Denny Foust

EL PASO FIELD SERVICES
DEPUTY OIL & GAS INSPECTOR PIT CLOSURE

DEC 2 1 1998

RECEIVED
JUL 2 1999
OIL CON. DIV.
DIST. 3

Five of Diamonds #2
Meter/Line ID - 93267

SITE DETAILS

Legals - Twn: 30 **Rng:** 13 **Sec:** 10 **Unit:** K
NMOCD Hazard Ranking: 40 **Land Type:** 2 - Federal
Operator: DUGAN PRODUCTION CORP **Pit Closure Date:** 01/30/95

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 will naturally degrade in time with minimal risk to the environment.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93267 Location: Five of Diamond S #2
Operator #: 1862 Operator Name: Dugan P/L District: KUTZ
Coordinates: Letter: K Section 10 Townsh p: 29 Range: 13
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: ✓ Line Drip: ___ Other: _____
Site Assessment Date: 1/12/95 Area: 02 Run: 31

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 S. Twin Wash (off of La Plata R.)
(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: 40 **POINTS**

REMARKS

Remarks : Redline Book: Inside Vulnerable Zone Topo: Inside
1 pit. Close. Meter TD

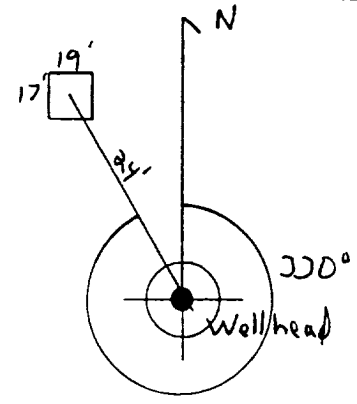
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 330° Footage from Wellhead 24'

b) Length : 19' Width : 17' Depth : 3'



REMARKS

Remarks :

Pictures @ 1409 hr 12-15 roll 1

Completed By:

Cory Chance
Signature

1/12/95
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93267 Location: Five of Diamond 5 #2

Coordinates: Letter: K Section 10 Township: 30 Range: 13

Or Latitude _____ Longitude _____

Date Started : 1-30-95 Run: 02 31

FIELD OBSERVATIONS

Sample Number(s): KP397 KP398 KP399 _____

Sample Depth: 4' Feet

Final PID Reading KP36 062 PID Reading Depth 4' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒	Approx. Cubic Yards 10
Onsite Bioremediation	☐	
Backfill Pit Without Excavation	☐	

Soil Disposition:

Envirotech	☐	☒	Tierra
Other Facility	☐	Name:	_____

Pit Closure Date: 1-30-95 Pit Closed By: B.E.I

REMARKS

Remarks : NO LINE MARKERS. Started Remediating to 12' Hit SAND STONE At 4' SAMPled closed Pit.

Signature of Specialist: Kelly Padilla

(SP3191) 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:	KP 397	94660
MTR CODE | SITE NAME:	93267	N/A
SAMPLE DATE | TIME (Hrs):	1-30-95	1300
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	2/2/95	2/2/95
DATE OF BTEX EXT. | ANAL.:	1/31/95	2/1/95
TYPE | DESCRIPTION:	VC	Dark Gray sand and clay

REMARKS: sample very wet

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
BENZENE	<1.00	MG/KG	0.1960		5.01	20
TOLUENE	<1.00	MG/KG				
ETHYL BENZENE	<1.00	MG/KG				
TOTAL XYLENES	<3.00	MG/KG				
TOTAL BTEX	~~<3.00~~ <6.00 KDK 2/6/95	MG/KG				
TPH (418.1)	235	MG/KG			1.95	28
HEADSPACE PID	62	PPM				
PERCENT SOLIDS	75.0	%				

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

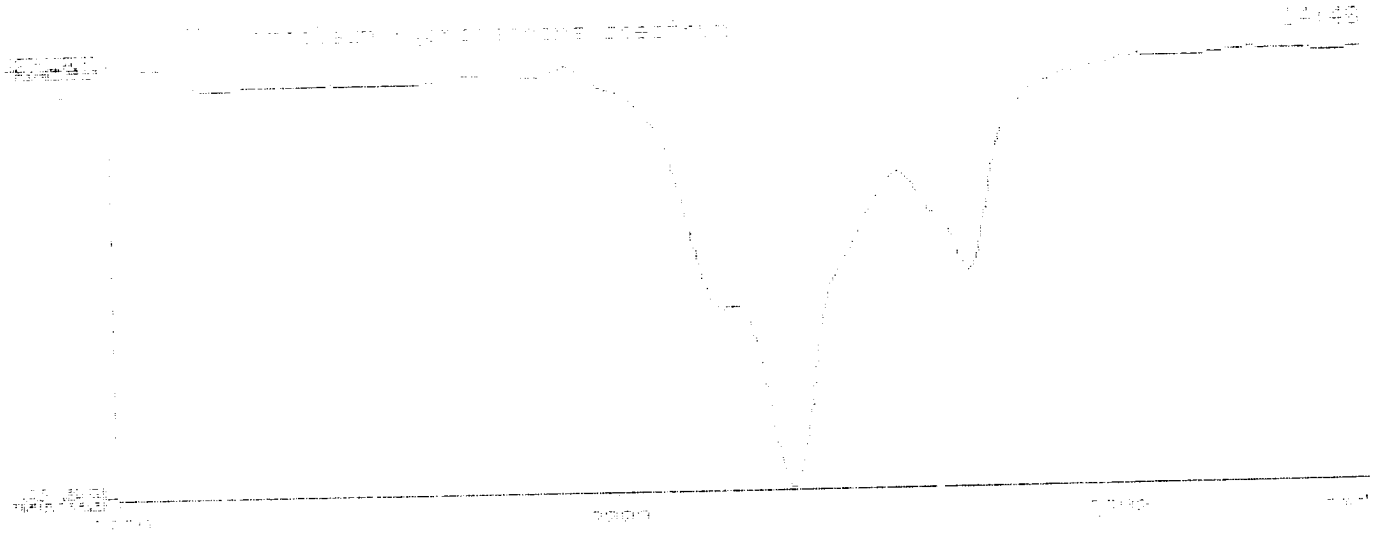
The Surrogate Recovery was at 89.6 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: Df Date: 2-22-95

KDK 2/2/95



BTEX SOIL SAMPLE WORKSHEET

File	: 946610A	**Date Printed**	: 2/2/95		
Soil Mass (g)	: 5.01	**Multiplier (L/g)**	: 0.00100		
Extraction vol. (mL)	: 20	**DF (Analytical)**	: 200		
Shot Volume (uL)	: 100	**DF (Report)**	: 0.19960		

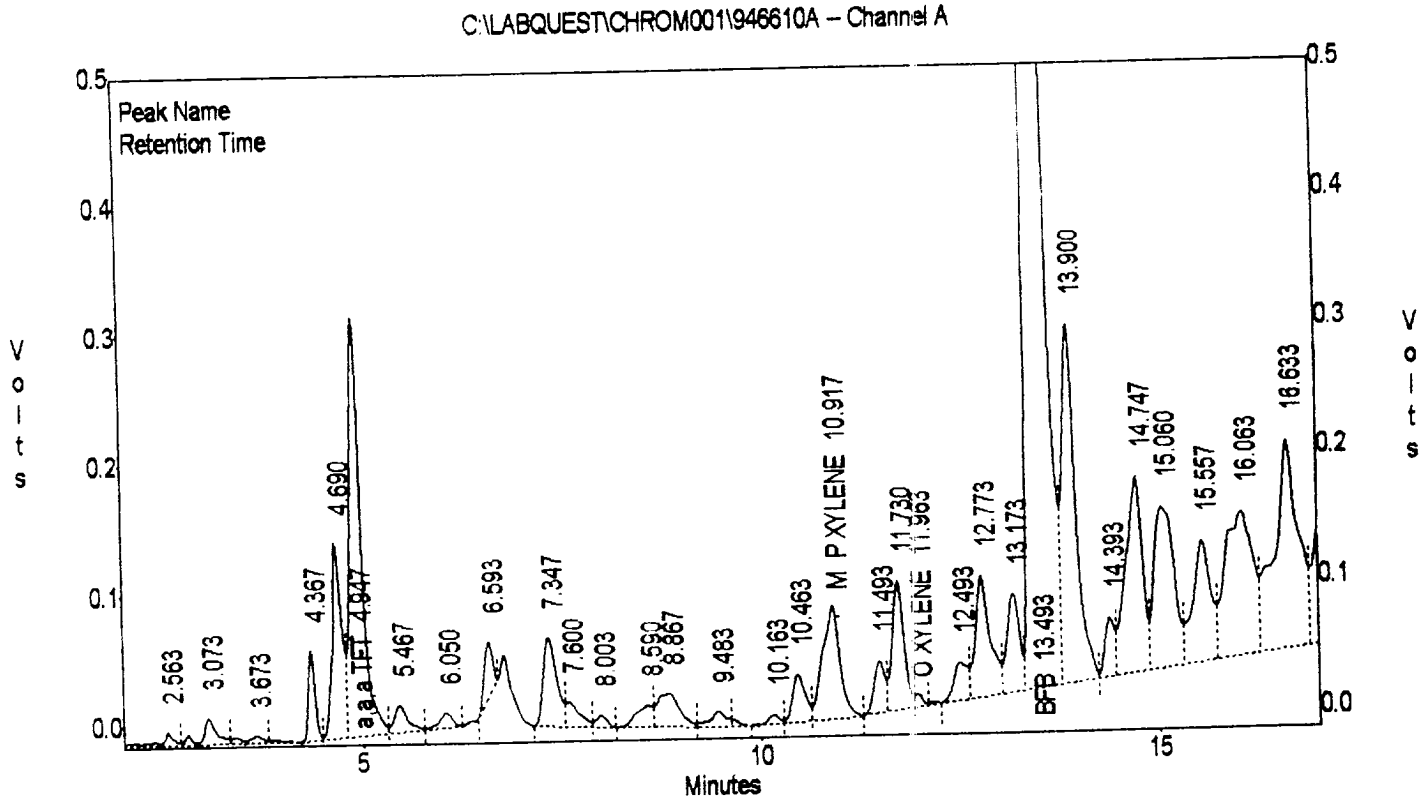
				Det. Limit
Benzene (ug/L)	: 0.00	**Benzene (mg/Kg):**	**0.000**	0.998
Toluene (ug/L)	: 0.00	**Toluene (mg/Kg):**	**0.000**	0.998
Ethylbenzene (ug/L)	: 0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.998
p & m-xylene (ug/L)	: 5.16	p & m-xylene (mg/Kg):	1.030	1.996
o-xylene (ug/L)	: 0.32	o-xylene (mg/Kg):	0.064	0.998
		Total xylenes (mg/Kg):	**1.094**	2.994
		Total BTEX (mg/Kg):	**1.094**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946610A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946610,5.01G/100uL
Acquired : Feb 01, 1995 19:55:22
Printed : Feb 01, 1995 20:21:35
User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.413	0	0.00000	0.0000
a,a,a TFT	4.947	3180071	32055.68359	97.5978
TOLUENE	6.780	0	0.00000	0.0000
ETHYLBENZENE	10.567	0	0.00000	0.0000
M & P XYLENE	10.917	1299872	316768.40625	5.1633
O XYLENE	11.963	69990	221087.17188	0.3176
BFB	13.493	85477536	944778.31250	89.6372
Totals :		90027472		192.7160

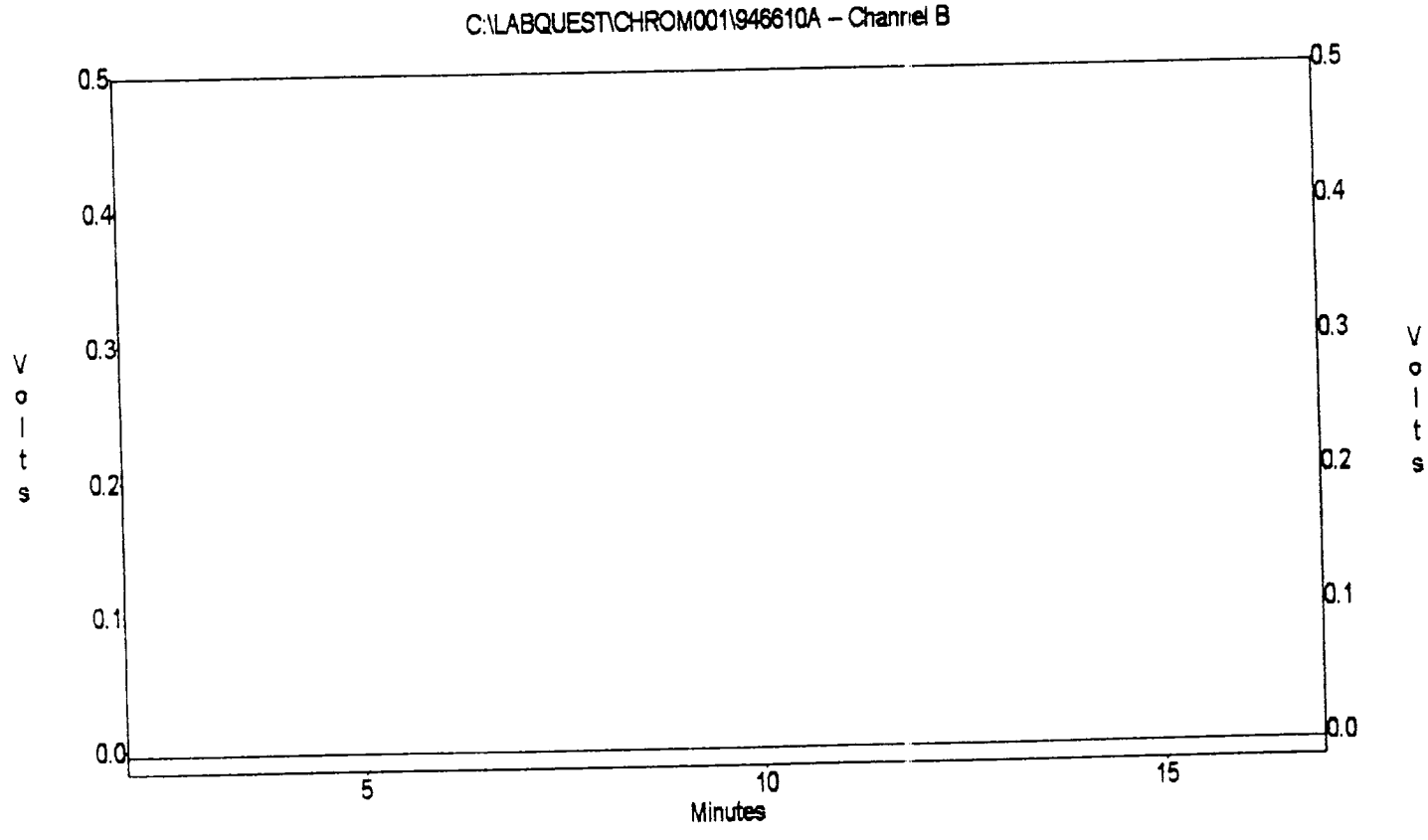


EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946610A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946610,5.01G/100uL
Acquired : Feb 01, 1995 19:55:22
Printed : Feb 01, 1995 20:21:40
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.450	0	0.00000	0.0000
a,a,a TFT	4.950	0	0.00000	0.0000
TOLUENE	6.787	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

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 Five of Diamonds #25 9226

Elevation
Borehole Location QK - S 10 - T30 - R12
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 10/4/95 - 1515
Date/Time Completed 10/4/95 -

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, D. Charlie
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 4'						
5	1	5-6	5"	Br silty SAND, vf-f sand, trace, dense, dry			0	18	17/7	1521
10	2	10-11	4"	Br/Reddish Br silty SAND, vf-f sand, dense, dry			0	24	31/12	1529
				TOB 11'						
15										
20										
25										
30										
35										
40										

Comments: CMC 129(10-11') sent to lab (BTEX, TPH). BH grouted to surface. Drilled to 10' to ensure not in backfill. Samples bagged & iced prior to contamination

Geologist Signature Cmg 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:	CHC129	947581
MTR CODE | SITE NAME:	93267	Five P Diamonds
SAMPLE DATE | TIME (Hrs):	10/4/95	1529
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	10/6/95	
DATE OF BTEX EXT. | ANAL.:	10/5/95	10/5/95
TYPE | DESCRIPTION:	16	[illegible]

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			2.22	2.0
HEADSPACE PID	12	PPM				
PERCENT SOLIDS	94.1	%				

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

The Surrogate Recovery was at 96% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 10-11-95

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

Perkin-Elmer Model 1600 FT-IR
Analysis Report

05/10/06 14:46

Sample Identification
947591

Initial mass of sample, g
2.220

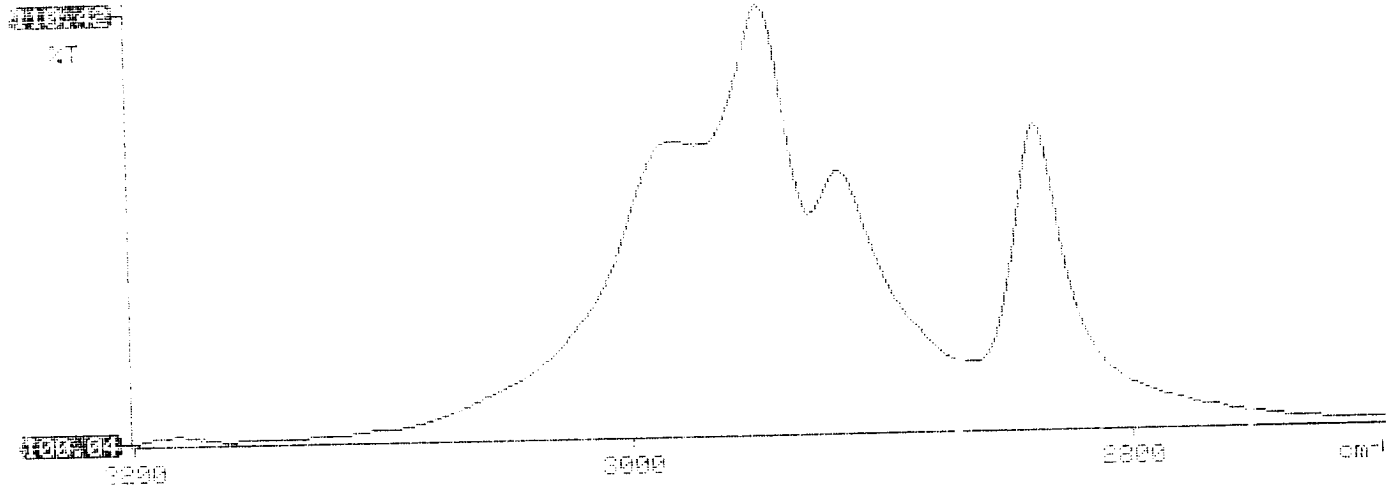
Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
-242.629

Net absorbance of hyarocarbons (2930 cm-1)
-0.022

14:46

V: Petroleum hydrocarbons spectrum



BTEX SOIL SAMPLE WORKSHEET

File	: 947581	**Date Printed**	: 10/6/95		
Soil Mass (g)	: 5.03	**Multiplier (L/g)**	: 0.00099		
Extraction vol. (mL)	: 10	**DF (Analytical)**	: 200		
Shot Volume (uL)	: 50	**DF (Report)**	: 0.19881		
					Det. Limit
Benzene (ug/L)	: 0.12	**Benzene (mg/Kg):**		**0.024**	0.497
Toluene (ug/L)	: 0.18	**Toluene (mg/Kg):**		**0.036**	0.497
Ethylbenzene (ug/L)	: 0.00	**Ethylbenzene (mg/Kg):**		**0.000**	0.497
p & m-xylene (ug/L)	: 0.34	p & m-xylene (mg/Kg):		0.068	0.994
o-xylene (ug/L)	: 0.00	o-xylene (mg/Kg):		0.000	0.497
		Total xylenes (mg/Kg):		**0.068**	1.491
		Total BTEX (mg/Kg):		**0.127**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\100595-0.003
Method : C:\LABQUEST\METHODS\0-092095.MET
Sample ID : 947581,5.03G,50U
Acquired : Oct 05, 1995 12:49:49
Printed : Oct 05, 1995 13:20:16
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.143	43882	0.1173
a,a,a-TFT	10.490	8967587	102.5033
TOLUENE	12.897	65936	0.1812
ETHYLBENZENE	17.170	0	0.0000
M,P-XYLENES	17.613	134920	0.3363
O-XYLENE	18.710	0	0.0000
BFB	19.863	52253728	95.8642