+0	0.0000	Unknown
			14.070	0.00000e+0		a,a,a TFT
15.293	30697	T		0.00000e+0	0.0000	Unknown
15.490	32321	T		0.00000e+0	0.0000	Unknown
15.732	221604	T		0.00000e+0	0.0000	Unknown
15.941	34097	T		0.00000e+0	0.0000	Unknown
16.138	191910	T		0.00000e+0	0.0000	Unknown
16.412	295597	T	16.470	1.97425e-4	1324.6707	Toluene
16.667	212500	T		0.00000e+0	0.0000	Unknown
17.096	30462	T		0.00000e+0	0.0000	Unknown
19.462	57166	T		0.00000e+0	0.0000	Unknown
19.613	69749	V		0.00000e+0	0.0000	Unknown
19.807	47799	V		0.00000e+0	0.0000	Unknown
20.098	45286	T	20.127	1.48370e-4	134.3905	Ethylbenzene
20.290	324560	T	20.290	1.98190e-4	1286.4937	m & p-Xylene
20.557	273643	T		0.00000e+0	0.0000	Unknown
20.668	81320	T		0.00000e+0	0.0000	Unknown
20.715	119136	T	20.748	1.29441e-4	451.3865	o-Xylene
20.905	68267	T		0.00000e+0	0.0000	Unknown
20.955	96636	T		0.00000e+0	0.0000	Unknown
21.147	666706	T		0.00000e+0	0.0000	Unknown
21.375	61851	V	21.348	-2.40716e-5	-29.7774	BFB
21.565	130518	T		0.00000e+0	0.0000	Unknown
21.660	375889	T		0.00000e+0	0.0000	Unknown
21.798	64501	T		0.00000e+0	0.0000	Unknown
21.922	234314	T		0.00000e+0	0.0000	Unknown
22.047	43708	T		0.00000e+0	0.0000	Unknown
22.107	78165	T		0.00000e+0	0.0000	Unknown
22.225	102331	T		0.00000e+0	0.0000	Unknown
22.440	60924	T		0.00000e+0	0.0000	Unknown
22.513	227510	T		0.00000e+0	0.0000	Unknown
22.650	47715	T		0.00000e+0	0.0000	Unknown
22.930	44261			0.00000e+0	0.0000	Unknown

(BETX_03.D02) mV




11.452 Benzene
11.735
12.168
12.420
13.842
15.0
15.293
15.490
15.733
15.942
16.138
16.412 Toluene
16.887
17.097
19.462
19.613
19.807
30.0
20.098 Ethylbenzene
m & p-Xylene
o-Xylene
20.995
21.247
21.375 BFB
21.565
21.660
21.798
21.922
22.225
22.650
22.930
35.0

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 McGEE #1E (94501)

Elevation
Borehole Location T.30, R13, S27, E
GWL Depth
Logged By ST Pope
Drilled By ~~M DONOHUE~~ K Padilla
Date/Time Started 9/29/95 0800
Date/Time Completed 9/29/95

Well Logged By ST Pope
Personnel On-Site D. Charlie, Jones
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							0	0	0	
10				Bottom of Pit		12				
15	1	15 17	18	Gray Sand Fine - Medium grained, Trace Silt, Med dense, MOIST	SW	0	0	0	365	Headspace = 8303 Strong HC odor Gray discolored
20	2	20 ~~25~~	12	SAA			0	10	507	HS = 1703
25	3	25 27	18	SAA			0	10	506	HS = 4500
30	4	30 32	12	SAA	SW		0	49	529	HS = 2033
35	5	35 37	15	SAA			2	72	175	HS = 1735
40										

Comments: SAA = Same As Above

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 McGEE #1E, (94501)

Elevation
Borehole Location T30 R13, S27, F
GWL Depth N/A
Logged By S.T Pope
Drilled By M DONOHUE
Date/Time Started 9/29/95 0800
Date/Time Completed 9/29/95

Well Logged By ST Pope
Personnel On-Site D. Charlie, Jones
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	MS	Drilling Conditions & Blow Counts
40	6	40 42	15	Gray Sand Fine - Med grained, trace Silt, Med dense, MOIST	SW		3	38	177	HS= 3893 Strong odor discolored
45	7	45 47	15	SAA			2	25	30	HS = 6510 Discoloration ends @ 46.5
50	8	50 52	12	Brown Sand Fine - Med. grained, trace Silt, Med dense, MOIST			2	11	13	HS= 6508 Slight HC odor no discoloration.
55	9	55 57	12	Brown Sand Fine - Med grained, trace Silt, trace Med gravel, dense Dry. (Possibly cemented S.S.)	Sand Stone	55	2	75	19	HS= 1500 Drilling getting tight
60	10	60 62	12	SAA No gravel			2	157	17	HS= 83
65 *	11	65 67	22	SAA			0	9	9	HS=29 *
70				TOB-67						
75										
80										

Comments: * Sample STP-21 65-67' for BTEX & TPH sent to EPNG Lab.

Geologist Signature Shon 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:	STP 21	947562
MTR CODE | SITE NAME:	94501	McGee #1E
SAMPLE DATE | TIME (Hrs):	09-29-95	1030
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	10/3/95	10/2/95
DATE OF BTEX EXT. | ANAL.:	10/2/95	
TYPE | DESCRIPTION:	VG	Light brown sand

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)	~~35~~ 34.9	MG/KG			2.02	28
HEADSPACE PID	29	PPM				
PERCENT SOLIDS	97.6	%				

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

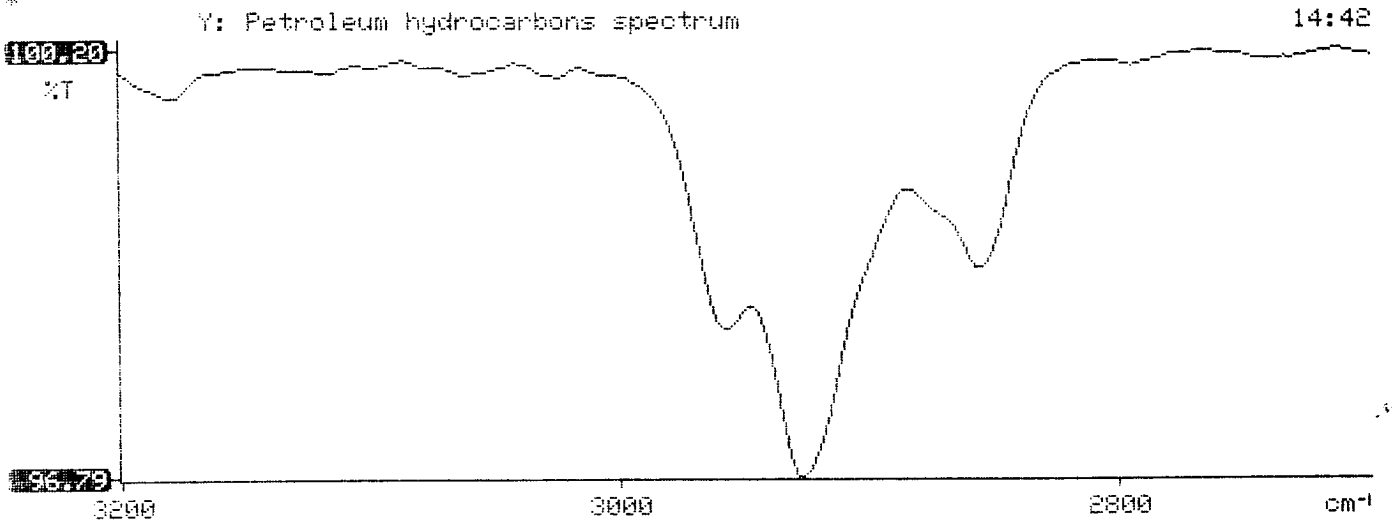
The Surrogate Recovery was at 97% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 10-4-95

```
**********************************************************
*                    Test Method for                     *
*      Oil and Grease and Petroleum Hydrocarbons         *
*                   in Water and Soil                    *
*                                                        *
*            Perkin-Elmer Model 1600 FT-IR               *
*                   Analysis Report                      *
**********************************************************
*
 95/10/03  14:42
*
*  Sample identification
 947562
*
*  Initial mass of sample, g
 2.020
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 34.931
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.015
*
*
*
```



BTEX SOIL SAMPLE WORKSHEET

File	947562	**Date Printed**	10/3/95	
Soil Mass (g)	5.13	**Multiplier (L/g)**	0.00097	
Extraction vol. (mL)	10	**DF (Analytical)**	200	
Shot Volume (uL)	50	**DF (Report)**	0.19493	
				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	**0.487**
Toluene (ug/L)	0.33	**Toluene (mg/Kg):**	**0.064**	**0.487**
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	**0.487**
p & m-xylene (ug/L)	0.27	p & m-xylene (mg/Kg):	0.053	**0.975**
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	**0.487**
		Total xylenes (mg/Kg):	**0.053**	1.462
		Total BTEX (mg/Kg):	**0.117**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\100295-1.002
Method : C:\LABQUEST\METHODS\1-091895.MET
Sample ID : 947562,5.13G,50U
Acquired : Sep 30, 1995 14:46:53
Printed : Sep 30, 1995 15:13:14
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.917	0	0.0000
a,a,a TFT	6.647	4643195	100.5732
TOLUENE	8.680	93008	0.3349
ETHYLBENZENE	12.710	0	0.0000
M & P XYLENE	13.050	87857	0.2652
O XYLENE	14.208	0	0.0000
BFB	15.723	70047928	96.6322