DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

Approved

OK

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

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

RUBY CORSCOT #1
Meter/Line ID - 73351

SITE DETAILS

Legals - Twn: 30 **Rng:** 12 **Sec:** 25 **Unit:** C
NMOCD Hazard Ranking: 30 **Land Type:** 4 - Fee
Operator: CONOCO - MESA OPERATING L **Pit Closure Date: 04/25/94**

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: 73351 Location: RUBY CORSCOT #1

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

Coordinates: Letter: C Section 25 Township: 30 Range: 12

Or Latitude _____ Longitude _____

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

Site Visit Date: 3·22·94 Run: 02 71

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 JONES ARROYO
(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds)

TOTAL HAZARD RANKING SCORE: 10 **POINTS**

REMARKS

Remarks : ONLY PIT ON LOCATION.

ORIGINAL PIT LOCATION

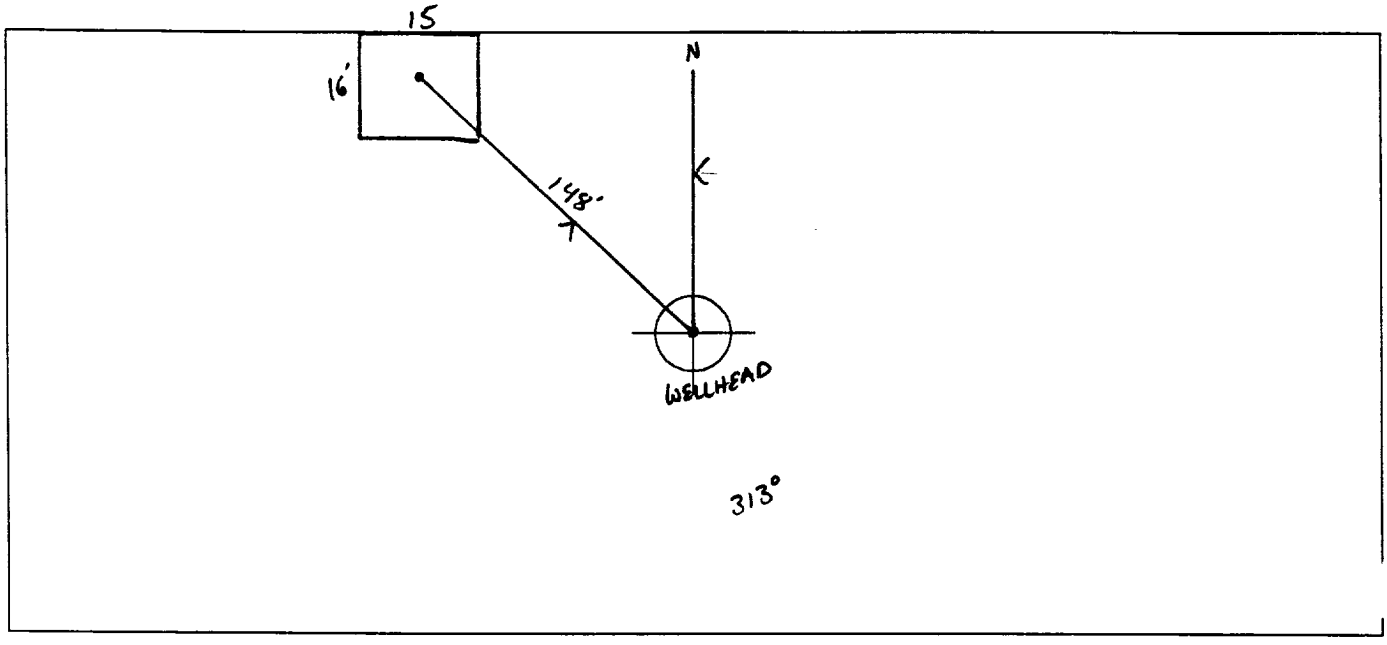
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 313° Footage to Wellhead 148'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 16' Width : 15' Depth : 2'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 10:17 A.M.

DUMP TRUCK - BOBTAIL

Completed By:

Robert Thompson
Signature

3.22.94
Date

4-2244
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73351 Location: Ruby Corscot #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: 21

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: 30 **POINTS**

REMARKS

Remarks : _____

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 73351 Location: Ruby Corscot #1

Coordinates: Letter: C Section 25 Township: 30 Range: 12

Or Latitude _____ Longitude _____

Date Started : 4-25-94 Area: 02 Run: 71

FIELD OBSERVATIONS

Sample Number(s): 9450116 KD30 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 212 ppm PID Reading Depth 12' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 60

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 4-25-94 Pit Closed By: REI

REMARKS

Remarks : Took Pit to 12' Took PID Reading; Closed pit

Signature of Specialist: Kerry Dean

30

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD30	945011e
MTR CODE | SITE NAME:	73351	N/A
SAMPLE DATE | TIME (Hrs):	4/25/94	1645
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	4-28-94	4/28/94
DATE OF BTEX EXT. | ANAL.:	5/9/94	5/9/94
TYPE | DESCRIPTION:	VC	Brown/Grey Coarse Sand

REMARKS: ____________________

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.12	MG/KG		X10		
TOLUENE	0.40	MG/KG		X10		
ETHYL BENZENE	2.3	MG/KG		X10		
TOTAL XYLENES	31	MG/KG		X10		
TOTAL BTEX	33.8	MG/KG				
TPH (418.1)	22500 ~~27549~~ (initialed 5/4/94)	MG/KG			.26	28
HEADSPACE PID	212	PPM				
PERCENT SOLIDS	88	%				

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

The Surrogate Recovery was at 127 % for this sample All QA/QC was acceptable.

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

DF = Dilution Factor Used

Approved By: [signature]

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 *
****

94/04/29 16:09

Sample identification
945016

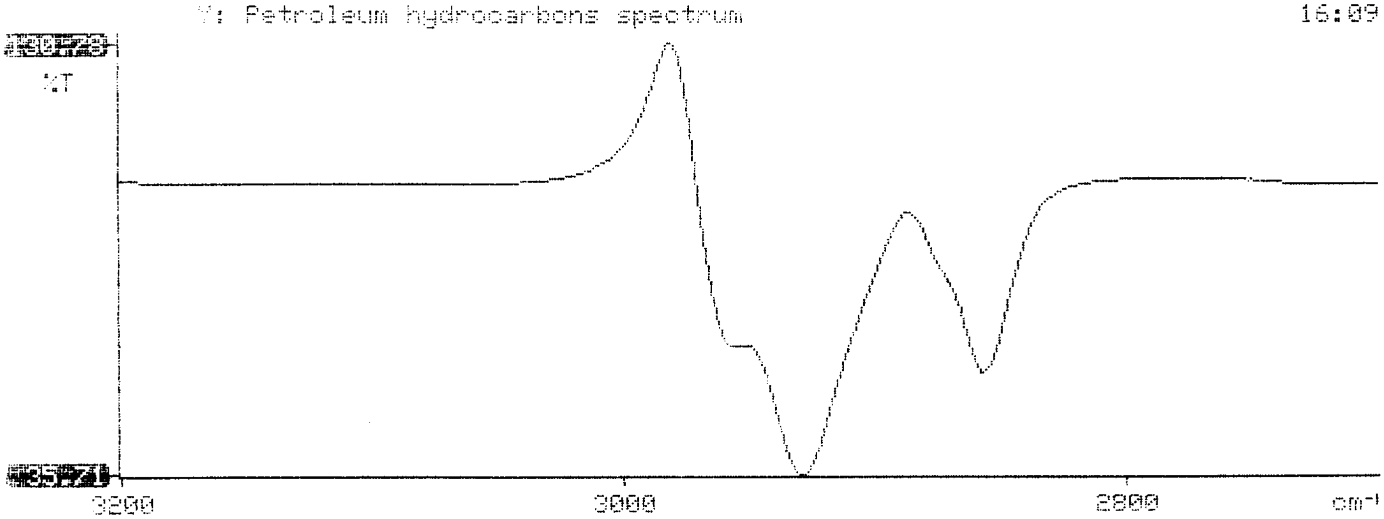
Initial mass of sample, g
0.260

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
27548.670

Net absorbance of hydrocarbons (2930 cm-1)
0.448

Y: Petroleum hydrocarbons spectrum 16:09



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

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
07	945014	NON-AQ	04/25/94	05/09/94	05/09/94	5
08	945015	NON-AQ	04/25/94	05/09/94	05/09/94	1
09	945016	NON-AQ	04/25/94	05/09/94	05/09/94	5

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.12	<0.025	<0.12
TOLUENE	MG/KG	<0.12	<0.025	0.40
ETHYLBENZENE	MG/KG	1.4	<0.025	2.3
TOTAL XYLENES	MG/KG	37	0.077	31
METHYL-t-BUTYL ETHER	MG/KG	<0.60	<0.12	<0.60
SURROGATE:				
BROMOFLUOROBENZENE (%)		111	93	127*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

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 Ruby Corsco+ #1 72351

Elevation
Borehole Location QC - S25 - T30 - R12
GWL Depth
Logged By CM CHANCE
Drilled By ~~K Padilla~~ F. Rivera
Date/Time Started 10/22/95 - 1440
Date/Time Completed 10/22/95 - 1520

Well Logged By CM Chance
Personnel On-Site K Padilla, 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 12'						
15	1	15-17	8	Br SAND, f sand, med sand, loose, moist			0	2	22/66	1445
20	2	20-22	6	DK gry sandy CLAY, vF sand, V. soft, high plastic, dry			0	7	0/0	1453
				TD B 22'						
25										
30										
35										
40										

Comments: CMC 162 (20-22') sent to lab (BTEX, TPH). BH grouted to surface. Sample Bagged & iced prior to containerizing.

Geologist Signature Cmy Chany

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:	CMC162	947687
MTR CODE | SITE NAME:	73351	Ruby Corscot #1
SAMPLE DATE | TIME (Hrs):	10-23-95	1453
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	10/25/95	
DATE OF BTEX EXT. | ANAL.:	10/24/95	10/24/95
TYPE | DESCRIPTION:	VG	Grey Silty Sand

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)	95.2	MG/KG			2.0	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	81.4	%				

-- 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: 10-26-95

BTEX SOIL SAMPLE WORKSHEET

File :	947687	**Date Printed** :	10/25/95
Soil Mass (g) :	4.94	**Multiplier (L/g)** :	0.00101
Extraction vol. (mL) :	10	**CAL FACTOR (Analytical):**	200
Shot Volume (uL) :	50	**CAL FACTOR (Report):**	0.20243

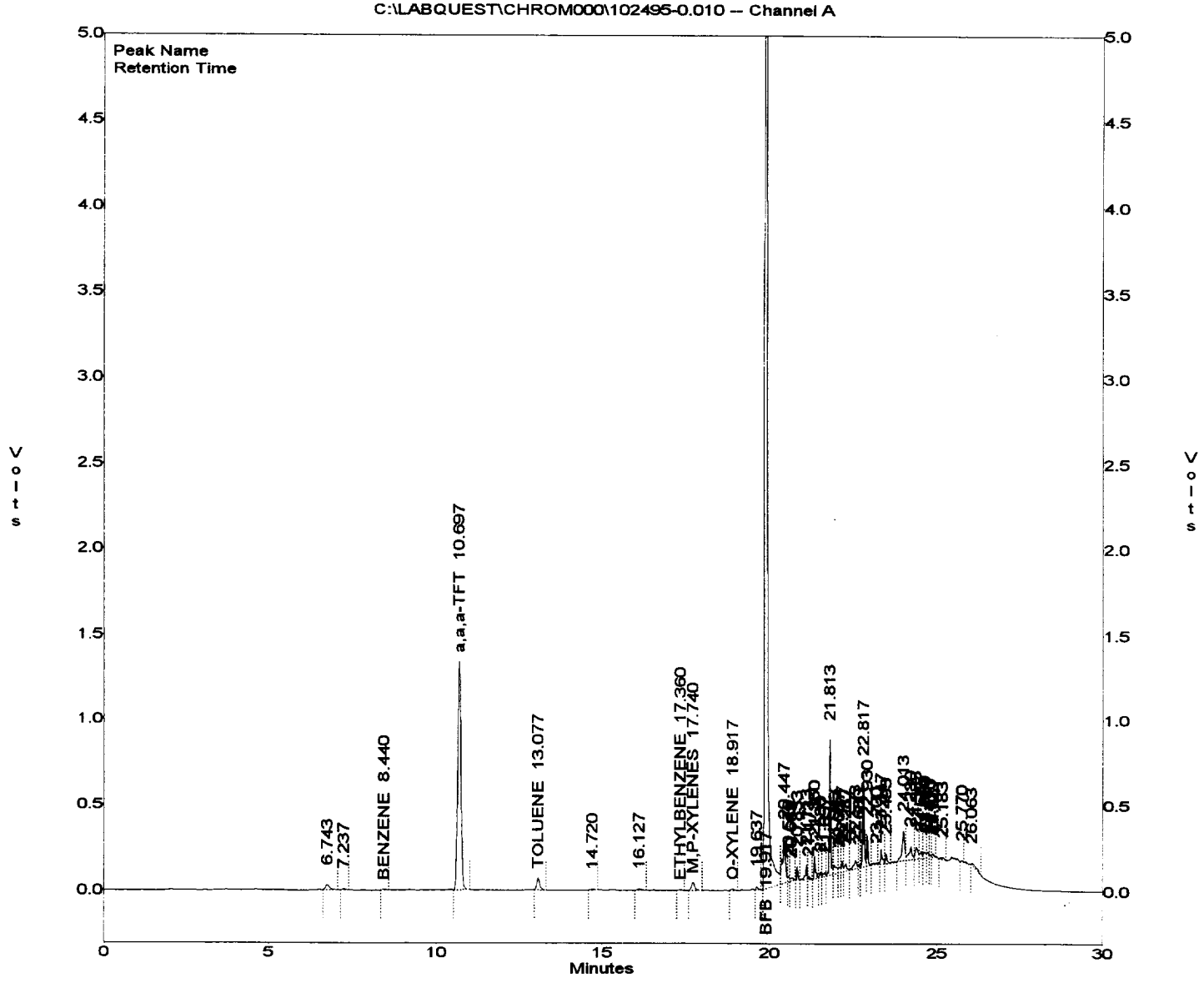
		DILUTION FACTOR:	**1**	**Det. Limit**
Benzene (ug/L) :	0.10	**Benzene (mg/Kg):**	**0.020**	0.506
Toluene (ug/L) :	0.86	**Toluene (mg/Kg):**	**0.174**	0.506
Ethylbenzene (ug/L) :	0.11	**Ethylbenzene (mg/Kg):**	**0.022**	0.506
p & m-xylene (ug/L) :	0.62	p & m-xylene (mg/Kg):	0.126	1.012
o-xylene (ug/L) :	0.15	o-xylene (mg/Kg):	0.030	0.506
		Total xylenes (mg/Kg):	**0.156**	1.518
		Total BTEX (mg/Kg):	**0.372**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\102495-0.010
Method : C:\LABQUEST\METHODS\0-101895.MET
Sample ID : 947687,4.94G,50U
Acquired : Oct 24, 1995 20:10:53
Printed : Oct 24, 1995 20:41:15
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.440	51749	0.0987
a,a,a-TFT	10.697	9301793	95.0814
TOLUENE	13.077	437271	0.8638
ETHYLBENZENE	17.360	46373	0.1058
M,P-XYLENES	17.740	317073	0.6208
O-XYLENE	18.917	64156	0.1506
BFB	19.917	55055160	101.4959



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

  93/10/22   14:30

  Sample Identification
  547387

  Initial mass of sample, g
  2.000

  Volume of sample after extraction, ml
  20.000

  Petroleum hydrocarbons, ppm
  95.215
  Net absorbance of hydrocarbons (2930 cm-1)
  0.022
```