

Approved
EL PASO FIELD SERVICES
DEPUTY OIL & GAS INSPECTOR
PRODUCTION PIT CLOSURE

DEC 2 1998

Approved
RINCON UNIT #62
Meter/Line ID - 71592

RECEIVED
JUL 2 1999

SITE DETAILS

Legals - Twn: 27 Rng: 06
NMOCD Hazard Ranking: 10
Operator: UNOCAL CORPORATION

Sec: 28 Unit: P
Land Type: 2 - Federal
Pit Closure Date: 12/08/94

OIL CON. IV
PAGE 2

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

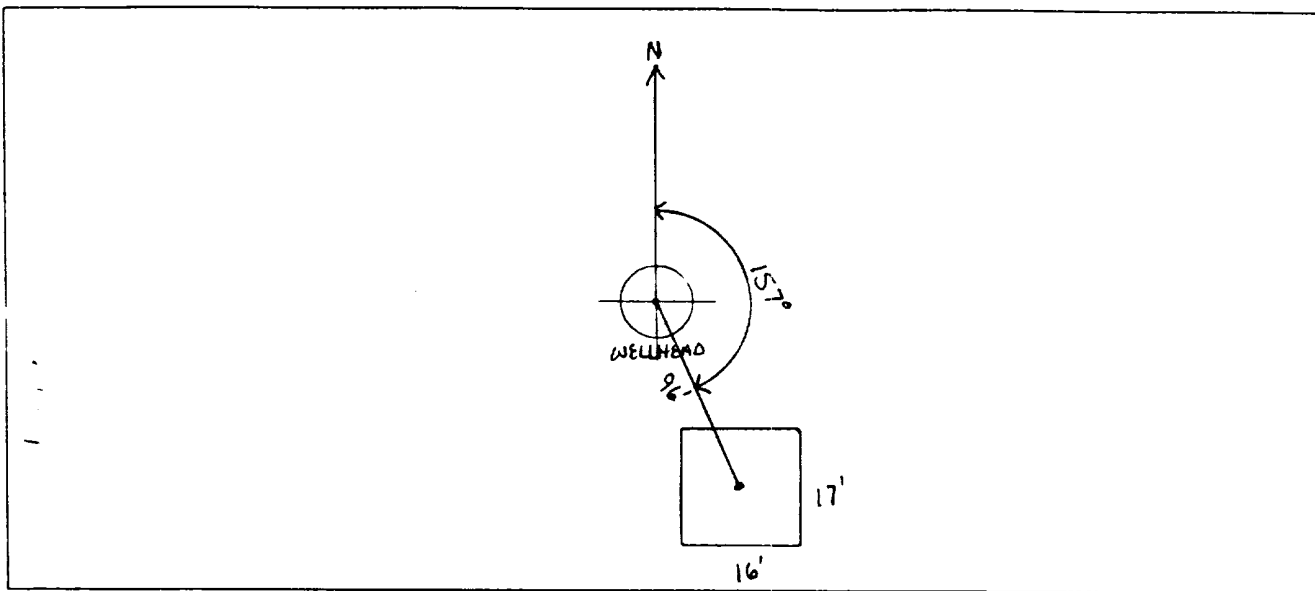
GENERAL	<p>Meter: <u>71592</u> Location: <u>2 RINCON UNIT #62</u></p> <p>Operator #: _____ Operator Name: <u>UNOCAL</u> P/L District: <u>BLANCO</u></p> <p>Coordinates: Letter: <u>P</u> Section <u>28</u> Township: <u>27</u> Range: <u>6</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>11-29-94</u> Area: <u>03</u> Run: <u>51</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>EPHEMERAL DRAINAGE TO MARTINEZ CANYON</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>10</u> POINTS</p>
REMARKS	<p>Remarks : <u>REDLINE & TOPO SHOW LOCATION INSIDE V.Z. ONE PIT ON LOCATION - BELONGS TO UNOCAL. EPNG LOCATION DRIP HAS BEEN CLOSED. WILL RE-DIG CLOSED PIT. NOTE ORANGE STAKE.</u></p>

DEC 6 1994

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 157° Footage from Wellhead 96'
 b) Length : 17' Width : 16' Depth : 0

ORIGINAL PIT LOCATION



Remarks :

PHOTOS - 1243

REMARKS

Completed By:

Robert Thompson

Signature

11.29.94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>71592</u> Location: <u>Rincon unit #62</u></p> <p>Coordinates: Letter: <u>P</u> Section <u>28</u> Township: <u>27</u> Range: <u>6</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12-8-94</u> Run: <u>03</u> <u>51</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 383</u></p> <p>Sample Depth: <u>8'</u> Feet</p> <p>Final PID Reading <u>341 ppm</u> PID Reading Depth <u>8'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>60</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> <input type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>12-8-94</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>Unocal had previously Covered pit, Contaminated Soil was found Immediately Below Surface, No Clean Overburden was Removed. Excavated pit to 8', Hit Sandstone, TOOK PID Sample, closed pit.</u></p>
	<p>Signature of Specialist: <u><i>Harry Dean</i></u></p>



~~SPLIT~~

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 383	KD 94/65 25
MTR CODE SITE NAME:	71592	N/A
SAMPLE DATE TIME (Hrs):	12-8-94	1235
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	12-13-94	12-13-94
DATE OF BTEX EXT. ANAL.:	12/13/94	12/14 & 12/15/94
TYPE DESCRIPTION:	VC	Brown fine sand

REMARKS: BTEX results from EPNG and ATI

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	< 0.61	MG/KG	0.1224	X10	4.07	20	0.52
TOLUENE	21.5	MG/KG	1	X10	1	1	22
ETHYL BENZENE	6.40	MG/KG	1	X10	1	1	5.3
TOTAL XYLENES	119	MG/KG	0.2457	X10	1	1	68
TOTAL BTEX	158	MG/KG	1	X10	1	1	95.8
TPH (418.1)	2310	MG/KG			1.92	28	—
HEADSPACE PID	341	PPM					Surrogate % 148
PERCENT SOLIDS	92.7	%					Dilution Factor 20

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

The Surrogate Recovery was at 208.2% for this samp All QA/QC was acceptable.

Narrative: BFB correlated

ATI Results attached. Surrogate Recovery was outside ATI
ac limits due to matrix interference

DF = Dilution Factor Used

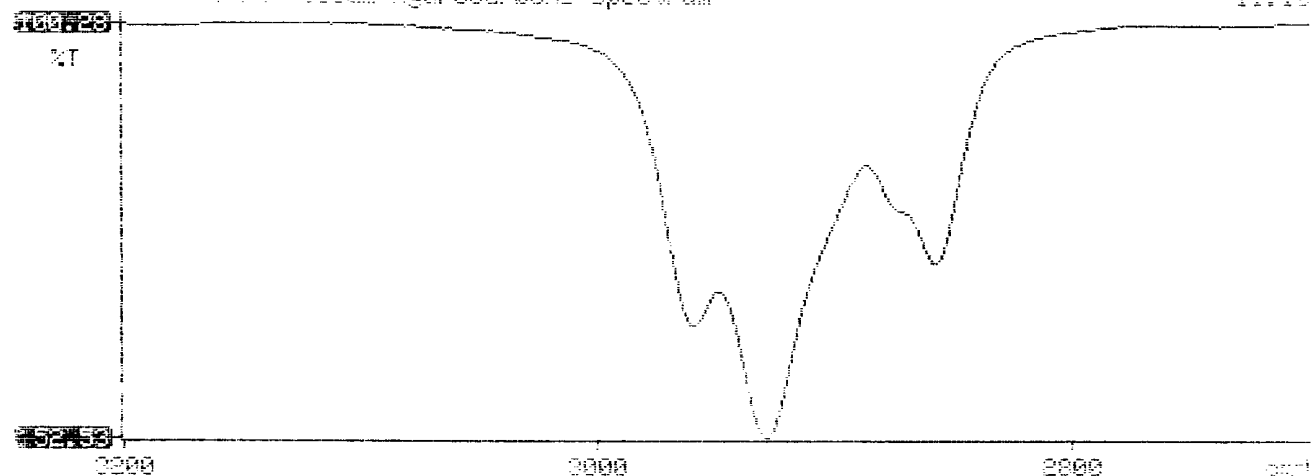
Approved By:

John Tarchi

Date:

12/27/94

ATI
5.0
88
12/27/94



BTEX SOIL SAMPLE WORKSHEET

File : 946525A
Soil Mass (g) : 4.07
Extraction vol. (mL) : 20
Shot Volume (uL) : 200

Date Printed : 12/19/94
Multiplier (L/g) : 0.00123
DF (Analytical) : 100
DF (Report) : 0.12285

			Det. Limit
Benzene (ug/L) :	2.89	Benzene (mg/Kg):	0.355 0.614
Toluene (ug/L) :	175.06	Toluene (mg/Kg):	21.506 0.614
Ethylbenzene (ug/L) :	52.08	Ethylbenzene (mg/Kg):	6.398 0.614
p & m-xylene (ug/L) :	527.93	p & m-xylene (mg/Kg):	64.856 2.457
o-xylene (ug/L) :	264.41	o-xylene (mg/Kg):	32.483 1.229
		Total xylenes (mg/Kg):	97.339 3.686
		Total BTEX (mg/Kg):	125.598

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946525A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946525,4.07G/200uL
 Acquired : Dec 14, 1994 00:16:36
 Printed : Dec 14, 1994 00:42:49
 User : Tony

Channel A Results

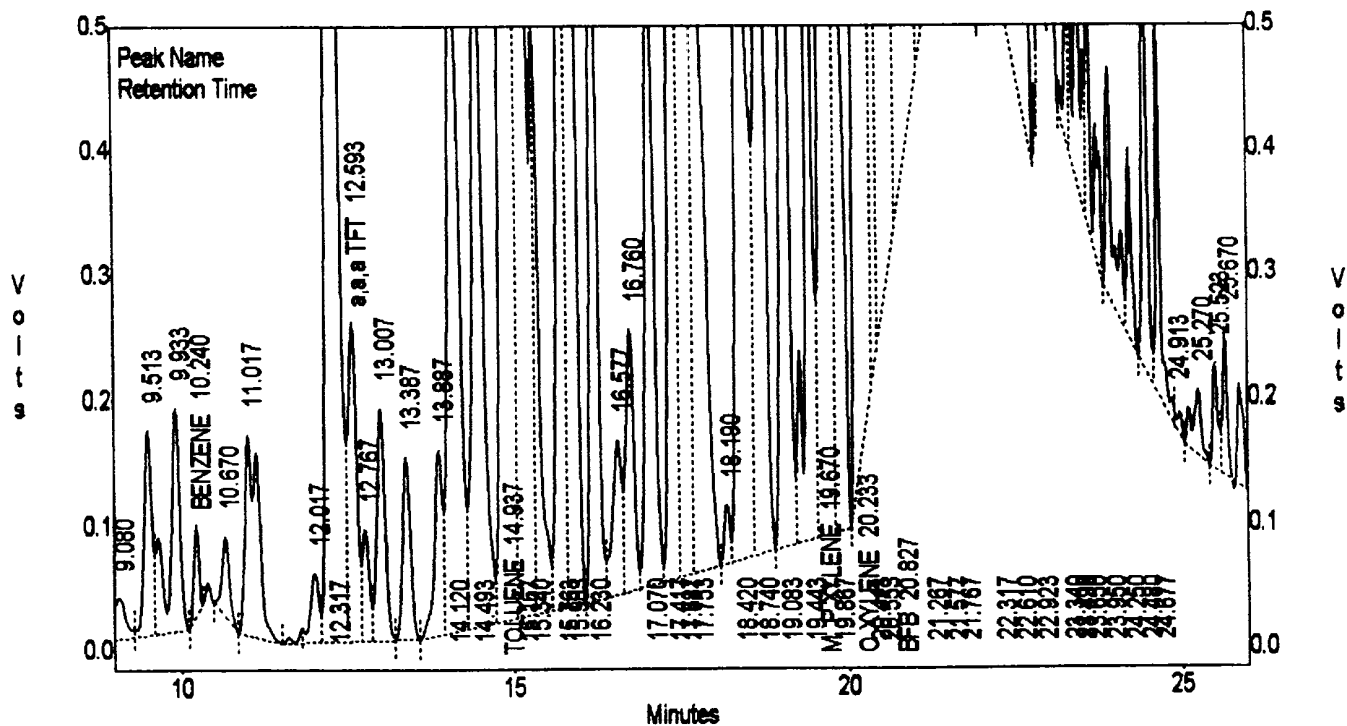
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.240	389480	131872.92188	2.8927
a,a,a TFT	12.593	2280465	8403.01855	254.3324
TOLUENE	14.937	23463532	148815.51563	175.0635
ETHYLBENZENE	19.390	0	0.00000	0.0000 52.08
M & P XYLENE	19.670	68524112	193528.29688	527.9286
O XYLENE	20.233	31503564	142564.65625	264.4076
BFB	20.827	42446600	199747.54688	208.1501

Totals :

168607744

1432.7749

C:\LABQUEST\CHROM\946525A - Channel A

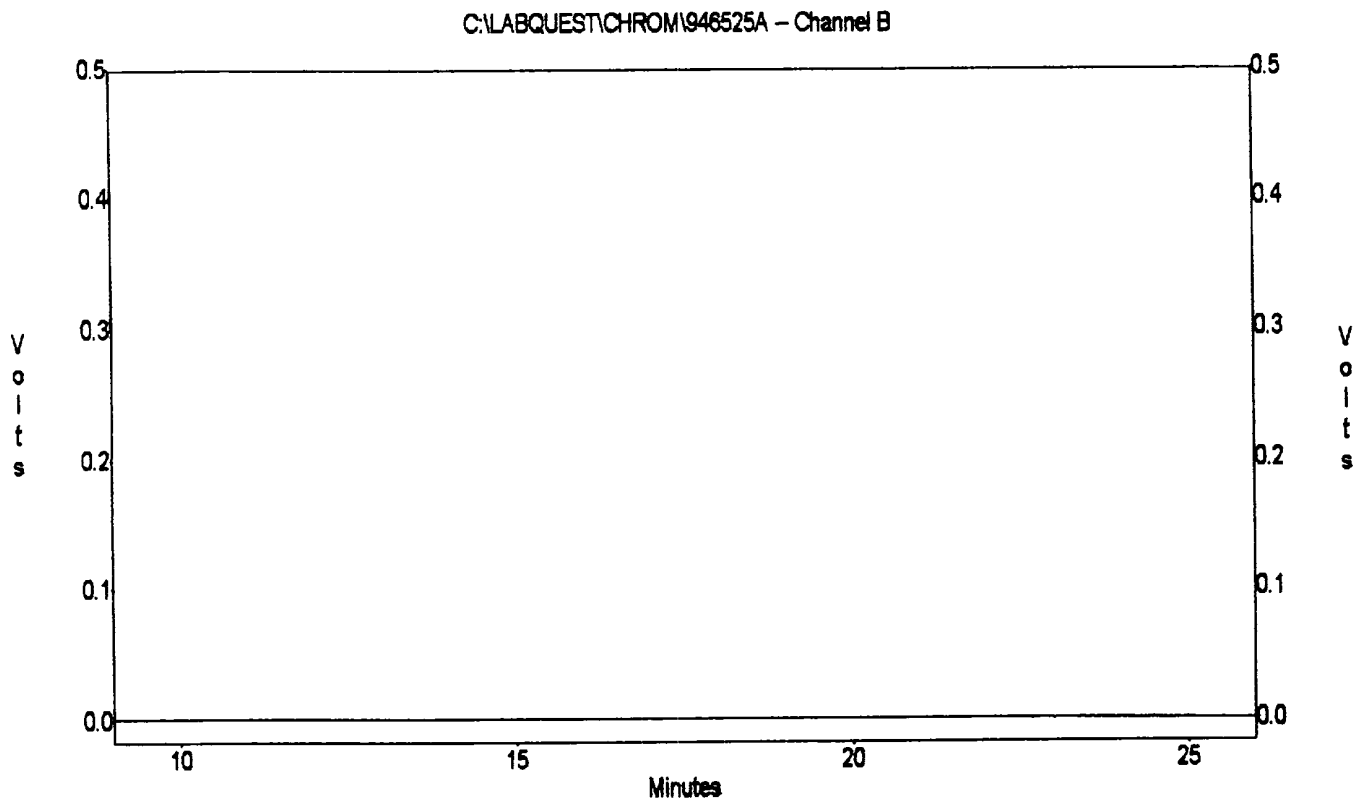


EL PASO NATURAL GAS**EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM\946525A
Method : C:\LABQUEST\METHODS\SOILS.MET
Sample ID : 946525,4.07G/200uL
Acquired : Dec 14, 1994 00:16:38
Printed : Dec 14, 1994 00:42:56
User : Tony

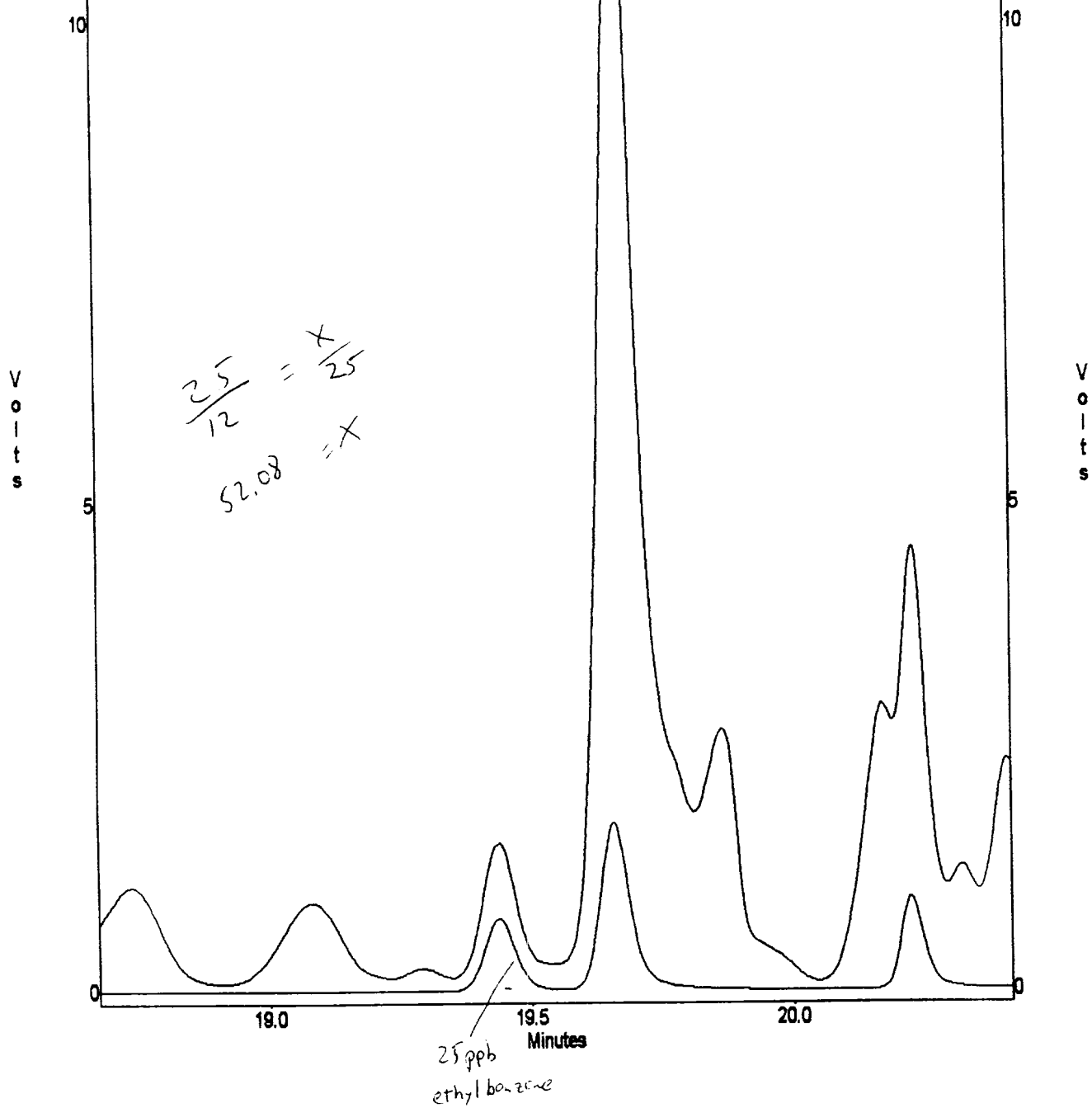
Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.233	0	0.00000	0.0000
a,a,a TFT	12.575	0	0.00000	0.0000
TOLUENE	15.083	0	0.00000	0.0000
ETHYLBENZENE	19.442	0	0.00000	0.0000
M & P XYLENE	19.642	0	0.00000	0.0000
O XYLENE	20.225	0	0.00000	0.0000
BFB	20.900	0	0.00000	0.0000
Totals :		0		0.0000



Overlaid Traces

1213ccv1., Channel A
948525a., Channel A



BTEX SOIL SAMPLE WORKSHEET

File : 946525B
Soil Mass (g) : 4.07
Extraction vol. (mL) : 20
Shot Volume (uL) : 100

Date Printed : 12/19/94
Multiplier (L/g) : 0.00123
DF (Analytical) : 200
DF (Report) : 0.24570

			Det. Limit
Benzene (ug/L) :	2.69	Benzene (mg/Kg):	0.661 1.229
Toluene (ug/L) :	117.83	Toluene (mg/Kg):	28.951 1.229
Ethylbenzene (ug/L) :	39.19	Ethylbenzene (mg/Kg):	9.629 1.229
p & m-xylene (ug/L) :	324.80	p & m-xylene (mg/Kg):	79.803 4.914
o-xylene (ug/L) :	158.11	o-xylene (mg/Kg):	38.848 2.457
		Total xylenes (mg/Kg):	118.651 7.371
		Total BTEX (mg/Kg):	157.892

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946525B
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946525,4.07G/100uL
 Acquired : Dec 15, 1994 17:29:24
 Printed : Dec 15, 1994 17:55:40
 User : Tony

Channel A Results

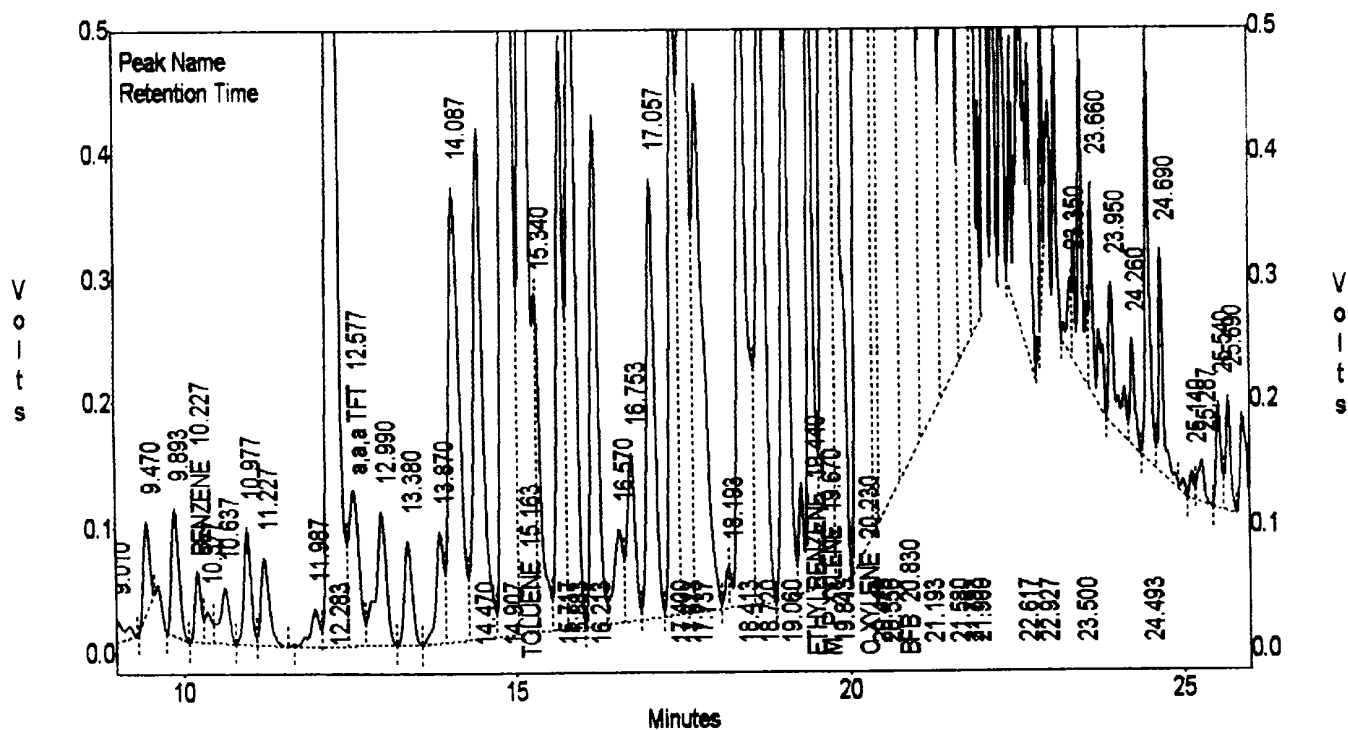
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.227	362896	131872.92188	2.6953
a,a,a TFT	12.577	1290555	8403.01855	143.9311
TOLUENE	15.163	15792193	148815.51563	117.8270
ETHYLBENZENE	19.440	4705529	132895.85938	39.1911
M & P XYLENE	19.670	42158360	193528.29688	324.7996
O XYLENE	20.230	18838984	142564.65625	158.1145
BFB	20.830	29253124	199747.54688	143.4518

Totals :

112401648

930.0104

C:\LABQUEST\CHROM\946525B - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946525B
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946525,4.07G/100uL
 Acquired : Dec 15, 1994 17:29:24
 Printed : Dec 15, 1994 17:55:47
 User : Tony

Channel B Results

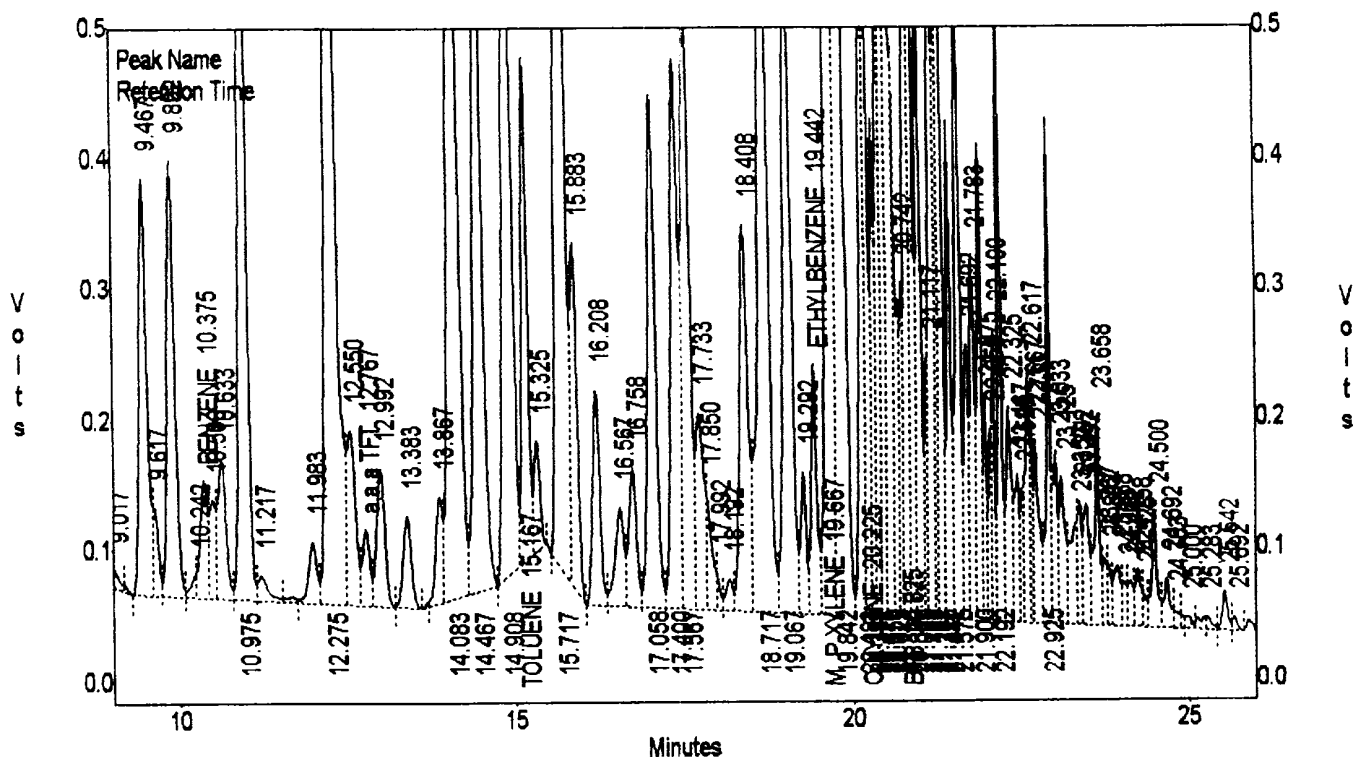
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.375	715815	21915.75586	31.5207
a,a,a TFT	12.767	444197	2414.15015	174.0571
TOLUENE	15.167	2401763	24426.96680	106.4268
ETHYLBENZENE	19.442	1104189	22761.56836	51.4201
M & P XYLENE	19.667	8931063	24867.57227	424.6555
O XYLENE	20.225	2393457	23922.60938	112.5792
BFB	20.825	4252852	23067.31836	175.7427

Totals :

20243336

1076.4020

C:\LABQUEST\CHROM\946525B - Channel B





Analytical **Technologies**, Inc.

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

ATI I.D. 412357

December 20, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 12/14/94, 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.

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:jt

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
 CLIENT : EL PASO NATURAL GAS ATI I.D.: 412357
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946524	NON-AQ	12/08/94	12/14/94	12/17/94	20
02	946525	NON-AQ	12/08/94	12/14/94	12/17/94	20

PARAMETER	UNITS	01	02
BENZENE	MG/KG	0.80	0.52
TOLUENE	MG/KG	8.4	22
ETHYLBENZENE	MG/KG	6.7	5.3
TOTAL XYLENES	MG/KG	60	68

SURROGATE:

BROMOFLUOROBENZENE (%) 109 148*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # _____
Page 1 of _____

Project Name EPNG PITS
Project Number 14509 Phase 6000.77
Project Location Recon Unit 62 F1592

Elevation _____
Borehole Location GP-528-T27-126
GWL Depth _____
Logged By Phillip Moss
Drilled By S. Sander
Date/Time Started 9/9/95 14:05
Date/Time Completed 9-9-95 15:40

Well Logged By Phillip Moss
Personnel On-Site S. Sander, D. Roberts, P. Moss
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: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				Backfill to 8'						
5										
10	1	10-12	SS 0"	No recovery			C	46	107	14:10
15	2	15-17	SS 5"	Sandstone, f.g., poorly-cemented, greenish gray, strong hydro- carbon odor			76	244	361	14:17
20	3	20-22	SS 10"	AA			17	255	341	14:24
25	4	25-27	SS 8"	Sandstone, f.g., brown, poorly-cemented, hydrocarbon odor			29		304	14:32
30	5	30-32	SS 6"	AA			13	337	254	14:45
35	6	34-36	SS 4"	- Auger refusal @ 34' AA TD = 35'			0	337	432	15:10
40										

Comments:

12.15 (34-36') sent to lab (BTEX, TPH), BH grouted to
the surface.

Geologist Signature

Phillip T. Moss



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	PLM15	947434
MTR CODE SITE NAME:	71592	Rincon Unit 62
SAMPLE DATE TIME (Hrs):	09-08-95	1510
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-11-95	09-11-95
DATE OF BTEX EXT. ANAL.:	9/12/95	9/14/95
TYPE DESCRIPTION:	V6	Light Brown Sand & Gravel

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	2.3	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	8.4	MG/KG				
TOTAL BTEX	10.7	MG/KG				
TPH (418.1)	282	MG/KG			2.0	28
HEADSPACE PID	394	PPM				
PERCENT SOLIDS	93.5	%				

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

The Surrogate Recovery was at 99% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: 

Date: 9-15-95

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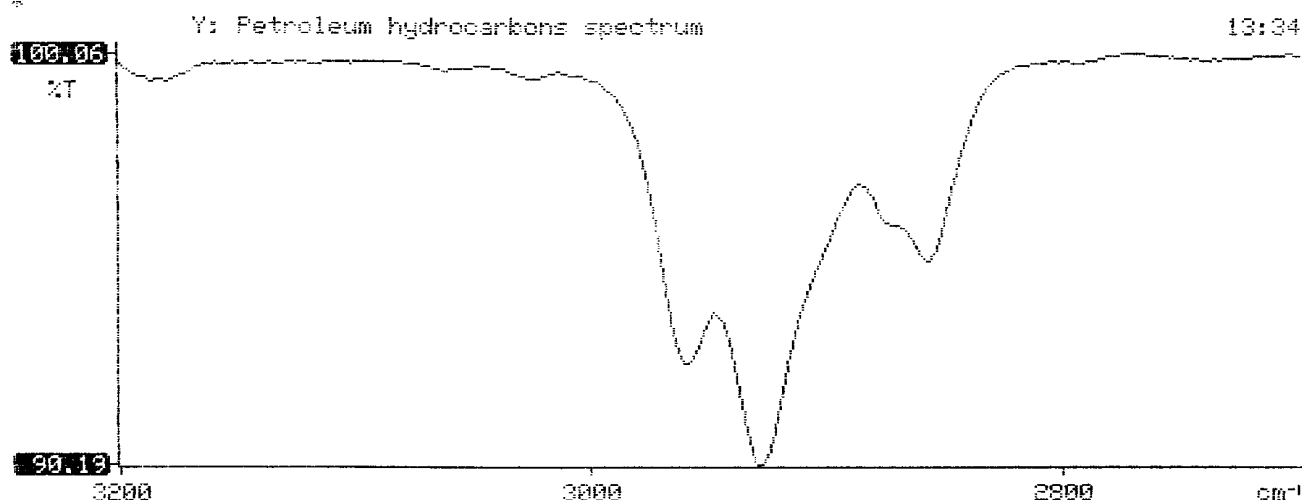
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil       *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                  *
*      Analysis Report                               *
*****

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* 95/09/11 13:34
*
* Sample identification
* 947434
*
* Initial mass of sample, g
* 2.000
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 282.464
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.044
*
*
*

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BTEX SOIL SAMPLE WORKSHEET

File : 947434

Soil Mass (g) : 4.96

Extraction vol. (mL) : 20

Shot Volume (uL) : 100

Date Printed : 9/15/95

Multiplier (L/g) : 0.00101

DF (Analytical) : 200

DF (Report) : 0.20161

			Det. Limit
Benzene (ug/L) :	0.00	Benzene (mg/Kg):	0.000 0.504
Toluene (ug/L) :	11.50	Toluene (mg/Kg):	2.319 0.504
Ethylbenzene (ug/L) :	1.31	Ethylbenzene (mg/Kg):	0.264 0.504
p & m-xylene (ug/L) :	34.70	p & m-xylene (mg/Kg):	6.996 1.008
o-xylene (ug/L) :	6.90	o-xylene (mg/Kg):	1.391 0.504
		Total xylenes (mg/Kg):	8.387 1.512
		Total BTEX (mg/Kg):	10.970

COMPONENT	RET TIME	AREA	CONC (ug/L)
-----	-----	-----	-----
BENZENE	8.010	360892	-0.5561
a,a,a-TFT	11.397	14045223	108.8237
TOLUENE	14.403	5905717	11.4552
ETHYLBENZENE	19.413	1249063	1.3094
M,P-XYLENES	19.833	19322104	34.7106
O-XYLENE	21.083	3631593	6.9002
BFB	22.837	112297776	98.5172