

Deputy OIL & GAS INSPECTOR
EL PASO FIELD SERVICES
DEC 21 1998
PRODUCTION PIT CLOSURE

NELLIE PLATERO #6
Meter/Line ID - 93127

RECEIVED
JUL 2 1998

OIL CON. DIV
DEC 7 8

SITE DETAILS

Legals - Twn: 27 Rng: 09
NMOCD Hazard Ranking: 40
Operator: TEXACO E&P INC

Sec: 11 Unit: L
Land Type: 3 - Navajo
Pit Closure Date: 08/18/94

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

93127

GENERAL

Meter: 93127 Location: Nellie Platero Well No. 6
 Operator #: 0263 Operator Name: Texaco P/L District: Ballard
 Coordinates: Letter: L Section 11 Township: 27 Range: 9
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 6-15-94 Area: 11 Run: 71

NMOCD Zone:

(From NMOCD
Maps)

Inside
Outside

Land Type:

BLM ☐ (1)

State ☐ (2)

Fee ☐ (3)

Indian Eastern Navajo Agency

☒ (1)

☐ (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 Taquez Canyon

(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 : one pit-dry

REMARKS

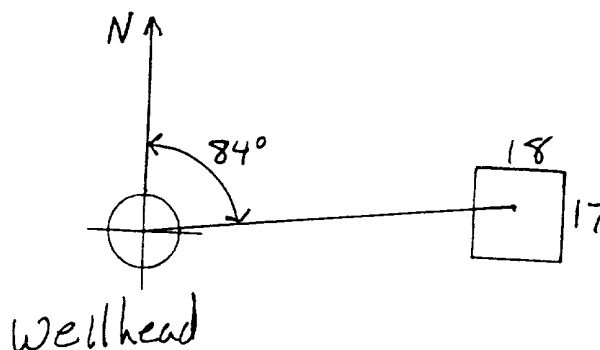
Inside V.Z. on Redline & Topo

Dred Hand

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 84 Footage from Wellhead 162
b) Length : 18 Width : 17 Depth : 4



REMARKS

Remarks :

Photos - 0905

Completed By:

Signature

6-15-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93127 Location: Nellie Plakro Well #6
 Coordinates: Letter: L Section 11 Township: 27 Range: 9
 Or Latitude _____ Longitude _____
 Date Started : 8/17/94 Run: 11 71

FIELD OBSERVATIONS

Sample Number(s): K0222
 Sample Depth: 12' Feet
 Final PID Reading 145 ppm PID Reading Depth 12' Feet
 Yes No
 Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 70
 Onsite Bioremediation ☐
 Backfill Pit Without Excavation ☐

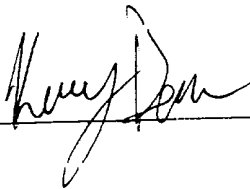
Soil Disposition:

Envirotech ☒ ☐ Tierra
 Other Facility ☐ Name: _____

Pit Closure Date: 8/18/94 Pit Closed By: BEI

REMARKS

Remarks : Excavated pit to 12', TOOK PID sample, closed
pit.

Signature of Specialist: 



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD222	945963
MTR CODE SITE NAME:	93127	Nellie Platero #6
SAMPLE DATE TIME (Hrs):	8/18/94	1045
PROJECT:	PHASE I	
DATE OF TPH EXT. ANAL.:	8/24/94	8/24/94
DATE OF BTEX EXT. ANAL.:	8/25/94	8/26/94
TYPE DESCRIPTION:	VC	Brown coarse sand

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.25	MG/KG	10	D		
TOLUENE	<0.25	MG/KG	10	D		
ETHYL BENZENE	1.60	MG/KG	10	D		
TOTAL XYLENES	15.0	MG/KG	10	D		
TOTAL BTEX	16.6	MG/KG				
TPH (418.1)	729	MG/KG			2.02	28
HEADSPACE PID	145	PPM				
PERCENT SOLIDS	93.4	%				

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

The Surrogate Recovery was at 147 for this sample All QA/QC was acceptable.
The "D" qualifier indicates the reported result for this analyte is calculated based on a secondary dilution factor.

Narrative:

ATE Results Attached. Surrogate recoveries were outside ATE QC limits due to matrix interferences.

DF = Dilution Factor Used

Approved By: John Larch INGVZPIT.XLS

Date: 9/30/94



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	5D 222	945963
MTR CODE SITE NAME:	93127	N/A
SAMPLE DATE TIME (Hrs):	8-18-94	1045
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8/24/94	8/24/94
DATE OF BTEX EXT. ANAL.:	8/25/94	8/26/94
TYPE DESCRIPTION:	VC	Brown coarse sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	20.25	MG/KG	10			
TOLUENE	20.25	MG/KG	10			
ETHYL BENZENE	1.6	MG/KG	10			
TOTAL XYLENES	15	MG/KG	10			
TOTAL BTEX	17	MG/KG				
TPH (418.1) 8/21/94	730-729	MG/KG			2.62	2.8
HEADSPACE PID	145	PPM				
PERCENT SOLIDS	93.4	%				

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

The Surrogate Recovery was at 147 % 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

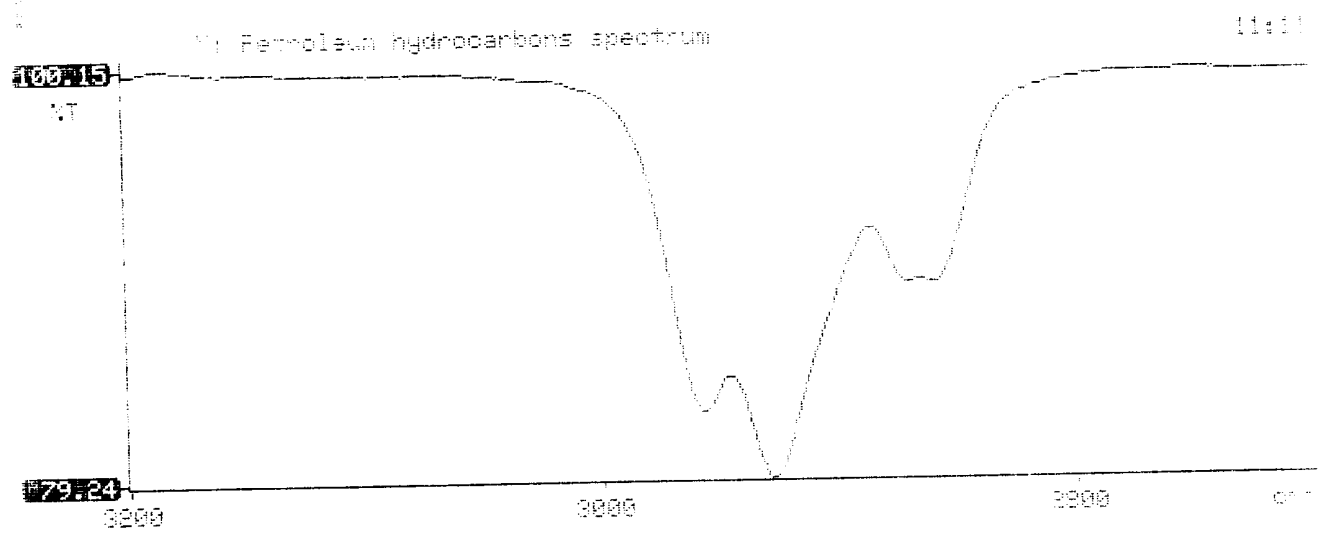
Approved By:

Date:

9/30/94

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

64/08/24 11:11
 * Sample identification
 945965
 * Initial mass of sample, g
 2.020
 * Volume of sample after extraction, ml
 28.000
 * Petroleum hydrocarbons, ppm
 729.427
 * Net absorbance of hydrocarbons (2930 cm-1)
 0.100





Analytical **Technologies**, Inc.

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

ATI I.D. 408397

August 29, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

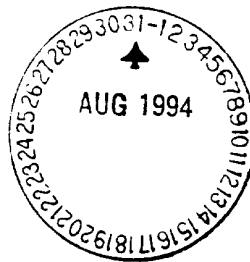
On 08/25/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408397
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945963	NON-AQ	08/18/94	08/25/94	08/26/94	10
02	945964	NON-AQ	08/18/94	08/28/94	08/28/94	1
03	945965	NON-AQ	08/18/94	08/25/94	08/25/94	1
PARAMETER			UNITS	01	02	03
BENZENE			MG/KG	<0.25	<0.025	<0.025
TOLUENE			MG/KG	<0.25	<0.025	0.18
ETHYLBENZENE			MG/KG	1.6	<0.025	0.060
TOTAL XYLENES			MG/KG	15	0.026	0.33

SURROGATE:

BROMOFLUOROBENZENE (%)	147*	90	100
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*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II DRILL

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1

Well #

Page 1 of 1



Project Name EPFS GW PITS

Project Number 17520 Phase 6001.77

Project Location Nellie Platero #6 - 93127

Well Logged By D Cesark

Personnel On-Site Dennis Charley

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4" ID HSA

Air Monitoring Method PID, CGI

Elevation

Borehole Location 2 Ltr II - S27 T9 - R

GWL Depth N/A

Logged By D Cesark

Drilled By M Donohue

Date/Time Started 2/11/97 - 0915

Date/Time Completed 2/11/97 - 1020

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	S/	
0				BACKFILL					1/15	
5				TO						
10				12'						
15	1	13'-15'	18"	WELL-GRADED SANDS, LITTLE OR NO FINES, LT BROWN, NO HC STAIN/ODOR	SW				0/1	0940
20				TD=15'						
25										
30										
35										
40										

Comments:

TD=15' DRC 1+2,3 COLLECTED FROM 13'-15' + SUBMITTED TO LAB FOR TPH + BTEX ANALYSES - BLANK (DRC3) ALSO SUBMITTED. GW NOT ENCOUNTERED. GROUTED BORING TO SURFACE

Geologist Signature



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID DRC1	Lab ID 970088
MTR CODE SITE NAME:	93127	Nellie Platero #6
SAMPLE DATE TIME (Hrs):	2/11/97	940
PROJECT:	Phase II Drilling 13-15'	
DATE OF TPH EXT. ANAL.:	2/13/97	2/13/97
DATE OF BTEX EXT. ANAL.:	2/14/97	2/14/97
TYPE DESCRIPTION:	VG	Moist brown 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)	<10	MG/KG			2.21	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	93.2	%				

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

The Surrogate Recovery was at 89.3 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: 

Date: 2-19-97

EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

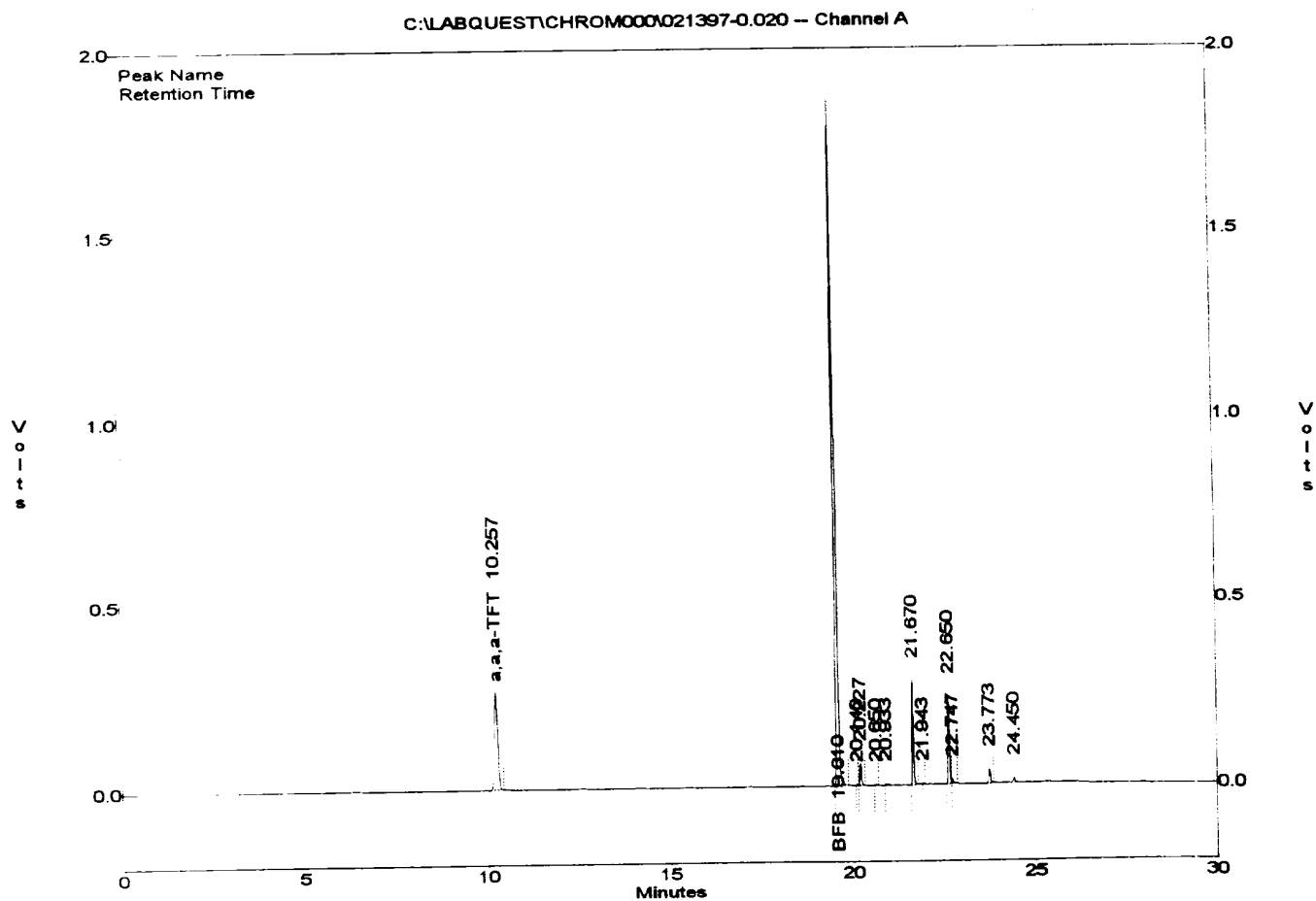
File : C:\LABQUEST\CHROM000\021397-0.020
 Method : C:\LABQUEST\METHODS\0-021297.MET
 Sample ID : 970088.5.01G.50U
 Acquired : Feb 14, 1997 05:12:22
 Printed : Feb 14, 1997 05:42:51
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.050	0	0.0000
a,a,a-TFT	10.257	1682641	89.1612
TOLUENE	12.567	0	0.0000
ETHYLBENZENE	16.790	0	0.0000
M,P-XYLENES	17.170	0	0.0000
O-XYLENE	18.310	0	0.0000
BFB	19.610	6521071	89.2701

Channel A Group Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
TOTAL XYLENES		0	0.0000



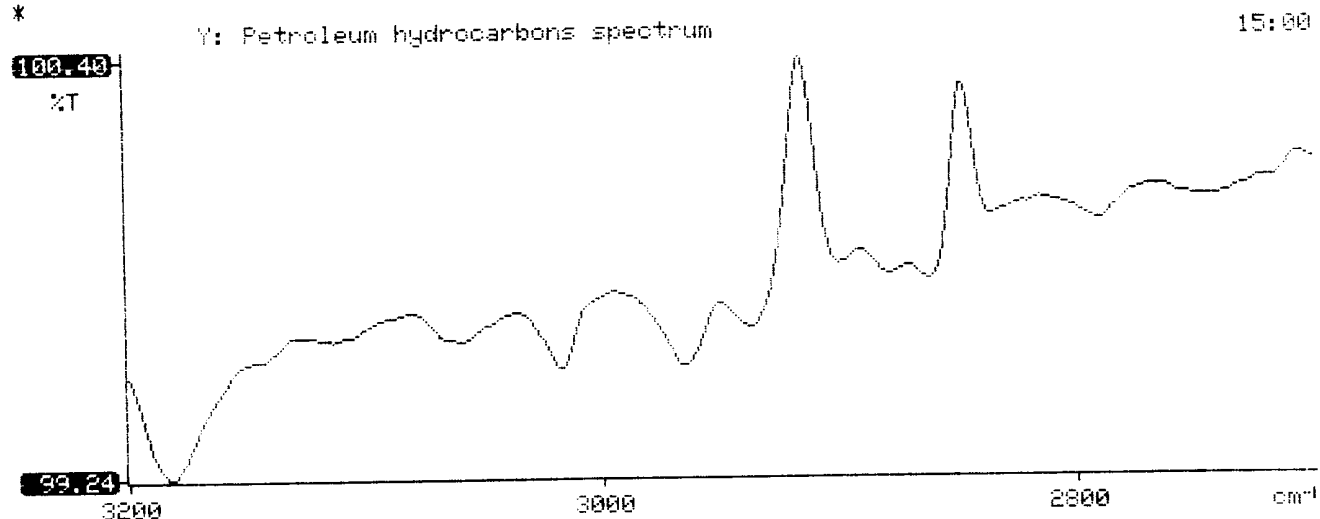
BTEX SOIL SAMPLE WORKSHEET

File	:	970088	Date Printed	:	2/18/97
Soil Mass (g)	:	5.01	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report):	:	0.19960

			DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000	0.499
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000	0.499
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000	0.499
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000	0.998
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000	0.499
			Total xylenes (mg/Kg):	0.000	1.497
			Total BTEX (mg/Kg):	0.000	

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

* 97/02/13 15:00
 *
 * Sample identification
 970088
 *
 * Initial mass of sample, g
 2.210
 *
 * Volume of sample after extraction, ml
 28.000
 *
 * Petroleum hydrocarbons, ppm
 -4.269
 * Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.001
 *
 *
 *





FIELD SERVICES LABORATORY
ANALYTICAL REPORT

DID NOT ENTER
IN DB
note
3-10-97

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	DRC2	970089
MTR CODE SITE NAME:	93127	Nellie Platero #6
SAMPLE DATE TIME (Hrs):	2/11/97	940
PROJECT:	Phase II Drilling 13-15'	
DATE OF TPH EXT. ANAL.:	2/13/97	2/13/97
DATE OF BTEX EXT. ANAL.:	2/14/97	2/14/97
TYPE DESCRIPTION:	Duplicate	Moist brown 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)	<10	MG/KG			2.32	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	94.6	%				

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

The Surrogate Recovery was at 88.1 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

John Loecher

Date:

2-19-97

EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

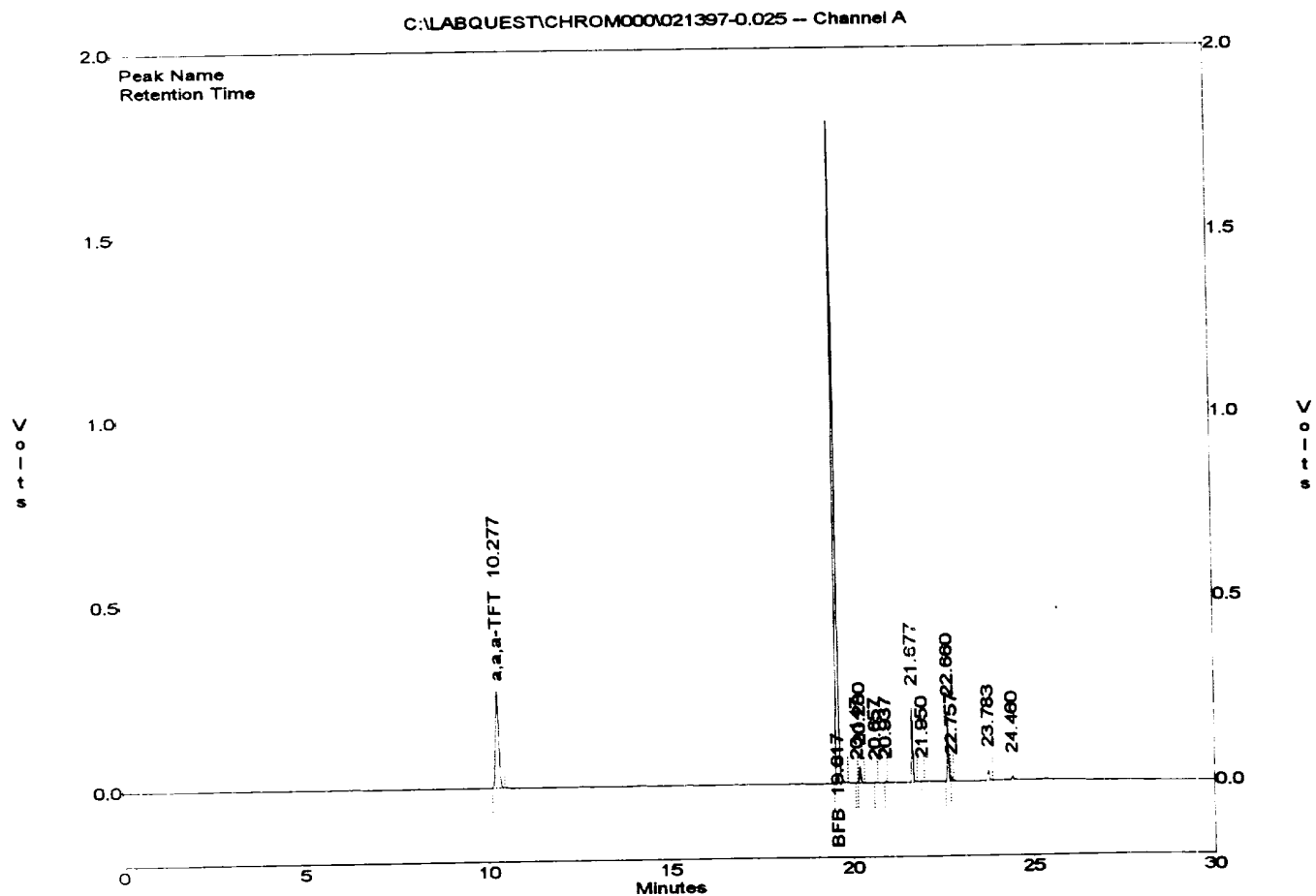
File : C:\LABQUEST\CHROM000\021397-0.025
 Method : C:\LABQUEST\METHODS\0-021297.MET
 Sample ID : 970089,5.45G,50U
 Acquired : Feb 14, 1997 08:39:30
 Printed : Feb 14, 1997 09:09:54
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.050	0	0.0000
a,a,a-TFT	10.277	1617529	85.7110
TOLUENE	12.567	0	0.0000
ETHYLBENZENE	16.790	0	0.0000
M,P-XYLENES	17.170	0	0.0000
O-XYLENE	18.310	0	0.0000
BFB	19.617	6436094	88.1068

Channel A Group Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
TOTAL XYLENES		0	0.0000



BTEX SOIL SAMPLE WORKSHEET

File	:	970089	Date Printed	:	2/18/97
Soil Mass (g)	:	5.45	Multiplier (L/g)	:	0.00092
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report):	:	0.18349

			DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000	0.459
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000	0.459
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000	0.459
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000	0.917
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000	0.459
			Total xylenes (mg/Kg):	0.000	1.376
			Total BTEX (mg/Kg):	0.000	

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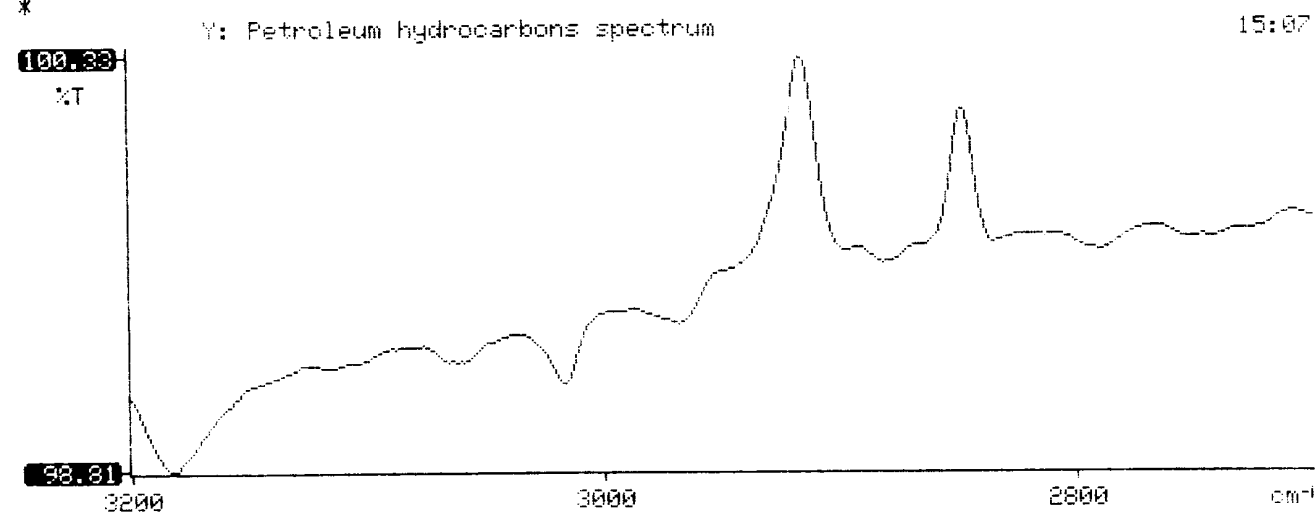
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil      *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                  *
*      Analysis Report      *
*****

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* 97/02/13 15:07
*
* Sample identification
* 970089
*
* Initial mass of sample, g
* 2.320
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* -9.395
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.185
*
*
*

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FIELD SERVICES LABORATORY
ANALYTICAL REPORT

DID NOT ENTER
IN DB
mlu
3-10-97

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID	Lab ID
	DRC3	970090
MTR CODE SITE NAME:	93127	Nellie Platero #6
SAMPLE DATE TIME (Hrs):	2/11/97	950
PROJECT:	Phase II Drilling 13-15'	
DATE OF TPH EXT. ANAL.:	2/13/97	2/13/97
DATE OF BTEX EXT. ANAL.:	2/14/97	2/14/97
TYPE DESCRIPTION:	Blank	Red 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)	<10	MG/KG			2.12	28
HEADSPACE PID	N/A	PPM				
PERCENT SOLIDS	99.7	%				

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

The Surrogate Recovery was at 93.1 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

Date: 2-19-97

EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

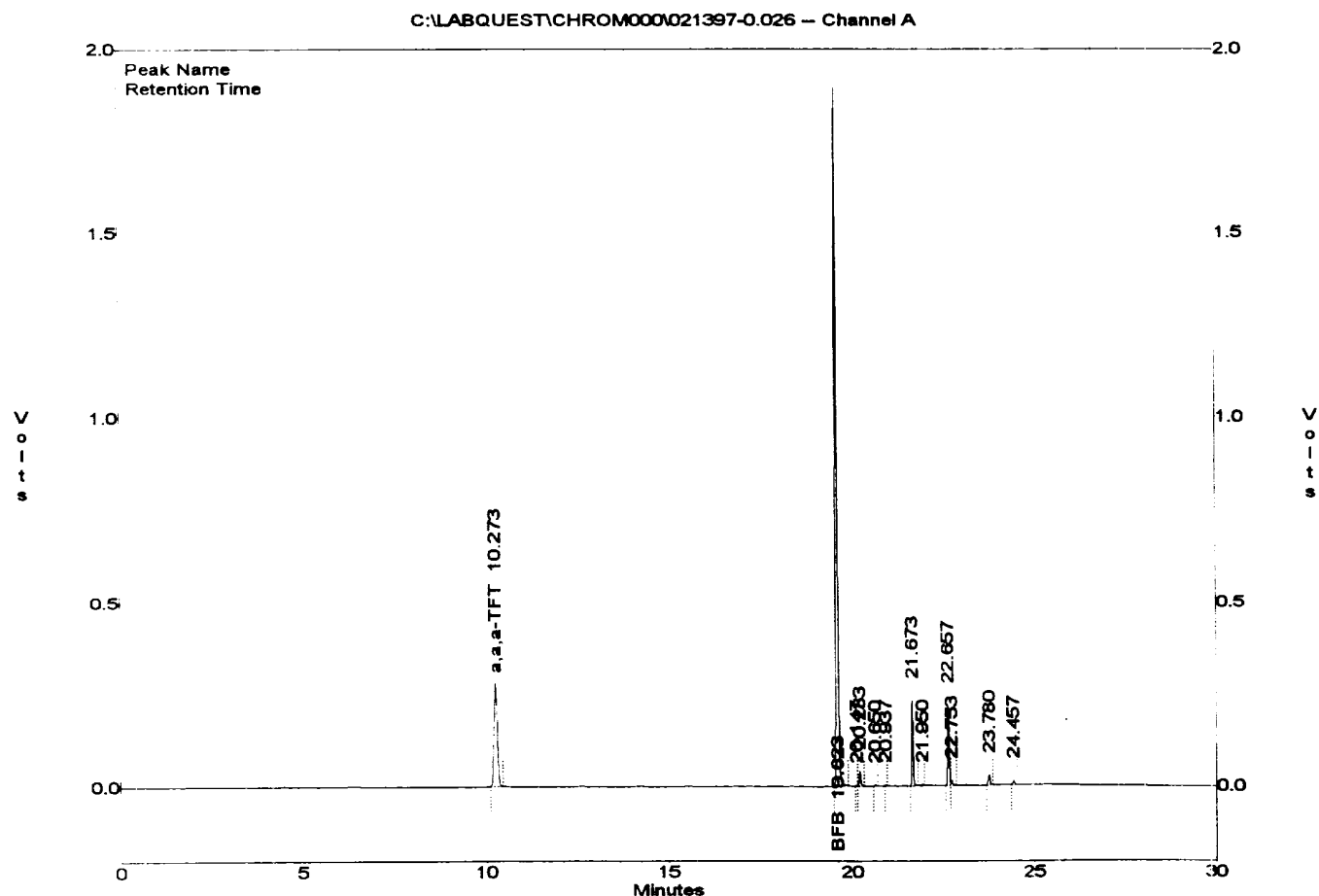
File : C:\LABQUEST\CHROM000\021397-0.026
 Method : C:\LABQUEST\METHODS\0-021297.MET
 Sample ID : 970090.5.42G.50U
 Acquired : Feb 14, 1997 09:20:56
 Printed : Feb 14, 1997 09:51:21
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.050	0	0.0000
a,a,a-TFT	10.273	1780672	94.3558
TOLUENE	12.567	0	0.0000
ETHYLBENZENE	16.790	0	0.0000
M,P-XYLENES	17.170	0	0.0000
O-XYLENE	18.310	0	0.0000
BFB	19.623	6801792	93.1130

Channel A Group Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
TOTAL XYLENES		0	0.0000



BTEX SOIL SAMPLE WORKSHEET

File	:	970090	Date Printed	:	2/18/97
Soil Mass (g)	:	5.42	Multiplier (L/g)	:	0.00092
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report):	:	0.18450

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.461
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.461
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.461
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 0.923
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.461
			Total xylenes (mg/Kg):	0.000 1.384
			Total BTEX (mg/Kg):	0.000

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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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*   97/02/13   15:09
*
*   Sample identification
*   970090
*
*   Initial mass of sample, g
*   2.120
*
*   Volume of sample after extraction, ml
*   28.000
*
*   Petroleum hydrocarbons, ppm
*   -10.281
*   Net absorbance of hydrocarbons (2930 cm-1)
*   0.185
*
*
*

```

