

9K
DENVER
EL PASO FIELD SERVICES
DEPUTY OIL & GAS INSPECTOR
PRODUCTION PIT CLOSURE

DEC 21 1994

FEDERAL #10E
Meter/Line ID - 93420

SITE DETAILS

Legals - Twn: 29

Rng: 11

Sec: 01

Unit: G

NMOCD Hazard Ranking: 20

Land Type: 2 - Federal

Operator: CONOCO - MESA OPERATING L

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.
- 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: 93420 Location: FEDERAL #10E
 Operator #: _____ Operator Name: CONOCO P/L District: KUTZ
 Coordinates: Letter: 6 Section: 12 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

Outside

Land Type:

BLM

State

Fee

Indian

☒ (1)

☐ (2)

☐ (3)

☒ (1)

☐ (2)

Depth to Groundwater

Less Than 50 Feet (20 points)

50 Ft to 99 Ft (10 points)

Greater Than 100 Ft (0 points)

☐ (1)

☒ (2)

☐ (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)

200 Ft to 1000 Ft (10 points)

Greater Than 1000 Ft (0 points)

☐ (1)

☒ (2)

☐ (3)

Name of Surface Water Body WARE 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: 20 POINTS

REMARKS

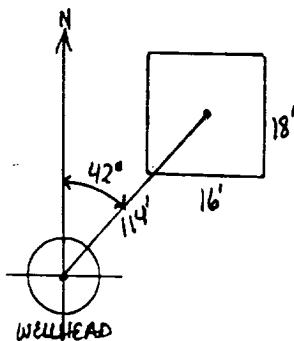
Remarks : REDLINE E, TOPO SHOW LOCATION INSIDE U.Z. TWO PITS ON LOCATION - ONE BELONGS TO OPERATOR. WILL CLOSE EPNG'S DEHY PIT.

DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 42° Footage from Wellhead 114'
b) Length : 18' Width : 16' Depth : 2'



REMARKS

Remarks :

PHOTOS - 1011

Completed By:

Pete Thompson
Signature

12-13-94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>93420</u> Location: <u>Federal # 10E</u></p> <p>Coordinates: Letter: <u>G</u> Section <u>1</u> Township: <u>29</u> Range: <u>11</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12-21-94</u> Run: <u>02</u> <u>33</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>367</u></p> <p>Sample Depth: <u>3'</u> Feet</p> <p>Final PID Reading <u>627</u> PID Reading Depth <u>3'</u> Feet</p> <p>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>20</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 type="checkbox"/> Tierra <input checked="" type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>12-21-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>No LINE markers. started Remediting to 12' Hit</u></p> <p><u>SAND STON. AT 3' closed Pit.</u></p>
	<p>Signature of Specialist: <u>Kelly Pedilla</u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 367	9416543
MTR CODE SITE NAME:	93420	N/A
SAMPLE DATE TIME (Hrs):	12-21-94	1145
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	12-28-94	12-28-94
DATE OF BTEX EXT. ANAL.:	12/28/94	12/29/94
TYPE DESCRIPTION:	VL	light gray sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	7.54	MG/KG	0.40816		2.45	20	
TOLUENE	127	MG/KG					
ETHYL BENZENE	12.8	MG/KG					
TOTAL XYLENES	148 16.3 5/31/95	MG/KG					
TOTAL BTEX	164 16.4 5/31/95	MG/KG					
TPH (418.1)	2830	MG/KG			1.96	28	
HEADSPACE PID	627	PPM					Surrogate %
PERCENT SOLIDS	86.6	%					Dilution Factor

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

The Surrogate Recovery was at 143.1% for this samp All QA/QC was acceptable.

Narrative: BFB co-eluted

DF = Dilution Factor Used

Approved By:

Date: 3-20-95

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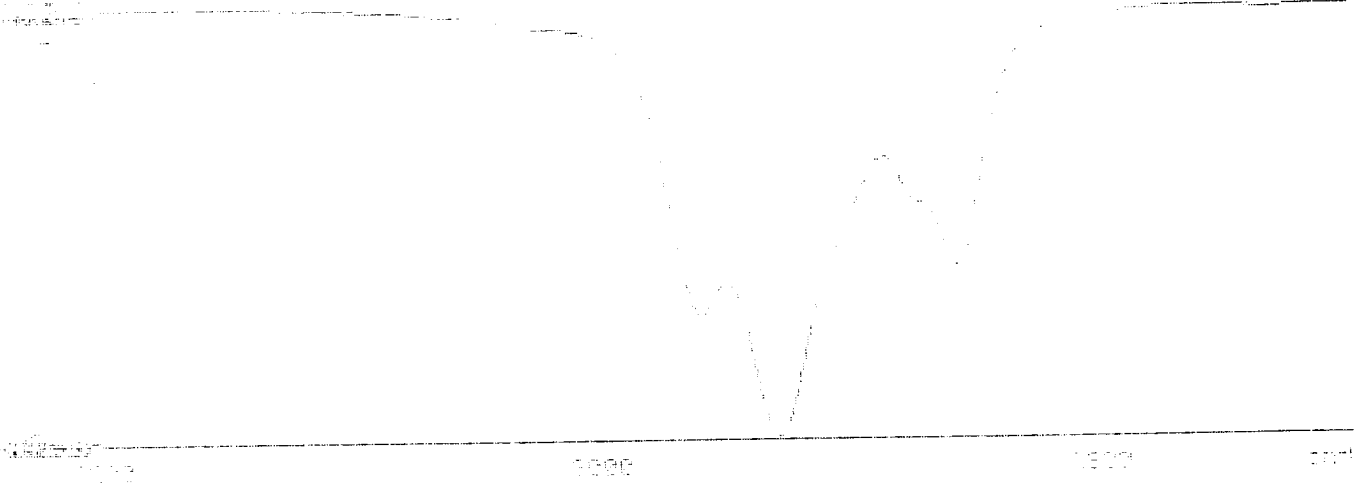
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BTEX SOIL SAMPLE WORKSHEET

File	:	946543	Date Printed	:	5/3/95
Soil Mass (g)	:	2.45	Multiplier (L/g)	:	0.00204
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.40816

			Det. Limit
Benzene (ug/L)	:	18.47	Benzene (mg/Kg): 7.539 2.041
Toluene (ug/L)	:	310.99	Toluene (mg/Kg): 126.935 2.041
Ethylbenzene (ug/L)	:	31.38	Ethylbenzene (mg/Kg): 12.808 2.041
p & m-xylene (ug/L)	:	363.00	p & m-xylene (mg/Kg): 148.163 4.082
o-xylene (ug/L)	:	119.00	o-xylene (mg/Kg): 48.571 2.041
			Total xylenes (mg/Kg): 196.735 6.122
			Total BTEX (mg/Kg): 344.016

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

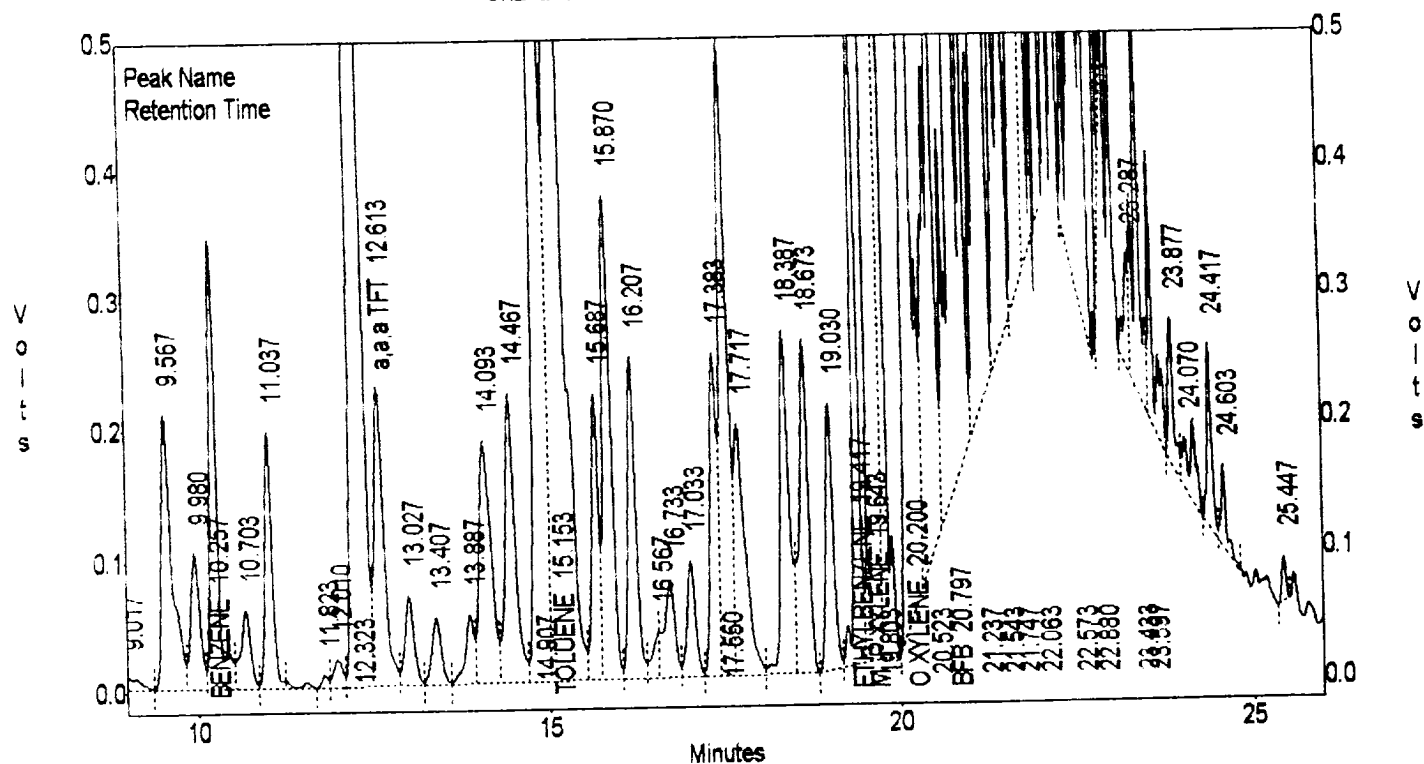
File : C:\LABQUEST\CHROM\946543A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946543,2.45g/100uL
 Acquired : Dec 29, 1994 01:34:21
 Printed : Dec 29, 1994 02:00:35
 User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.257	2456377	139592.09375	18.4658
a,a,a TFT	12.613	2183414	6372.49561	296.1688
TOLUENE	15.153	41505764	169100.54688	310.9936
ETHYLBENZENE	19.417	3701240	129068.31250	31.3776
M & P XYLENE	19.643	48236712	178734.17188	363.3077
O XYLENE	20.200	13103328	127976.28906	118.9442
BFB	20.797	33644864	232900.28125	143.0922

Totals : 144831696 1282.3497

C:\LABQUEST\CHROM\946543A - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

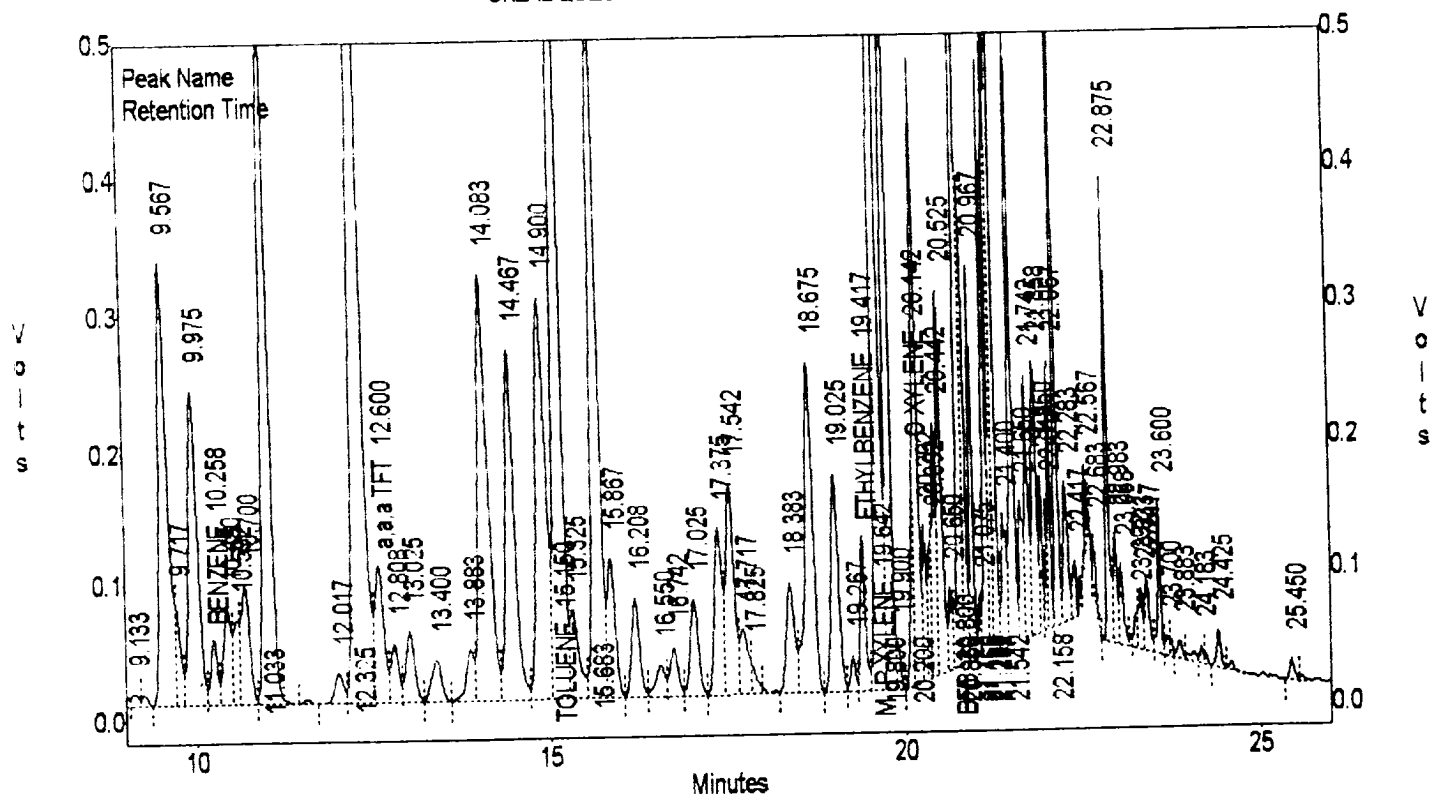
File : C:\LABQUEST\CHROM\946543A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946543.2.45g/100uL
 Acquired : Dec 29, 1994 01:34:21
 Printed : Dec 29, 1994 02:00:42
 User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.258	327745	20735.91406	16.1679
a,a,a TFT	12.600	898671	1914.54138	445.5346
TOLUENE	15.150	6145733	21257.20508	306.1735
ETHYLBENZENE	19.417	552992	19772.41406	28.8739
M & P XYLENE	19.642	7338573	20137.20898	370.3211
O XYLENE	20.142	478141	19526.79688	25.2960
BFB	20.800	4295493	25983.21484	163.2732

Totals : 20037350 1055.6403

C:\LABQUEST\CHROM\946543A - Channel B



PHASE II

RECORD OF SUBSURFACE EXPLORATION

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

PHILIP ENVIRONMENTAL

4300 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 #1 DE 93420

Elevation _____
Borehole Location OG-S1-T29-R11
GWL Depth _____
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 10/30/95-1123
Date/Time Completed 10/30/95-1230

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, P. Charls
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 3'						
5										
10	1	10-11	10	Lt gray silty SAND, v-f, + med sand, dense, to cementation, dry TOB 11'			0	106	10/4	113/h
15										
20										
25										
30										
35										
40										

Comments: CMC 170 (10-11') sent to lab (BTEX TOH). BH grouted to surface
Sample bagged & tied 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:	CUC170	947707
MTR CODE SITE NAME:	93420	Federal #10E
SAMPLE DATE TIME (Hrs):	10-30-95	1131
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	10/31/95	
DATE OF BTEX EXT. ANAL.:	10/31/95	10/31/95
TYPE DESCRIPTION:	V6	Grey Sand & Sandstone

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			2.30	28
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	90.0	%				

-- 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: [Signature]

Date: 11/1/95

BTEX SOIL SAMPLE WORKSHEET

File	:	947707	Date Printed	:	11/1/95
Soil Mass (g)	:	5.03	Multiplier (L/g)	:	0.00099
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):		200
Shot Volume (uL)	:	50	CAL FACTOR (Report):		0.19881

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	0.14	Benzene (mg/Kg):	0.028 0.497
Toluene (ug/L)	:	0.69	Toluene (mg/Kg):	0.137 0.497
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.497
p & m-xylene (ug/L)	:	0.27	p & m-xylene (mg/Kg):	0.054 0.994
o-xylene (ug/L)	:	0.13	o-xylene (mg/Kg):	0.026 0.497
			Total xylenes (mg/Kg):	0.080 1.491
			Total BTEX (mg/Kg):	0.245

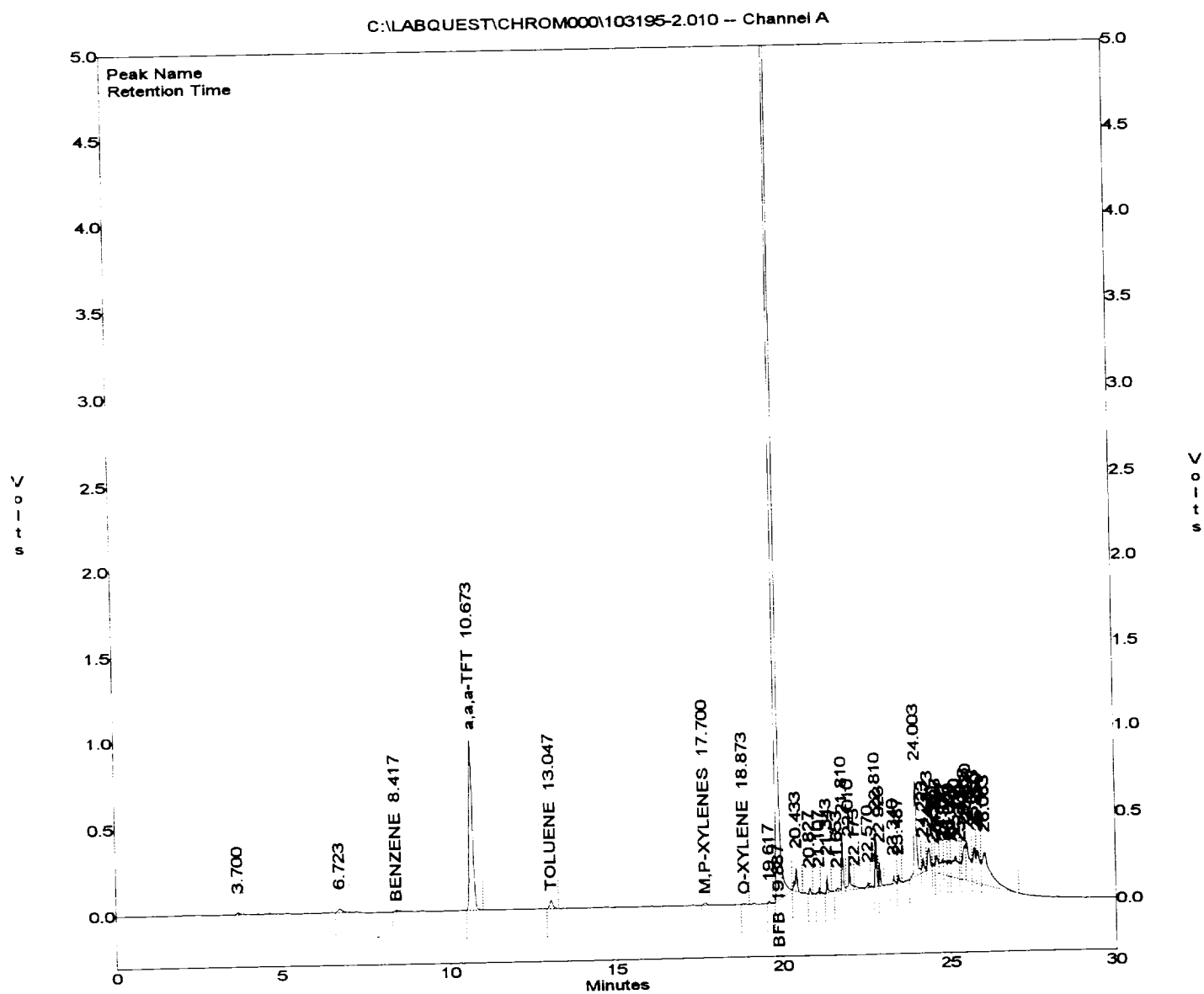
EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\103195-2.010
 Method : C:\LABQUEST\METHODS\0-103095.MET
 Sample ID : 947707,5.03G,50U
 Acquired : Oct 29, 1995 23:44:15
 Printed : Oct 30, 1995 00:14:39
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.417	58025	0.1385
a,a,a-TFT	10.673	6954059	100.3814
TOLUENE	13.047	341631	0.6891
ETHYLBENZENE	17.320	0	0.0000
M,P-XYLENES	17.700	106983	0.2692
O-XYLENE	18.873	45135	0.1320
BFB	19.887	45961804	99.3898



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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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75/10/31 14:59
Sample Identification
#47707
Initial mass of sample, g
2.300
Volume of sample after extraction, ml
25.000
Petroleum hydrocarbons, ppm
9.781
Net absorbance of hydrocarbons (2930 cm-1)
0.012

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