

*Penny* **EL PASO FIELD SERVICES**  
**DEPUTY OIL & GAS INSPECTOR**  
**PRODUCTION PIT CLOSURE**

DEC 21 1998

**JOHNSTON FEDERAL #1A (Pit #1)**  
**Meter/Line ID - 89638**

**RECEIVED**  
JUL 2 1998

**OIL CON. DIV.**  
**DIST. 3**

**SITE DETAILS**

*Approved*  
**Legals - Twn: 30 Rng: 09**  
**NMOCD Hazard Ranking: 40**  
**Operator: MERIDIAN OIL INC**

**Sec: 12 Unit: F**  
**Land Type: 2 - Federal**  
**Pit Closure Date: 01/20/95**

**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:

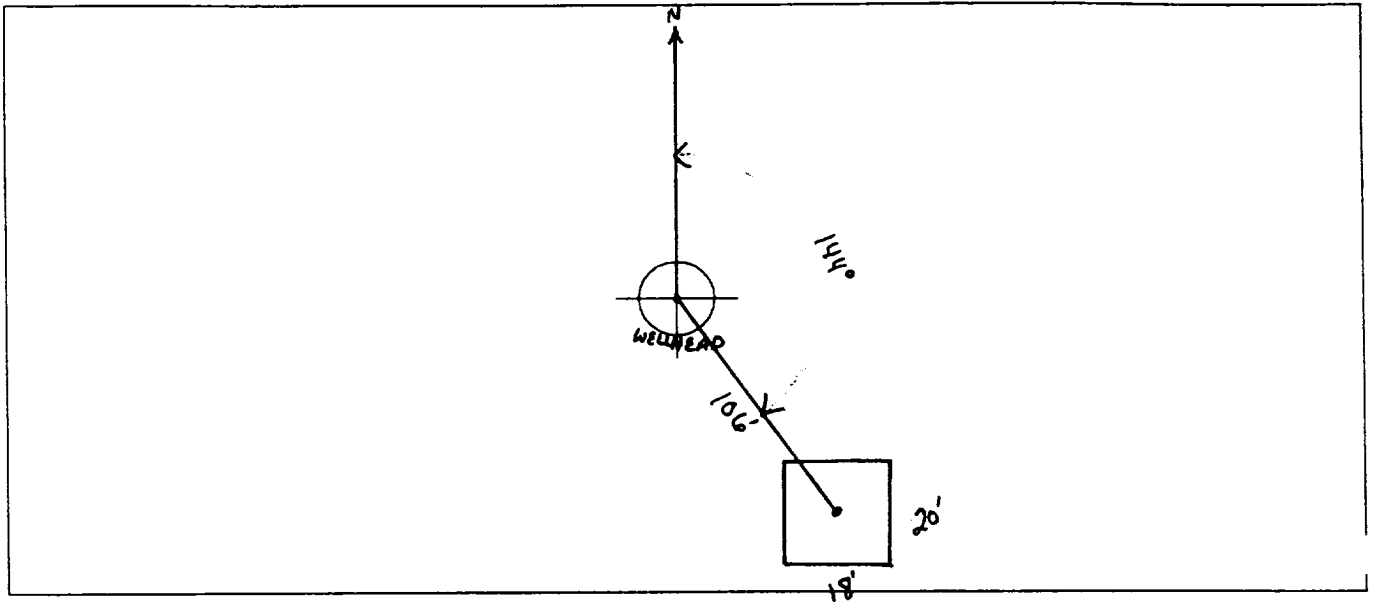
- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All 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

<b>GENERAL</b>	<p>Meter: <u>89638</u> Location: <u>JOHNSTON FEDERAL #1A</u></p> <p>Operator #: <u>0128</u> Operator Name: <u>MERIDIAN</u> P/L District: <u>BLOOMFIELD</u></p> <p>Coordinates: Letter: <u>F</u> Section <u>12</u> Township: <u>30</u> Range: <u>9</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>4.27.94</u> Area: <u>10</u> Run: <u>22</u></p>
<b>SITE ASSESSMENT</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>NMOCD Zone:</b> (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> </div> <div style="width: 45%;"> <p><b>Land Type:</b></p> <p>BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> </div> </div> <p><b>Depth to Groundwater</b></p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p><b>Wellhead Protection Area :</b> 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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p><b>Horizontal Distance to Surface Water Body</b></p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>PUMP CANYON</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) &lt; 100' (Navajo Pits Only) <input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE:</b> <u>20</u> POINTS</p>
<b>REMARKS</b>	<p>Remarks : <u>THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.</u></p> <p><u>LOCATION SITS RIGHT AT THE BASE OF A CLIFF JUST ABOVE PUMP CANYON</u></p> <p><u>WASH. REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE V.I.Z.</u></p> <p style="text-align: right;"><u>DIG &amp; HAUL</u></p>

# ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 144° Footage from Wellhead 106'  
 b) Length : 20' Width : 18' Depth : 2'



## REMARKS :

TOOK PICTURES AT 12:41 P.M.

END DUMP

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Completed By:

Robert Thompson

Signature

4.27.94

Date

# **PHASE I EXCAVATION**

# FIELD PIT REMEDIATION/CLOSURE FORM

<b>GENERAL</b>	<p>Meter: <u>89638</u> Location: <u>JOHNSTON FEDERAL # 1A</u></p> <p>Coordinates: Letter: <u>F</u> Section <u>12</u> Township: <u>30</u> Range: <u>9</u></p> <p style="padding-left: 40px;">Or Latitude _____ Longitude _____</p> <p>Date Started : <u>5-20-94</u> Area: <u>10</u> Run: <u>22</u></p>
<b>FIELD OBSERVATIONS</b>	<p>Sample Number(s): <u>KP# 63</u></p> <p>Sample Depth: <u>10'</u> Feet</p> <p>Final PID Reading <u>328</u> PID Reading Depth <u>10'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet</p>
<b>CLOSURE</b>	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>50</u></p> <p>Onsite Bioremediation <input type="checkbox"/> (2)</p> <p>Backfill Pit Without Excavation <input type="checkbox"/> (3)</p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (3) Tierra</p> <p>Other Facility <input type="checkbox"/> (2) Name: _____</p> <p>Pit Closure Date: <u>5-20-94</u> Pit Closed By: <u>B.E.I</u></p>
<b>REMARKS</b>	<p>Remarks : <u>Some Line marker soil in Pit is DARK Brown</u></p> <p><u>Smell's BAD At 3' down ABOUT 6' soil Turned BLACK Like Shell</u></p> <p><u>10' Hit SAND Stone. PID 328</u></p>
	<p>Signature of Specialist: <u>Kelly Padilla</u></p>



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## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP63	945252
MTR CODE : SITE NAME:	89438	N/A
SAMPLE DATE : TIME (Hrs):	5-20-94	1310
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL:	5/24/94	5/24/94
DATE OF BTEX EXT. ANAL:	5/27/94	6/1/94
TYPE : DESCRIPTION:	VC	grey sand & clay

REMARKS:

## RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.12	MG/KG	5			
TOLUENE	3.7	MG/KG	5			
ETHYL BENZENE	3.6	MG/KG	5			
TOTAL XYLENES	56	MG/KG	5			
TOTAL BTEX	63	MG/KG				
TPH (418.1)	<del>750</del> 752	MG/KG			2.07	28
HEADSPACE PID	328	PPM				
PERCENT SOLIDS	90.4	%				

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

The Surrogate Recovery was at 74 % for this sample All QA/QC was acceptable.

Narrative:

ATJ results attached.

DF = Dilution Factor Used

Approved By:

Date:

7/14/94

Perkin-Elmer Model 1600 FT-IR  
Analysis Report

11/26/2014 10:12

## 2. Sample Identification

Initial names of sample, if any

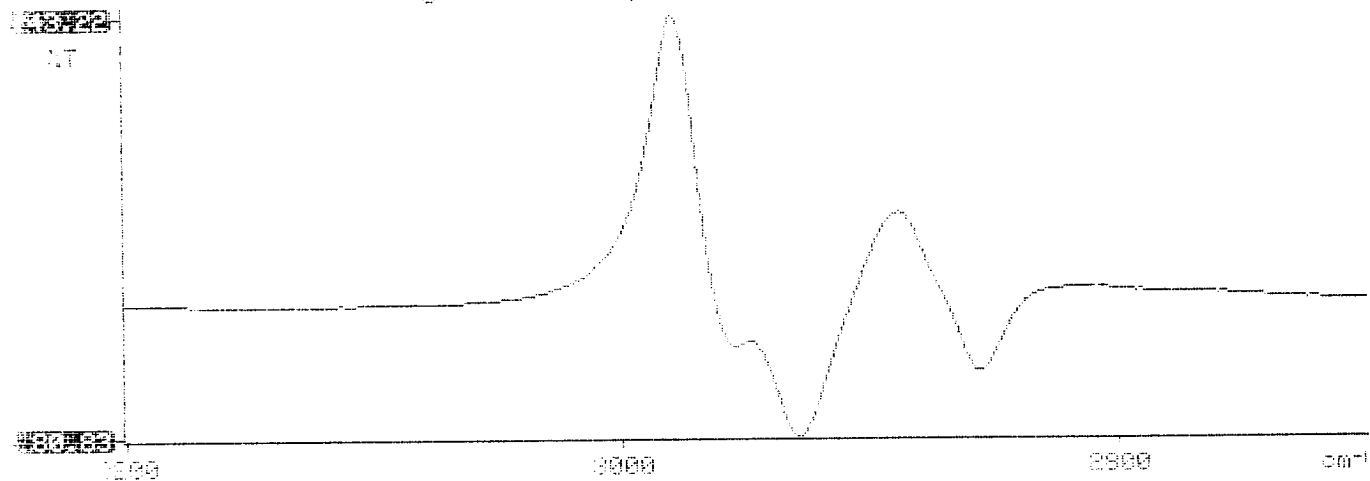
3. Volume of sample after extraction, ml  
25.000

4 Petroleum hydrocarbons, ppm  
751.754

Net absorbance of hydrocarbons (2930  $\text{cm}^{-1}$ )

#### 7.4 Petroleum hydrocarbons spectrum

1991



**ILLEGIBLE**



Analytical **Technologies**, Inc.

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

ATI I.D. **405406**

June 8, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/25/94**, 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.: 405406  
PROJECT # : 24324  
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945251	NON-AQ	05/20/94	05/27/94	06/01/94	1
08	945252	NON-AQ	05/20/94	05/27/94	06/01/94	5
09	945253	NON-AQ	05/20/94	05/27/94	06/02/94	5
PARAMETER			UNITS	07	08	09
BENZENE			MG/KG	<0.025	<0.12	<0.12
TOLUENE			MG/KG	0.060	3.7	4.3
ETHYLBENZENE			MG/KG	<0.025	3.6	1.6
TOTAL XYLENES			MG/KG	0.11	56	30

### SURROGATE:

BROMOFLUOROBENZENE (%)	84	74	43*
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\*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE