Denny Foust
DEPUTY OIL & GAS INSPECTOR

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 2 1 1998

RECEIVED
JUL 2 1998
OIL CON. DIV.

Approved

SCHWERDTFEGER A #6E
Meter/Line ID - 93947

SITE DETAILS

Legals - Twn: 27 **Rng:** 08 **Sec:** 08 **Unit:** D
NMOCD Hazard Ranking: 20 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 08/04/94**

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: 93947 Location: SCHWERDTFEGER A #6E
Operator #: 0203 Operator Name: AMOCO P/L District: BALLARD
Coordinates: Letter: D Section 8 Township: 27 Range: 8
Or Latitude _____ Longitude _____
Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: _____
Site Assessment Date: 6·13·94 Area: 07 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) 6·13·94 RT ~~☒~~ (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 FRESNO 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: 20 **POINTS**

REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS IN FRESNO CANYON WEST OF LARGO WASH. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.

DIG & HAUL

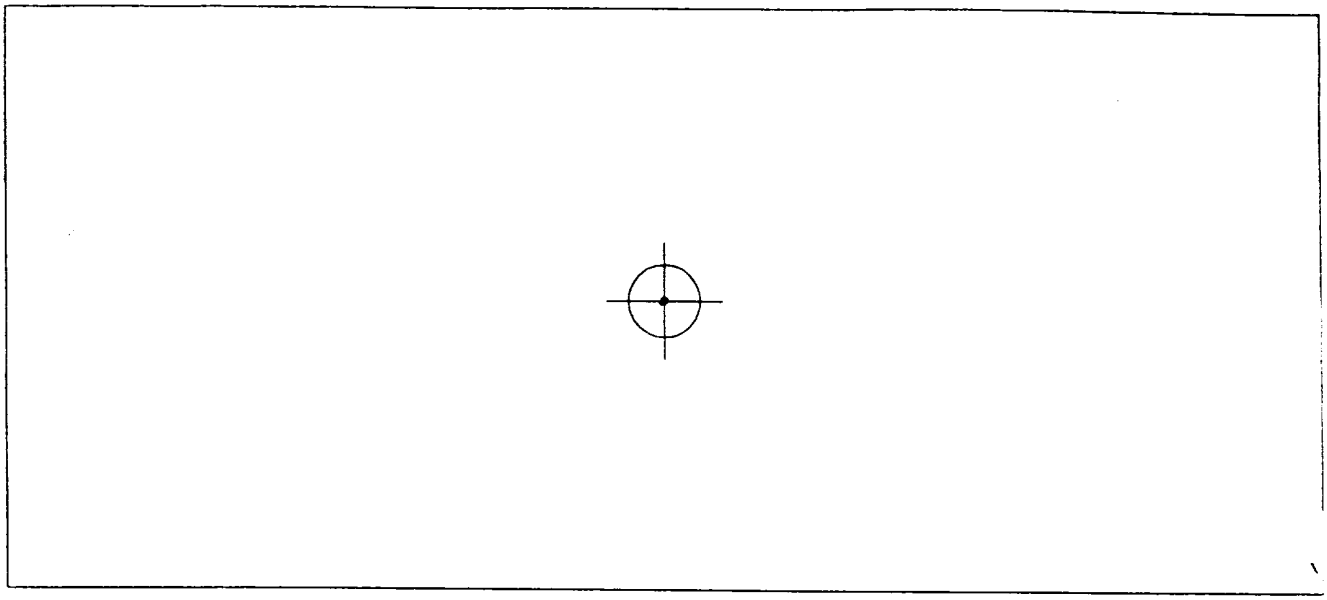
(SP3180) 04/06/94

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 348° Footage from Wellhead 87'

b) Length : 17' Width : 17' Depth : 3'



REMARKS

Remarks :

TOOK PICTURES AT 2:50 P.M

END DUMP

Completed By:

Robert Thompson

Signature

6·13·94

Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93947 Location: SCHWEDTFEGER AGE

Coordinates: Letter: D Section 8 Township: 27 Range: 8

Or Latitude _____ Longitude _____

Date Started : 8-4-94 Run: 27 (KP-944) 8 21 (KP-944)

FIELD OBSERVATIONS

Sample Number(s): KP 167 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 290 PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒	Approx. Cubic Yards 70
Onsite Bioremediation	☐	
Backfill Pit Without Excavation	☐	

Soil Disposition:

Envirotech	☒	☐	Tierra
Other Facility	☐	Name:	_____

Pit Closure Date: 8-4-94 Pit Closed By: B.E.F

REMARKS

Remarks : Some Line markers. Started Remediating to 12' At 12' soil still DARK gray, with a smell. Pid 290 Closed Pit.

Signature of Specialist: Kelly Padilla

(SP3181) 03/16/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 167	945835
MTR CODE | SITE NAME:	93947	N/A
SAMPLE DATE | TIME (Hrs):	8-4-94	1120
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	8/9/94	8/9/94
DATE OF BTEX EXT. | ANAL.:	8/11/94	8/11/94
TYPE | DESCRIPTION:	VC	Brown Grey Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	0.38	MG/KG	10			
TOLUENE	26	MG/KG	10			
ETHYL BENZENE	<0.25	MG/KG	10			
TOTAL XYLENES	4.7	MG/KG	10			
TOTAL BTEX	31	MG/KG				
TPH (418.1)	798	MG/KG			2.08	28
HEADSPACE PID	290	PPM				
PERCENT SOLIDS	93.2	%				

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

The Surrogate Recovery was at 71 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 9/2/94

[illegible]

[illegible] identification
[illegible]

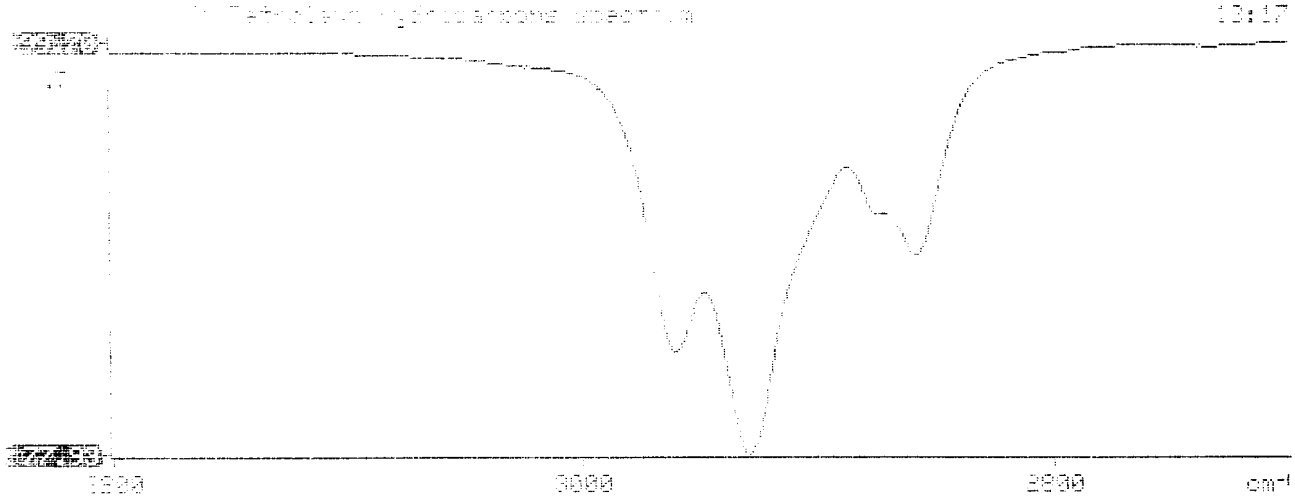
Initial mass of sample, g
1.980

Volume of sample after extraction, ml
[illegible]000

Petroleum hydrocarbons, ppm
7[illegible]3.076

Net absorbance of hydrocarbons (2930 cm-1)
[illegible]0[illegible]

[illegible] 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. **408339**

August 25, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **08/10/94**, 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.

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.: 408339

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945835	NON-AQ	08/04/94	08/11/94	08/11/94	10
02	945836	NON-AQ	08/04/94	08/11/94	08/11/94	10
03	945837	NON-AQ	08/04/94	08/11/94	08/11/94	10

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	0.38	<0.25	<0.25
TOLUENE	MG/KG	26	<0.25	<0.25
ETHYLBENZENE	MG/KG	<0.25	1.2	<0.25
TOTAL XYLENES	MG/KG	4.7	31	270
SURROGATE:				
BROMOFLUOROBENZENE (%)		71	112	425*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well #
Page 1 of 1

Project Name EPNG PITS
Project Number 14509 Phase 6000.77
Project Location Schwerdtfeger A #1E 93947

Elevation
Borehole Location Letter D-S8-T27-R8
GWL Depth
Logged By J.F. LaBarbera
Drilled By K. Padilla
Date/Time Started 7/25/95 - 0949
Date/Time Completed - 1109

Well Logged By J.F. LaBarbera
Personnel On-Site K. Padilla, F. Rivera, ~~Dr. Charlie~~ J. D'Lee
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	Drilling Conditions & Blow Counts	
0				Fill							
5											
10											
15	1	15-15.5	6	fine med., Brown, SANDSTONE, poorly cemented, dry, odor	X		0	44	484 / 330		1044
20	2	20-20.5	6	AA - coarse, S odor			0.3	171	455 / 178		1047
25	3	25-25.5	6	AA - fine to coarse			1.4	330	90 / 138		1049
30	4	30-30.5	6	AA - with fine gravel, no odor - going to Shale.			0	152	209 / 6.9	Hand drilling Refusal	1030
35				TOB at 30.5' - Refusal							
40											

Comments: Sample JFL 20 from 30-30.5' sent to lab for BTEX/TPH analysis

Geologist Signature J. F. LaBarbera

El Paso Natural Gas Company

Phase II Drilling
Schwerdtfeger A #6 E
(30-30.5')

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JFL 20	947074
MTR CODE | SITE NAME:	93947	N/A
SAMPLE DATE | TIME (Hrs):	07-25-95	10:30
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7-26-95	7-26-95
DATE OF BTEX EXT. | ANAL.:	7-27-95	7-28-95
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)	RLB 7-27-95 ~~<10~~ 25.9	MG/KG			2.15	28
HEADSPACE PID	209	PPM				
PERCENT SOLIDS	89.7	%				

– 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: D.F _____ Date: 8/22/95

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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                     *
**********************************************************
*
 95/07/26  13:55
*
*  Sample identification
 947074
*
*  Initial mass of sample, g
 2.150
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 25.924
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
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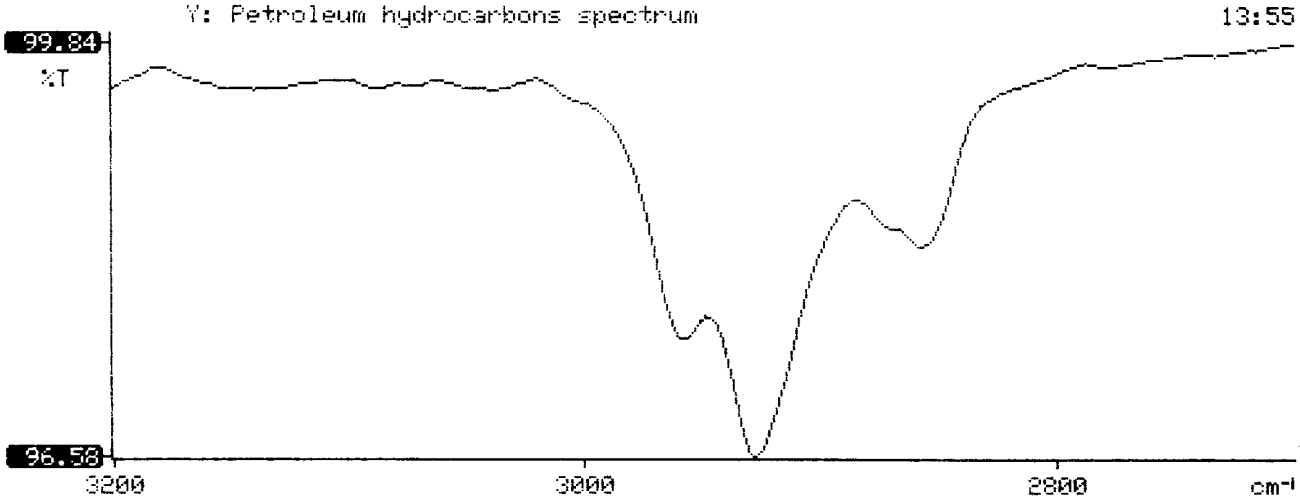


Analytical Technologies, Inc.

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

ATI I.D. **507411**

August 3, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II DRILLING 24324

Attention: John Lambdin

On **07/27/95**, 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.

EPA method 8015 analyses were added on 07/27/95 for samples "947068", "947069" and "947077" per Kim Kirby.

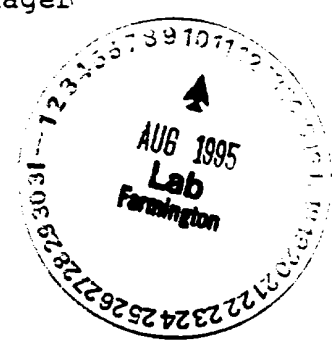
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

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.: 507411

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II DRILLING

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947073	NON-AQ	07/25/95	07/27/95	07/28/95	1
05	947074	NON-AQ	07/25/95	07/27/95	07/28/95	1
06	947075	NON-AQ	07/25/95	07/27/95	07/28/95	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	0.029	<0.025	<0.025
TOTAL XYLENES	MG/KG	0.45	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		102	98	101