Denny Foust
DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

RECEIVED
JUL 2 1998
OIL CON. DIV.

ok

JOSE JAQUEZ #1 (Pit #1)
Meter/Line ID - 73352

Approved

SITE DETAILS

Legals - Twn: 30 **Rng:** 12 **Sec:** 24 **Unit:** K
NMOCD Hazard Ranking: 30
Operator: MERIDIAN OIL INC
Land Type: 4 - Fee
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: 73352 Location: Jose Jaquez #1 (Pit #2)

Operator #: 1987 Operator Name: McRae P/L District: Kutz

Coordinates: Letter: K Section 24 Township: 30 Range: 12

Or Latitude _____ Longitude _____

4-18-94 MK

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

Site Visit Date: 4-13-94 Run: 02 71

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside Vulnerable Zone [X]
Outside [ ]

Land Type:
BLM [ ]
State [ ]
Fee [X]
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) [ ]
50 Ft to 99 Ft (10 points) [ ]
Greater Than 100 Ft (0 points) [X]

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) [X] NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) [ ]
200 Ft to 1000 Ft (10 points) [X]
Greater Than 1000 Ft (0 points) [ ]
Name of Surface Water Body Private Pond / Echo Ditch
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 10 **POINTS**

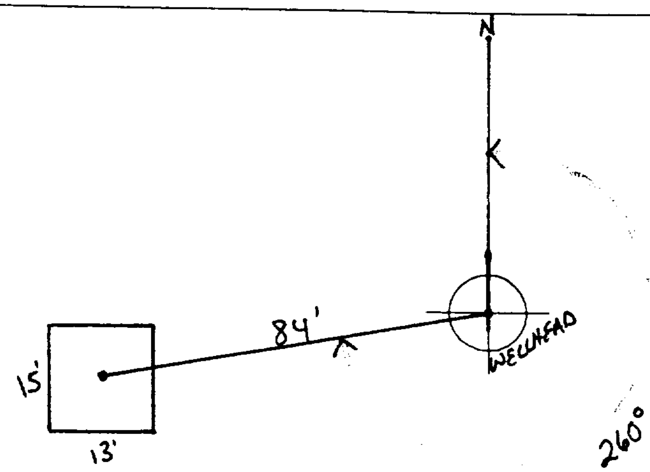
REMARKS

Remarks : 3 Pits on location, will close Two of Them Pits To Close are Just 200-300 Ft N of private Pond Pits are Dry

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 260° Footage to Wellhead 84'
b) Degrees from North ______ Footage to Dogleg ______
Dogleg Name ______
c) Length : 15' Width : 13' Depth : 2'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 2:12 P.M.

~~DUMP [illegible]~~

Completed By:

____
Signature

____
Date

4-22-94
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73352 Location: JOSE JAQUEZ #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: 73352 Location: Jose Jaquez #1 (Pit #2)

Coordinates: Letter: K Section 24 Township: 30 Range: 12

Or Latitude _____ Longitude _____

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

FIELD OBSERVATIONS

Sample Number(s): 945015 KD 29 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 126 ppm PID Reading Depth 12' Feet

Yes No

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

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 50

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: BEI

REMARKS

Remarks : Hit Contamination At 8' Dug to 12' Took PID Reading Closed Pit.

Signature of Specialist: Kyle Flores

(SP3191) 04/07/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD29	945015
MTR CODE | SITE NAME:	73352	N/A
SAMPLE DATE | TIME (Hrs):	4/25/94	1155
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 Fine Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG				
TOLUENE	<0.025	MG/KG				
ETHYL BENZENE	<0.025	MG/KG				
TOTAL XYLENES	0.077	MG/KG				
TOTAL BTEX	0.152	MG/KG				
TPH (418.1)	78.2	MG/KG			2.0	28
HEADSPACE PID	126	PPM				
PERCENT SOLIDS	92	%				

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

The Surrogate Recovery was at 93 % for this sample All QA/QC was acceptable.

Narrative: ATI Results attached

DF = Dilution Factor Used

Approved By: John Parks Date: 5/21/94

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

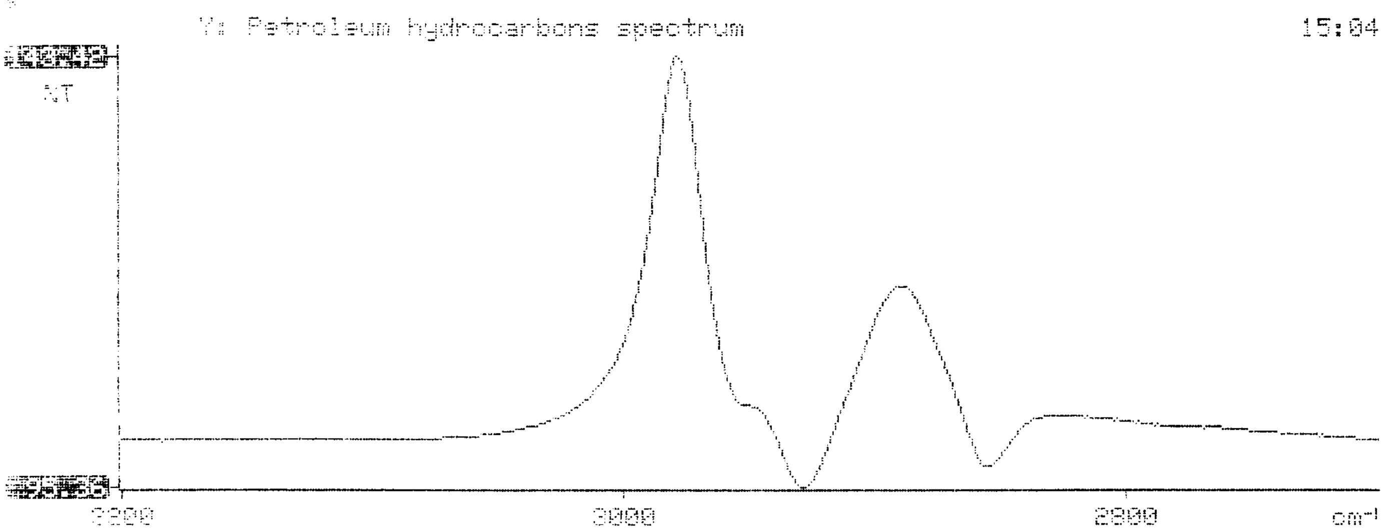
TEST : BTEX, MTBE (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405313
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

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

```
******************************************************
*                  Test Method for                   *
*    Oil and Grease and Petroleum Hydrocarbons       *
*               in Water and Soil                    *
*                                                    *
*           Perkin-Elmer Model 1600 FT-IR            *
*                  Analysis Report                   *
******************************************************
*
 94/04/28  15:04
*
*  Sample identification
 945015
*
*  Initial mass of sample, g
 1.000
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 78.208
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.024
*
*
*
```



Analytical Technologies, Inc.

Albuquerque Office: 2709-D Pan American Fwy., N E
Albuquerque, NM 87107
(505) 344-3777

Remit To:
Analytical Technologies, Inc.
P. O. Box 840436
Dallas, Texas 75284-0436

COPY

ORIGINAL

INVOICE

AL 72053

Billed to: EL PASO NATURAL GAS COMPANY
P.O. BOX 4990
FARMINGTON, NM 87499

Accession No.: 9405-313
Date: 05/13/94
Client No.: 850-020
810

Attention: ACCOUNTS PAYABLE

Telephone: 505-325-2841

Authorized by: JOHN LAMBDIN

P.O. Number: 38822

Samples: 39 NON-AQ

Project: PIT CLOSURE
Project No.: 24324

EPNG Sample # 945008 to 945027
945032, 945033, 945035 to 945039, 945041 to 945050, 945034 and 945040 received 05/03/94

TEST DESCRIPTION	QUANTITY		PRICE	TOTAL
EPA METHOD 8015M/8020	-10 %	1	125.00	112.50
BTEX/MTBE (8020)	-10 %	38	80.00	2736.00
NM GROSS RECEIPTS TAX		1	165.57	165.57
			**********	**********
			Amount due:	3014.07
			**********	**********

MAY 1994 RECEIVED

5/17/94
APPROVED FOR PAYMENT

DATE 50% 108-52452-24-0001-0012-S1-2010
CHARGE 50% 108-51570-24-0001-0012-S1-2010

SIGNATURE

David Hall
541-3531

TERMS: Net 30 Days - 1½% Finance Charge on Balance Due over 30 days.

DISTRIBUTION: White-Customer, Yellow-File, Pink-Accounting

[redacted]

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 73352 Location: Jose Jaquez #1 (Pit #1)

Coordinates: Letter: K Section 24 Township: 30 Range: 12

Or Latitude _____ Longitude _____

Date Started: 4-25-94 Area: 62 Run: 71

FIELD OBSERVATIONS

Sample Number(s): KD28

Sample Depth: 12' Feet

Final PID Reading 594 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: BEI

REMARKS

Remarks: Pit Contamination visible to 12' At 12'
Took PID Reading; Closed Pit

Signature of Specialist: Kenny Dean

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73352 Location: JOSE JAQUEZ # 1 (Pit #1)

Operator #: 1987 Operator Name: MERIDIAN P/L District: KUTZ

Coordinates: Letter: K Section 24 Township: 30 Range: 12

Or Latitude _____ Longitude _____

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

Site Visit Date: 3-22-94 Run: 02 21

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 PRIVATE POND / ECHO DITCH
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 10 **POINTS**

REMARKS

Remarks : 3 PITS ON LOCATION, WILL CLOSE ONLY ONE. PIT TO CLOSE IS JUST 200-300 FT. E. OF PRIVATE POND. PIT IS DRY.

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD25	~~945~~ 945014 (4/28/94)
MTR CODE | SITE NAME:	~~73352~~ ~~70769~~	N/A
SAMPLE DATE | TIME (Hrs):	4/25/94 73352	1100
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 Sand/Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.12	MG/KG				
TOLUENE	<0.12	MG/KG				
ETHYL BENZENE	1.4	MG/KG				
TOTAL XYLENES	37	MG/KG				
TOTAL BTEX	38.6	MG/KG				
TPH (418.1)	7830 ~~7834~~ (AND 5/14/94)	MG/KG			1.27	28
HEADSPACE PID	594	PPM				
PERCENT SOLIDS	86	%				

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

The Surrogate Recovery was at 111 % for this sample All QA/QC was acceptable.

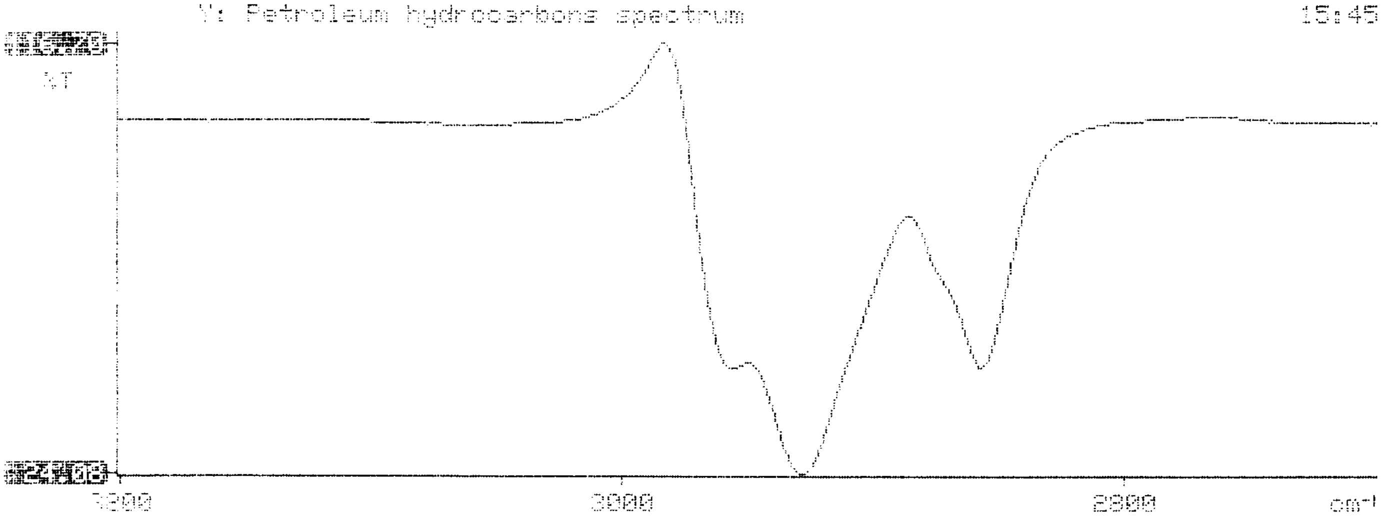
Narrative: ATI results attached

DF = Dilution Factor Used

Approved By: John Lambdin 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                   *
*****************************************************
*
 94/04/28  15:45
*
*  Sample identification
 945014
*
*  Initial mass of sample, g
 1.270
*
*  Volume of sample after extraction, ml
 25.000
*
*  Petroleum hydrocarbons, ppm
 7334.159
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.617
*
*
*
```

Y: Petroleum hydrocarbons spectrum 15:45



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

Analytical Technologies, Inc.

COPY

ORIGINAL

INVOICE

AL 72053

Albuquerque Office: 2709-D Pan American Fwy., N E
Albuquerque, NM 87107
(505) 344-3777

Remit To:
Analytical Technologies, Inc.
P. O. Box 840436
Dallas, Texas 75284-0436

Billed to: EL PASO NATURAL GAS COMPANY
P.O. BOX 4990
FARMINGTON, NM 87499

Accession No.: 9405-313
Date: 05/13/94
Client No.: 850-020
810

Attention: ACCOUNTS PAYABLE

Telephone: 505-325-2841

Authorized by: JOHN LAMBDIN

P.O. Number: 38822

Samples: 39 NON-AQ

Project: PIT CLOSURE
Project No.: 24324

EPNG Sample # 945008 to 945027
945032, 945033, 945035 to 945039, 945041 to 945050, 945034 and 945040
received 05/03/94

TEST DESCRIPTION	QUANTITY		PRICE	TOTAL
EPA METHOD 8015M/8020	-10 %	1	125.00	112.50
BTEX/MTBE (8020)	-10 %	38	80.00	2736.00
NM GROSS RECEIPTS TAX		1	165.57	165.57

MAY 1994 RECEIVED

****
Amount due: 3014.07
****

5/17/94
APPROVED FOR PAYMENT

DATE _____
CHARGE 50% 108-52452-24-0001-0012-51-2010
50% 108-51570-24-0001-0012-51-2010

SIGNATURE _____
David Hall
541-3531

TERMS: Net 30 Days - 1½% Finance Charge on Balance Due over 30 days.

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 Jose Jaquez #1 73352
PIT # 1 (Dehy)

Elevation
Borehole Location QK - S24 - T30 - R12
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 11/8/95 - 1220
Date/Time Completed 11/8/95 - 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'						
5										Some cobbles in Backfill
10										
15	1	15-17	12	Br CLAY, tr vf sand, v. soft, high plasticity, moist			0	0	0/0	1437 hr
20				TD 17'						
25										
30										
35										
40										

Comments: CMC185(15-17') sent to lab. (BTEX, TPH). BH grouted to surface. Hit cobbles @ 5' on first 2 borings. Third boring did not hit cobbles

Geologist Signature Cmy 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:	CMC 185	94776
MTR CODE | SITE NAME:	73352	Jose Jaquez #1
SAMPLE DATE | TIME (Hrs):	11-08-95	1437
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	11/9/95	
DATE OF BTEX EXT. | ANAL.:	11/9/95	11/9/95
TYPE | DESCRIPTION:	VG	BROWN CLAY

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			2.0	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	78.5	%				

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

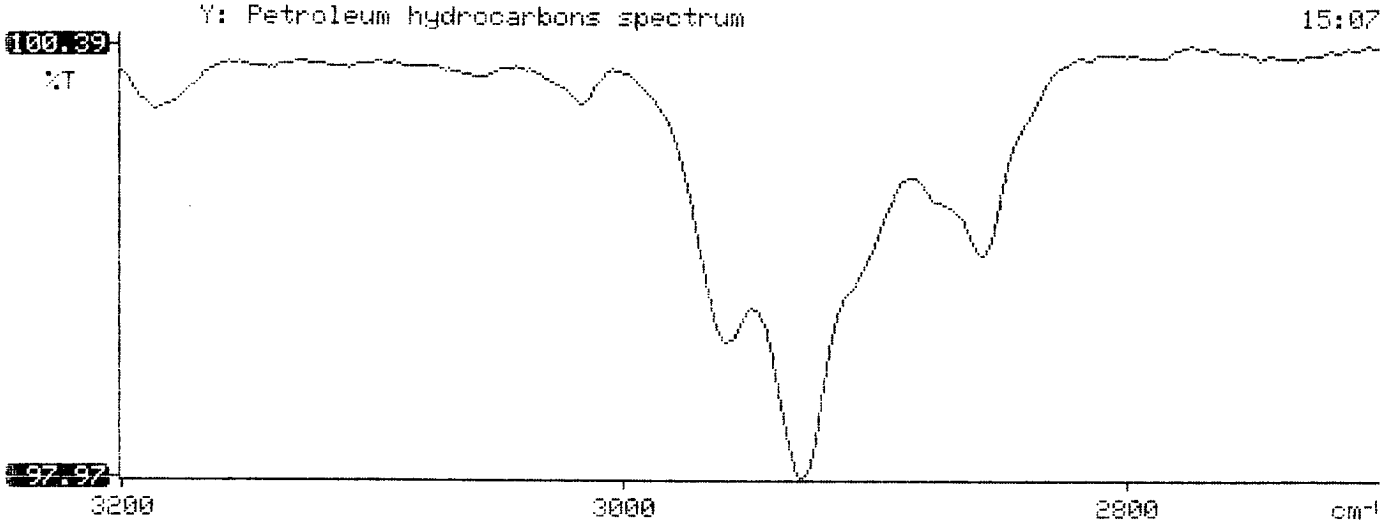
The Surrogate Recovery was at 112 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 11-15-95

```
**********************************************************
*                    Test Method for                     *
*      Oil and Grease and Petroleum Hydrocarbons         *
*                   in Water and Soil                    *
*                                                        *
*             Perkin-Elmer Model 1600 FT-IR              *
*                    Analysis Report                     *
**********************************************************
*
 95/11/09  15:07
*
*  Sample identification
 947765
*
*  Initial mass of sample, g
 2.000
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 -0.343
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.010
*
*
*
```



BTEX SOIL SAMPLE WORKSHEET

File :	947765	**Date Printed** :	11/10/95
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) :	0.14	**Benzene (mg/Kg):**	**0.028**	0.499
Toluene (ug/L) :	0.61	**Toluene (mg/Kg):**	**0.122**	0.499
Ethylbenzene (ug/L) :	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.499
p & m-xylene (ug/L) :	0.23	p & m-xylene (mg/Kg):	0.046	0.998
o-xylene (ug/L) :	0.11	o-xylene (mg/Kg):	0.022	0.499
		Total xylenes (mg/Kg):	**0.068**	1.497
		Total BTEX (mg/Kg):	**0.218**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\110995-0.013
Method : C:\LABQUEST\METHODS\0-110295.MET
Sample ID : 947765,5.01G,50U
Acquired : Nov 09, 1995 19:48:29
Printed : Nov 09, 1995 20:18:51
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.353	66698	0.1367
TOLUENE	12.977	330425	0.6127
ETHYLBENZENE	17.303	0	0.0000
M,P-XYLENES	17.623	127779	0.2336
O-XYLENE	18.793	49859	0.1096
BFB	19.823	58967368	111.5598