Jerry Kautz
DEPUTY OIL & GAS INSPECTOR
DEC 21 1998
Approved

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

RECEIVED
JUL 2 1998
OIL CON. DIV.

HEATH GAS COM L#1
Meter/Line ID - 75867

SITE DETAILS

Legals - Twn: 30 **Rng:** 09 **Sec:** 32 **Unit:** B
NMOCD Hazard Ranking: 30 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/02/94**

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: 75867 Location: HEATH GAS COM L #1

Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD

Coordinates: Letter: B Section 32 Township: 30 Range: 9

Or Latitude _____ Longitude _____

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

Site Visit Date: 4·14·94 Run: 10 83

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 : ONLY PIT ON LOCATION. PIT IS DRY. DO NOT KNOW WHY LOCATION IS IN THE WATER VULNERABLE ZONE.

ORIGINAL PIT LOCATION

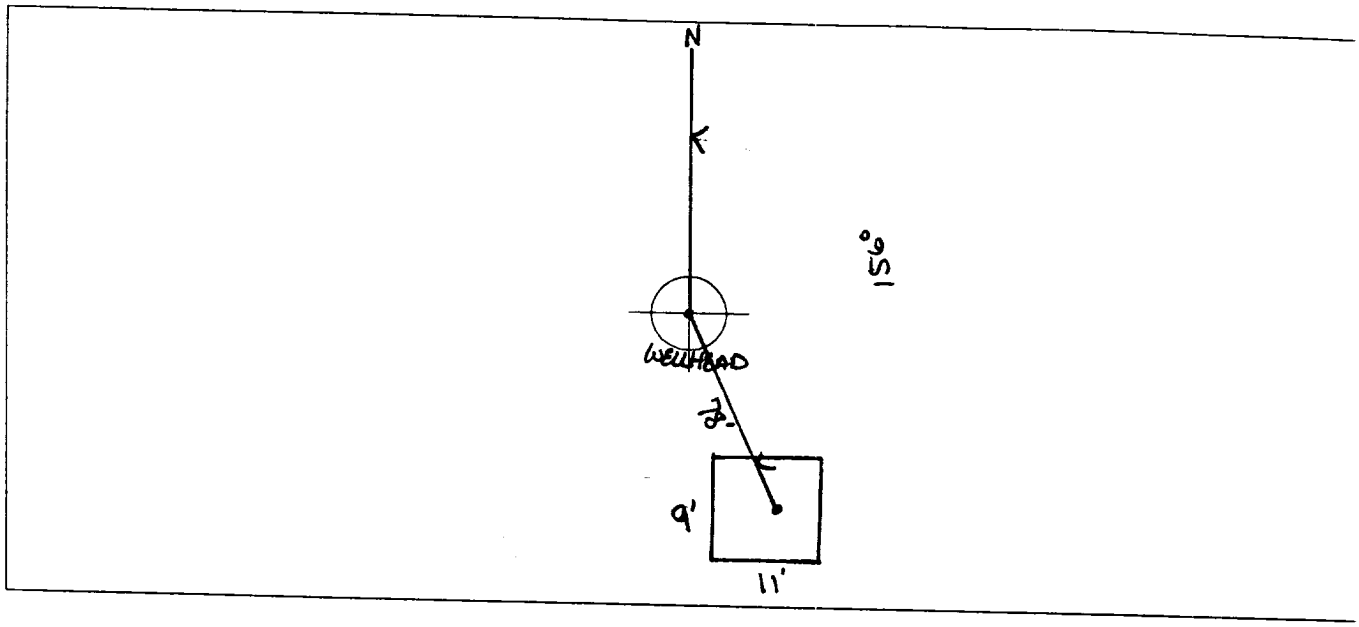
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 156° Footage to Wellhead 78'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 11' Width : 9' Depth : 2'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 2:02 P.M.
END DUMP

Completed By:

Robert Thompson
Signature

4.14.94
Date

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75862 Location: HEATH GAS COM I #1

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

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

Or Latitude _____ Longitude _____

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

Site Assessment Date: _____ Area: 10 Run: 83

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: MANSFIELD CANYON

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

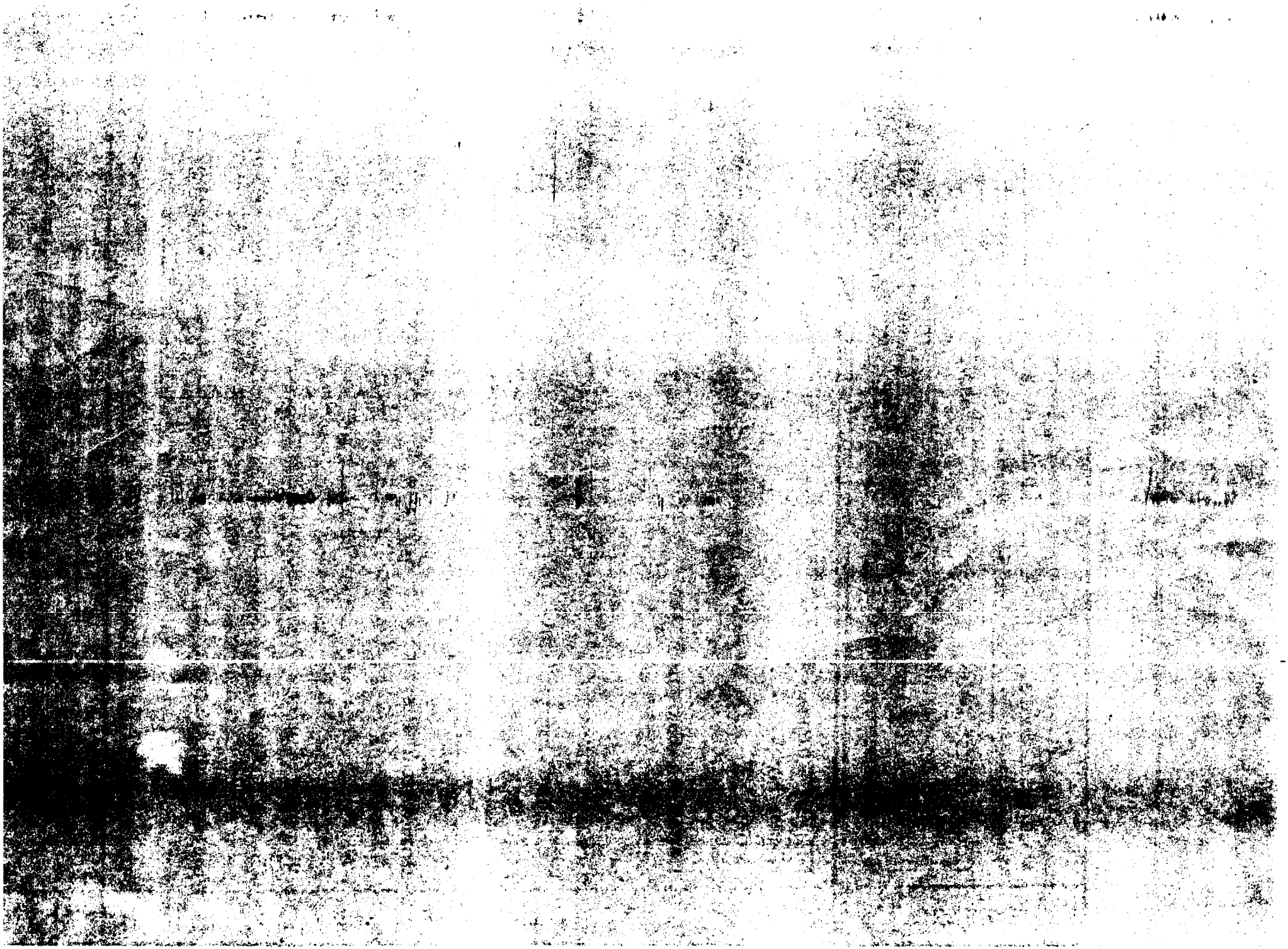
Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)

☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 30 **POINTS**

REMARKS

Remarks: _____



PHASE I
EXCAVATION

FIELD IT REMEDIATION/CLOSUR FORM

GENERAL

Meter: 25867 Location: Heath Gas Com L #1

Coordinates: Letter: B Section 32 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-2-94 Area: 10 Run: 83

FIELD OBSERVATIONS

Sample Number(s): 945057 4P11 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 365 ppm PID Reading Depth 12 Feet

Yes No

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

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 45

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 5-2-94 Pit Closed By: KEI

REMARKS

Remarks : Started Remediating pit to 12'. Took VC sample PID Reading was 365 ppm at 8½'. East wall still Black. Closed pit.

Signature of Specialist: James L Powers

(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:	JP11	945057
MTR CODE | SITE NAME:	75867	N/A
SAMPLE DATE | TIME (Hrs):	5/2/94	1420
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5/5/94	5/5/94
DATE OF BTEX EXT. | ANAL.:	5/9/94	5/12/94
TYPE | DESCRIPTION:	VC	Brown Sand & Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.2	MG/KG	50			
TOLUENE	<1.2	MG/KG	50			
ETHYL BENZENE	4.2	MG/KG	50			
TOTAL XYLENES	64	MG/KG	50			
TOTAL BTEX	70.6	MG/KG				
TPH (418.1)	851	MG/KG			2.08	28
HEADSPACE PID	365	PPM				
PERCENT SOLIDS	86.8	%				

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

The Surrogate Recovery was at 50 % for this sample All QA/QC was acceptable.

Narrative: ATI BTEX Results attached. Surrogate Recovery Outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By: John Landi Date: 7/14/94

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

24/02/05 12:33

Sample identification
545057

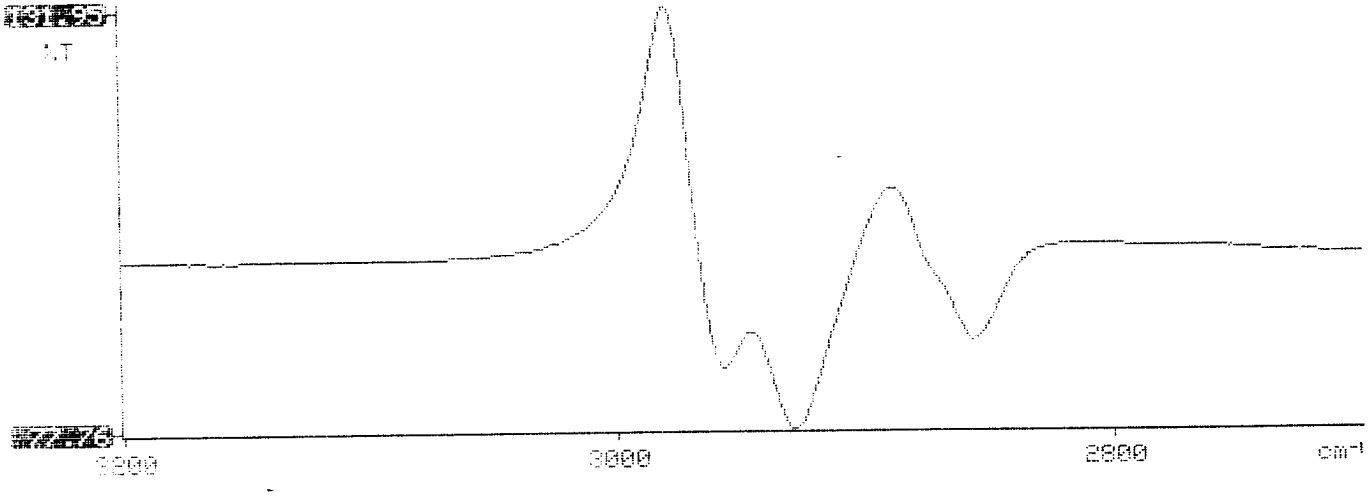
Initial mass of sample, g
2.000

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
851.393

Net absorbance of hydrocarbons (2930 cm-1)
0.109

Y: Petroleum hydrocarbons spectrum 18:33



Analytical Technologies, Inc.

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

ATI I.D. **405331**

May 19, 1994

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

Project Name/Number: PIT PROJECT 24324

Attention: John Lambdin

On **05/06/94**, 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.

Upon arrival, it was noted that sample 945055 contained headspace. The client was notified and the sample was analyzed "as is."

The laboratory was instructed to correct the sampling data for sample 945075 to 05/04/94.

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:jd

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405331
PROJECT # : 24324
PROJECT NAME : PIT PROJECT

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
08	945056	NON-AQ	05/02/94	05/09/94	05/13/94	25
09	945057	NON-AQ	05/02/94	05/09/94	05/12/94	50
10	945058	NON-AQ	05/02/94	05/09/94	05/13/94	50

PARAMETER	UNITS	08	09	10
BENZENE	MG/KG	<0.62	<1.2	17
TOLUENE	MG/KG	<0.62	<1.2	420
ETHYLBENZENE	MG/KG	3.1	4.2	66
TOTAL XYLENES	MG/KG	36	64	690
SURROGATE: BROMOFLUOROBENZENE (%)		103	50*	160*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE E... LORATION

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 6DDD 77
Project Location Heath Gas Com #1 75867

Elevation
Borehole Location
GWL Depth
Logged By CM Chance
Drilled By M. Donahue
Date/Time Started 5/22/95 - 0750
Date/Time Completed 5/22/95 - 0855

Well Logged By CM Chance
Personnel On-Site M. Donahue, K. Padilla, E. Rivera
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼" 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~~ ppm BZ	BH	~~FS~~ S	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	6"	Gry, silty CLAY, med stiff, nonplastic, dry			6	13	216/1046	0805 Driving Harder
20	2	20-22	10"	Gry silty CLAY, med stiff, nonplastic, dry, tr Ox staining			12	108	140/1140	0815 Hard Driving
25	3	22.5-23.5	8"	A/A			11	120	210/1112	Refusal @ 22.5' 0829
				TDB 22.5'						
30										
35										
40										

Comments: 22.5-23.5' sample submitted for lab analysis (BTEX, TPH) CMC15
Refusal @ 22.5'
6-94# bags Type I II cement, .5-50# bag bentonite

Geologist Signature

Phase II

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 15	946826
MTR CODE | SITE NAME:	75867	N/A
SAMPLE DATE | TIME (Hrs):	5-22-95	0828
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-23-95	5-23-95
DATE OF BTEX EXT. | ANAL.:	5-24-95	5-26-95
TYPE | DESCRIPTION:	VG	Light grey sandstone

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	0.036	MG/KG	1			
TOTAL XYLENES	0.29	MG/KG	1			
TOTAL BTEX	0.326	MG/KG				
TPH (418.1)	80.3	MG/KG			2.02	28
HEADSPACE PID	1112	PPM				
PERCENT SOLIDS	92.6	%				

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

The Surrogate Recovery was at 98 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results attached

DF = Dilution Factor Used

Approved By: _____ Date: 6/8/95

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

95/05/23 10:34

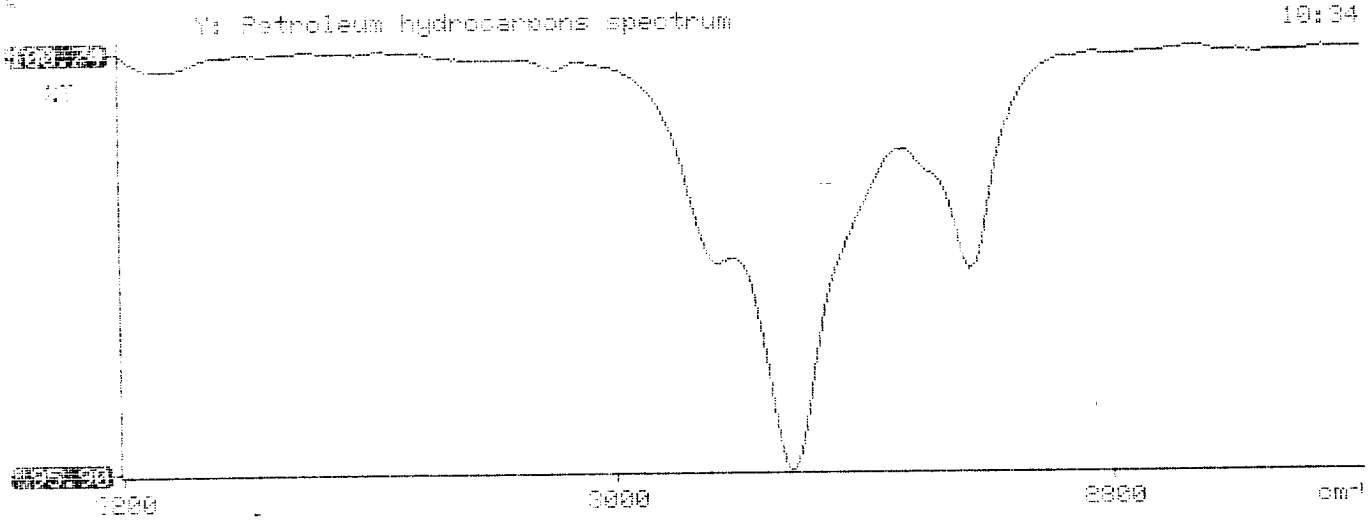
Sample identification
944826

Initial mass of sample, g
2.020

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
99.334

Net absorbance of hydrocarbons (2930 cm-1)
0.021



Analytical **Technologies,** Inc.

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

ATI I.D. **505387**

June 2, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/24/95**, 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.

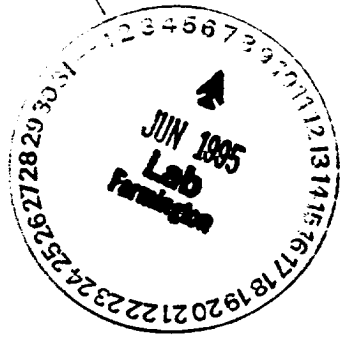
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 505387
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946826	NON-AQ	05/22/95	05/24/95	05/26/95	1
05	946827	NON-AQ	05/22/95	05/24/95	05/26/95	5
06	946828	NON-AQ	05/22/95	05/24/95	05/26/95	1

PARAMETER	UNITS	04	05	06
BENZENE	MG/KG	<0.025	<0.12	0.083
TOLUENE	MG/KG	<0.025	3.1	<0.025
ETHYLBENZENE	MG/KG	0.036	0.67	0.36
TOTAL XYLENES	MG/KG	0.29	3.2	1.6
SURROGATE:				
BROMOFLUOROBENZENE (%)		98	142*	102

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE