EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

RECEIVED
JUL 2 1998
OIL CON. DIV.

COM #1E
Meter/Line ID - 90887

SITE DETAILS

Legals - Twn: 29 **Rng:** 14 **Sec:** 02 **Unit:** A
NMOCD Hazard Ranking: 20 **Land Type:** 1 - State
Operator: DUGAN PRODUCTION CORP **Pit Closure Date: 11/08/93**

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.

LOCATION PIT CLOSURE FORM

GENERAL

Meter: 90887 Location: COM #15

Operator #: 1862 Operator Name: DUGAN P/L District: KUTZ

Coordinates: Letter: A Section 2 Township: 29 Range: 14

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

Date Started: 11-08-93 Run: 02 23

SITE ASSESSME

NMOCD Zone: (From NMOCD Maps)
- Original ☐
- Expanded ☒
- Outside ☐

Land Type:
- BLM ☐
- State ☒
- Fee ☐
- Indian _____

Depth to Groundwater

- Less Than 50 Ft (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 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 LOCKE ARROYO

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

TOTAL HAZARD RANKING SCORE: 20 **POINTS**

REMARK

Remarks : _____

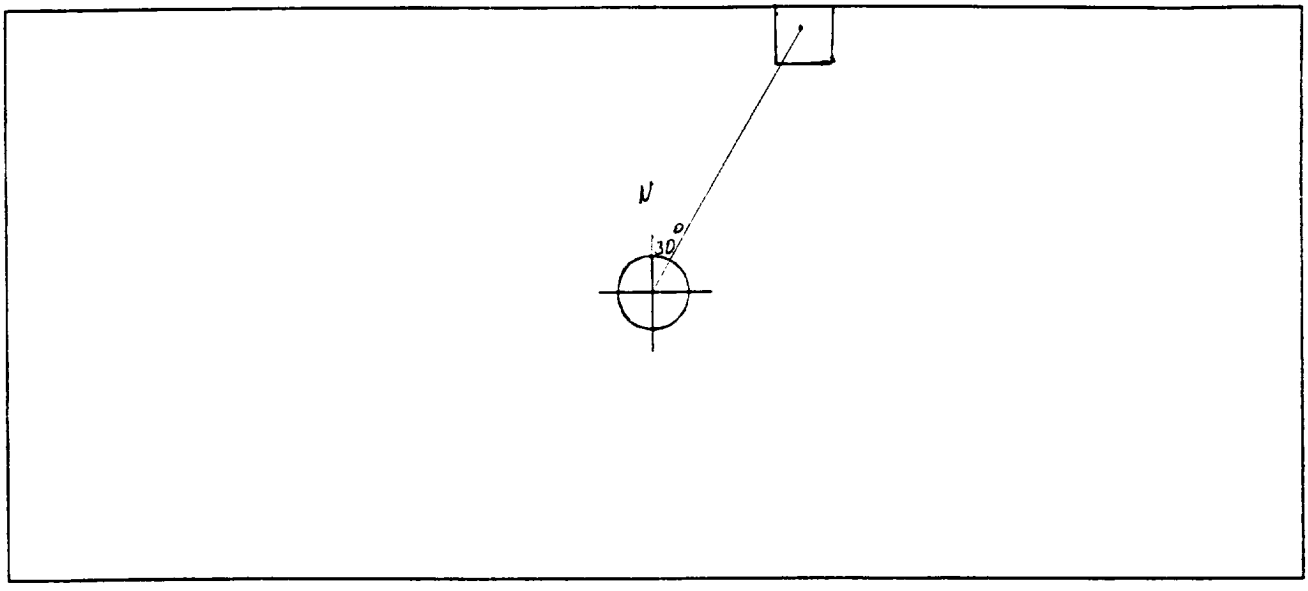
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 30° Footage from Wellhead 91'

b) Degrees from North _____ Footage from Dogleg _____

Dogleg Name _____

c) Length : 12' Width : 12' Depth : 30"



CLOSURE

Remediation Method : Excavation ☒ Approx. Cubic Yards 323

☐ Onsite Bioremediation

☐ Alternative Method (Backfill Pit Without Excavation)

Remediation Location : Envirotech ☐

Other Facility ☒ Name: Tierra ENVIRONMENTAL

Onsite ☐

Pit Closure Date: 11-08-93 Pit Closed By: BEI

Signature of Specialist: Kathy Crosby

REMARKS

Remarks : SAND ROCK AT 3', SOIL BEGINNING TO CLEAR AT 6'

PHASE I
EXCAVATION

SAMPLING INFORMATION

OUTSIDE ZONES

Pit Located Outside Both Water Vulnerable Zones

Sample Number: _____ Date Taken: _____

Sampled By: _____ Time Sampled: _____

Sample Depth at Center of Pit: _____ Feet

Verification ☐ Duplicate ☐

Blank ☐

INSIDE ZONES FIELD HEADSPACE BELOW 100ppm

Pit Located in Original Zone or Expanded Zone

Sample Number: ~~3-90887-L-V-01~~ RC Date Taken: ~~11-08-93~~

Sampled By: ~~Ricky Cosby~~ Time Sampled: _____

Sample Depth at Center of Pit: _____ Feet

Pit Bottom Field Headspace: ~~1160~~ ppm

Verification ☒ Duplicate ☒

Blank ☒

INSIDE ZONES FIELD HEADSPACE ABOVE 100ppm

Pit Located in Original Zone or Expanded Zone

Sample Number: 3-90889-L-V-01 Date Taken: 11-08-93

Sampled By: RICKY COSBY Time Sampled: 1130

Sample Depth at Center of Pit: 7 Feet

Five Point Composite Headspace: 950 ppm

Verification ☒ Duplicate ☒

Blank ☒

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 3-90887-L-V-01, com #1E

SAMPLE DATE: 8-Nov-93
SAMPLE TIME (Hrs.): 1130
SAMPLED BY: Ricky Cosby
DATE OF TPH EXT. & ANAL.: 15-Nov-93
DATE OF BTEX ANALYSIS: 16-Nov-93
DESCRIPTION: Damp, Brown, Sand and Clay

REMARKS: None

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIER
BENZENE	<0.125	MG/KG	None
TOLUENE	0.44	MG/KG	None
ETHYL BENZENE	1.01	MG/KG	None
TOTAL XYLENES	10.9	MG/KG	None
TOTAL BTEX	12.4	MG/KG	None
TPH (418.1)	2,670	MG/KG	None
HEADSPACE PID	Not Run	PPM	None
PERCENT SOLIDS	82	%	None

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

Narrative:
The Surrogate Recovery was at 96.0 % for this sample All QA/QC was acceptable.

Approved By: John Faubion 18-Nov-93

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 3-90887-L-D-01

SAMPLE DATE: 8-Nov-93
SAMPLE TIME (Hrs.): 1130
SAMPLED BY: Ricky Cosby
DATE OF TPH EXT. & ANAL.: 15-Nov-93
DATE OF BTEX ANALYSIS: 16-Nov-93
DESCRIPTION: Damp, Brown, Sand and Clay

REMARKS: None

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIER
BENZENE	<0.125	MG/KG	None
TOLUENE	0.95	MG/KG	None
ETHYL BENZENE	1.50	MG/KG	None
TOTAL XYLENES	13.3	MG/KG	None
TOTAL BTEX	15.8	MG/KG	None
TPH (418.1)	2,330	MG/KG	None
HEADSPACE PID	Not Run	PPM	None
PERCENT SOLIDS	84	%	None

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

Narrative:
The Surrogate Recovery was at 95.8 % for this sample All QA/QC was acceptable.

Approved By: John Kaldi 19-Nov-93

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 3-90887-L-B-01

SAMPLE DATE: 8-Nov-93
SAMPLE TIME (Hrs.): 1030
SAMPLED BY: Ricky Cosby
DATE OF TPH EXT. & ANAL.: 15-Nov-93
DATE OF BTEX ANALYSIS: 16-Nov-93
DESCRIPTION: Dry, Brown Sand

REMARKS: None

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIER
BENZENE	<0.01	MG/KG	None
TOLUENE	<0.01	MG/KG	None
ETHYL BENZENE	<0.01	MG/KG	None
TOTAL XYLENES	<0.01	MG/KG	None
TOTAL BTEX	N/A	MG/KG	None
TPH (418.1)	<10	MG/KG	None
HEADSPACE PID	Not Run	PPM	None
PERCENT SOLIDS	96	%	None

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

Narrative:
The Surrogate Recovery was at 91.6 % for this sample All QA/QC was acceptable.

Approved By: John Fabdi 19-Nov-93

File : [illegible] 1-[illegible]87-[illegible]-1 .2g x.025 JB 11/14/93

John Lambdin
Type : Sample

Run : [illegible]
[illegible] : [illegible]CHROM

[illegible] : [illegible] Meth(I): [illegible] : [illegible]:57 Nov 16 1993
Integration: 11:51:24 Nov 16 1993 Meth(A): [illegible] : 07:01:57 Nov 16 1993
Report : 12:17:35 Nov 16 1993 Meth(R): EETX : 07:01:57 Nov 16 1993

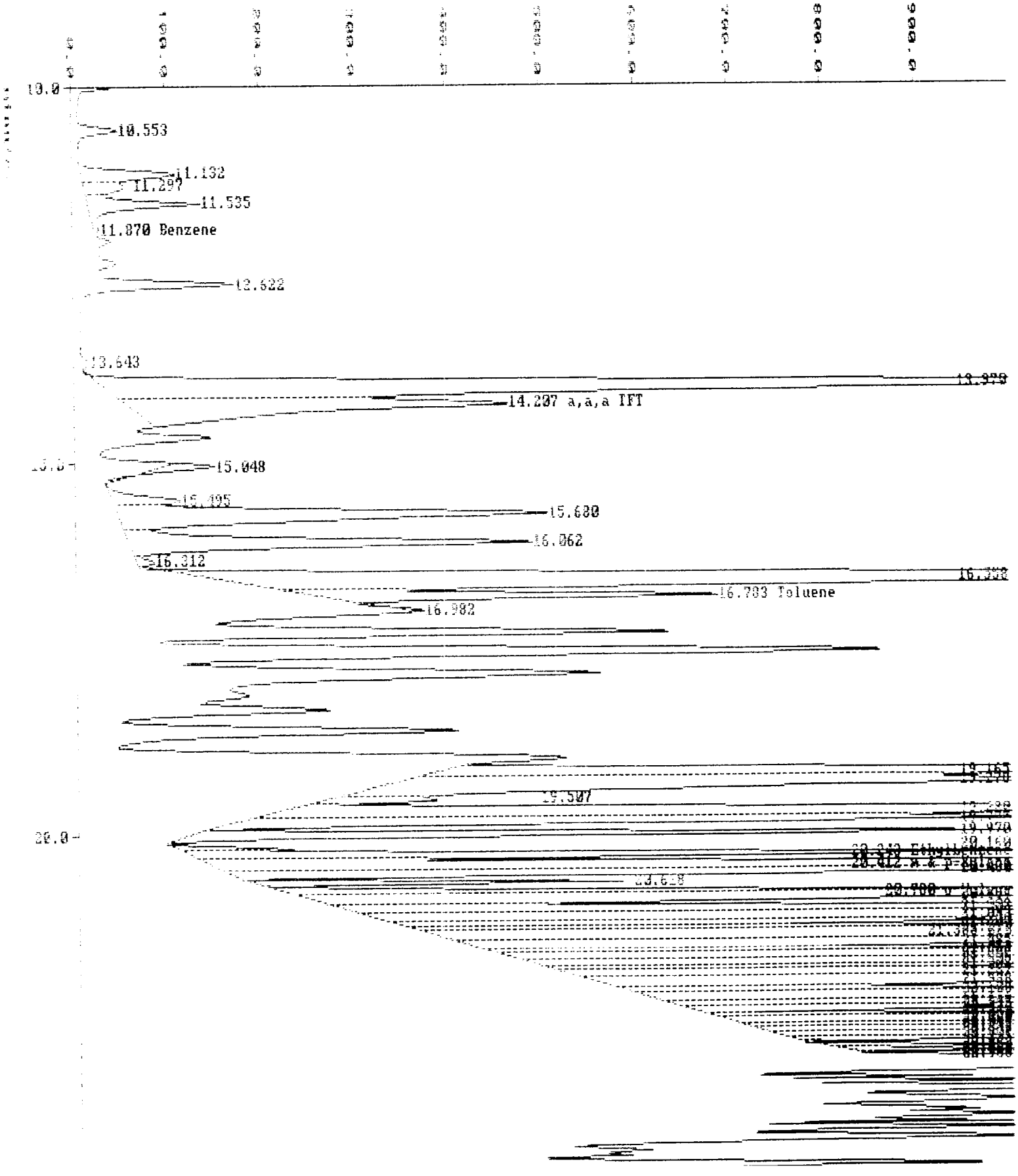
Sample Amt : 1.00000e+0 Dilution: 1.00000e+0

EXTERNAL STANDARD : AREA :

RT	Area	BC	ExpRT	RF	ug/L	Name
10.252	256920			0.00000e+0	0.0000	Unknown
11.102	817015	T		0.00000e+0	0.0000	Unknown
11.297	361118	T		0.00000e+0	0.0000	Unknown < 0.125
11.535	1008640	T		0.00000e+0	0.0000	Unknown
11.870	34468	V	11.915	5.72779e-5	2.2190	Benzene x .005/0.2 = 0.058
[illegible]	783874			0.00000e+0	0.0000	Unknown
12.848	47221	V		0.00000e+0	0.0000	Unknown
13.970	12559097	T		0.00000e+0	0.0000	Unknown
14.207	4419104		14.207	9.20440e-5	406.7549	a,a,a TFT
[illegible]	125877	T		0.00000e+0	0.0000	Unknown
[illegible]	340796	T		0.00000e+0	0.0000	Unknown
[illegible]	1220022			0.00000e+0	0.0000	Unknown
[illegible]	2488175	T		0.00000e+0	0.0000	Unknown
[illegible]	109171	T		0.00000e+0	0.0000	Unknown
16.522	1411084	T		0.00000e+0	0.0000	Unknown
16.702	2427034	V	16.722	7.26470e-6	17.6317	Toluene = 0.44
[illegible]	94531			0.00000e+0	0.0000	Unknown
18.185	3175554			0.00000e+0	0.0000	Unknown
19.270	7620087	T		0.00000e+0	0.0000	Unknown
19.505	521036	T		0.00000e+0	0.0000	Unknown
19.580	10634704	T		0.00000e+0	0.0000	Unknown
19.791	2010152	V		0.00000e+0	0.0000	Unknown
[illegible]	3721210	T		0.00000e+0	0.0000	Unknown
20.161	402284	T		0.00000e+0	0.0000	Unknown
20.240	5510586	T	20.211	7.12501e-6	40.2125	Ethylbenzene = 1.01
20.412	45226376	T	20.371	8.31004e-6	375.9685	m & p-Xylene
20.480	11538800	V		0.00000e+0	~~0.0000~~ 96.3	Unknown = 10.9
20.618	1087092	T		0.00000e+0	0.0000	Unknown
20.780	8880936	T	20.807	7.17006e-6	63.6768	o-Xylene
20.837	17009778	T		0.00000e+0	0.0000	Unknown
21.000	8943825	T		0.00000e+0	0.0000	Unknown
21.090	17166734	T		0.00000e+0	0.0000	Unknown
21.200	2227284	T		0.00000e+0	0.0000	Unknown
21.271	3492721	T		0.00000e+0	0.0000	Unknown
21.335	20124124	T	21.311	3.18750e-6	36.0230	BFB
21.485	10389146	T		0.00000e+0	0.0000	Unknown
21.560	2002117	T		0.00000e+0	0.0000	Unknown
21.641	17389464	T		0.00000e+0	0.0000	Unknown
21.708	24162758	T		0.00000e+0	0.0000	Unknown
[illegible]	1302275	T		0.00000e+0	0.0000	Unknown
21.857	7541411	T		0.00000e+0	0.0000	Unknown
21.981	12473670	T		0.00000e+0	0.0000	Unknown
22.103	3592675	T		0.00000e+0	0.0000	Unknown
22.172	8492681	T		0.00000e+0	0.0000	Unknown
22.291	3022649	T		0.00000e+0	0.0000	Unknown
22.355	1201438	T		0.00000e+0	0.0000	Unknown
22.450	2530862	T		0.00000e+0	0.0000	Unknown
22.493	8336972	T		0.00000e+0	0.0000	Unknown
22.572	3462758	T		0.00000e+0	0.0000	Unknown
[illegible]	2093596	T		0.00000e+0	0.0000	Unknown

[illegible]	[illegible]	[illegible]	0.0000	Unknown
[illegible]	[illegible]	[illegible]	0.0000	Unknown
[illegible]	[illegible]	[illegible]	0.0000	Unknown

(BETX__37.D61)



File : BETX__17.D02 S-90367-L-?-1..2g 11/16/93 YS. John Lambdin

Type : Sample

[illegible]

[illegible] Method: BETX [15:16:35 Nov 09 1993]

Integration: 11:51:34 Nov 16 1993 Meth(I): BETX [15:16:35 Nov 09 1993]

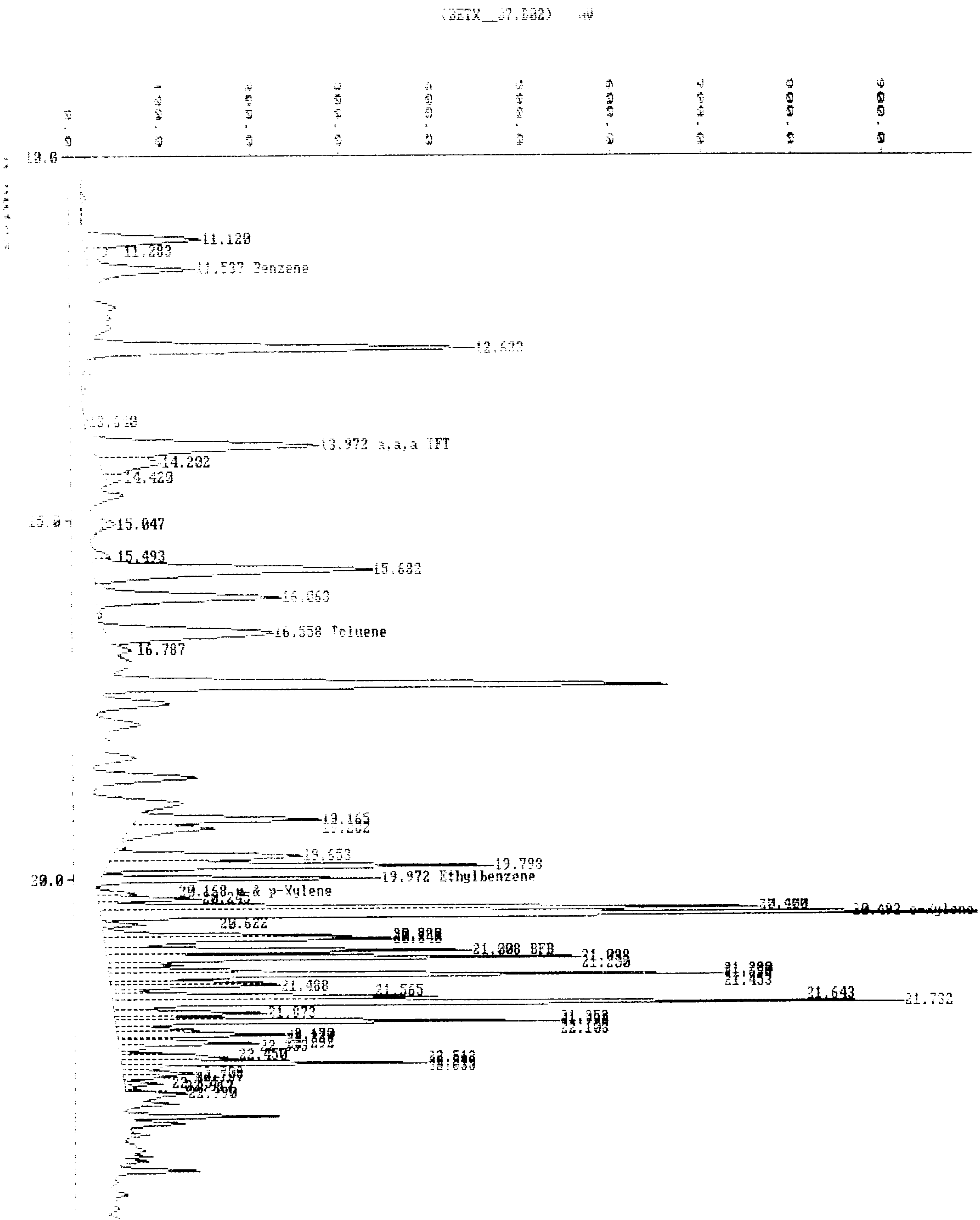
Report : 12:17:53 Nov 16 1993 Meth(C): BETX [15:16:35 Nov 09 1993]

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

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
11.120	1004124	T		0.00000e+0	0.0000	Unknown
11.223	173923	T		0.00000e+0	0.0000	Unknown
11.537	1031065	V	11.669	1.03505e-4	109.5271	Benzene
12.623	2343120	V		0.00000e+0	0.0000	Unknown
13.640	31243	V		0.00000e+0	0.0000	Unknown
13.972	2324033	T	13.972	0.00000e+0	0.0000	? a,a,a TFT
14.202	356144	T		0.00000e+0	0.0000	Unknown
14.420	93233			0.00000e+0	0.0000	Unknown
15.047	56417	T		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]	T		0.00000e+0	0.0000	Unknown
15.321	1366617	T		0.00000e+0	0.0000	Unknown
16.011	[illegible]	T		0.00000e+0	0.0000	Unknown
16.258	1769975	T	16.314	2.06171e-4	364.9192	Toluene
18.737	31791	T		0.00000e+0	0.0000	Unknown
19.165	999571	T		0.00000e+0	0.0000	Unknown
19.231	300850			0.00000e+0	0.0000	Unknown
19.530	1288563	T		0.00000e+0	0.0000	Unknown
19.738	1755091			0.00000e+0	0.0000	Unknown
19.971	1097131		19.950	1.12036e-4	240.3115	Ethylbenzene
20.138	153236	T	20.112	2.36080e-4	36.1760	m & p-Xylene
20.245	405239	T		0.00000e+0	0.0000	Unknown
[illegible]	[illegible]			0.00000e+0	0.0000	Unknown
[illegible]	1854620	T	20.547	[illegible]	[illegible]	o-Xylene
[illegible]	145070	T		0.00000e+0	0.0000	Unknown
[illegible]	104340			0.00000e+0	0.0000	Unknown
[illegible]	1079469	T		0.00000e+0	0.0000	Unknown
[illegible]	1206140	T	21.047	7.30012e-[illegible]	1.9661	BFB
21.090	1886346	T		0.00000e+0	0.0000	Unknown
21.200	221571	T		0.00000e+0	0.0000	Unknown
21.280	470649	T		0.00000e+0	0.0000	Unknown
21.338	2041680	T		0.00000e+0	0.0000	Unknown
21.450	409579	T		0.00000e+0	0.0000	Unknown
21.492	526505	T		0.00000e+0	0.0000	Unknown
21.555	110132	T		0.00000e+0	0.0000	Unknown
21.643	1211230	T		0.00000e+0	0.0000	Unknown
21.702	2397025	T		0.00000e+0	0.0000	Unknown
21.870	593788	T		0.00000e+0	0.0000	Unknown
21.951	330456	T		0.00000e+0	0.0000	Unknown
21.992	1204775	T		0.00000e+0	0.0000	Unknown
[illegible]	207544	T		0.00000e+0	0.0000	Unknown
22.170	506938	T		0.00000e+0	0.0000	Unknown
22.218	117578	T		0.00000e+0	0.0000	Unknown
22.291	445599	T		0.00000e+0	0.0000	Unknown
22.330	100314	T		0.00000e+0	0.0000	Unknown
22.430	193754	T		0.00000e+0	0.0000	Unknown
22.510	440310	T		0.00000e+0	0.0000	Unknown
22.572	304974	T		0.00000e+0	0.0000	Unknown
22.630	153514	T		0.00000e+0	0.0000	Unknown
[illegible]	200505	T		0.00000e+0	0.0000	Unknown

0.0000 Unknown
Unknown



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

93/11/15 10:07

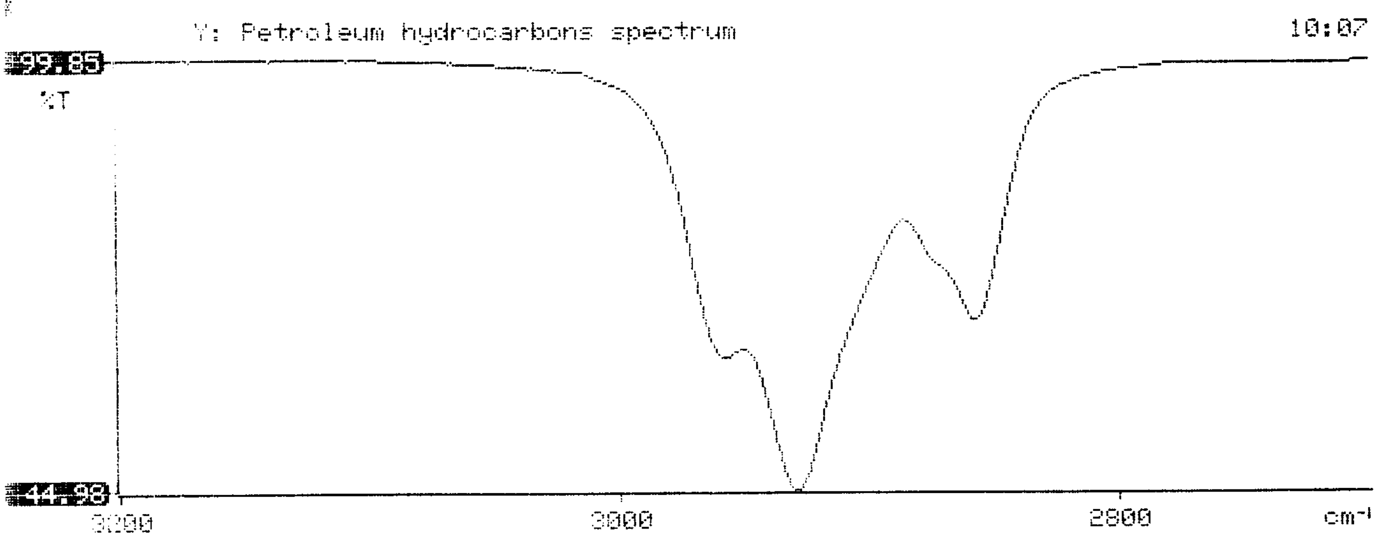
Sample identification
3-90887-L-V-01

Initial mass of sample, g
2.000

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
2667.304

Net absorbance of hydrocarbons (2930 cm-1)
0.345



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 COM #1E 90887

Elevation
Borehole Location T30, R14, S 33, D
GWL Depth
Logged By Jeff W. Kindley
Drilled By S. Sneider
Date/Time Started 09/25/95 1410
Date/Time Completed 09/25/95 1530

Well Logged By Jeff W. Kindley
Personnel On-Site S. Sneider, D. Roberts, D Charle
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										
5										
10										
15	1	15-17	1.9/2.0	SC, BR SANDY CLAY (20% Sand, dry, very dense, hydrocarbon odor					65/67	1430 78 blows per Foot
20	2	20-22	1.6/2.0	S.A.A					81/71	1445 78 blows per Foot
25	3	25-27	1.2/2.0	SANDSTONE, BROWN, DRY Very dense, no odor Boring terminated at 27' due to auger refusal					0/0	1501 80 blows per foot
30										
35										
40										

Comments: Auger refusal. Sample collected From 25 to 27 feet and analyzed For BTEX, 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:	JWK85	947543
MTR CODE | SITE NAME:	90887	Com #1E
SAMPLE DATE | TIME (Hrs):	09-26-95	1501
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9-27-95	
DATE OF BTEX EXT. | ANAL.:	9/27/95	9/27/95
TYPE | DESCRIPTION:	V6	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)	31	MG/KG			2.04	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	97.5	%				

-- 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                       *
*                                                        *
**********************************************************
*
 95/09/27  14:13
*
*  Sample identification
 947543
*
*  Initial mass of sample, g
 2.040
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 30.565
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
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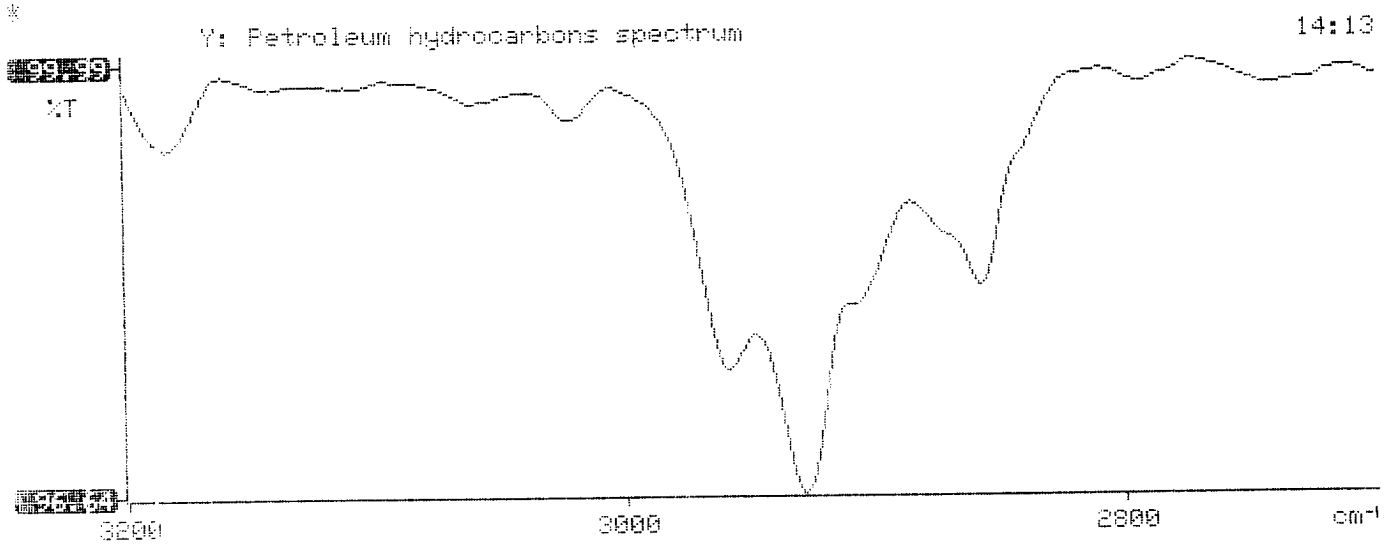

BTEX SOIL SAMPLE WORKSHEET

File	947543	**Date Printed**	9/28/95
Soil Mass (g)	4.97	**Multiplier (L/g)**	0.00101
Extraction vol. (mL)	10	**DF (Analytical)**	200
Shot Volume (uL)	50	**DF (Report)**	0.20121

			Det. Limit
Benzene (ug/L)	0.46	**Benzene (mg/Kg):**	**0.093**	0.503
Toluene (ug/L)	2.08	**Toluene (mg/Kg):**	**0.419**	0.503
Ethylbenzene (ug/L)	0.33	**Ethylbenzene (mg/Kg):**	**0.066**	0.503
p & m-xylene (ug/L)	2.29	p & m-xylene (mg/Kg):	0.461	1.006
o-xylene (ug/L)	0.59	o-xylene (mg/Kg):	0.119	0.503
		Total xylenes (mg/Kg):	**0.579**	1.509
		Total BTEX (mg/Kg):	**1.157**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092795-0.016
Method : C:\LABQUEST\METHODS\9000.MET
Sample ID : 947543,4.97G,50U
Acquired : Sep 28, 1995 00:24:33
Printed : Sep 28, 1995 00:55:00
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.120	173152	0.4628
a,a,a-TFT	10.470	9064250	103.6082
TOLUENE	12.887	755318	2.0754
ETHYLBENZENE	17.227	111209	0.3303
M,P-XYLENES	17.607	919821	2.2927
O-XYLENE	18.773	191776	0.5857
BFB	19.857	53423056	98.0094