EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 2 1 1998

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

SANDIA FEDERAL #1
Meter/Line ID - 73942

SITE DETAILS

Legals - Twn: 30 **Rng:** 11 **Sec:** 29 **Unit:** P
NMOCD Hazard Ranking: 20 **Land Type:** 2 - Federal
Operator: CONOCO - MESA OPERATING L **Pit Closure Date: 04/26/94**

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: 73942 Location: SANDIA FEDERAL #1

Operator #: 0286 Operator Name: CONOCO P/L District: KUTZ

Coordinates: Letter: P Section 29 Township: 30 Range: 11

Or Latitude _____ Longitude _____

Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: _____

Site Visit Date: 3.21.94 Run: 02 41

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside Vulnerable Zone ☒
Outside ☐

Land Type:
BLM ☒
State ☐
Fee ☐
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☐
50 Ft to 99 Ft (10 points) ☐
Greater Than 100 Ft (0 points) ☒

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? ☐ YES (20 points) ☒ 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) ☒
Name of Surface Water Body _____
(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds)

TOTAL HAZARD RANKING SCORE: 0 **POINTS**

REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.

(SP3190) 03/16/

ORIGINAL PIT LOCATION

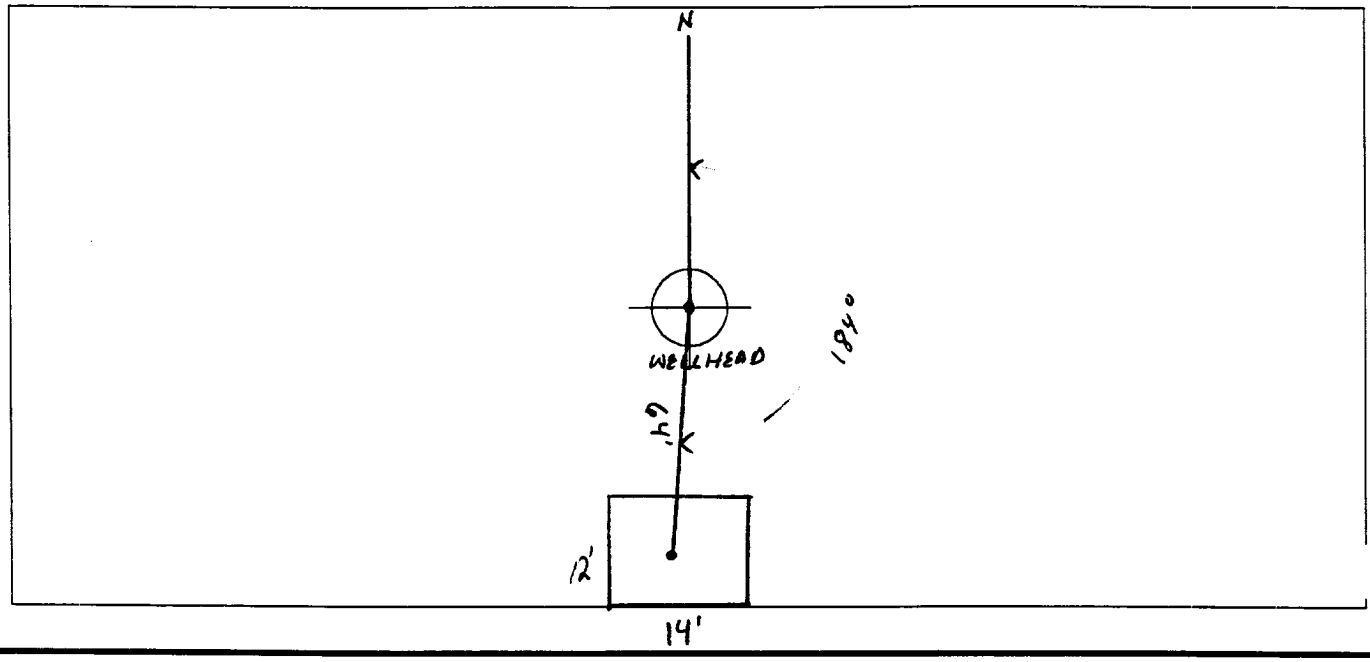
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 184° Footage to Wellhead 64'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 14' Width : 12' Depth : 2'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 2:04 P.M.

END DUMP

Completed By:

Robert C Thompson
Signature

3.21.94
Date

4-22-94
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73942 Location: SANDIA FEDERAL #1

Operator #: _____ Operator Name: _____ P/L District: _____

Coordinates: Letter: ___ Section ___ Township: ___ Range: ___

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: ___ Line Drip: ___ Other: _____

Site Assessment Date: _____ Area: 02 Run: 41

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 _____

(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 : _____

PHASE I EXCAVATION

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW33	945021
MTR CODE | SITE NAME:	73942	N/A
SAMPLE DATE | TIME (Hrs):	4/26/94	1515
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	4-28-94	4/28/94
DATE OF BTEX EXT. | ANAL.:	5/9/94	5/10/94
TYPE | DESCRIPTION:	VC	Grey fine Sand/Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	42.5	MG/KG		X10		
TOLUENE	14	MG/KG		X10		
ETHYL BENZENE	6.7	MG/KG		X10		
TOTAL XYLENES	100	MG/KG		X10		
TOTAL BTEX	123	MG/KG				
TPH (418.1)	925	MG/KG			2.24	28
HEADSPACE PID	397	PPM				
PERCENT SOLIDS	82	%				

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

The Surrogate Recovery was at 63 % for this sample All QA/QC was acceptable.

Narrative: ATI Results attached. Surrogate recovery was outside ATI QC limits due to matrix interference

DF = Dilution Factor Used

Approved By: _____ Date: 5/21/94

********** **********

Test Method for

Oil and Grease and Petroleum Hydrocarbons

in Water and Soil

Perkin-Elmer Model 1600 FT-IR

Analysis Report

********** **********

24/04/20 15:22

Sample identification

945021

Initial mass of sample, g

2.240

Volume of sample after extraction, ml

20.000

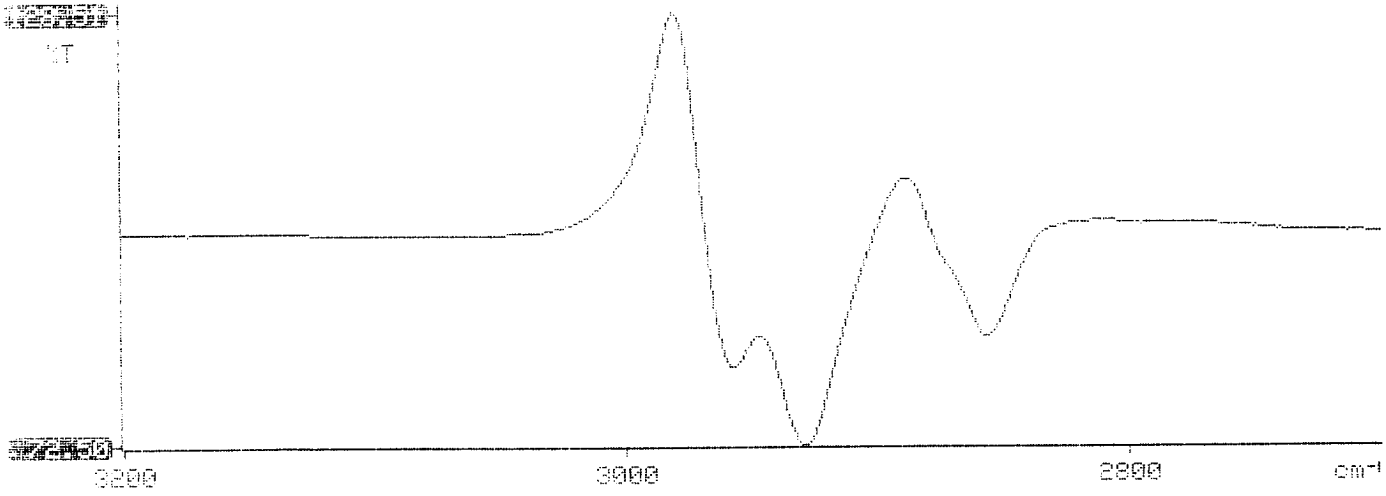
Petroleum hydrocarbons, ppm

924.471

Net absorbance of hydrocarbons (2930 cm-1)

0.140

V: Petroleum hydrocarbons spectrum 15:22



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405313
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	945020	NON-AQ	04/26/94	05/09/94	05/10/94	20
14	945021	NON-AQ	04/26/94	05/09/94	05/10/94	100
15	945022	NON-AQ	04/27/94	05/09/94	05/10/94	1

PARAMETER	UNITS	13	14	15
BENZENE	MG/KG	<0.50	<2.5	<0.025
TOLUENE	MG/KG	32	14	<0.025
ETHYLBENZENE	MG/KG	42	6.7	0.037
TOTAL XYLENES	MG/KG	440	100	0.076
METHYL-t-BUTYL ETHER	MG/KG	<2.4	<12	<0.12
SURROGATE:				
BROMOFLUOROBENZENE (%)		130*	63*	140*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **405313**

May 13, 1994

El Paso Natural Gas Company
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/03/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA Method 8015 analysis was added on 05/05/94 for sample 945008 per Stacy Sendler.

The matrix spike/spike duplicate data from the samples extracted on 05/05/94 is reported twice reflecting quantification using both the internal standard and external standard protocols. Both protocols were employed to quantify the samples submitted for this project.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure

FI) PIT REMEDIATION/CLO RE FORM

GENERAL

Meter: 73942 Location: Sandia Fed. #1

Coordinates: Letter: P Section 29 Township: 30 Range: 11

Or Latitude _____ Longitude _____

Date Started : 4-26-94 Area: 02 Run: 41

FIELD OBSERVATIONS

Sample Number(s): 943021 VW33 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 397 PID Reading Depth 12 Feet

	Yes	No
Groundwater Encountered	☐ (1)	☒ (2)

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 30
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

Envirotech	☐ (1)	☒ (3)	Tierra
Other Facility	☐ (2)	Name:	_____

Pit Closure Date: 4-26-94 Pit Closed By: BEI

REMARKS

Remarks : No line Markers. Soil Back.

Signature of Specialist: Vak Wilson

(SP3191) 04/07/94

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 Sandia Federal #1 73942

Elevation
Borehole Location QP - S29 - T30 - R11
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 10/30/95 - 0823
Date/Time Completed 10/30/95 - 1030

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, O. Charbo
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 12'						
5										
10										
										- v. hard @ ~13'
15	1	15-16	8	lt Br/grey CLAY, tr vf sand, v stiff, low plastic, dry			2	130	255/599	- 0837 hr
20	2	20-21.5	12	Grey silty CLAY, v. stiff, nonplastic, dry			0	98	129/68	- 0852
25	3	25-26	8	AA			0	83	25/162	- 0903
30	4	30-31	8	AA			0	69	58/193	- 0913
35	5	35-35.5	4	AA			0	52	45/96	- 0930
				TD @ 37'						
40										

Comments: CMC 169 (35 - 35.5') sent to lab. BH grouted to surface. Sample bagged & iced prior to containerizing

Geologist Signature Cory 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:	CMC169	947706
MTR CODE | SITE NAME:	73942	Sandia Federal #1
SAMPLE DATE | TIME (Hrs):	10-30-95	0930
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)	30.1	MG/KG			2.01	28
HEADSPACE PID	36	PPM				
PERCENT SOLIDS	92.0	%				

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

The Surrogate Recovery was at 101 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 11/1/95

BTEX SOIL SAMPLE WORKSHEET

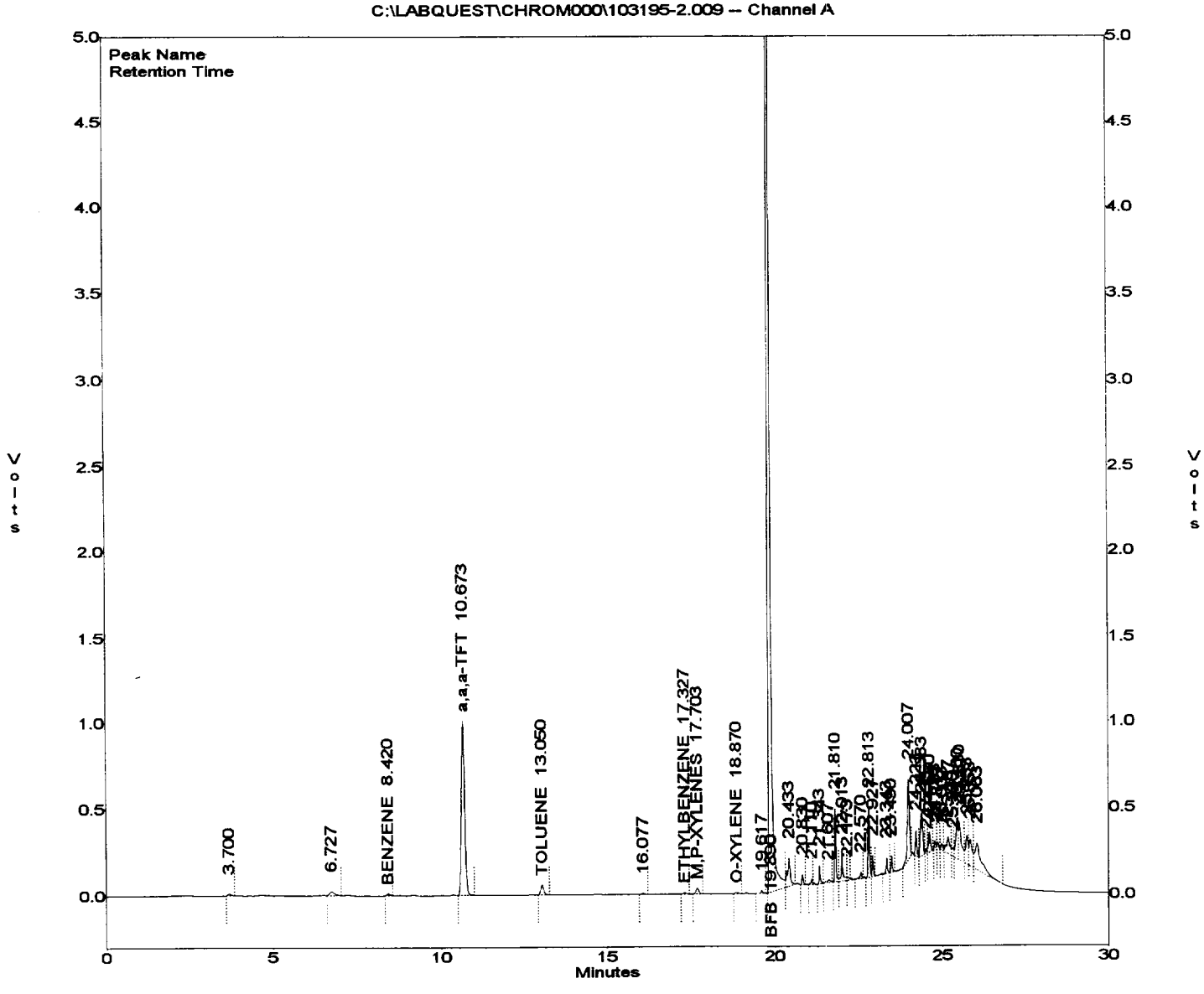
File	947706	**Date Printed**	11/1/95	
Soil Mass (g)	4.98	**Multiplier (L/g)**	0.00100	
Extraction vol. (mL)	10	**CAL FACTOR (Analytical):**	200	
Shot Volume (uL)	50	**CAL FACTOR (Report):**	0.20080	
		DILUTION FACTOR:	**1**	**Det. Limit**
Benzene (ug/L)	0.18	**Benzene (mg/Kg):**	**0.036**	0.502
Toluene (ug/L)	0.74	**Toluene (mg/Kg):**	**0.149**	0.502
Ethylbenzene (ug/L)	0.16	**Ethylbenzene (mg/Kg):**	**0.032**	0.502
p & m-xylene (ug/L)	0.55	p & m-xylene (mg/Kg):	0.110	1.004
o-xylene (ug/L)	0.21	o-xylene (mg/Kg):	0.042	0.502
		Total xylenes (mg/Kg):	**0.153**	1.506
		Total BTEX (mg/Kg):	**0.369**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\103195-2.009
Method : C:\LABQUEST\METHODS\0-103095.MET
Sample ID : 947706,4.98G,50U
Acquired : Oct 29, 1995 23:02:25
Printed : Oct 29, 1995 23:32:50
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.420	73513	0.1754
a,a,a-TFT	10.673	7015377	101.2665
TOLUENE	13.050	368998	0.7443
ETHYLBENZENE	17.327	55243	0.1609
M,P-XYLENES	17.703	217348	0.5469
O-XYLENE	18.870	70441	0.2060
BFB	19.890	46663904	100.9080



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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               *
**************************************************
*
 95/10/31  14:55
*
*  Sample identification
 947706
*
*  Initial mass of sample, g
 2.010
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 30.064
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
```