Denny
DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

RECEIVED
JUL

FLORANCE #93
Meter/Line ID - 75800

SITE DETAILS

Legals - Twn: 30 **Rng:** 09 **Sec:** 30 **Unit:** C
NMOCD Hazard Ranking: 20 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/09/94**

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: 75800 Location: FLORANCE #93
Operator #: 0203 Operator Name: Amoco P/L District: BLOOMFIELD
Coordinates: Letter: C Section 30 Township: 30 Range: 9
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 4.19.94 Area: 10 Run: ~~43~~ 33 4.24.94 PT

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: 0 **POINTS**

REMARKS

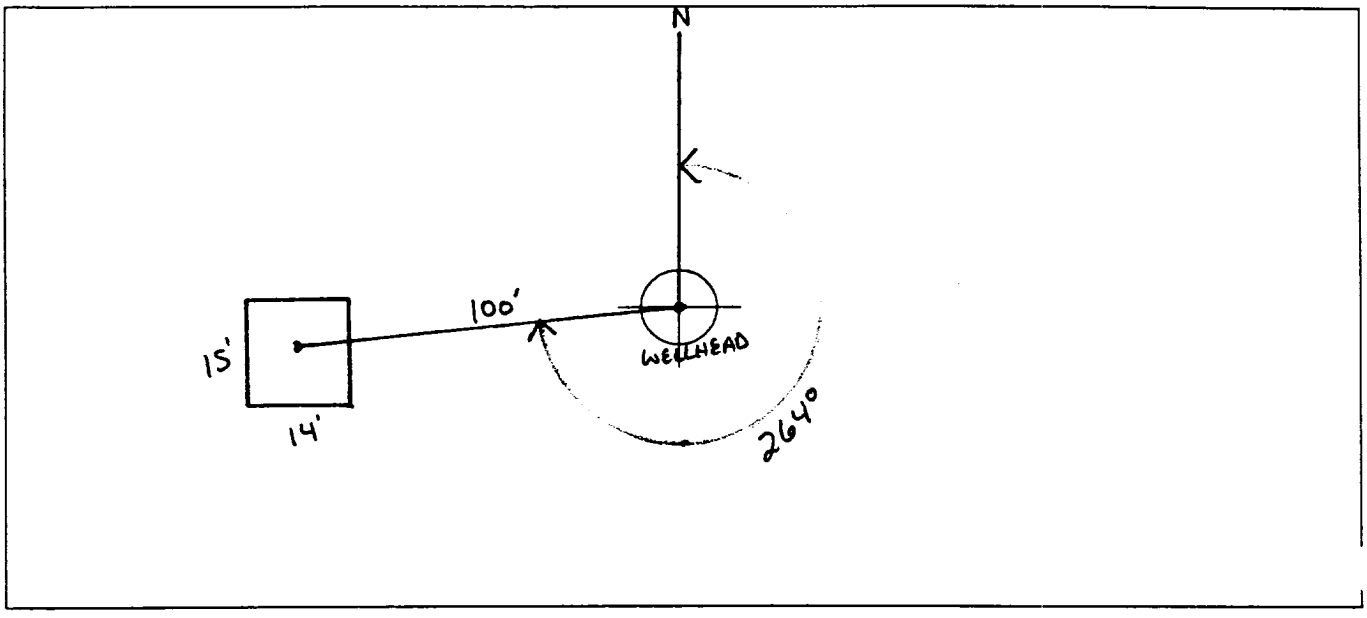
Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. DO NOT KNOW WHY THIS LOCATION IS IN THE WATER VULNERABLE ZONE.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 264° Footage from Wellhead 100'

b) Length : 15' Width : 14' Depth : 3'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 10:46 A.M.

DUMP TRUCK - BOBTAIL - SANDY LOCATION

Completed By:

Robert Thompson

Signature

Date

4.22.94
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75800 Location: FLORANCE #93
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: 10 Run: 43

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

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75800 Location: Florance #93

Coordinates: Letter: C Section 30 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-9-94 Area: 10 Run: ~~43~~ 33 SP 5/10/94

OBSERVATIONS

Sample Number(s): KD47 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 271 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: 5-9-94 Pit Closed By: BET

REMARKS

Remarks : Location + Pit were very Sandy. Excavated Pit to 12'; Took PID Reading, closed pit.

Signature of Specialist: Kenny Dean

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD47	945099
MTR CODE | SITE NAME:	75800	N/A
SAMPLE DATE | TIME (Hrs):	5/9/94	1000
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5/10/94	5/10/94
DATE OF BTEX EXT. | ANAL.:	5/12/94	5/17/94
TYPE | DESCRIPTION:	VC	Grey Coarse Sand/Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	14	MG/KG				
TOLUENE	350	MG/KG				
ETHYL BENZENE	62	MG/KG				
TOTAL XYLENES	600	MG/KG				
TOTAL BTEX	1030	MG/KG				
TPH (418.1)	8680	MG/KG			.78	28
HEADSPACE PID	271	PPM				
PERCENT SOLIDS	90.0	%				

-- 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: ATI Results attached.

DF = Dilution Factor Used

Approved By: John Fowler Date: 6/15/94

****

Test Method for

Oil and Grease and Petroleum Hydrocarbons

in Water and Soil

Perkin-Elmer Model 1600 FT-IR

Analysis Report

****

[illegible] 14:28

Sample Identification

[illegible]

Initial mass of sample, g

[illegible]

Volume of sample after extraction, ml

10.000

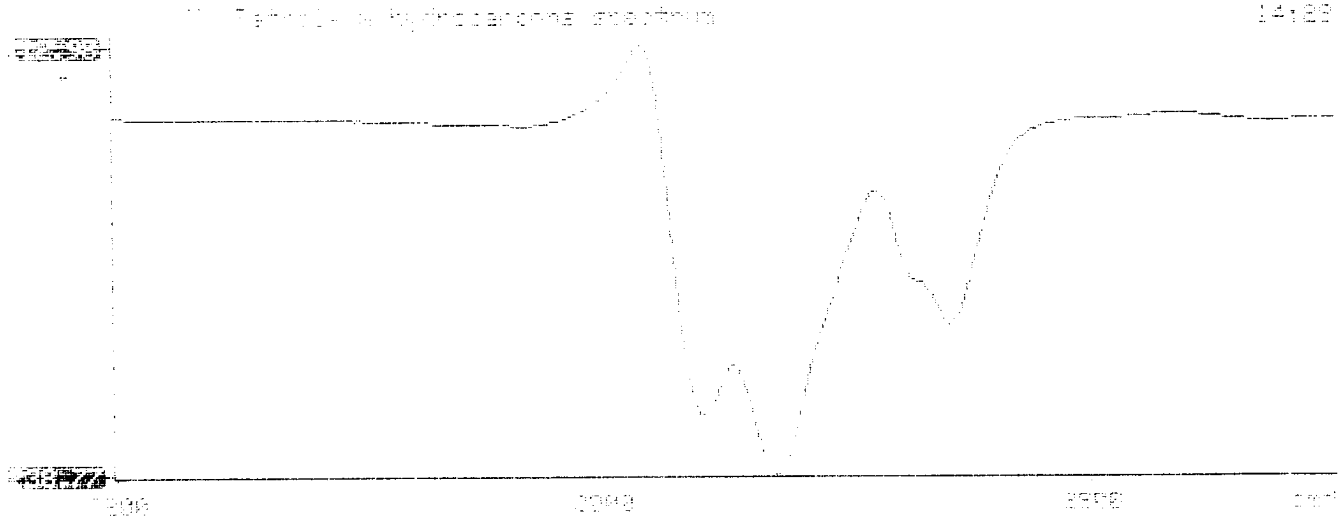
Petroleum hydrocarbons, ppm

[illegible]

Net absorbance of hydrocarbons (2930 cm-1)

[illegible]

Petroleum hydrocarbons spectrum 14:28



Analytical Technologies, Inc.

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

ATI I.D. **405343**

May 27, 1994

El Paso Natural Gas Company
770 W. Navajo
Farmington, NM 87401

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/11/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** and **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.

Client instructed ATI (verbally) to perform a TRPH (418.1) analysis on field ID 945100 (ATI ID 405343-24).

Client instructed ATI (verbally) to continue analysis on field ID 940831 (ATI ID 405343-25) past hold time, as received.

Client was informed that field ID 945085 (ATI ID 405343-01) was received with headspace. Samples were analyzed "as is."

This report is being reissued to correct sample ID's.

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 (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405343

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
23	945099	NON-AQ	05/09/94	05/12/94	05/17/94	20
24	945100	NON-AQ	05/09/94	05/12/94	05/15/94	20
25	940831	NON-AQ	04/19/94	05/12/94	05/15/94	1

PARAMETER	UNITS	23	24	25
BENZENE	MG/KG	14	<0.50	<0.025
TOLUENE	MG/KG	350	14	0.10
ETHYLBENZENE	MG/KG	62	11	<0.025
TOTAL XYLENES	MG/KG	600	150	0.073
SURROGATE:				
BROMOFLUOROBENZENE (%)		101	167*	96

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 2 of 2

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 Florance 93 75800

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By ~~M DONOHUE~~ K. Padilla
Date/Time Started 6/15/95 - 0725
Date/Time Completed 6/15/95 - 1130

Well Logged By CM Chance
Personnel On-Site K. Padilla, F. Rivera, D. Tsalaya
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
40										
45	7	45-47	14"	Gry silty SAND, vF-F sand, tr med sand, loose, sl moist, odor			3	660	1633/1858	0836 hr
50	8	50-52	14"	lt Grn silty SAND, vF-F sand, tr med sand, loose, sl moist, odor			04	118	1106/1902	0858
55	9	55-57	14"	lt Grn Silty SAND, vF-F sand, tr med sand, loose, sl moist, tr clay seams, blk silty clay			0	30	40/24	0938
60	10	60-62	12"	AA			0	18	13/10	0957
				TOB 62'						
65										
70										
75										
80										

Comments: 60-62' sample (CM(56) sent to lab, (BTEX, TPH). BH grouted to surface
(Sample bagged iced prior to containerization)

Geologist Signature

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 2

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 Florance 93 75800

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By ~~M DONOHUE~~ K. Padilla
Date/Time Started 6/15/95 - 0725
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Well Logged By CM Chance
Personnel On-Site K. Padilla, F. Rivera, D. Tsalyk
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 12'						
15	1	15-17	8"	BLK silty SAND, vf-f sand, tr med sand, sl moist, odor, loose			0	400	2100 / 1721	0731
20	2	20-22	8"	BLK sandy CLAY, vf-f sand, soft, sl moist, odor, med plastic			0	290	1972 / 1333	0737
25	3	25-27	8"	Gry sandy CLAY, vf sand, soft, med plastic, moist, odor			0	800	1200 / 1046	0745
30	4	30-32	12"	BLK silty SAND, vf-f sand, tr med sand loose, odor			0	400	772 / 1837	0750
35	5	35-37	12"	AA			2	650	1109 / 1689	0801
40	6	40-42	12	AA			4	118	1702 / 1826	0810

Comments:

Geologist Signature

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 56	94[illegible]906
MTR CODE | SITE NAME:	75800	N/A
SAMPLE DATE | TIME (Hrs):	6-15-95	0957
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-19-95	
DATE OF BTEX EXT. | ANAL.:	6-21-95	6-22-95
TYPE | DESCRIPTION:	VG	Brown/grey Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	<0.025	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	36.2	MG/KG			2.04	28
HEADSPACE PID	10	PPM				
PERCENT SOLIDS	94.7	%				

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

The Surrogate Recovery was at 90 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results Attached

DF = Dilution Factor Used

Approved By: _____ Date: 7/11/95

```
**********************************************************
*                    Test Method for                     *
*      Oil and Grease and Petroleum Hydrocarbons         *
*                    in Water and Soil                   *
*                                                        *
*            Perkin-Elmer Model 1600 FT-IR               *
*                    Analysis Report                     *
**********************************************************
*
 95/06/19  12:05
*
*  Sample identification
 946906
*
*  Initial mass of sample, g
 2.040
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 36.175
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.015
*
*
*
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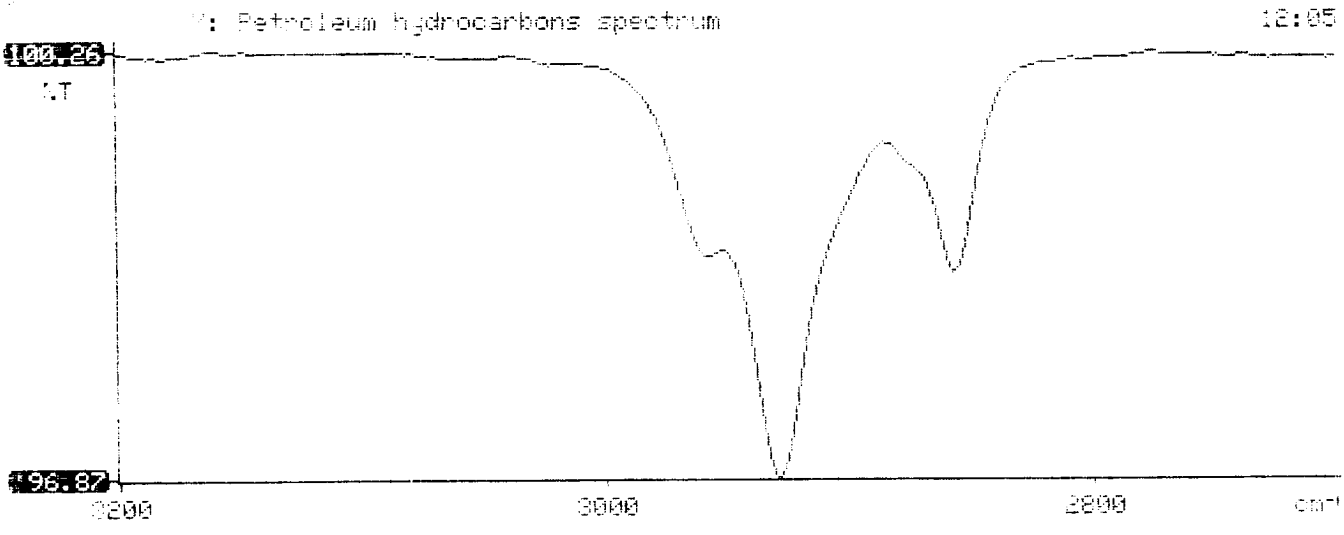


Analytical **Technologies,** Inc.

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

ATI I.D. **506387**

June 27, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/21/95**, 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.

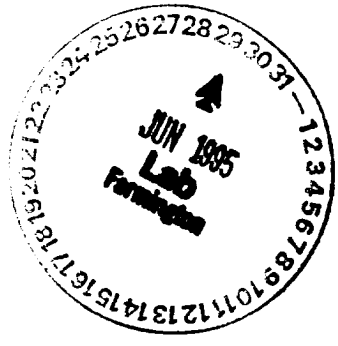
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:gsm

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506387
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946906	NON-AQ	06/15/95	06/21/95	06/22/95	1
02	946907	NON-AQ	06/15/95	06/21/95	06/22/95	1
03	946908	NON-AQ	06/15/95	06/21/95	06/22/95	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	0.038
TOTAL XYLENES	MG/KG	<0.025	<0.025	0.28
SURROGATE:				
BROMOFLUOROBENZENE (%)		90	89	95