

Denny L. Tipton

DEPUTY REGIONAL SUPERVISOR SUMMARY

JUL 17 1998

Approved

**Graham # 53-A
Meter/Line ID - 70013**

SITE DETAILS

**Legals - Twn: 27 Rng: 8
NMOCD Hazard Ranking: 30
Operator: R & G Drilling**

**Sec: 10 Unit: C
Land Type: BLM**

PREVIOUS ACTIVITIES

**Site Assessment: 1/26/95
Monitor Well: N/A**

**Excavation: 2/7/95
Re-Excavation: N/A**

**Soil Boring: 8/23/95
Geoprobe: N/A**

CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 6 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be below laboratory detection limits, and TPH was above standards at 112 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A brown silt was encountered at 12 feet bgs and continued to the termination of the boring at 17 feet bgs. A soil sample was collected for BTEX and TPH analysis at 15-17 feet bgs. Laboratory analysis showed all BTEX compounds to be below laboratory detection limits and TPH present at 25.7 mg/kg.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 3 feet beneath the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

RECEIVED
MAR - 9 1998

**OIL CON. DIV.
DIST. 3**

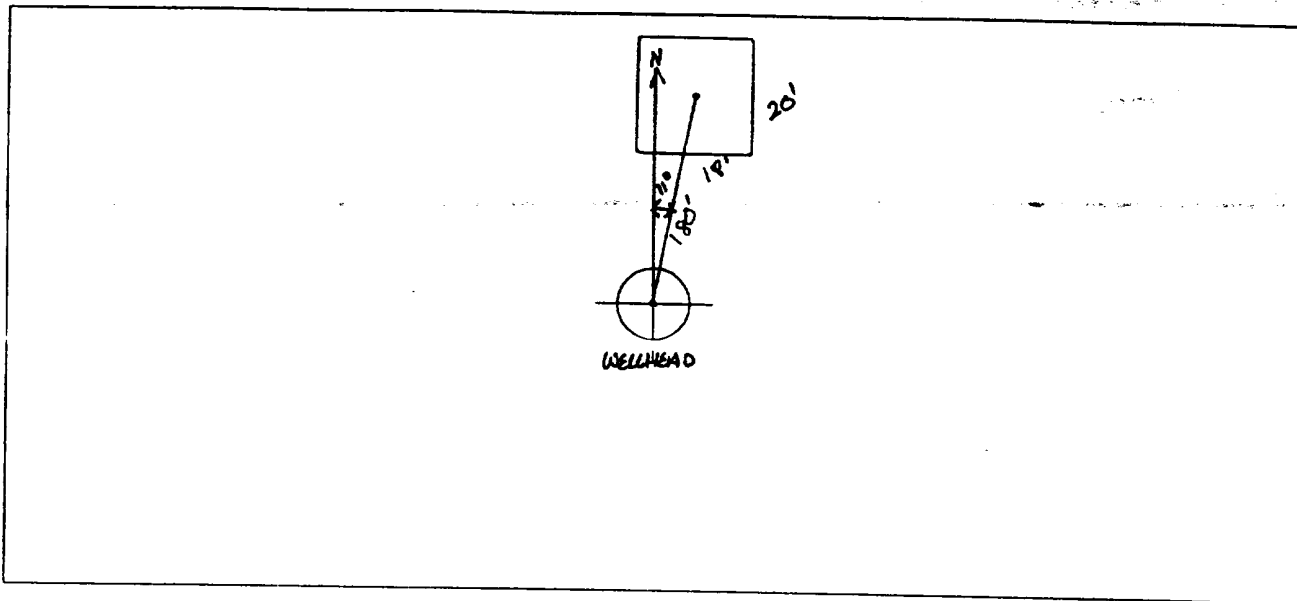
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RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3
h Streams Creeks

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 11° Footage from Wellhead 180'
b) Length : 20' Width : 18' Depth : 2'

ORIGINAL PIT LOCATION



REMARKS

Remarks :

PHOTOS- 1002

Completed By:

Robert Thompson

Signature

1-26-95

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>70013</u> Location: <u>Graham #53-A</u> Coordinates: Letter: <u>C</u> Section <u>10</u> Township: <u>27</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Date Started : <u>2-7-95</u> Run: <u>13</u> <u>31</u>
FIELD OBSERVATIONS	Sample Number(s): <u>MK 361</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>6</u> PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☐ Approx. Cubic Yards _____ Onsite Bioremediation ☐ Backfill Pit Without Excavation ☒ Soil Disposition: Envirotech ☐ Tierra ☐ Other Facility ☐ Name: _____ Pit Closure Date: <u>2-7-95</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>Arrived dug sample hole pit was clean</u> <u>all the way through</u>
	Signature of Specialist: <u>Morgan Killian</u>

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:	mx 361	946646
MTR CODE SITE NAME:	70013	N/A
SAMPLE DATE TIME (Hrs):	2-7-95	1220
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	2-10-95	2-10-95
DATE OF BTEX EXT. ANAL.:	2/9/95	2/10/95
TYPE DESCRIPTION:	VG	Brown fine sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.00	MG/KG	0.19920		5.02	20
TOLUENE	<1.00	MG/KG	1		1	1
ETHYL BENZENE	<1.00	MG/KG	1		1	1
TOTAL XYLENES	<3.00	MG/KG	1		1	1
TOTAL BTEX	<6.00	MG/KG				
TPH (418.1)	112	MG/KG			1.99	28
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	93.5	%				

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

The Surrogate Recovery was at 87.3 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

J.R.

Date:

2-22-95

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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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95/02/10 10:19

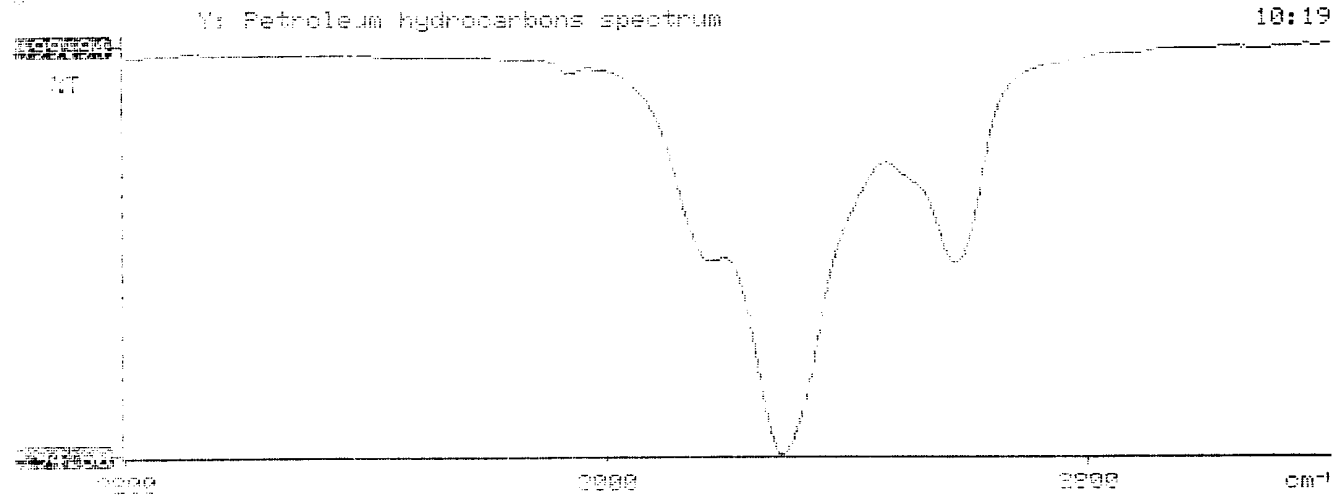
* Sample identification
946646

* Initial mass of sample, g
1.990

* Volume of sample after extraction, ml
28.000

* Petroleum hydrocarbons, ppm
112.490

* Net absorbance of hydrocarbons (2930 cm⁻¹)
0.024



BTEX SOIL SAMPLE WORKSHEET

File : 946646B
Soil Mass (g) : 5.02
Extraction vol. (mL) : 20
Shot Volume (uL) : 100

Date Printed : 2/11/95
Multiplier (L/g) : 0.00100
DF (Analytical) : 200
DF (Report) : 0.19920

				Det. Limit
Benzene (ug/L) :	0.00	Benzene (mg/Kg):	0.000	0.996
Toluene (ug/L) :	0.56	Toluene (mg/Kg):	0.112	0.996
Ethylbenzene (ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000	0.996
p & m-xylene (ug/L) :	0.37	p & m-xylene (mg/Kg):	0.074	1.992
o-xylene (ug/L) :	0.00	o-xylene (mg/Kg):	0.000	0.996
		Total xylenes (mg/Kg):	0.074	2.988
		Total BTEX (mg/Kg):	0.185	

EL PASO NATURAL GAS

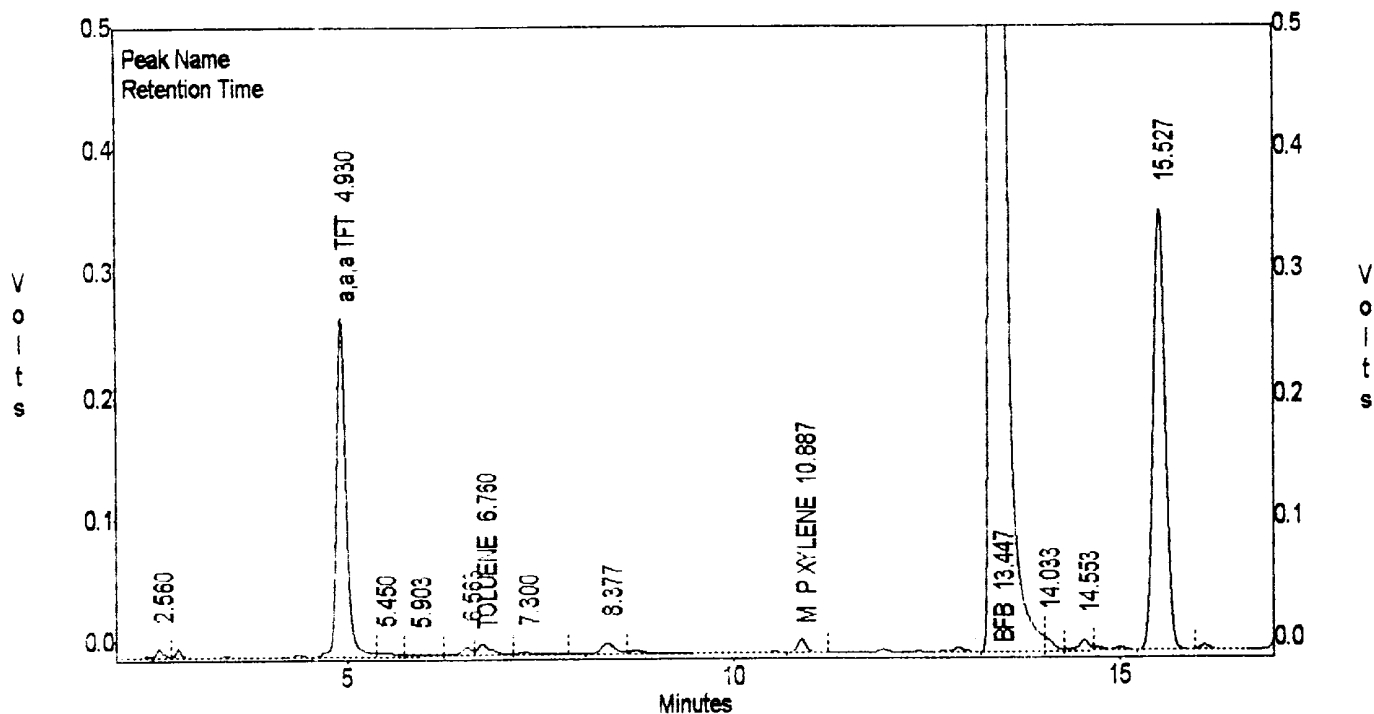
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946646B
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 946646,5.02G/100uL
 Acquired : Feb 10, 1995 22:23:27
 Printed : Feb 10, 1995 22:49:41
 User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.400	0	0.00000	0.0000
a,a,a TFT	4.930	2383656	26415.50781	37.8250
TOLUENE	6.760	129518	279082.62500	0.5638
ETHYLBENZENE	10.517	0	0.00000	0.0000
M & P XYLENE	10.887	88621	293876.96875	0.3687
O XYLENE	11.937	0	0.00000	0.0000
BFB	13.447	74030024	832618.18750	87.2776
Totals :		76631824		175.8351

C:\LABQUEST\CHROM001\946646B - Channel A

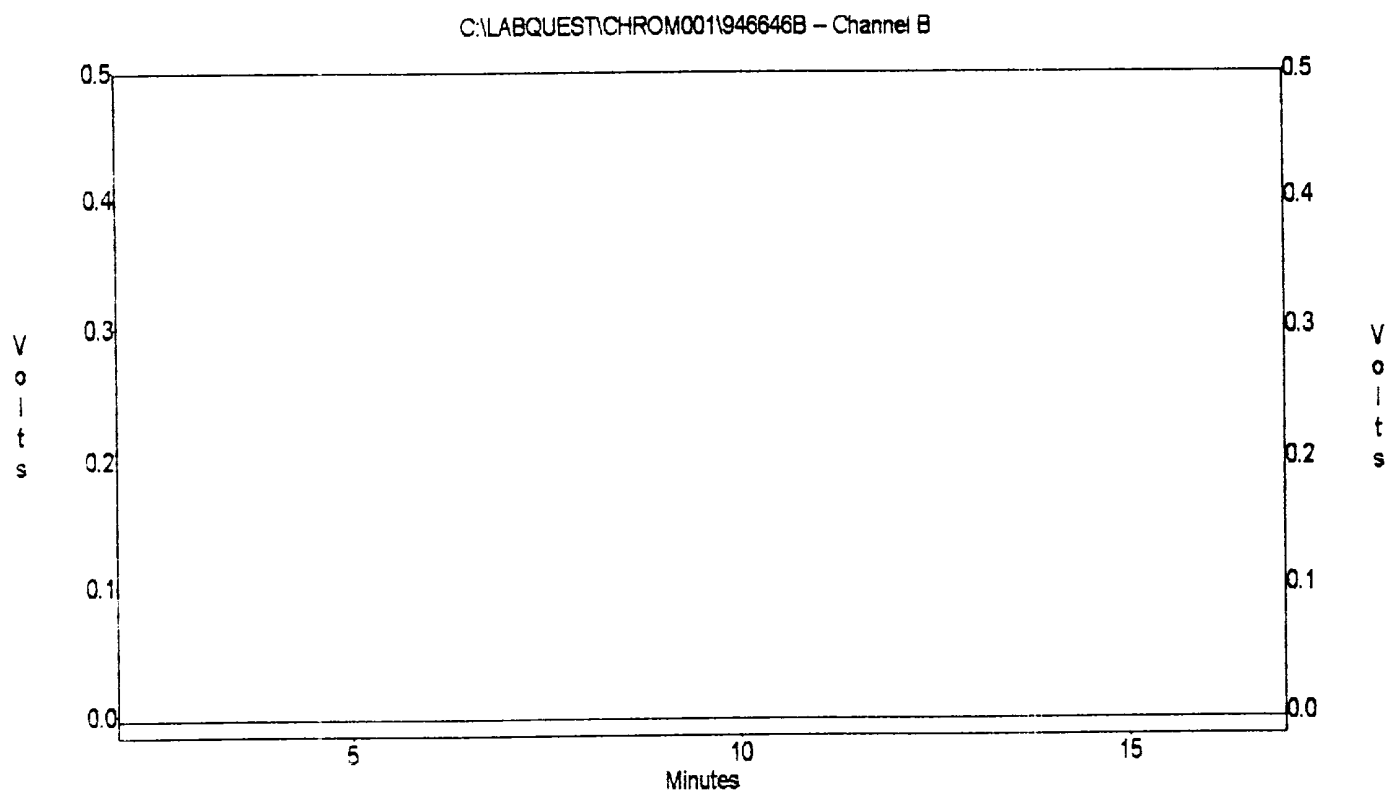


EL PASO NATURAL GAS**EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\946646B
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946646,5.02G/100uL
Acquired : Feb 10, 1995 22:23:27
Printed : Feb 10, 1995 22:49:45
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 TPT	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

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 Graham # 53-A 70013

Elevation _____
Borehole Location QC-S10-T27-R8
GWL Depth _____
Logged By CM CHANCE
Drilled By SMK K Padilla F. Rivera
Date/Time Started 8/23/95-1240
Date/Time Completed 8/23/95-1325

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, H. Keil
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	10'	Br SILT, very loose, moist, tr clay			0	0	0	-1245hr
20				TDS 17'						
25										
30										
35										
40										

Comments:

CMC 9D (15-17') sent to lab (BTEX, TPH). BH grouted to surface

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:	CML 90	947318
MTR CODE SITE NAME:	70013	Graham #53-A
SAMPLE DATE TIME (Hrs):	08/23/95	12:48
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/24/95	
DATE OF BTEX EXT. ANAL.:	8/25/95	8/29/95
TYPE DESCRIPTION:	V6	Brown sand & clay

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)	^{RECALCULATED} 25.7	MG/KG			2.05	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	87.3	%				

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

The Surrogate Recovery was at 89% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

J.P.

Date:

9-5-95

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

Perkin-Elmer Model 1600 FT-IR
 Analysis Report

95/08/24 13:24

* Sample identification
 947318

* Initial mass of sample, g
 2.050

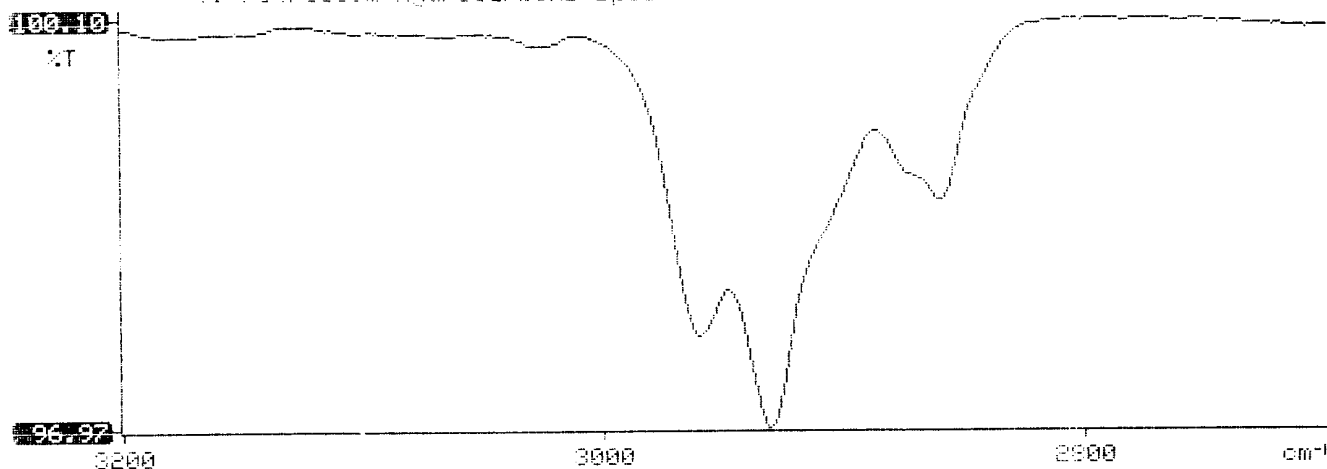
* Volume of sample after extraction, ml
 28.000

* Petroleum hydrocarbons, ppm
 25.727

* Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.013

Y: Petroleum hydrocarbons spectrum

13:24



BTEX SOIL SAMPLE WORKSHEET

File	:	947318	Date Printed	:	8/31/95
Soil Mass (g)	:	4.96	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20161

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.504
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.504
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.504
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.008
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.504
			Total xylenes (mg/Kg):	0.000 1.512
			Total BTEX (mg/Kg):	0.000

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082595-1.027
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947318,4.96G,100U
Acquired : Aug 30, 1995 03:02:49
Printed : Aug 30, 1995 03:29:09
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.367	0	0.0000
a,a,a TFT	4.917	2645629	88.8863
TOLUENE	6.737	0	0.0000
ETHYLBENZENE	10.430	0	0.0000
M & P XYLENE	10.840	0	0.0000
O XYLENE	11.900	0	0.0000
BFB	13.397	39753712	89.4872

