Denny
DEPUTY OIL & GAS INSPECTOR
DEC 2 1 1993

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

CHACON HILL #2
Meter/Line ID - 90831

RECEIVED
JUL 2 1993
OIL CON. DIV.
DIST. 3

SITE DETAILS

Legals - Twn: 24 **Rng:** 03 **Sec:** 20 **Unit:** G
NMOCD Hazard Ranking: 40 **Land Type:** 4 - Fee
Operator: CONOCO - MESA OPERATING L **Pit Closure Date:** 10/13/94

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: 90831 Location: Chacon Hill #2
Operator #: 6302 Operator Name: Nassau Resources P/L District: OJITO
Coordinates: Letter: G Section 20 Township: 24 Range: 3
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: ✓ Line Drip: ___ Other: _____
Site Assessment Date: 8/3/94 Area: 08 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 Medio 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

Remarks : Redline Book - Inside Vulnerable Zone Topo - Inside
2 pits. Will close! Pit has liquid in it.

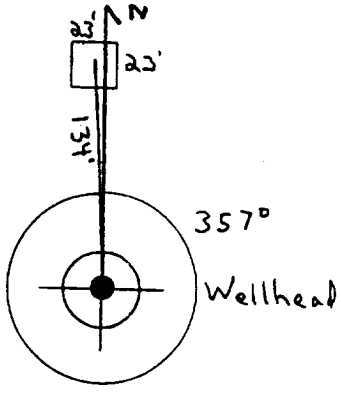
DIG+HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 357° Footage from Wellhead 134'

b) Length : 23' Width : 23' Depth : 5'



REMARKS

Remarks :

Pictures @ 0840

Completed By:

Cory Chance
Signature

8/3/94
Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 90831 Location: Chacon Hill #2

Coordinates: Letter: G Section 20 Township: 24 Range: 3

Or Latitude _____ Longitude _____

Date Started : 10-13-94 Run: 08 83

FIELD OBSERVATIONS

Sample Number(s): KP 317 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 005 PID Reading Depth 12' Feet

	Yes	No	
Groundwater Encountered	☐	☒	Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards ~~100~~ 110 KP 10-13-94

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☒ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 10-13-94 Pit Closed By: B.E.T

REMARKS

Remarks : Some LINE MARKERS. Pit HAS some oil & water in it Had To solidify 2 loads before we could HAUL off. At 12' soil GRAY looking with smell. closed Pit.

Signature of Specialist: Kelly Padilla

(SP3191) 03/16/84

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:	KP 317	94644S
MTR CODE | SITE NAME:	908 31	N/A
SAMPLE DATE | TIME (Hrs):	10-13-94	1800
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	10-17-94	10-17-94
DATE OF BTEX EXT. | ANAL.:	10-19-94	10-20-94
TYPE | DESCRIPTION:	VC	Brown Sand & Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.025	MG/KG	1			
TOLUENE	0.029	MG/KG	1			
ETHYL BENZENE	< 0.025	MG/KG	1			
TOTAL XYLENES	0.040	MG/KG	1			
TOTAL BTEX	0.119	MG/KG				
TPH (418.1)	3860	MG/KG			2.06	28
HEADSPACE PID	5	PPM				
PERCENT SOLIDS	93.2	%				

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

The Surrogate Recovery was at 94 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 11/3/94

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

Perkin-Elmer Model 1600 FT-IR
Analysis Report
****

94/10/17 11:38

Sample identification
946415

Initial mass of sample, g
2.060

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
3862.513

Net absorbance of hydrocarbons (2930 cm-1)
0.495

Y: Petroleum hydrocarbons spectrum

Analytical Technologies, Inc.

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

ATI I.D. **410405**

October 26, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **10/18/94**, 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.

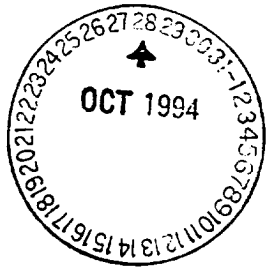
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

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.: 410405

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
22	946413	NON-AQ	10/12/94	10/19/94	10/20/94	1
23	946414	NON-AQ	10/13/94	10/19/94	10/21/94	20
24	946415	NON-AQ	10/13/94	10/19/94	10/20/94	1

PARAMETER	UNITS	22	23	24
BENZENE	MG/KG	<0.025	<0.5	<0.025
TOLUENE	MG/KG	<0.025	1.7	0.029
ETHYLBENZENE	MG/KG	<0.025	1.9	<0.025
TOTAL XYLENES	MG/KG	<0.025	28	0.040
SURROGATE:				
BROMOFLUOROBENZENE (%)		94	90	94

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 Chacon Hill #2 90821

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By ~~M DONOHUE~~ K. Padilla
Date/Time Started 6/2/95 - 1220
Date/Time Completed 6/2/95 - 1340

Well Logged By CM Chance
Personnel On-Site K. Padilla, F. Rivera
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	4"	Dk Br sandy CLAY, vf sand, soft, med plastic, sl moist, odor			0	18	97/627	1247
20	2	20-22	4"	Br sandy CLAY, vf sand, soft, low-med plastic, sl moist			1	10	0/5	1255
				TDB 22'						

Comments: 20-22' sample (CMC 34) sent to lab (BTEX, TPH)

Geologist Signature

Phase II

Chacon Hill #

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:	cmc32	946865
MTR CODE | SITE NAME:	90831	N/A
SAMPLE DATE | TIME (Hrs):	6-2-95	1255
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-5-95	6-5-95
DATE OF BTEX EXT. | ANAL.:	6-8-95	6-12-95
TYPE | DESCRIPTION:	VG	Brown sand & clay

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)	42.3	MG/KG			2.04	28
HEADSPACE PID	5	PPM				
PERCENT SOLIDS	85.2	%				

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

The Surrogate Recovery was at 89 % for this sample All QA/QC was acceptable.

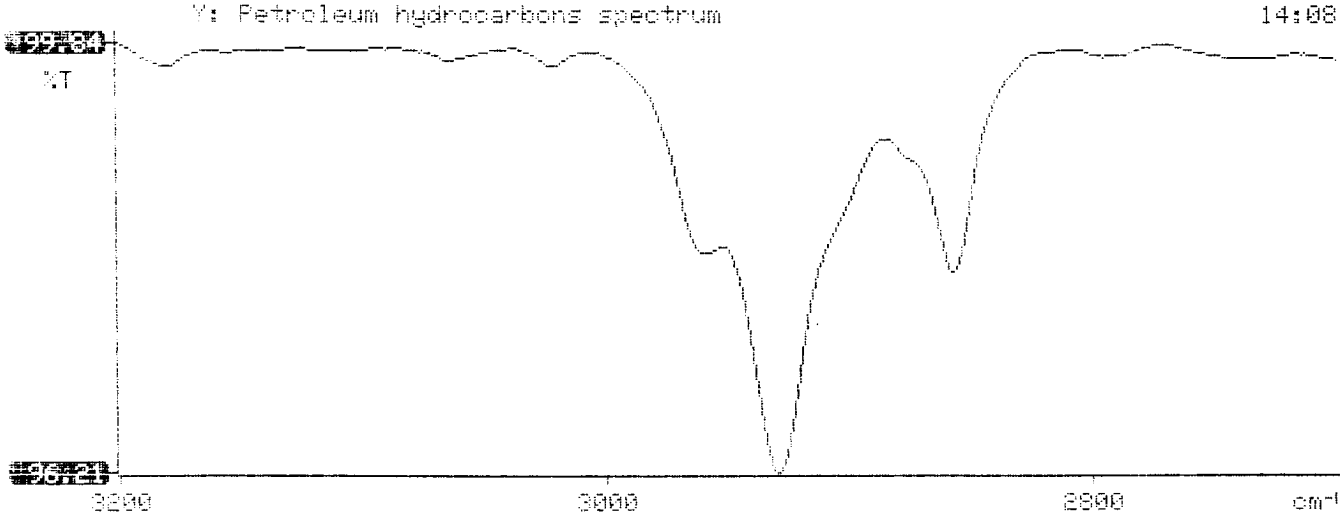
Narrative:

ATI Results attached

DF = Dilution Factor Used

Approved By: _____ Date: 6/28/95

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

 05/06/05   14:08

  Sample identification
 946569

  Initial mass of sample, g
 2.040

  Volume of sample after extraction, ml
 28.000

  Petroleum hydrocarbons, ppm
 44.271
  Net absorbance of hydrocarbons (2930 cm-1)
 0.016
```



Analytical Technologies, Inc.

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

ATI I.D. **506330**

June 13, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/08/95**, 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.

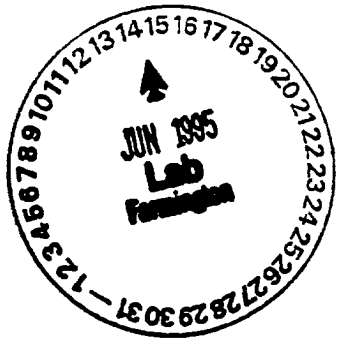
for

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 ATI I.D.: 506330
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946863	NON-AQ	06/02/95	06/08/95	06/09/95	1
02	946864	NON-AQ	06/02/95	06/08/95	06/09/95	1
03	946865	NON-AQ	06/02/95	06/08/95	06/12/95	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	<0.025
TOTAL XYLENES	MG/KG	0.16	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		86	90	89