EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

Jennifer Pohl
DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

FEDERAL E#5
Meter/Line ID - 90709

SITE DETAILS

Legals - Twn: 27 **Rng:** 08 **Sec:** 23 **Unit:** J
NMOCD Hazard Ranking: 30 **Land Type:** 2 - Federal
Operator: BLEDSOE PETRO CORP **Pit Closure Date: 01/23/95**

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 wil naturally degrade in time with minimal risk to the environmer

J: 18954\rbc

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 90709 Location: FEDERAL E #5
Operator #: _____ Operator Name: AAA OPERATING P/L District: BLANCO
Coordinates: Letter: J Section 23 Township: 27 Range: 8
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 1·10·95 Area: 13 Run: 31

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)

Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____

Inside ☒ (1) Outside ☐ (2)

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 CAÑON LARGO

(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: 30 POINTS

REMARKS

Remarks : REDLINE & TOPO SHOW LOCATION INSIDE U.Z. ONLY PIT ON LOCATION. BELONGS TO EPNG. PIT LOOKS LIKE IT WAS SHARED BY A DEHY OFF OF THE FEDERAL E #2A. OPERATOR IS BLEDSOE PETRO CORP. WILL CLOSE PIT.

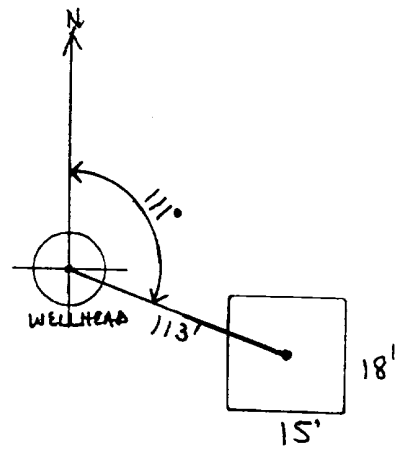
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 111° Footage from Wellhead 113'

b) Length : 18' Width : 15' Depth : 2'



REMARKS

Remarks :

PHOTOS - 1248

Completed By:

Robert Thompson
Signature

1-10-95
Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 90709 Location: Federal E #5

Coordinates: Letter: J Section 23 Township: 27 Range: 8

Or Latitude _____ Longitude _____

Date Started : 1-23-95 Run: 13 31

FIELD OBSERVATIONS

Sample Number(s): mK332 _____ _____ _____

Sample Depth: 5' Feet

Final PID Reading 307 PID Reading Depth 5' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ Approx. Cubic Yards 20
Onsite Bioremediation	☐
Backfill Pit Without Excavation	☐

Soil Disposition:

Envirotech	☐	☒	Tierra
Other Facility	☐	Name:	_____

Pit Closure Date: 1-23-95 Pit Closed By: BE

REMARKS

Remarks : Arrived took Fence down Dug down 4'-5' Hit Sandstone Soil brown strong Hydrocarbone odor

Signature of Specialist: Morgan Killion

(SP3181) 03/16/94

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:	MK 332	946591
MTR CODE | SITE NAME:	90709	N/A
SAMPLE DATE | TIME (Hrs):	1-23-95	1600
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	1-28-95	1-28-95
DATE OF BTEX EXT. | ANAL.:	1/26/95	1/29/95
TYPE | DESCRIPTION:	VL	Brown fine sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
BENZENE	<1.00	MG/KG	0.2000		2.5	20
TOLUENE	41.3	MG/KG				
ETHYL BENZENE	3.44	MG/KG				
TOTAL XYLENES	80.5	MG/KG				
TOTAL BTEX	125	MG/KG				
TPH (418.1)	2310	MG/KG			1.99	28
HEADSPACE PID	307	PPM				
PERCENT SOLIDS	91.8	%				

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

The Surrogate Recovery was at 99.5 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 2-22-95

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

Perkin-Elmer Model 1600 FT-IR
Analysis Report

95/01/20 06:14

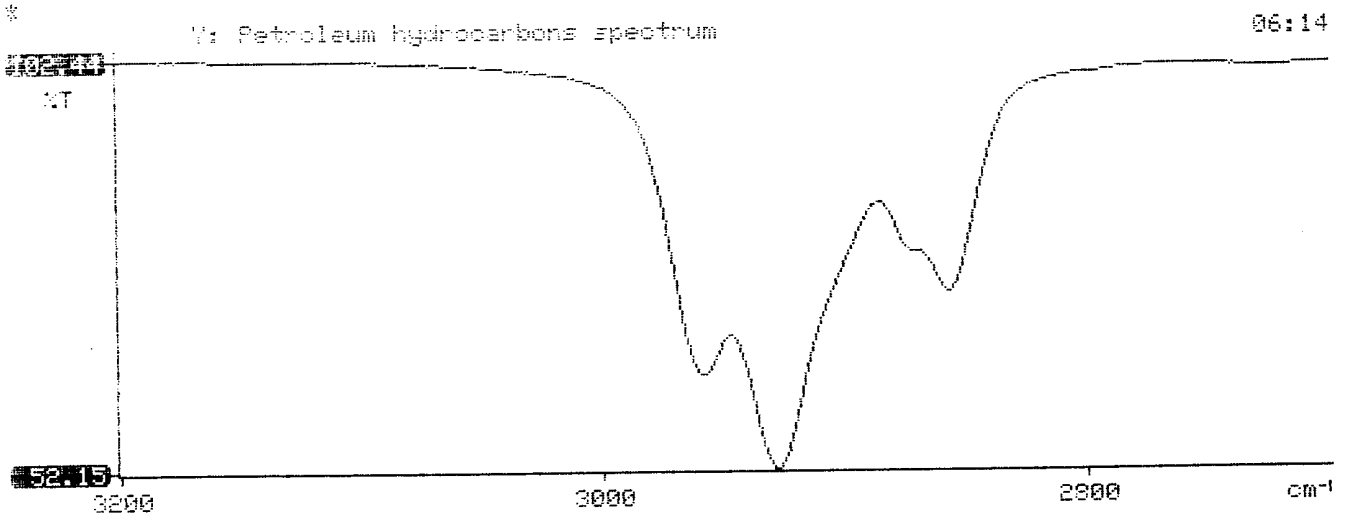
Sample identification
946591

Initial mass of sample, g
1.990

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
2309.699

Net absorbance of hydrocarbons (2930 cm-1)
0.290



BTEX SOIL SAMPLE WORKSHEET

File	946591B	**Date Printed**	1/30/95
Soil Mass (g)	2.5	**Multiplier (L/g)**	0.00200
Extraction vol. (mL)	20	**DF (Analytical)**	100
Shot Volume (uL)	200	**DF (Report)**	0.20000

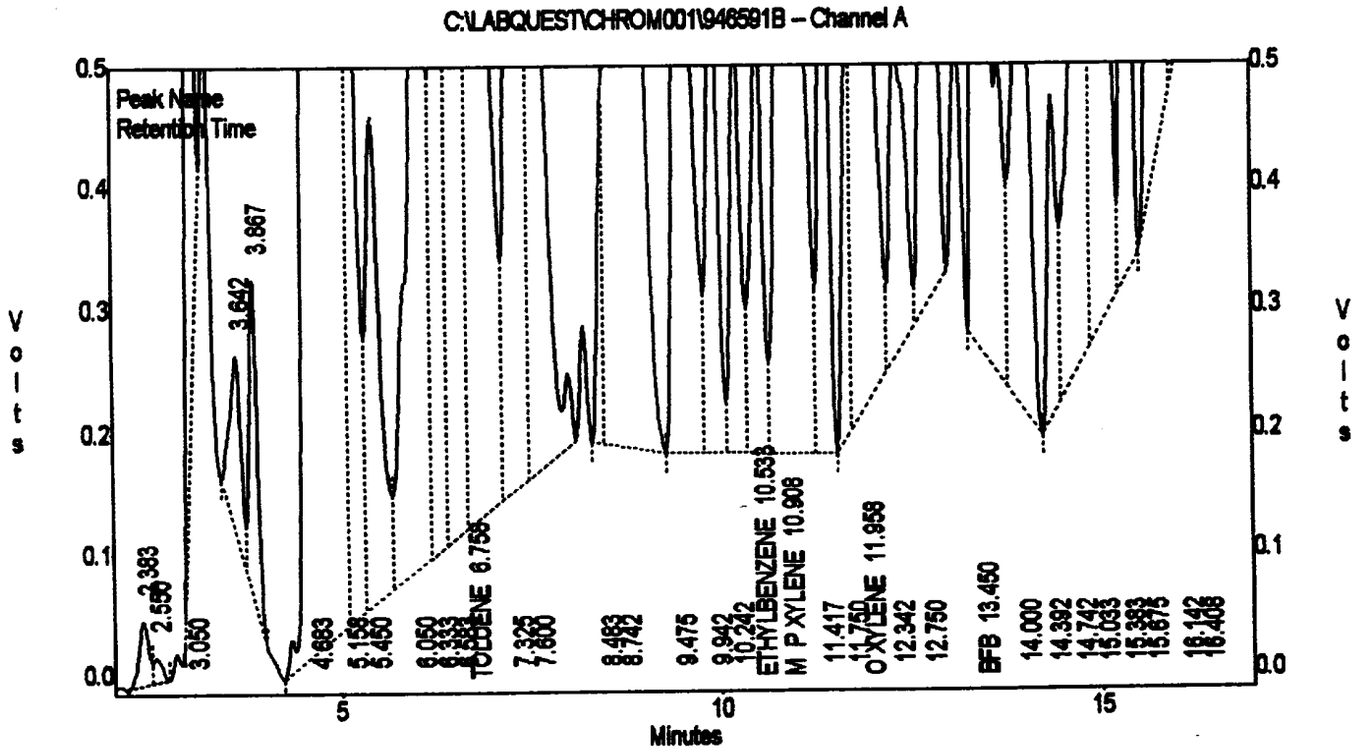
			Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	1.000
Toluene (ug/L)	206.54	**Toluene (mg/Kg):**	**41.308**	1.000
Ethylbenzene (ug/L)	17.22	**Ethylbenzene (mg/Kg):**	**3.444**	1.000
p & m-xylene (ug/L)	315.27	p & m-xylene (mg/Kg):	63.054	2.000
o-xylene (ug/L)	87.23	o-xylene (mg/Kg):	17.446	1.000
		Total xylenes (mg/Kg):	**80.500**	3.000
		Total BTEX (mg/Kg):	**125.252**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946591B
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946591,2.50G/200uL
Acquired : Jan 29, 1995 21:37:17
Printed : Jan 29, 1995 21:54:24
User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.358	0	0.00000	0.0000
a,a,a TFT	4.858	0	0.00000	0.0000
TOLUENE	6.758	51040760	314479.71875	206.5373
ETHYLBENZENE	10.533	3883471	228573.29688	17.2238
M & P XYLENE	10.908	79369336	316768.40625	315.2705
O XYLENE	11.958	19222582	221087.17188	87.2280
BFB	13.450	94908976	944778.31250	99.5276
Totals :		248425120		725.7872

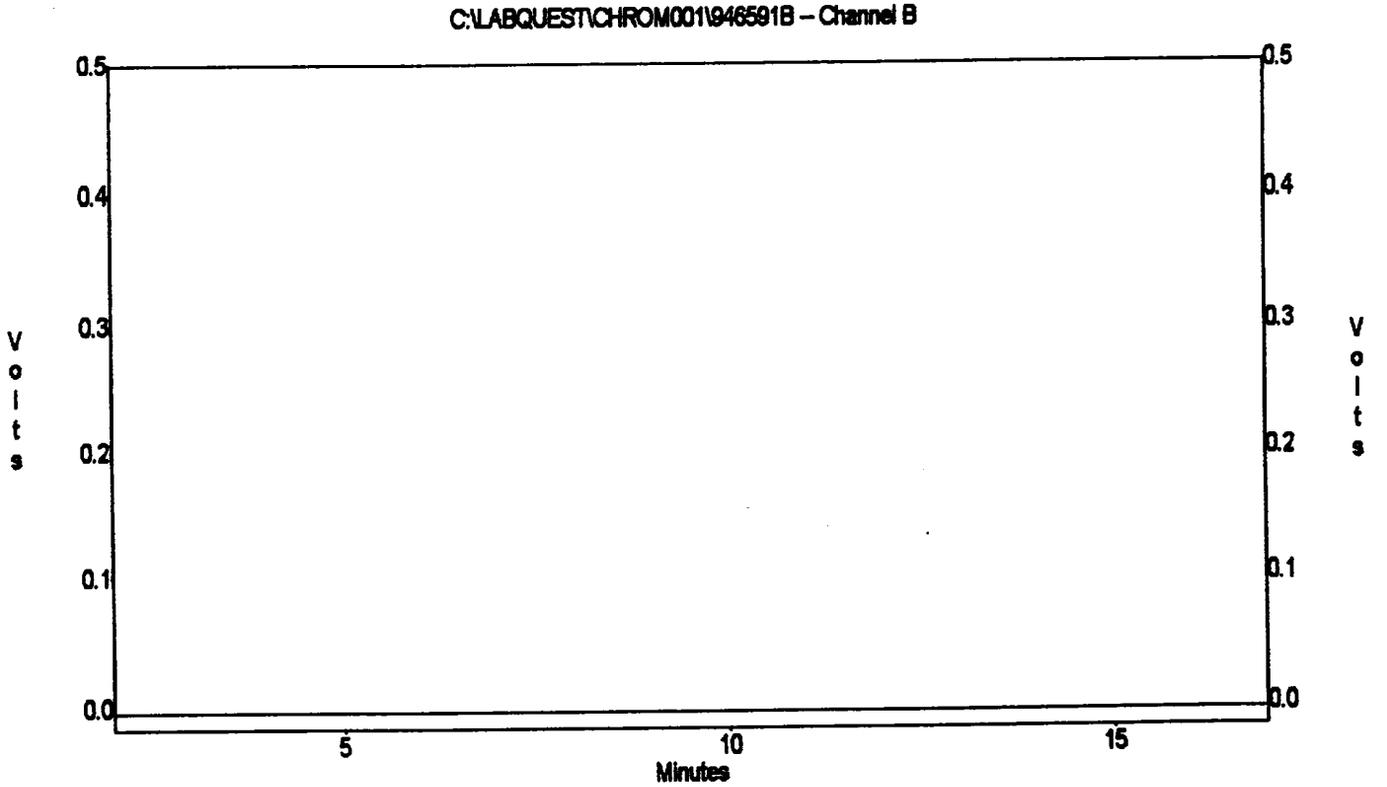


EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946591B
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946591,2.50G/200uL
Acquired : Jan 29, 1995 21:37:17
Printed : Jan 29, 1995 21:54:29
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.367	0	0.00000	0.0000
a,a,a TFT	4.883	0	0.00000	0.0000
TOLUENE	6.700	0	0.00000	0.0000
ETHYLBENZENE	10.480	0	0.00000	0.0000
M & P XYLENE	10.833	0	0.00000	0.0000
O XYLENE	11.900	0	0.00000	0.0000
BFB	13.400	0	0.00000	0.0000
Totals :		0		0.0000



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 Federal E #5 90709

Elevation
Borehole Location QJ-S22-T27-R8
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 8/29/95-1140
Date/Time Completed 8/29/95-1220

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, D. Charlip
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 HS	Drilling Conditions & Blow Counts
0				BackFill to 5'						
5										
10	1	10-12	18"	lt br SAND, vf-f sand, dense, sl moist			0	68	107/60	1149 -hard drlng
15	2	15-17	14"	Gr SILT, dense, tr v. fine sand, dry			0	111	29/20	1200
20				TDB 17'						
25										
30										
35										
40										

Comments: CMC 97(15-17') sent to lab (BTEX, TPH). Sample bagged & iced before being containerized. BH grouted to surface

Geologist Signature Cory C Chance

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:	CMC97	947358
MTR CODE | SITE NAME:	90709	Federal E #5
SAMPLE DATE | TIME (Hrs):	08-29-95	1200
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/30/95	
DATE OF BTEX EXT. | ANAL.:	8/30/95	9/3/95
TYPE | DESCRIPTION:	VG	Gray sand & sand stone

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	702	MG/KG			1.98	28
HEADSPACE PID	20	PPM				
PERCENT SOLIDS	93.5	%				

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

The Surrogate Recovery was at 88% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 9-7-95

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

95/08/30 13:41

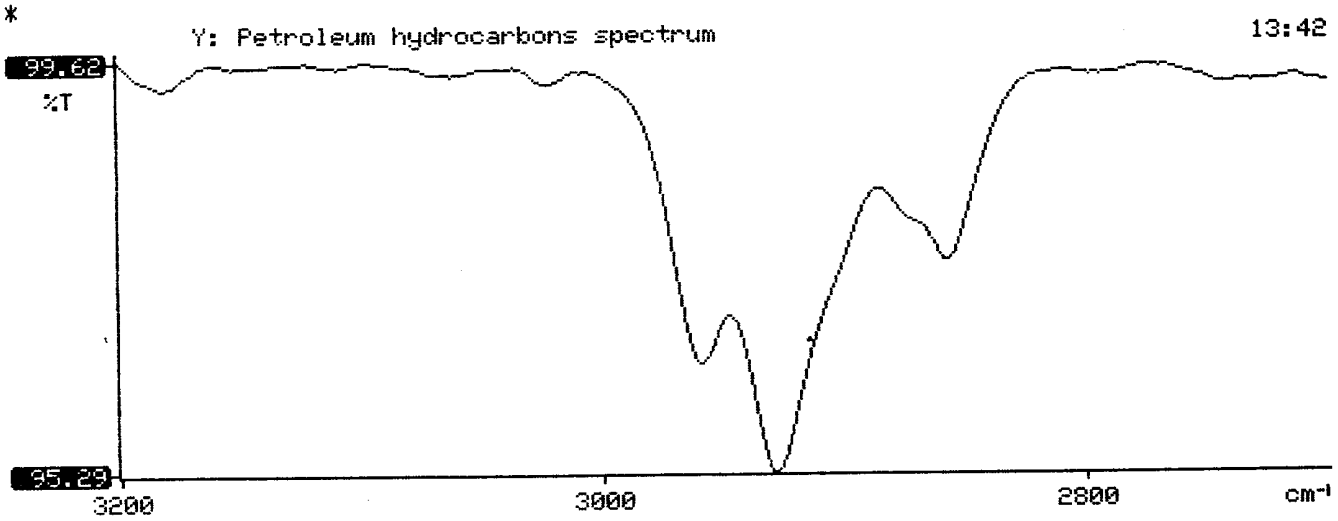
Sample identification
947358

Initial mass of sample, g
1.980

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
70.174

Net absorbance of hydrocarbons (2930 cm-1)
0.019



BTEX SOIL SAMPLE WORKSHEET

File	947358	**Date Printed**	9/6/95
Soil Mass (g)	5.05	**Multiplier (L/g)**	0.00099
Extraction vol. (mL)	20	**DF (Analytical)**	200
Shot Volume (uL)	100	**DF (Report)**	0.19802

				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.495
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.495
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.495
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	0.990
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.495
		Total xylenes (mg/Kg):	**0.000**	1.485
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090395-1.022
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947358,5.05G,100U
Acquired : Sep 03, 1995 03:40:21
Printed : Sep 04, 1995 11:19:08
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.900	1988168	83.5396
TOLUENE	6.733	203158	-0.2462
ETHYLBENZENE	10.520	0	0.0000
M & P XYLENE	10.847	283561	-2.6924
O XYLENE	11.877	0	0.0000
BFB	13.397	31052844	88.4074