EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

Approved

RECEIVED
JUL 2 1998
OIL CON. DIV.

JAQUEZ GAS COM A #3E
Meter/Line ID - 93541

SITE DETAILS

Legals - Twn: 29 **Rng:** 09 **Sec:** 05 **Unit:** E
NMOCD Hazard Ranking: 20 **Land Type:** 4 - Fee
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/05/94**

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: 93541 Location: JAQUEZ GAS COM A #3E

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

Coordinates: Letter: E Section 5 Township: 29 Range: 9

Or Latitude _____ Longitude _____

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

Site Visit Date: 4.11.94 Run: 10 42

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: 20 **POINTS**

REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS AT A SLIGHTLY HIGHER ELEVATION THAN THE SAN JUAN RIVER.

ORIGINAL PIT LOCATION

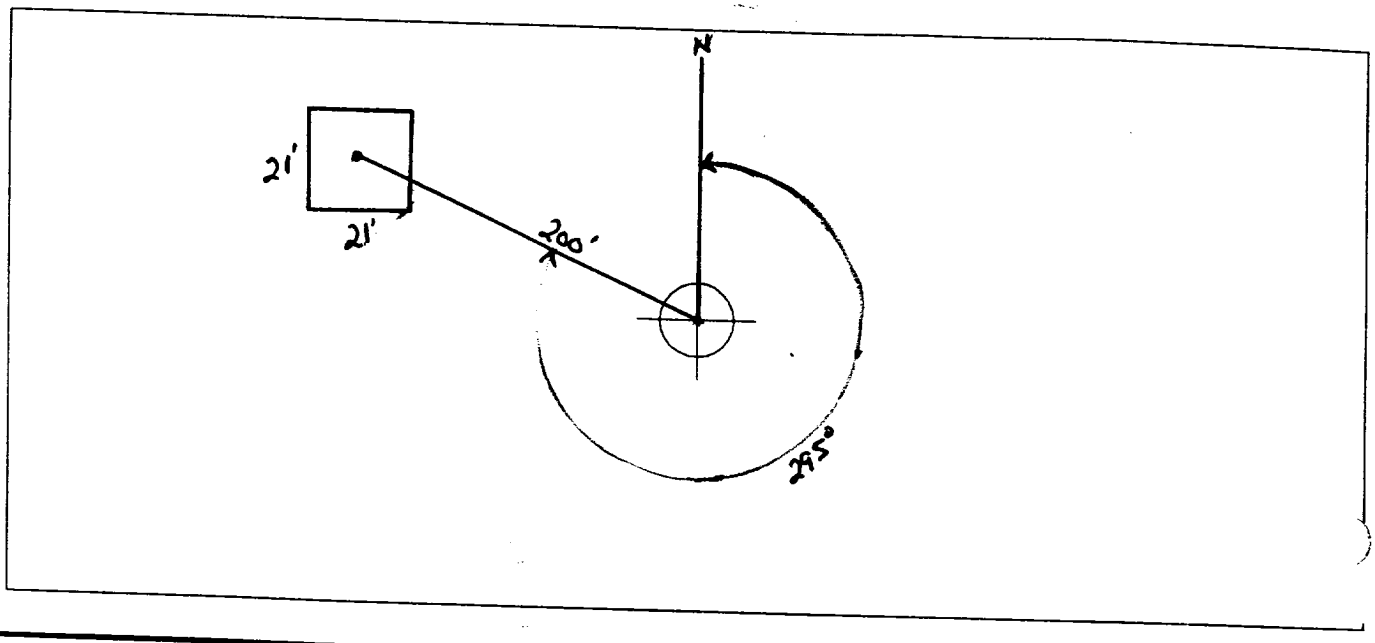
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 295° Footage to Wellhead 200'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 21' Width : 21' Depth : 4'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 11:39 A.M.
END DUMP

Completed By:

Fred Thompson
Signature

4.11.94
Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93541 Location: JAQUEZ GAS COM A #3E

Coordinates: Letter: E Section 5 Township: 29 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-5-94 Area: 10 Run: 42

945 081

FIELD OBSERVATIONS

Sample Number(s): K.P#26 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 231 PID Reading Depth 12' Fe

Yes No

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

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: 5-5-94 Pit Closed By: B.E.I

REMARKS

Remarks : SOME LINE MARKERS dug down 6' HIT BLACK SOIL

Signature of Specialist: Kelly Padilla

(SP3191)

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP26a	945081
MTR CODE | SITE NAME:	93541	N/A
SAMPLE DATE | TIME (Hrs):	5/5/94	1650
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5/10/94	5/10/94
DATE OF BTEX EXT. | ANAL.:	5/13/94	5/14/94
TYPE | DESCRIPTION:	VC	Grey Sand/Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	18	MG/KG				
ETHYL BENZENE	15	MG/KG				
TOTAL XYLENES	370	MG/KG				
TOTAL BTEX	404	MG/KG				
TPH (418.1)	4270	MG/KG			2.23	28
HEADSPACE PID	231	PPM				
PERCENT SOLIDS	90.7	%				

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

The Surrogate Recovery was at 260 % for this sample All QA/QC was acceptable.

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

DF = Dilution Factor Used

Approved By: John Stanberry 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

04/05/10 13:02

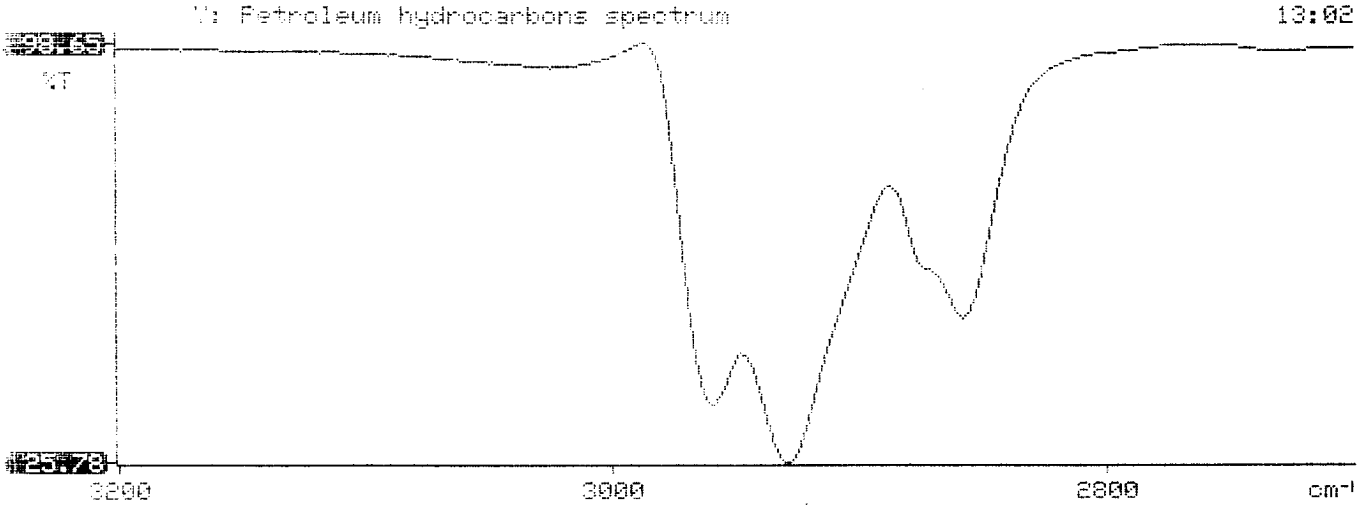
Sample identification
948381

Initial mass of sample, g
2.230

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
4266.243

Net absorbance of hydrocarbons (2930 cm-1)
0.379



copy

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
05	945079	NON-AQ	05/05/94	05/13/94	05/14/94	10
06	945080	NON-AQ	05/05/94	05/13/94	05/14/94	20
07	945081	NON-AQ	05/05/94	05/13/94	05/14/94	20

PARAMETER	UNITS	05	06	07
BENZENE	MG/KG	<0.25	<0.5	<0.5
TOLUENE	MG/KG	<0.25	6.6	18
ETHYLBENZENE	MG/KG	11	20	15
TOTAL XYLENES	MG/KG	170	220	370
SURROGATE:				
BROMOFLUOROBENZENE (%)		390*	310*	260*

*OUTSIDE 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 Jaquez Gas Com A # 3E 93541

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By ~~M DONOHUE~~ K. Padilla
Date/Time Started 6/12/95 - 1420
Date/Time Completed 6/12/95 - 1530

Well Logged By CM Chance
Personnel On-Site K. Padilla, F. Rivera, D. Tsalate
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"	Grn sandy CLAY, vf-f sand, v soft, med-high plastic, sl moist strong odor			0	3	692/993	1426 hr
20	2	20-22	9"	Br sandy CLAY, vf-f sand, v. soft, sl moist			0	2	12/320	1433
25	3	25-27	5"	Br silty SAND, vf-f sand, loose, sl moist			0	3	5/3	1441
				TDB 27'						
30										
35										
40										

Comments: 25-27' sample (CMC 52) sent to lab (BTEX, TPH). BH grouted to surface. (Sampled bagged + iced prior to containerizing.)

Geologist Signature

Natural Gas Company

Phase II

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 52	946894
MTR CODE | SITE NAME:	93541	N/A
SAMPLE DATE | TIME (Hrs):	6-13-95	1441
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-15-95	6-15-95
DATE OF BTEX EXT. | ANAL.:	6-16-95	6-16-95
TYPE | DESCRIPTION:	VG	Brown/grey fine 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)	4.41	MG/KG			2.03	28
HEADSPACE PID	3	PPM				
PERCENT SOLIDS	94.4	%				

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

The Surrogate Recovery was at 101 / 100 % for this sample All QA/QC was acceptable.
KDE 6/28/95

Narrative:
ATI Results attached

DF = Dilution Factor Used

Approved By: J.F. Date: 6/28/95

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

 95/06/15  11:45

  Sample identification
 46894

  Initial mass of sample, g
 2.030

  Volume of sample after extraction, ml
 28.000

  Petroleum hydrocarbons, ppm
 4.406
  Net absorbance of hydrocarbons (2930 cm-1)
 0.011
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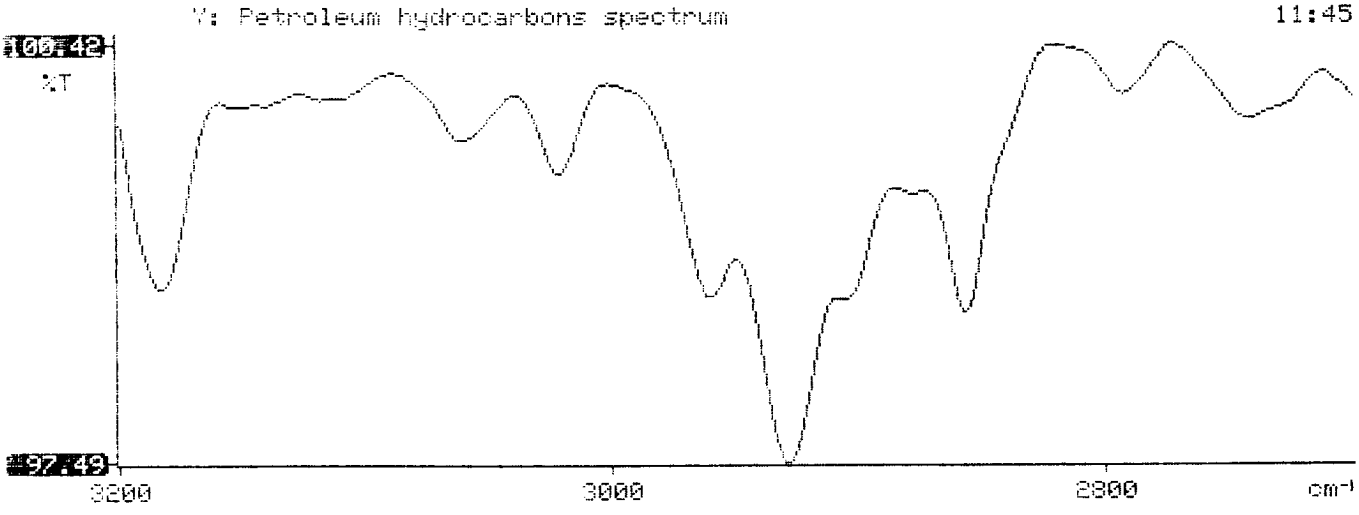


Analytical **Technologies,** Inc.

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

ATI I.D. **506376**

June 21, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On **06/16/95**, 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.

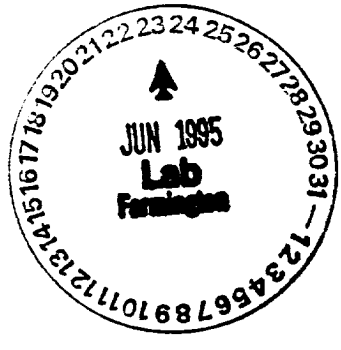
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506376
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946894	NON-AQ	06/13/95	06/16/95	06/16/95	1
05	946895	NON-AQ	06/13/95	06/16/95	06/16/95	1
06	946896	NON-AQ	06/13/95	06/16/95	06/16/95	1

PARAMETER	UNITS	04	05	06
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	<0.025
TOTAL XYLENES	MG/KG	<0.025	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		101	96	99