

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

Denny
DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

JULANDER GAS COM #1
Meter/Line ID - 73567

RECEIVED
JUL 2 1998

OIL CON. DIV.
DEPT. 2

SITE DETAILS

Approved
Legals - Twn: 29

Rng: 11

Sec: 10

Unit: J

NMOCD Hazard Ranking: 60

Land Type: 4 - Fee

Operator: DUGAN-PRODUCTION CORP

Pit Closure Date: 12/21/94

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.
- 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: 73567 Location: JULANDER GAS COM #1
 Operator #: _____ Operator Name: _____ P/L District: KUTZ
 Coordinates: Letter: J Section 10 Township: 29 Range: 11
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 12.13.94 Area: 02 Run: 33

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 Bloomfield Canyon
 (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: 60 POINTS

REMARK

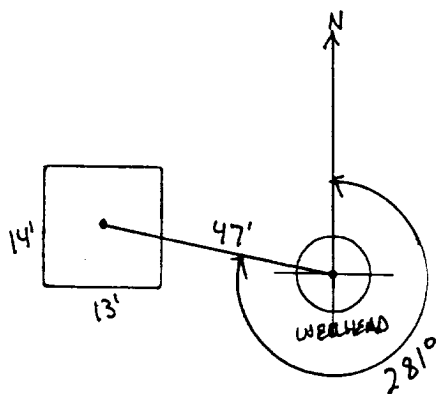
Remarks : REDUNE & TOPO SHOW LOCATION INSIDE V.Z. TWO PITS ON LOCATION - ONE BELONGS TO THE OPERATOR. WILL CLOSE SPONG'S DEHY PIT. DEHY IS STILL NEXT TO PIT.

DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 281° Footage from Wellhead 47'
b) Length : 14' Width : 13' Depth : 1'



REMARKS

Remarks :

PHOTOS - 1039

Completed By:

Robert Thompson

Signature

12-13-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>73567</u> Location: <u>JULAN DER GAS Com #1</u> Coordinates: Letter: <u>J</u> Section <u>10</u> Township: <u>29</u> Range: <u>11</u> Or Latitude _____ Longitude _____ Date Started : <u>12-21-94</u> Run: <u>02</u> <u>33</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KP 366</u> Sample Depth: <u>12'</u> Feet Final PID Reading _____ PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation Onsite Bioremediation Backfill Pit Without Excavation ☒ Approx. Cubic Yards <u>50</u> ☐ ☐ Soil Disposition: Envirotech ☐ Other Facility ☐ ☒ Tierra Name: _____ Pit Closure Date: _____ Pit Closed By: <u>B.E.I</u>
REMARKS	Remarks : <u>No Lids markers. STArTed Digging To 12' soil is</u> <u>gray Looking with A smell At 12' soil Turned light gray still with A odor.</u>
	Signature of Specialist: <u>Kelly Padilla</u>



0111

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 366	Kyle 12/28/94 946542
MTR CODE SITE NAME:	73567	N/A
SAMPLE DATE TIME (Hrs):	12-21-94	1800
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	12-28-94	12-28-94
DATE OF BTEX EXT. ANAL.:	12/23/94	12/24/94, 01/05/95
TYPE DESCRIPTION:	VL	Gray coarse sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	21.5	MG/KG	0.4065		2.46	20	
TOLUENE	466	MG/KG	1.62602				
ETHYL BENZENE	83.8	MG/KG	0.4065				
TOTAL XYLENES	2580.182114 1090	MG/KG	0.4065 2.716				
TOTAL BTEX	1,660	MG/KG					
TPH (418.1)	7590	MG/KG			0.33	28	
HEADSPACE PID	301	PPM					Surrogate %
PERCENT SOLIDS	92.6	%					Dilution Factor

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

The Surrogate Recovery was at 137.6% for this samp All QA/QC was acceptable.

Narrative: BFB correlated

DF = Dilution Factor Used

Approved By:

Date:

3-20-95

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

Perkin-Elmer Model 1600 FT-IR
Analysis Report

* 94/12/28 12:20 *

* Sample identification

* 946542

* Initial mass of sample, g

* 0.330

* Volume of sample after extraction, ml

* 28.000

* Petroleum hydrocarbons, ppm

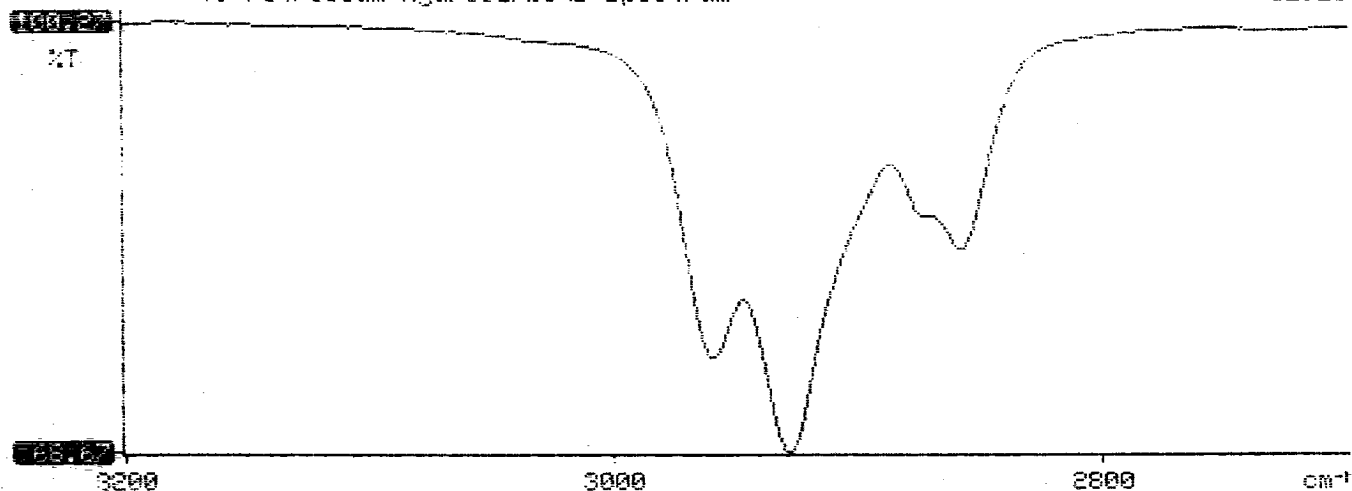
* 7592.480

* Net absorbance of hydrocarbons (2930 cm⁻¹)

* 0.163

V: Petroleum hydrocarbons spectrum

12:20



BTEX SOIL SAMPLE WORKSHEET

File	:	946542A	Date Printed	:	12/29/94
Soil Mass (g)	:	2.46	Multiplier (L/g)	:	0.00203
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.40650

			Det. Limit
Benzene (ug/L)	:	52.98	
Benzene (mg/Kg):		21.537	2.033
Toluene (ug/L)	:	817.62	
Toluene (mg/Kg):		332.366	2.033
Ethylbenzene (ug/L)	:	206.06	
Ethylbenzene (mg/Kg):		83.764	2.033
p & m-xylene (ug/L)	:	895.06	
p & m-xylene (mg/Kg):		363.846	4.065
o-xylene (ug/L)	:	539.02	
o-xylene (mg/Kg):		219.114	2.033
Total xylenes (mg/Kg):		582.959	6.098
Total BTEX (mg/Kg):		#####	

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946542A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946542, 2.46g/100uL
 Acquired : Dec 29, 1994 00:14:18
 Printed : Dec 29, 1994 00:40:34
 User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.247	7047771	139592.09375	52.9814
a,a,a TFT	12.607	4202847	6372.49561	570.0944
TOLUENE	15.163	109120584	169100.54688	817.6165
ETHYLBENZENE	19.433	24306238	129068.31250	206.0583
M & P XYLENE	19.630	118837384	178734.17188	895.0557
O XYLENE	20.220	59380708	127976.28906	539.0225
BFB	20.803	46524568	332900.28125	197.8698

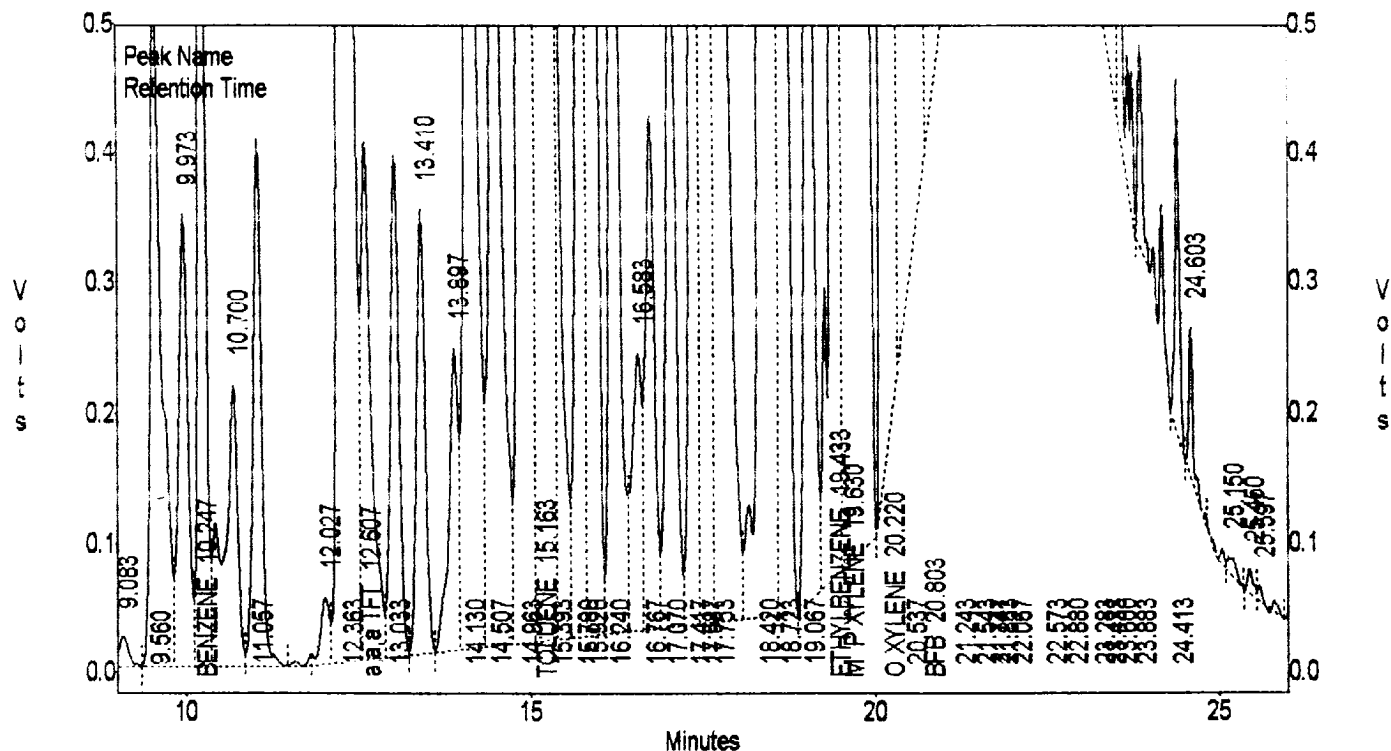
(e) short @
25 uL

Totals :

369420096

3278.6985

C:\LABQUEST\CHROM\946542A - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946542A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946542.2.46g/100uL
 Acquired : Dec 29, 1994 00:14:18
 Printed : Dec 29, 1994 00:40:41
 User : Tony

Channel B Results

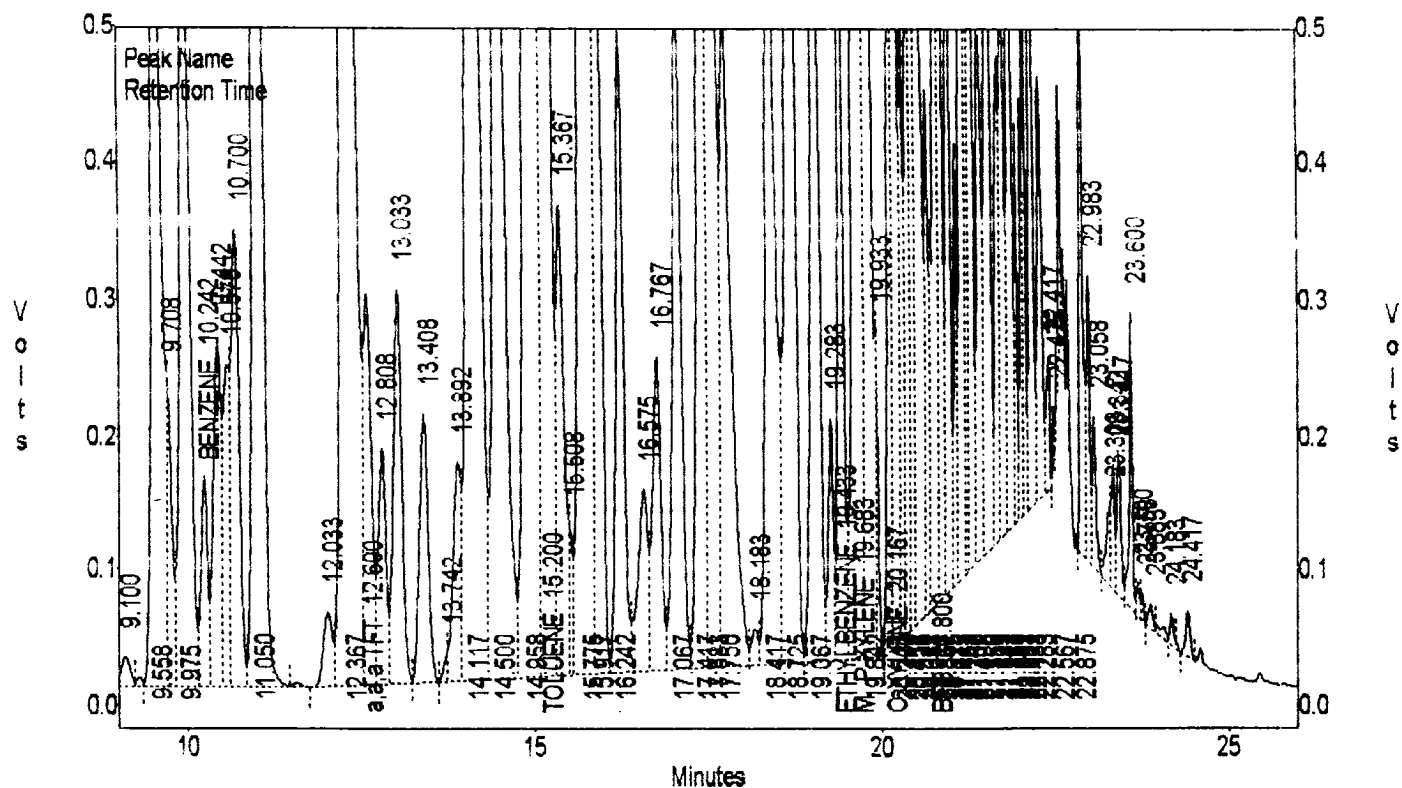
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.242	1037599	20735.91406	51.1855
a,a,a TFT	12.600	2304846	1914.54138	1142.6748
TOLUENE	15.200	21373504	21257.20508	1064.8040
ETHYLBENZENE	19.433	3908867	19772.41406	204.0975
M & P XYLENE	19.683	34358208	20137.20898	1733.7935
O XYLENE	20.167	3509172	19526.79688	185.6524
BFB	20.800	6290917	25983.21484	239.1200

Totals :

72783112

4621.3271

C:\LABQUEST\CHROM\946542A - Channel B



BTEX SOIL SAMPLE WORKSHEET

File	:	946542B	Date Printed	:	1/4/95
Soil Mass (g)	:	2.46	Multiplier (L/g)	:	0.00203
Extraction vol. (mL)	:	20	DF (Analytical)	:	800
Shot Volume (uL)	:	25	DF (Report)	:	1.62602

			Det. Limit
Benzene (ug/L)	:	13.47	
Toluene (ug/L)	:	286.64	
Ethylbenzene (ug/L)	:	56.45	
p & m-xylene (ug/L)	:	467.94	
o-xylene (ug/L)	:	158.92	
Benzene (mg/Kg):		21.902	8.130
Toluene (mg/Kg):		466.081	8.130
Ethylbenzene (mg/Kg):		91.789	8.130
p & m-xylene (mg/Kg):		760.878	16.260
o-xylene (mg/Kg):		258.407	8.130
Total xylenes (mg/Kg):		1019	24.390
Total BTEX (mg/Kg):		1599	

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946542B
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946542,2.46g/25uL
 Acquired : Jan 03, 1995 18:24:35
 Printed : Jan 04, 1995 09:03:28
 User : Tony

Channel A Results

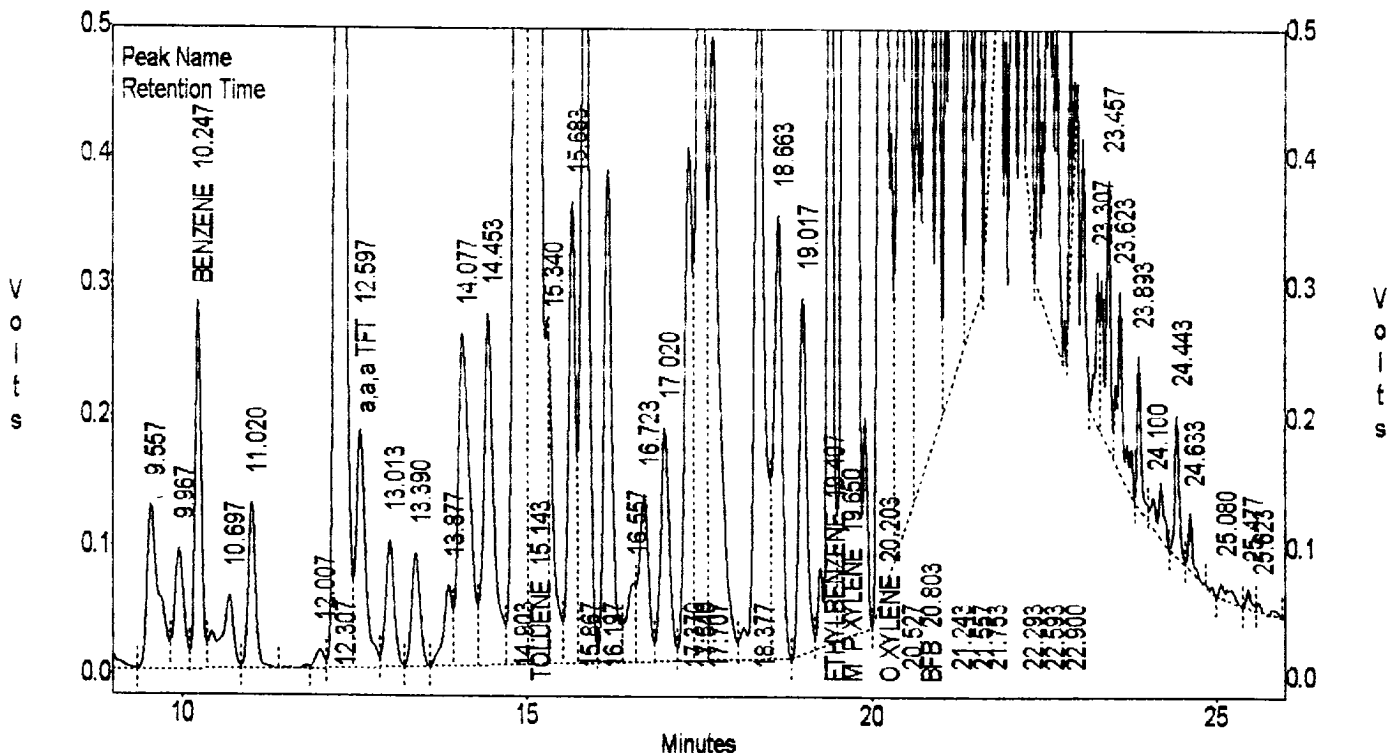
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.247	1791322	139592.09375	13.4662
a,a,a TFT	12.597	1726375	6372.49561	234.1738
TOLUENE	15.143	38255064	169100.54688	286.6368
ETHYLBENZENE	19.407	6658381	129068.31250	56.4470
M & P XYLENE	19.650	62129076	178734.17188	467.9418
O XYLENE	20.203	17506834	127976.28906	158.9165
BFB	20.803	32350720	232900.28125	137.5882

Totals :

160417760

1355.1703

C:\LABQUEST\CHROM\946542B - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946542B
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946542,2.46g/25uL
 Acquired : Jan 03, 1995 18:24:35
 Printed : Jan 04, 1995 09:03:38
 User : Tony

Channel B Results

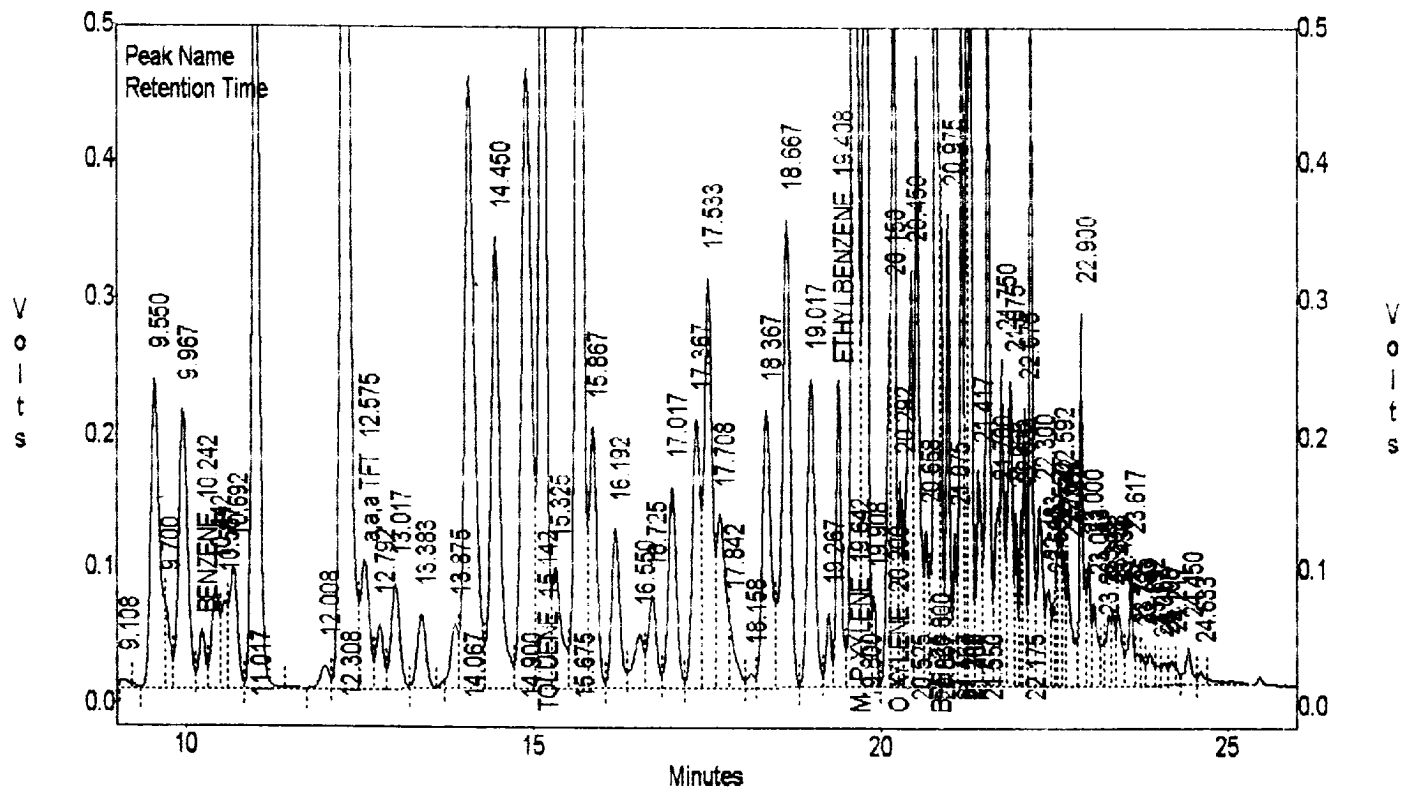
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.242	284045	20735.91406	14.0121
a,a,a TFT	12.575	836652	1914.54138	414.7878
TOLUENE	15.142	6016201	21257.20508	299.7204
ETHYLBENZENE	19.408	1117615	19772.41406	58.3551
M & P XYLENE	19.642	9549592	20137.20898	481.8942
O XYLENE	20.200	2470409	19526.79688	130.6967
BFB	20.800	4503807	25983.21484	171.1913

Totals :

24778324

1570.6575

C:\LABQUEST\CHROM\946542B -- Channel B



BTEX SOIL SAMPLE WORKSHEET

File	:	946542C	Date Printed	:	1/5/95
Soil Mass (g)	:	2.46	Multiplier (L/g)	:	0.00203
Extraction vol. (mL)	:	20	DF (Analytical)	:	1333.33
Shot Volume (uL)	:	15	DF (Report)	:	2.71003

			Det. Limit
Benzene (ug/L)	:	8.85	Benzene (mg/Kg): 23.984 13.550
Toluene (ug/L)	:	177.76	Toluene (mg/Kg): 481.734 13.550
Ethylbenzene (ug/L)	:	34.46	Ethylbenzene (mg/Kg): 93.388 13.550
p & m-xylene (ug/L)	:	305.98	p & m-xylene (mg/Kg): 829.214 27.100
o-xylene (ug/L)	:	96.98	o-xylene (mg/Kg): 262.818 13.550
			Total xylenes (mg/Kg): 1092 40.650
			Total BTEX (mg/Kg): 1691

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946542C
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946542,2.46g/15uL
 Acquired : Jan 04, 1995 15:46:20
 Printed : Jan 04, 1995 16:12:36
 User : Tony

Channel A Results

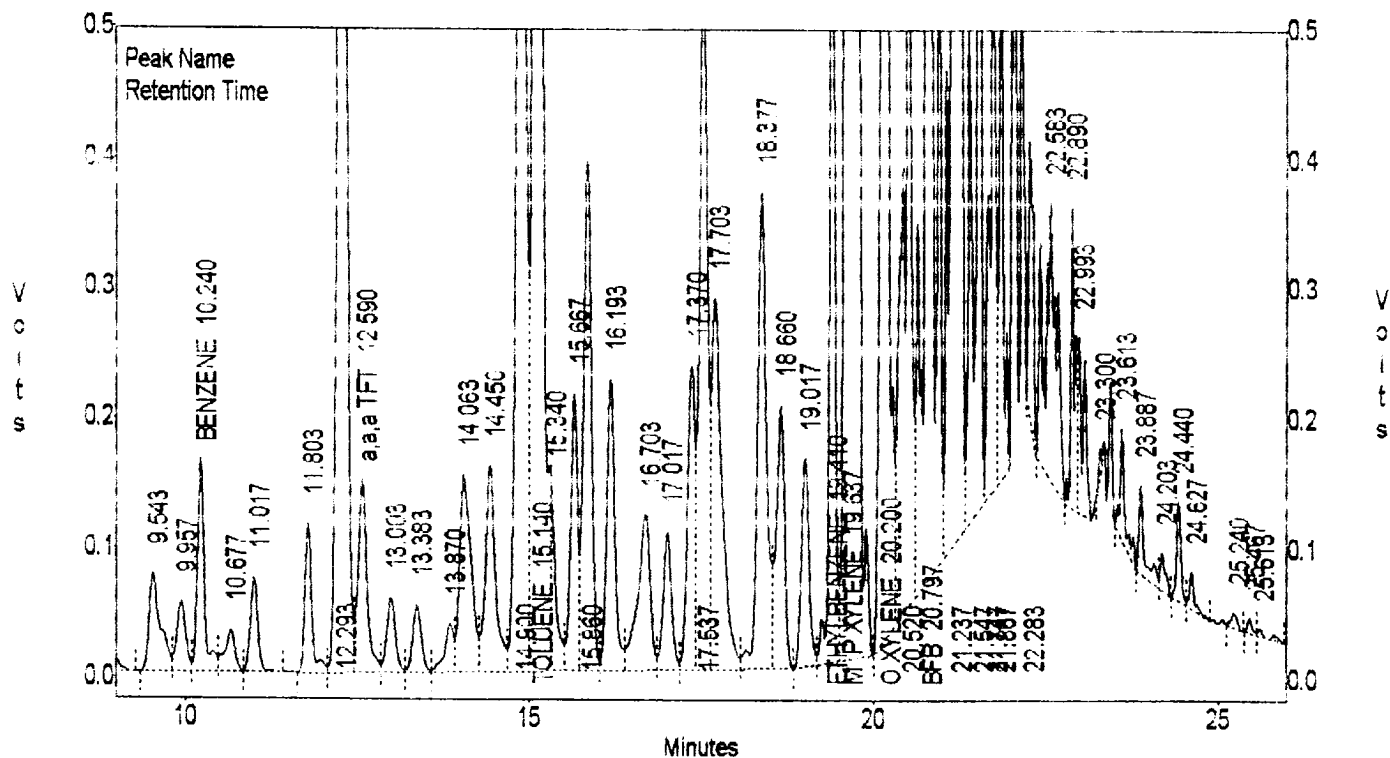
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.240	1177738	139592.09375	8.8536
a,a,a TFT	12.590	1326398	6372.49561	179.9190
TOLUENE	15.140	23724244	169100.54688	177.7605
ETHYLBENZENE	19.410	4064494	129068.31250	34.4571
M & P XYLENE	19.637	40624836	178734.17188	305.9769
O XYLENE	20.200	10683136	127976.28906	96.9751
BFB	20.797	29024660	232900.28125	123.4424

Totals :

110625504

927.3846

C:\LABQUEST\CHROM\946542C - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946542C
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946542.2.46g/15uL
 Acquired : Jan 04, 1995 15:46:20
 Printed : Jan 04, 1995 16:12:43
 User : Tony

Channel B Results

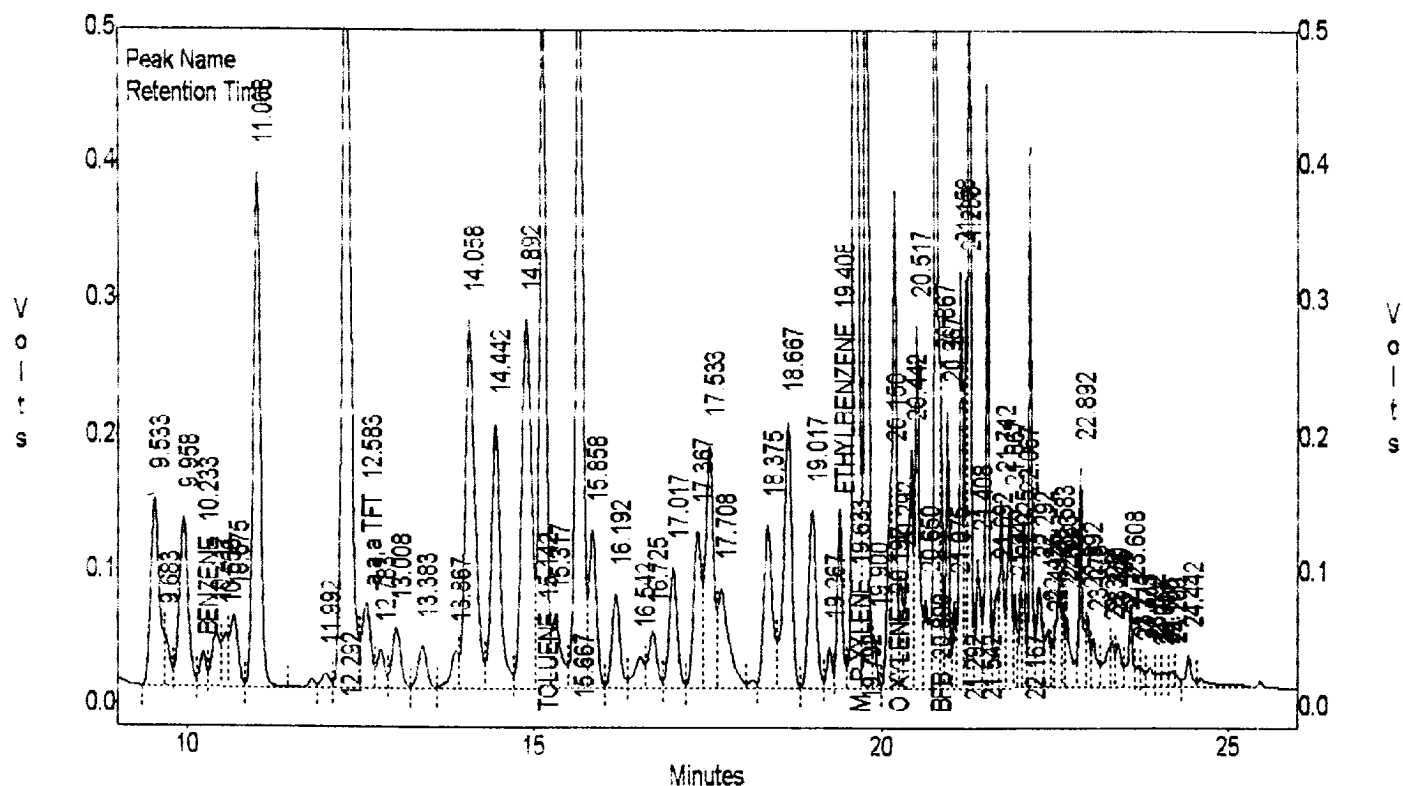
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.233	165700	20735.91406	8.1741
a,a,a TFT	12.583	563818	1914.54138	279.5245
TOLUENE	15.142	3519496	21257.20508	175.3374
ETHYLBENZENE	19.408	652366	19772.41406	34.0626
M & P XYLENE	19.533	5770547	20137.20898	291.1949
O XYLENE	20.192	1388054	19526.79688	73.4349
BFB	20.800	3822696	25983.21484	145.3020

Totals :

15382679

1007.0305

C:\LABQUEST\CHROM\946542C - Channel B



PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

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

Borehole # BH-1

Well #

Page 1 of 1

Project Name

EPNG PITS

Project Number

14509

Phase

6000 77

Project Location

Julador Gas Com #1 73567

Elevation

Borehole Location QJ-SID-T29-R11

GWL Depth

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 10/27/95-1005

Date/Time Completed 10/27/95-1147

Well Logged By

CM Chance

Personnel On-Site

K Padilla, T. Flores

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			Drilling Conditions & Blow Counts
							BZ	BH	HS	
0				Backfill to 12'						
5										
10										
15	1	15-17	12	lt gray SAND, vf-f, tr med sand, loose, sl moist, odor			0	180	471 892	1009 hr
20	2	20-22	12	DK gray CLAY, tr vf sand, v. soft, med plastic, dry, odor			0	257	996 777	1015
25	3	25-27	12	Br SAND, vf-f sand, tr med, v. loose, sl moist, odor			0	200	659 939	1021
30	4	30-32	6	Blk Sandy CLAY, tr vf sand, soft, high plastic, dry, odor			0	322	42 54	1029
35	5	35-37	10	Br CLAY, med stiff, high plastic, tr evaporite fillings			0	80	17 22	1037
40				TDB 37'						

Comments:

CMC 167 (35-37') sent to lab (BTEX, TPH). BH grouted to surface. Sample bagged & iced prior to containerizing.

Geologist Signature

CM Chance



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC 1107	947702
MTR CODE SITE NAME:	73567	Julander Gas Com #1
SAMPLE DATE TIME (Hrs):	10/27/95	1037
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	10/31/95	0
DATE OF BTEX EXT. ANAL.:	10/31/95	10/31/95
TYPE DESCRIPTION:	1/G	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)	< 10	MG/KG			2.05	25
HEADSPACE PID	22	PPM				
PERCENT SOLIDS	87.7	%				

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

The Surrogate Recovery was at
Narrative:

98%

for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Approved By:

Date:

11/1/95

BTEX SOIL SAMPLE WORKSHEET

File : 947702
Soil Mass (g) : 5.01
Extraction vol. (mL) : 10
Shot Volume (uL) : 50

Date Printed : 11/1/95
Multiplier (L/g) : 0.00100
CAL FACTOR (Analytical): 200
CAL FACTOR (Report): 0.19960

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) :	0.15	Benzene (mg/Kg):	0.030	0.499
Toluene (ug/L) :	0.29	Toluene (mg/Kg):	0.058	0.499
Ethylbenzene (ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000	0.499
p & m-xylene (ug/L) :	0.29	p & m-xylene (mg/Kg):	0.058	0.998
o-xylene (ug/L) :	0.00	o-xylene (mg/Kg):	0.000	0.499
		Total xylenes (mg/Kg):	0.058	1.497
		Total BTEX (mg/Kg):	0.146	

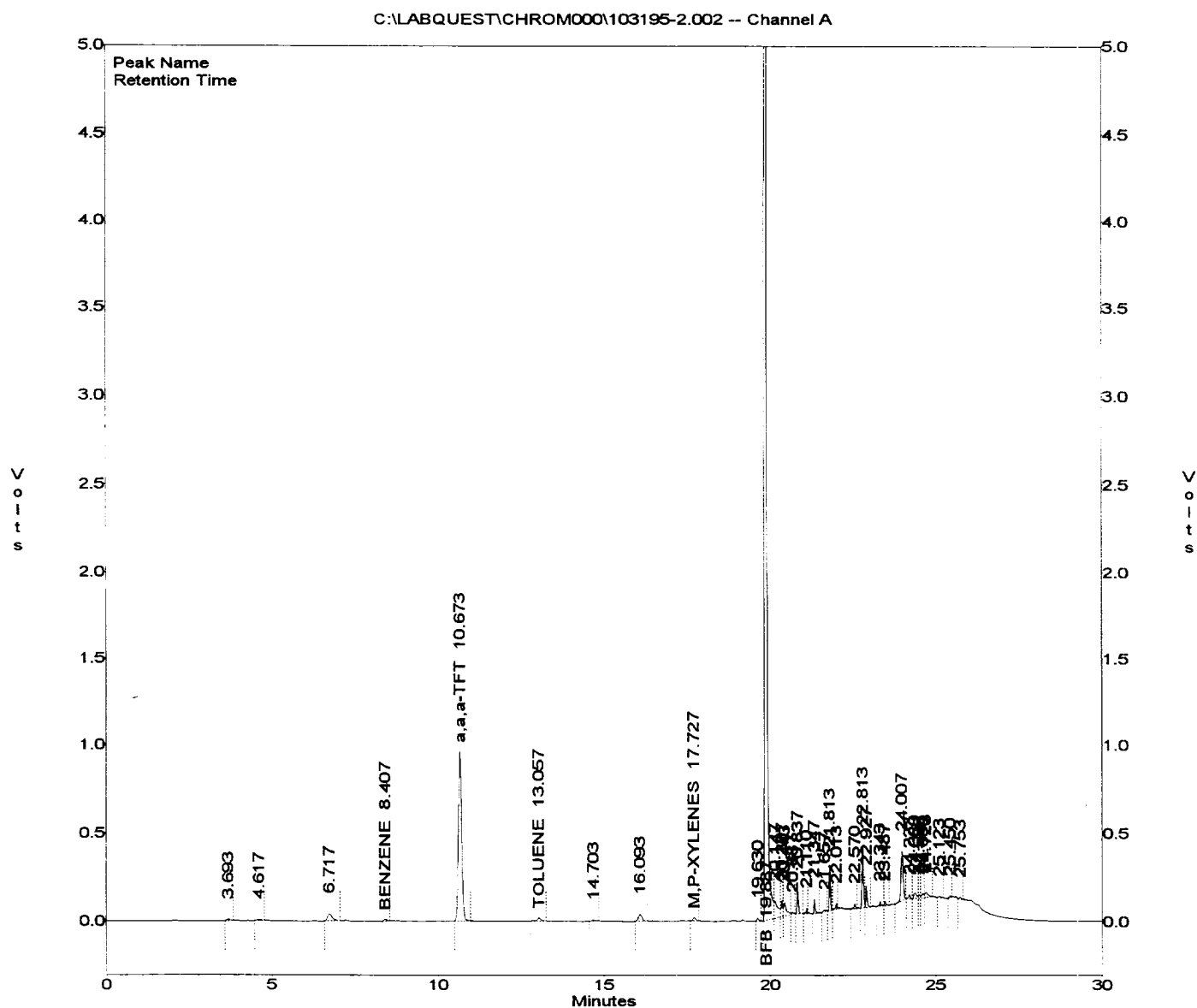
EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\103195-2.002
 Method : C:\LABQUEST\METHODS\10-103095.MET
 Sample ID : 947702,5.01G,50U
 Acquired : Oct 29, 1995 18:10:04
 Printed : Oct 29, 1995 18:40:27
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.407	63829	0.1523
a,a,a-TFT	10.673	6780306	97.8733
TOLUENE	13.057	143301	0.2891
ETHYLBENZENE	17.320	0	0.0000
M,P-XYLENES	17.727	115111	0.2897
O-XYLENE	18.857	0	0.0000
BFB	19.887	45222764	97.7916



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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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```

* 95/10/31 14:44
*
* Sample identification
* 947702
*
* Initial mass of sample, g
* 2.050
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* -13.360
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.009
*

```

