EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

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

Approved

SCHULTZ COM C #7
Meter/Line ID - 71714

SITE DETAILS

Legals - Twn: 29 **Rng:** 10 **Sec:** 02 **Unit:** L
NMOCD Hazard Ranking: 30 **Land Type:** 1 - State
Operator: MERIDIAN OIL INC **Pit Closure Date:** 05/13/94

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: 71714 Location: SCHULTZ COM C #7

Operator #: 2999 Operator Name: MERIDIAN P/L District: BLOOMFIELD

Coordinates: Letter: L Section 2 Township: 29 Range: 10

Or Latitude _____ Longitude _____

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

Site Assessment Date: 5.4.94 Area: 10 Run: 73

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) 5.4.94 PIT

Name of Surface Water Body WRIGHT 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 : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE THE V.Z.

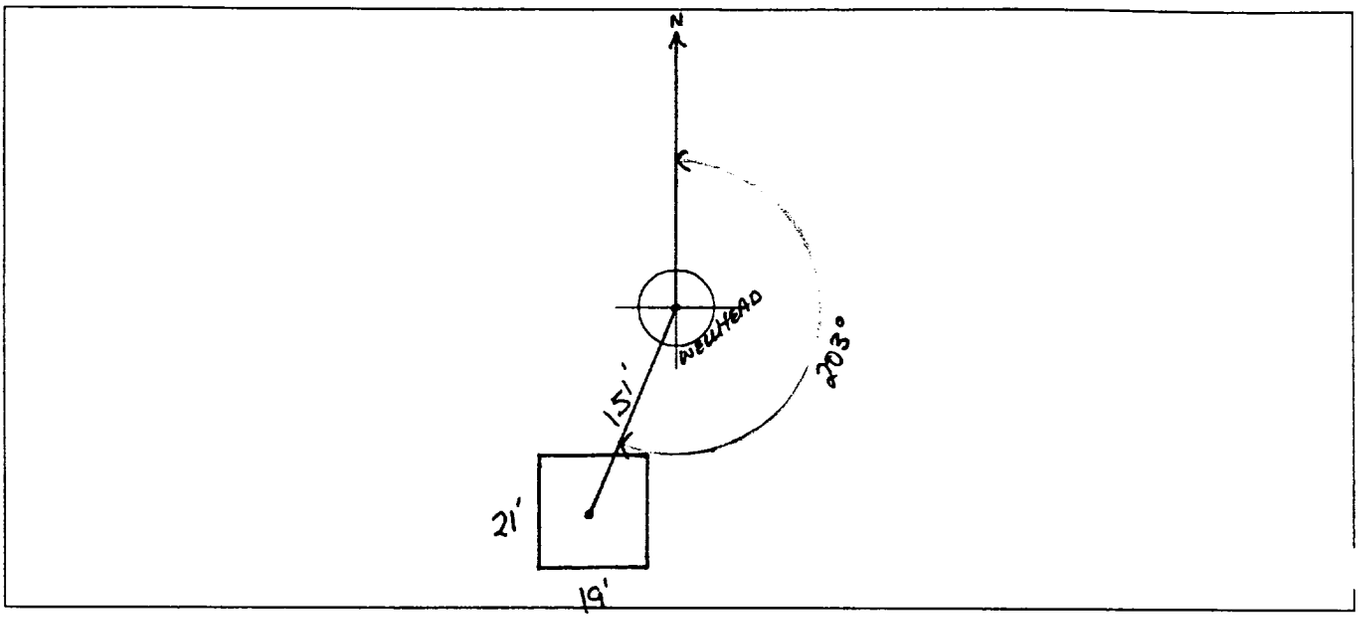
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 203° Footage from Wellhead 151'

b) Length : 21' Width : 19' Depth : 3'



REMARKS

Remarks :

TOOK PICTURES AT
END DUMP

Completed By:

Robert Thompson
Signature

5 4.94
Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 71714 Location: Shultz Com C #7

Coordinates: Letter: L Section 2 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Date Started : 5-13-94 Area: 10 Run: 73

OBSERVATIONS

Sample Number(s): KD57 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 564 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐ (1)	☒ (2)

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 75
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

Envirotech	☐ (1)	☒ (3)	Tierra
Other Facility	☐ (2)	Name:	_____

Pit Closure Date: 5-13-94 Pit Closed By: BEI

REMARKS

Remarks : Excavated pit to 12' Took PID Reading
Closed pit

Signature of Specialist: Kerry Dow

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD57	945169
MTR CODE | SITE NAME:	71714	N/A
SAMPLE DATE | TIME (Hrs):	5-13-94	0950
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-17-94	5|17|94
DATE OF BTEX EXT. | ANAL.:	5|19|94	5|20|94
TYPE | DESCRIPTION:	VC	Brown Grey Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
BENZENE	LO.25	MG/KG	10			
TOLUENE	0.43	MG/KG	10			
ETHYL BENZENE	1.5	MG/KG	10			
TOTAL XYLENES	17	MG/KG	10			
TOTAL BTEX	19	MG/KG				
TPH (418.1)	~~250~~ 248	MG/KG 7/6/94			2.0	28
HEADSPACE PID	564	PPM				
PERCENT SOLIDS	88.5	%				

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

The Surrogate Recovery was at 43 % 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: John Fowler Date: 7/14/94

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

 94/05/17  12:45

  Sample identification
 745149

  Initial mass of sample, g
 2.000

  Volume of sample after extraction, ml
 28.000

  Petroleum hydrocarbons, ppm
 248.206
  Net absorbance of hydrocarbons (2930 cm-1)
 0.031
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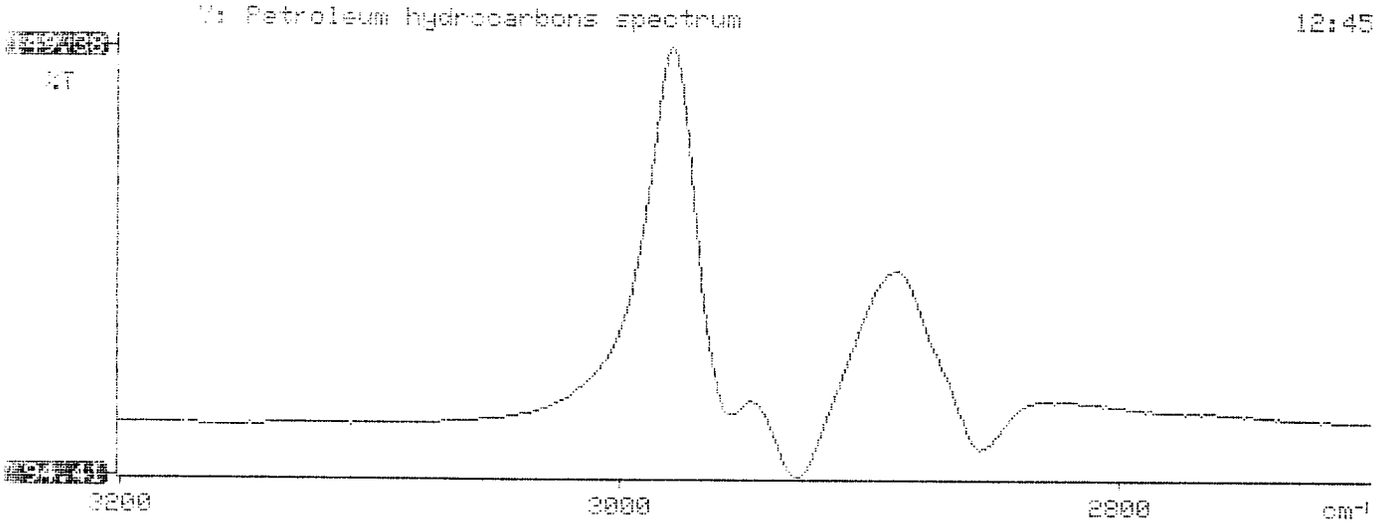
Petroleum hydrocarbons spectrum 12:45



Analytical **Technologies,** Inc.

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

ATI I.D. **405378**

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 **05/18/94**, 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.

Client samples 945004 and 945007 were submitted to Analytical Technologies' Albuquerque laboratory past the recommended EPA holding time. NOTED 6/6/94

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

JUN 1994

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405378

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945169	NON-AQ	05/13/94	05/19/94	05/20/94	10
11	945170	NON-AQ	05/13/94	05/19/94	05/20/94	5
12	945171	NON-AQ	05/13/94	05/19/94	05/21/94	5

PARAMETER	UNITS	10	11	12
BENZENE	MG/KG	<0.25	<0.12	<0.12
TOLUENE	MG/KG	0.43	0.56	<0.12
ETHYLBENZENE	MG/KG	1.5	0.42	0.81
TOTAL XYLENES	MG/KG	17	7.9	9.1
SURROGATE:				
BROMOFLUOROBENZENE (%)		43*	138*	184*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE L LORATION

Borehole # BH-1
Well #
Page 1 of 1

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(506) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase ~~601~~ 6000.7
Project Location Schultz COM C#7, 71714

Elevation
Borehole Location
GWL Depth
Logged By S.Kelly
Drilled By K. Padilla
Date/Time Started 6/20/95, 1315
Date/Time Completed 6/20/95, 1400

Well Logged By S.Kelly
Personnel On-Site K.Padilla, F.Rivera, D.Tisdale
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/H S	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	.5'	silty SAND, light grey, fine to med. sand, loose, damp, well graded		16			63/1444	1325
20	2	20-22	.6'	CLAY, olive grey, non-plastic, firm			0	54	20/288	1335
25	3 (4K) 6/20/95	23-25-27	.5'	SAA, but dk. brown.					0/19	1350
30				BOH - 27'						
35										
40										

Comments: 25'-27' Sample (SEK 17) sent to lab (BTEX and TPH). Sample was bagged and iced before being put in jar. BH grouted to the surface.

Geologist Signature Sarah Kelly

6/14/95\DRILLOG.XLS

Phase II

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:	SEK 17	946917
MTR CODE | SITE NAME:	71714	N/A
SAMPLE DATE | TIME (Hrs):	6-20-95	1350
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-21-95	6-21-95
DATE OF BTEX EXT. | ANAL.:	6-22-95	6-23-95
TYPE | DESCRIPTION:	VG	Brown 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)	53.8	MG/KG			1.97	28
HEADSPACE PID	18	PPM				
PERCENT SOLIDS	82.2	%				

-- 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:

QT 1 Results Attached

DF = Dilution Factor Used

Approved By: _____ **Date:** 7/11/95

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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               *
**************************************************
*
 95/06/21   12:53
*
*  Sample identification
 946917
*
*  Initial mass of sample, g
 1.970
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 53.826
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.017
*
*
*
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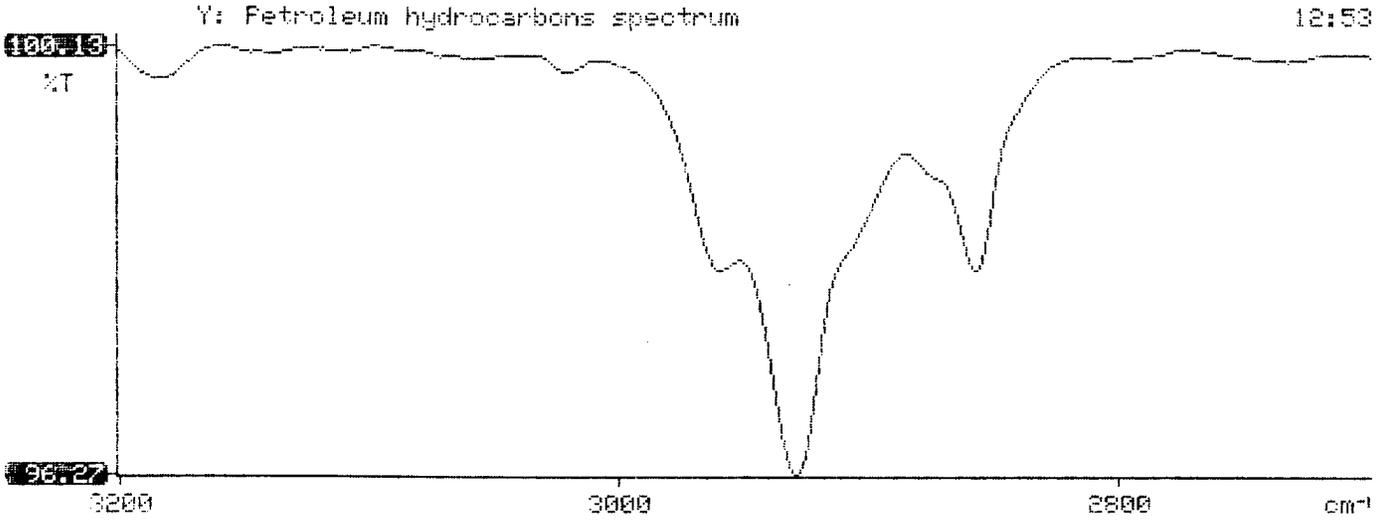


Analytical **Technologies,** Inc.

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.

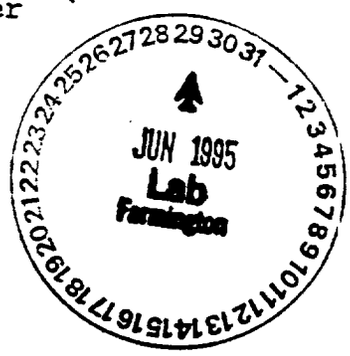
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

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
04	946915	NON-AQ	06/20/95	06/22/95	06/22/95	1
05	946916	NON-AQ	06/20/95	06/22/95	06/22/95	1
06	946917	NON-AQ	06/20/95	06/22/95	06/23/95	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	0.047	<0.025	<0.025
TOTAL XYLENES	MG/KG	0.34	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		113	96	94