EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

Approved

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

BOLACK B #3 PC
Meter/Line ID - 72049

SITE DETAILS

Legals - Twn: 28 **Rng:** 08 **Sec:** 33 **Unit:** N
NMOCD Hazard Ranking: 30 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 08/03/94**

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.

J:\18954\rbc

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72049 Location: BOLACK B #3 P.C.
Operator #: 0203 Operator Name: AMOCO P/L District: BALLARD
Coordinates: Letter: N Section 33 Township: 28 Range: 8
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 6.9.94 Area: 07 Run: 32

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) 6.9.94 KT ~~☒~~ (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 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: 30 ~~20~~ 6.9.94 KT **POINTS**

REMARKS

Remarks : THREE 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 U.Z.

DIG & HAUL

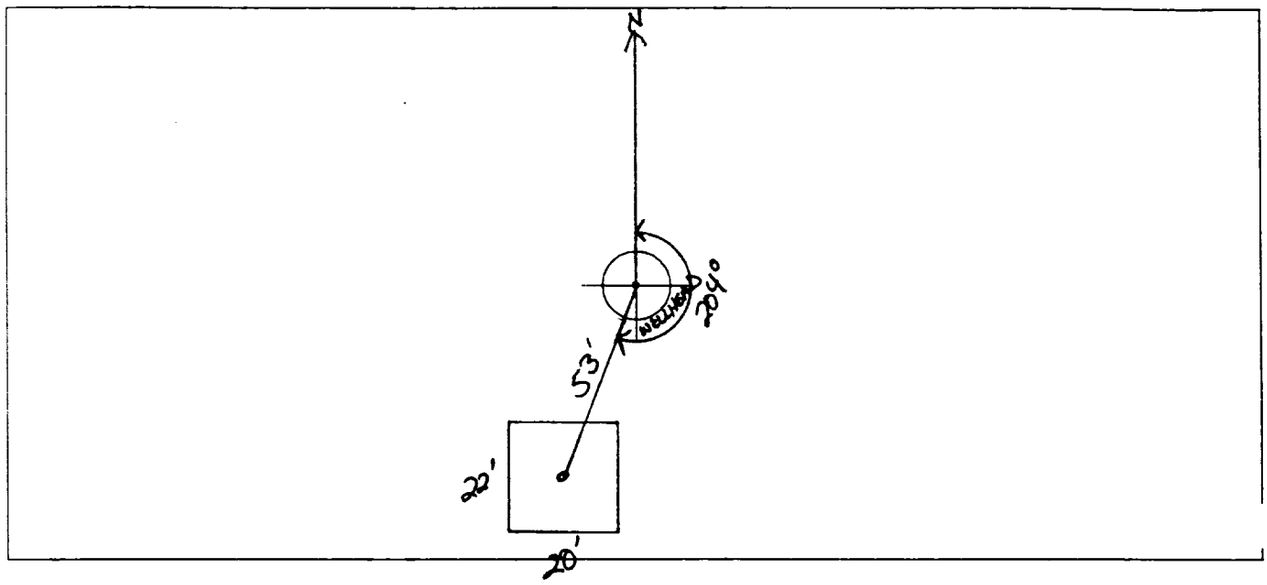
(SP3190) 04/08/94

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 204° Footage from Wellhead 53'

b) Length : 22' Width : 20' Depth : 3'



REMARKS

Remarks :

TOOK PICTURES AT 10:51 A.M.

END DUMP

Completed By:

Robert Thompson
Signature

6-7-94
Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72049 Location: BOLACK B #3 PC

Coordinates: Letter: N Section 33 Township: 28 Range: 8

Or Latitude _____ Longitude _____

Date Started : 8-3-94 Run: 07 32

FIELD OBSERVATIONS

Sample Number(s): KP166 _____ _____ _____

Sample Depth: 10' Feet

Final PID Reading 285 PID Reading Depth 10' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒	Approx. Cubic Yards 140
Onsite Bioremediation	☐	
Backfill Pit Without Excavation	☐	

Soil Disposition:

Envirotech	☒	☐	Tierra
Other Facility	☐	Name:	_____

Pit Closure Date: 8-3-94 Pit Closed By: B.E.T

REMARKS

Remarks : Some LINE markers started Remediating to 12' Soil Turned BLACK with a smell. DUAL LOCATION, Hit SAND STONE At 10' Closed Pit.

Signature of Specialist: Kelly Padilla

(SP3191) 03/16/9

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 1606	945826
MTR CODE | SITE NAME:	72049	N/A
SAMPLE DATE | TIME (Hrs):	8-3-94	1550
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	8-4-94	8-4-94
DATE OF BTEX EXT. | ANAL.:	8/8/94	8/9/94
TYPE | DESCRIPTION:	VC	Black coarse sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG	20			
TOLUENE	8.5	MG/KG	20			
ETHYL BENZENE	8.6	MG/KG	20			
TOTAL XYLENES	120	MG/KG	20			
TOTAL BTEX	138	MG/KG				
TPH (418.1)	1540	MG/KG			2.04	28
HEADSPACE PID	285	PPM				
PERCENT SOLIDS	91.3	%				

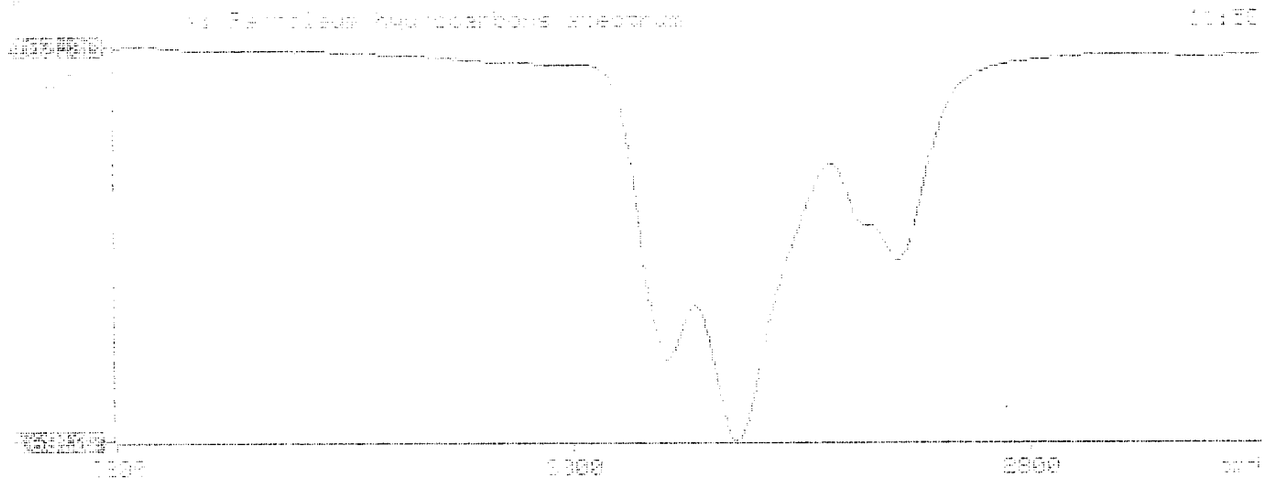
– TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 145 % for this sample All QA/QC was acceptable.

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

DF = Dilution Factor Used

Approved By: J.S. Date: 9/2/94



Analytical Technologies, Inc.

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

ATI I.D. **408328**

August 11, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **08/05/94**, 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

Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408328
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945825	NON-AQ	08/03/94	08/08/94	08/08/94	1
08	945826	NON-AQ	08/03/94	08/08/94	08/09/94	20
09	945827	NON-AQ	08/03/94	08/08/94	08/09/94	10

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.025	<0.5	<0.25
TOLUENE	MG/KG	<0.025	8.5	7.5
ETHYLBENZENE	MG/KG	<0.025	8.6	1.1
TOTAL XYLENES	MG/KG	<0.025	120	17
SURROGATE:				
BROMOFLUOROBENZENE (%)		96	145*	131*

*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) 326-2386

Borehole # BH-1
Well #
Page 1 of 1

Project Name EPNG PITS
Project Number 14509 Phase 6000.77
Project Location Bolack B#3 PC 72049

Elevation
Borehole Location Letter N - S33 - T28 - R8
GWL Depth
Logged By John LaBarbera
Drilled By Kelly Padilla
Date/Time Started 7/14/95 - 1400
Date/Time Completed

Well Logged By John LaBarbera
Personnel On-Site K Padilla, D Charley, F Rivera
Contractors On-Site
Client Personnel On-Site

Drilling Method 4.25" 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	HS	Drilling Conditions & Blow Counts
0–10				Fill						
10	1	10-11	11	Gray, v fn-fn SANDSTONE, friable, odor, poorly cemented			0	74	1718 / 1321	Refused at 15' Sandstone Able to drill down with different bit
15	2 / 1330	15-15.75 / 1330	8	Brown/Olive, AA			0	20	1301 / 1159	1434
20	3	20-20.75	9	Olive, AA			22	201	985 / 1238	1440
25	4	25-25.25	3	Brown, AA, trace silty			19.8	199	556 / 869	1457 Hard drilling at 28'
30	5	30-30.25	3	Olive, AA TOB at 30.25 Refusal			18.9	801	70 / 112	1525
35										
40										

Comments: Sample JFL-7 sent for BTEX / TPH analysis. Refusal at 30.25'.

Geologist Signature John LaBarbera

El Paso Natural Gas Company

Phase II

Black B#3 DC

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JFL7	947006
MTR CODE | SITE NAME:	72049	N/A
SAMPLE DATE | TIME (Hrs):	7/14/95	15:25
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7-18-95	7-18-95
DATE OF BTEX EXT. | ANAL.:	7-19-95	7-19-95
TYPE | DESCRIPTION:	VG	Gray-Brown sand and clay w/ stone

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	0.026	MG/KG	1			
TOLUENE	0.19	MG/KG	1			
ETHYL BENZENE	0.052	MG/KG	1			
TOTAL XYLENES	0.5	MG/KG	1			
TOTAL BTEX	0.768	MG/KG				
TPH (418.1)	86.0	MG/KG			2.02	28
HEADSPACE PID	70	PPM				
PERCENT SOLIDS	90.7	%				

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

The Surrogate Recovery was at 110 % for this sample All QA/QC was acceptable.

Narrative: ATI Results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 8/3/95

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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                     *
**********************************************************
*
 95/07/18  08:56
*
*  Sample identification
 947006
*
*  Initial mass of sample, g
 2.020
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 85.979
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.021
*
*
*
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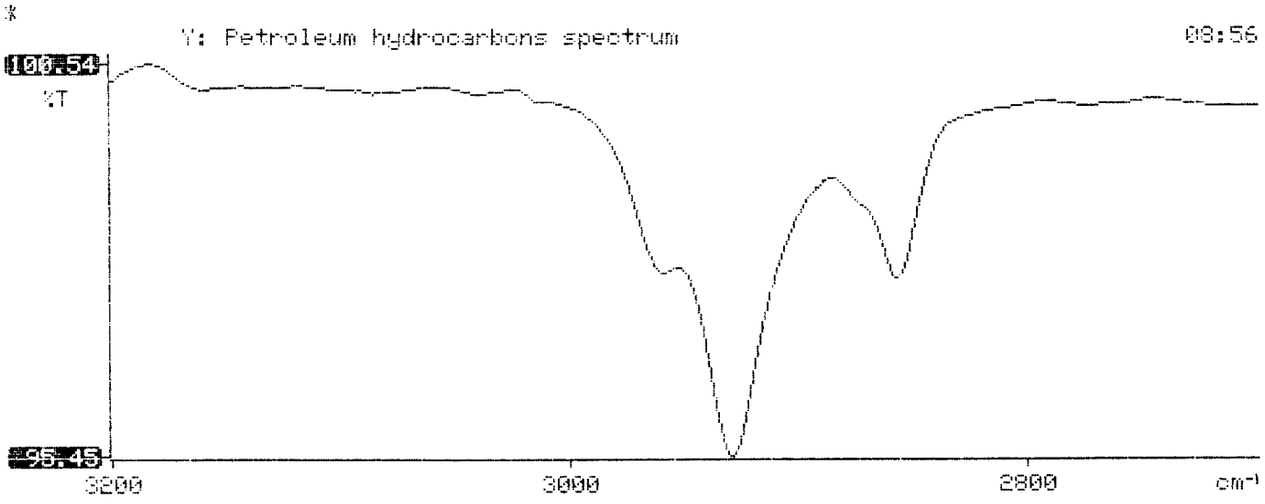

Analytical **Technologies,** Inc.

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

ATI I.D. **507358**

July 25, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II DRIL M/W 24324

Attention: John Lambdin

On **07/19/95**, 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.

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

JUL 1995
Lab
Farmington

Corporate Offices: 5550 Morenouse Drive San Diego, CA 92121 (619) 458-9141

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 507358

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II DRIL

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
11	947006	NON-AQ	07/14/95	07/19/95	07/19/95	1
12	947007	NON-AQ	07/17/95	07/19/95	07/20/95	1
13	947008	NON-AQ	07/17/95	07/19/95	07/20/95	1

PARAMETER	UNITS	11	12	13
BENZENE	MG/KG	0.026	<0.025	<0.025
TOLUENE	MG/KG	0.19	0.076	<0.025
ETHYLBENZENE	MG/KG	0.052	<0.025	<0.025
TOTAL XYLENES	MG/KG	0.5	0.13	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		110	94	99