

**EL PASO FIELD SERVICES**  
**PRODUCTION PIT CLOSURE**

440-11000

**SAN JUAN UNIT 190**  
**Meter/Line ID - 87689**

**RECEIVED**  
JUL 2 1994

**SITE DETAILS**

**Legals - Twn: 28      Rng: 07      Sec: 27      Unit: A**  
**NMOCD Hazard Ranking: 40**  
**Operator: CONOCO - MESA OPERATING L**

**Land Type: 2 - Federal**  
**Pit Closure Date: 06/15/94**

**OIL CON. DIV.**  
**DISP. 2**

**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:

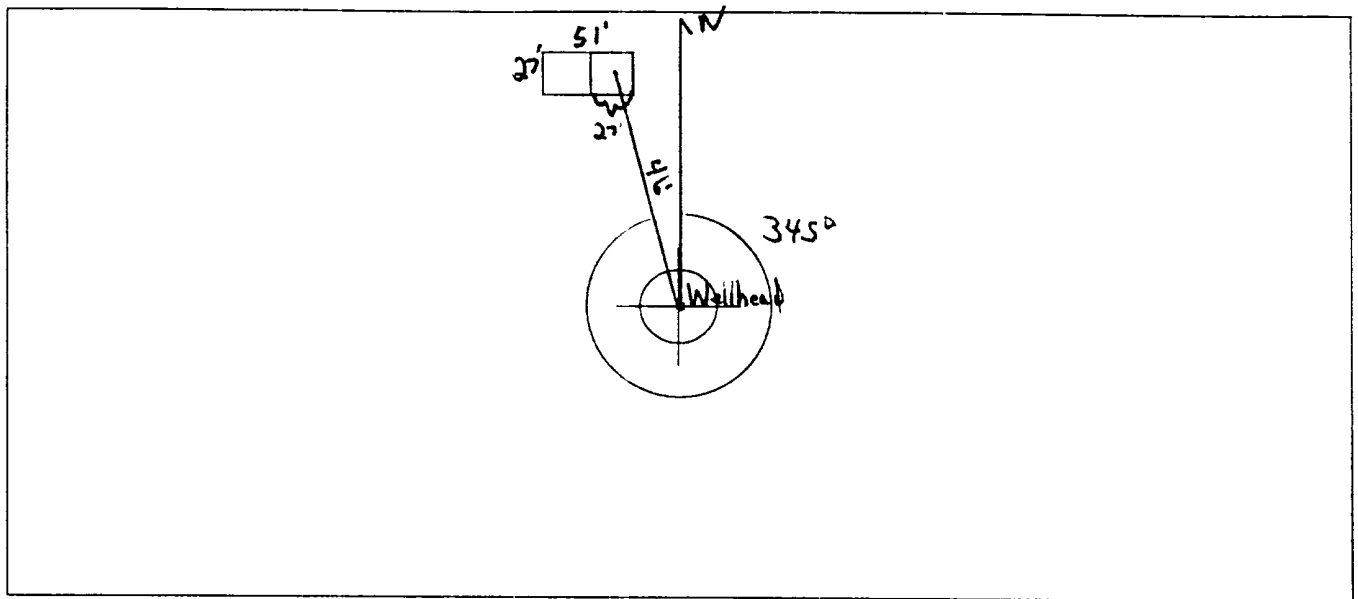
- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All 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	<p>Meter: <u>87689</u> Location: <u>San Juan 28-7 Unit 190</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>Aneso</u> P/L District: <u>Blanco</u></p> <p>Coordinates: Letter: <u>A</u> Section <u>27</u> Township: <u>28</u> Range: <u>7</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>6/2/94</u> Area: <u>03</u> Run: <u>41</u></p>															
	<p><b>NMOCD Zone:</b> (From NMOCD Maps)</p> <p><b>Land Type:</b></p> <table border="0"> <tr> <td>Inside</td> <td><input checked="" type="checkbox"/> (1)</td> <td>BLM</td> <td><input checked="" type="checkbox"/> (1)</td> </tr> <tr> <td>Outside</td> <td><input type="checkbox"/> (2)</td> <td>State</td> <td><input type="checkbox"/> (2)</td> </tr> <tr> <td></td> <td></td> <td>Fee</td> <td><input type="checkbox"/> (3)</td> </tr> <tr> <td></td> <td></td> <td>Indian</td> <td>_____</td> </tr> </table> <p><b>Depth to Groundwater</b></p> <p>Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p><b>Wellhead Protection Area :</b></p> <p>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 checked="" type="checkbox"/> (1)</p> <p>200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Salado Canyon (off Carrizo)</u></p> <p>(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)</p> <p><input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE:</b> <u>40</u> POINTS</p>	Inside	<input checked="" type="checkbox"/> (1)	BLM	<input checked="" type="checkbox"/> (1)	Outside	<input type="checkbox"/> (2)	State	<input type="checkbox"/> (2)			Fee	<input type="checkbox"/> (3)			Indian
Inside	<input checked="" type="checkbox"/> (1)	BLM	<input checked="" type="checkbox"/> (1)													
Outside	<input type="checkbox"/> (2)	State	<input type="checkbox"/> (2)													
		Fee	<input type="checkbox"/> (3)													
		Indian	_____													
REMARKS	<p>Remarks : <u>Redline &amp; Vuln. Inside</u></p> <p><u>4 pits. Will close. Pit Dry</u></p> <p><u>DIG &amp; HAUL</u></p>															

# ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 345° Footage from Wellhead 46'  
 b) Length : 51' Width : 27' Depth : 3'



## REMARKS :

Pictures @ 1158 (19-22)

Dump Truck

Bermed & Fenced area of Pit is 51' x 27'. Actual pit is 27' x 27' x 3'

Completed By:

Cory Chase  
 Signature

6/2/94  
 Date

# **PHASE I EXCAVATION**

# FIELD PIT REMEDIATION/CLOSURE FORM

<b>GENERAL</b>	<p>Meter: <u>87689</u> Location: <u>SAN JUAN 28-7 UNIT 190</u></p> <p>Coordinates: Letter: <u>A</u> Section <u>27</u> Township: <u>28</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>6-15-94</u> Area: <u>03</u> Run: <u>41</u></p>
<b>FIELD OBSERVATIONS</b>	<p>Sample Number(s): <u>KP # 104</u></p> <p>Sample Depth: <u>9'</u> Feet</p> <p>Final PID Reading <u>098</u> PID Reading Depth <u>9'</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>130</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>6-15-94</u> Pit Closed By: <u>BEI</u></p>
<b>REMARKS</b>	<p>Remarks : <u>SOME LINE MARKERS. started Remediating TO 12'</u></p> <p><u>Gone down 9' HIT SAND STONE</u></p>
	<p>Signature of Specialist: <u>Kelly Padilla</u></p>



40

FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP104	945454
MTR CODE   SITE NAME:	87689	N/A
SAMPLE DATE   TIME (Hrs):	6-15-94	1700
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	6/16/94	6/16/94
DATE OF BTEX EXT.   ANAL.:	6/17/94	6/20/94
TYPE   DESCRIPTION:	VC	Grey Sandstone / 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	0.063	MG/KG	1			
TOTAL XYLENES	1.1	MG/KG	1			
TOTAL BTEX	1.2	MG/KG				
TPH (418.1)	399	MG/KG			2.00	2P
HEADSPACE PID	98	PPM				
PERCENT SOLIDS	87.6	%				

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

The Surrogate Recovery was at 147 % for this sample All QA/QC was acceptable.

Narrative:

ATI results attached. Surrogate recovery was out of  
ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Date: 7/14/00

Model - Silver Mode. 1000 FT-IR

Analysis Report

\*\*\*\*\*XX

File Name: 1000

Sample Identification

1000

Sample Name of Sample: 1

1000

Sample of Sample after sample 1: 1

1000

Sample Name of Sample: 1000

1000

Sample Name of Sample (1000 cm-1)

1000

Sample Name of Sample (1000 cm-1)

14145



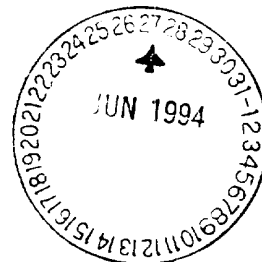
ILLEGIBLE



Analytical **Technologies, Inc.**

3709-D Pan American Freeway, NE Albuquerque, NM 87107  
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 406367



June 24, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/17/94, 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





## GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)  
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 406367  
PROJECT # : 24324  
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945446	NON-AQ	06/14/94	06/17/94	06/20/94	20
08	945453	NON-AQ	06/15/94	06/17/94	06/20/94	1
09	945454	NON-AQ	06/15/94	06/17/94	06/20/94	1
PARAMETER			UNITS	07	08	09
BENZENE			MG/KG	1.9	<0.025	<0.025
TOLUENE			MG/KG	130	<0.025	<0.025
ETHYLBENZENE			MG/KG	20	<0.025	0.063
TOTAL XYLENES			MG/KG	390	0.046	1.1

## SURROGATE:

BROMOFLUOROBENZENE (%) 145\* 95 147\*

\*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

# PHASE II





FIELD SERVICES LABORATORY  
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	PLM 12	947431
MTR CODE   SITE NAME:	87689	San Juan 28-7 Unit 190
SAMPLE DATE   TIME (Hrs):	09-08-95	1051
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-11-95	09-11-95
DATE OF BTEX EXT. ANAL.:	9/12/95	9/14/95
TYPE   DESCRIPTION:	VG	Light grey sand & clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	<del>100</del> 94.6	MG/KG			2.01	28
HEADSPACE PID	1.0	PPM				
PERCENT SOLIDS	94.1	%				

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

The Surrogate Recovery was at 100% for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Approved By: JS

Date: 9-15-95

\*\*\*\*\*  
 \* Test Method for \*  
 \* Oil and Grease and Petroleum Hydrocarbons \*  
 \* in Water and Soil \*  
 \*  
 \* Perkin-Elmer Model 1600 FT-IR \*  
 \* Analysis Report \*  
 \*\*\*\*\*

\* 05/09/11 13:28

\* Sample identification

\* 947431

\* Initial mass of sample, g

\* 2.010

\* Volume of sample after extraction, ml

\* 22.000

\* Petroleum hydrocarbons, ppm

\* 94.153

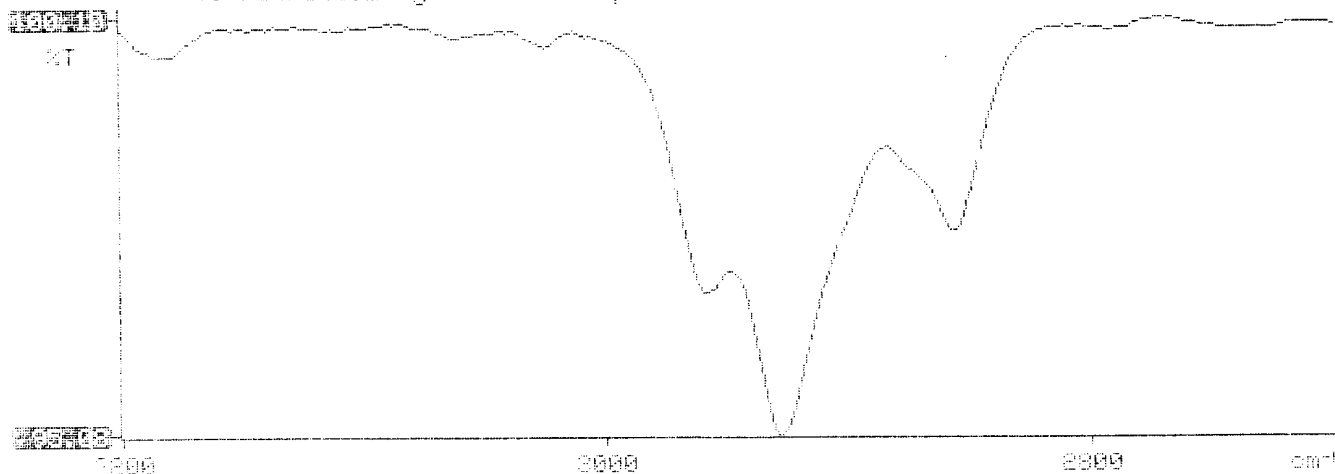
\* Net absorbance of hydrocarbons (2930 cm<sup>-1</sup>)

\* 0.022

\*  
 \*  
 \*

Y: Petroleum hydrocarbons spectrum

13:29



## BTEX SOIL SAMPLE WORKSHEET

File	:	947431	Date Printed	:	9/15/95
Soil Mass (g)	:	4.96	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20161

				Det. Limit	
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000	0.504
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000	0.504
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000	0.504
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000	1.008
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000	0.504
			Total xylenes (mg/Kg):	0.000	1.512
			Total BTEX (mg/Kg):	0.000	

# EL PASO NATURAL GAS

## EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\091495-0.004  
 Method : C:\LABQUEST\METHODS\9000.MET  
 Sample ID : 947431,4.96G,100U  
 Acquired : Sep 14, 1995 13:21:04  
 Printed : Sep 14, 1995 13:51:27  
 User : MARLON

### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.903	58601	-1.1090
a,a,a-TFT	11.333	13595008	105.3354
TOLUENE	14.370	0	0.0000
ETHYLBENZENE	19.387	128975	-1.1806
M,P-XYLENES	19.810	0	0.0000
O-XYLENE	21.083	0	0.0000
BFB	22.823	114250800	100.2306

