FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75945 Location: A.L. ELLIOT D #5
Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD
Coordinates: Letter: K Section 12 Township: 29 Range: 9
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 5.8.94 Area: 10 Run: 53

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) 5.8.94 RT
Name of Surface Water Body MANZANARES 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 : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS EAST OF HWY. 64 AT THE BASE OF SOME CLIFFS. REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE THE U.Z.

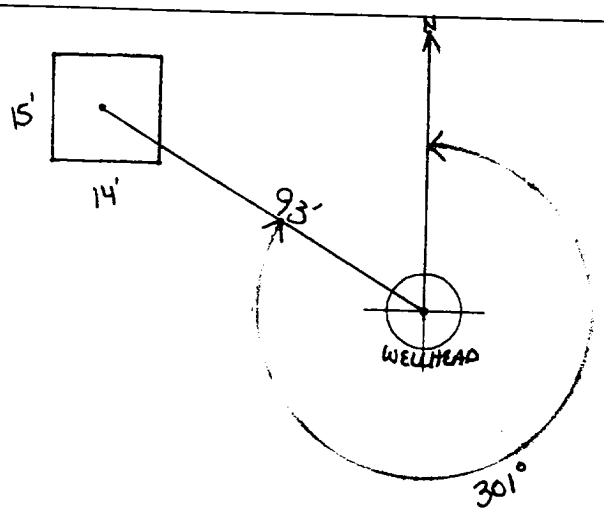
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 301° Footage from Wellhead 93'

b) Length : 15' Width : 14' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 9:12 A.M.

END DUMP

Completed By:

Robert Thompson

Signature

5-8-94

Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75945 Location: Annie L Elliot D #5

Coordinates: Letter: K Section 12 Township: 29 Range: 9

Or Latitude ________ Longitude ________

Date Started : 5-17-94 Area: 10 Run: 53

FIELD OBSERVATIONS

Sample Number(s): KD70 ________ ________ ________

Sample Depth: 12 Feet

Final PID Reading 319 ppm PID Reading Depth 12 Feet

Groundwater Encountered Yes ☐ (1) No ☒ (2) Approximate Depth ________ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 40

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: ________

Pit Closure Date: 5-17-94 Pit Closed By: BEI

REMARKS

Remarks : Excavated Pit to 12', Took PID Reading, Closed Pit

Signature of Specialist: [signature]

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD70	945201
MTR CODE | SITE NAME:	75945	N/A
SAMPLE DATE | TIME (Hrs):	5-17-94	1700
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-18-94	5/18/94
DATE OF BTEX EXT. | ANAL.:	5/23/94	5/26/94
TYPE | DESCRIPTION:	VC	Fine Grey Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.50	MG/KG	20			
TOLUENE	26	MG/KG	20			
ETHYL BENZENE	9.3	MG/KG	20			
TOTAL XYLENES	150	MG/KG	20			
TOTAL BTEX	186	MG/KG				
TPH (418.1)	8080	MG/KG			5.99	28
HEADSPACE PID	319	PPM				
PERCENT SOLIDS	93.6	%				

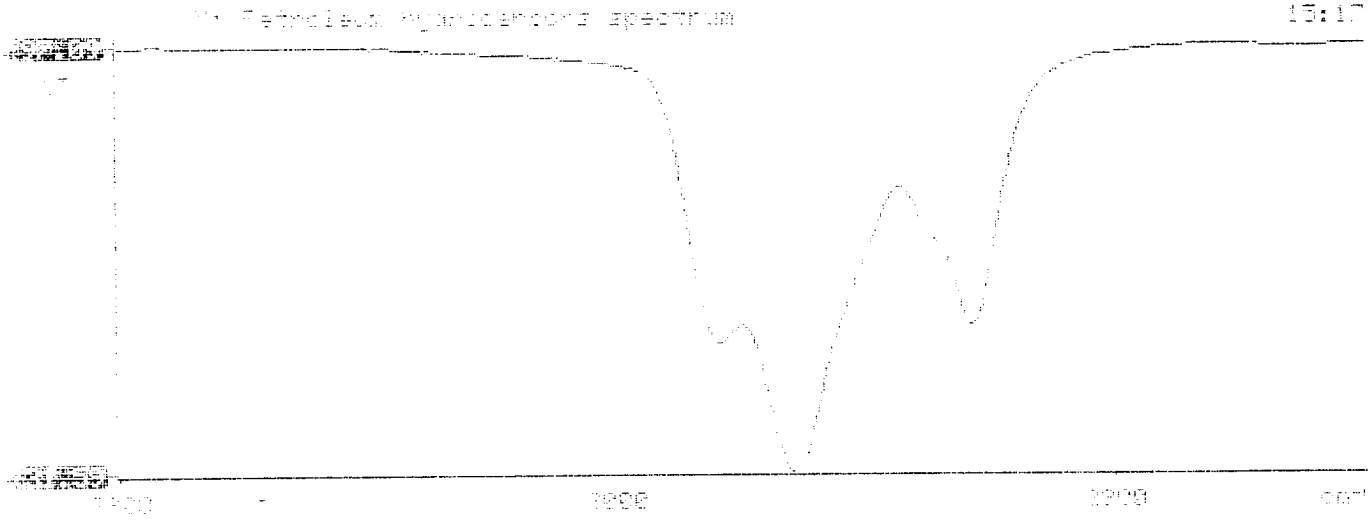
-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 67 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 7/14/94



ILLEGIBLE

Analytical **Technologies,** Inc.

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

ATI I.D. **405389**

June 2, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/20/94**, 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.

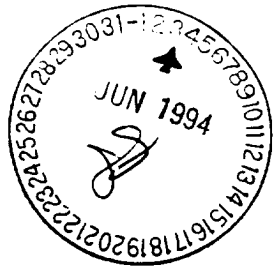
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405389

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945201	NON-AQ	05/17/94	05/23/94	05/26/94	20
11	945217	NON-AQ	05/17/94	05/23/94	05/26/94	50
12	945218	NON-AQ	05/18/94	05/23/94	05/26/94	50

PARAMETER	UNITS	10	11	12
BENZENE	MG/KG	<0.50	3.9	<1.2
TOLUENE	MG/KG	26	140	20
ETHYLBENZENE	MG/KG	9.3	<1.2	<1.2
TOTAL XYLENES	MG/KG	150	210	180
SURROGATE:				
BROMOFLUOROBENZENE (%)		67	NA*	NA*

*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH1
Well #
Page 1 of 1

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase 601
Project Location A.L. Elliot D#5, 75945

Elevation
Borehole Location
GWL Depth
Logged By S.Kelly
Drilled By M. Donohue
Date/Time Started 6/9/95, 0705
Date/Time Completed 6/9/95, 0800

Well Logged By S.Kelly
Personnel On-Site M. Donohue, J. O'Keife
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼" ID HSA
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S/HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	13.5-15.5	.55'	silty SAND, fine sand, dk. grey, loose, damp			10	58	125/523	-0715
20	2	18.5-20.5	.9'	SAA but w/ 10-20% med. sand		23			251/560	-0719
25	3	23.5-25.5	1.0'	SAND, light tan, med. to coarse sand, med. dense damp.			27	154	57/656	-0723
30	4	28.5-30.5	.4'	SAA - w/ some mottling of dark grey color.					79/162	0735 Very hard drilling
35	5	33.5-35.5	1.1'	SAA - light tan color dense					1/6	0753
40				BOH - 35.5						

Comments: 33.5-35.5 sample sent to lab. (BTEX & TPH) (SEKIZ)
BH grouted to surface.

Geologist Signature Sarah Kelley

El Paso Natural Gas Company

Phase 5

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK12	946912
MTR CODE | SITE NAME:	75945	N/A
SAMPLE DATE | TIME (Hrs):	6-19-95	0800
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-21-95	6-21-95
DATE OF BTEX EXT. | ANAL.:	6-22-95	6-22-95
TYPE | DESCRIPTION:	VG	Red/Brown 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)	66.7	MG/KG			2.01	28
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	96.2	%				

-- 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: 7/11/95

```
**********************************************************
*                    Test Method for                     *
*      Oil and Grease and Petroleum Hydrocarbons         *
*                   in Water and Soil                    *
*                                                        *
*             Perkin-Elmer Model 1600 FT-IR              *
*                    Analysis Report                     *
**********************************************************
*
 95/06/21   12:43
*
*   Sample identification
 946912
*
*   Initial mass of sample, g
 2.010
*
*   Volume of sample after extraction, ml
 28.000
*
*   Petroleum hydrocarbons, ppm
 66.732
*   Net absorbance of hydrocarbons (2930 cm-1)
 0.018
*
*
*
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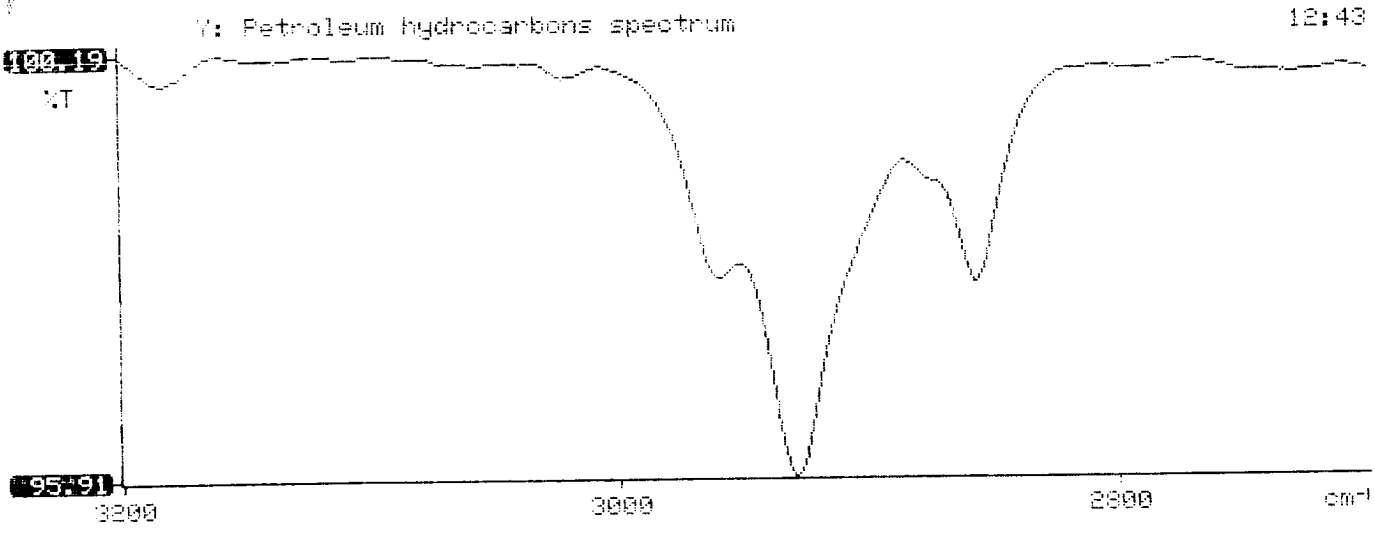


Analytical **Technologies,** Inc.

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

ATI I.D. **506401**

June 27, 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 **06/22/95**, 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.

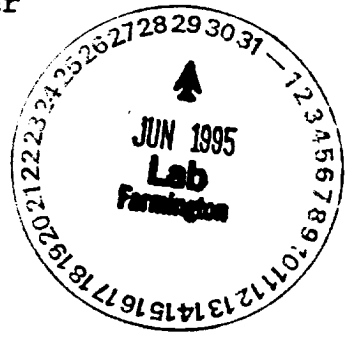
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:gsm

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506401

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946912	NON-AQ	06/19/95	06/22/95	06/22/95	1
02	946913	NON-AQ	06/19/95	06/22/95	06/22/95	1
03	946914	NON-AQ	06/19/95	06/22/95	06/22/95	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	<0.025	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		98	93	96

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

Approved

A.L. ELLIOTT D #5
Meter/Line ID - 75945

RECEIVED
JUL 2 1999
OIL CON. DIV.
DIST. 3

SITE DETAILS

Legals - Twn: 29 **Rng:** 09 **Sec:** 12 **Unit:** K
NMOCD Hazard Ranking: 30 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/17/94**

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.