

# EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE

OK

**Rincon Unit #64**  
**Meter/Line ID – 71458**

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## SITE DETAILS

Legals - Twn: 27N

Rng: 7W

Sec: 23

Unit: H

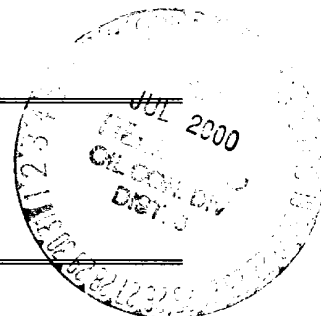
NMOCD Hazard Ranking: 40

Land Type: BLM

Operator: Unocal

Pit Closure Date: 12/02/95

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## **RATIONALE FOR CLOSURE**

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The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A Phase I excavation was conducted on July 6, 1994, to 9.5 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit and bedrock was encountered at 9.5 feet below ground surface. Approximately 80 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 261 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 7.9 mg/kg, and a TPH concentration of 234 mg/kg. TPH was above required remediation levels for the Hazard Ranking Score.

A Phase II drill borehole was conducted on September 9, 1995, and bedrock was encountered at 10 feet below ground surface. A soil sample was not collected for laboratory analysis.

On December 2, 1995, a Phase III excavation was conducted to 10 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit and bedrock was encountered at 10 feet below ground surface. Approximately 40 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 558 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 13.3 mg/kg.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for almost six years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Groundwater was not encountered in the excavations.
- Bedrock was encountered at 10 feet below ground surface; therefore, impact to groundwater is unlikely.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.

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

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- Based on the Hazard Ranking Score, benzene, total BTEX, and TPH were below required remediation levels for the Hazard Ranking Score.
- Excavated material has been removed from the pit eliminating potential direct contact with livestock and the public.

**ATTACHMENT**

Field Pit Assessment Form  
Phase II Geologic Log

Field Pit Remediation/Closure Form Phase I  
Field Pit Remediation/Closure Form Phase III  
Laboratory Analytical Results

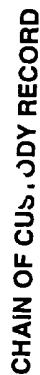
# FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>11458</u> Location: <u>Rincon Unit 64</u>          Operator #: <u>9165</u> Operator Name: <u>Unocal</u> P/L District: <u>Blanco</u>          Coordinates: Letter: <u>4</u> Section <u>23</u> Township: <u>27</u> Range: <u>7</u>          Or Latitude _____ Longitude _____          Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____          Site Assessment Date: <u>6/7/94</u> Area: <u>03</u> Run: <u>32</u></p>
SITE ASSESSMENT	<p><b>NMOCD Zone:</b>          (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p><b>Land Type:</b> BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p><b>Depth to Groundwater</b>          Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1)          50 Ft to 99 Ft (10 points) <input 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>          Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1)          200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)          Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Gomez Canyon (Adjoins Cuervo)</u>          (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)          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>40</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline - Inside, Vul. - Inside</u>  <u>1 pit. Will close Pit Dry</u></p> <p style="text-align: right;"><u>DIG &amp; HAUL</u></p>

# PHASE I EXCAVATION

# FIELD PIT REMEDIATION/CLOSURE FORM

<b>GENERAL</b>	<p>Meter: <u>71458</u> Location: <u>Rincon Unit 64 1/7/94 PR</u></p> <p>Coordinates: Letter: <u>H</u> Section <u>23</u> Township: <u>27</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>7-6-94</u> Area: <u>03</u> Run: <u>32</u></p>
<b>FIELD OBSERVATIONS</b>	<p>Sample Number(s): <u>KP # 118</u></p> <p>Sample Depth: <u>9 1/2</u> Feet</p> <p>Final PID Reading <u>261</u> PID Reading Depth <u>9 1/2</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>80</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>7-6-94</u> Pit Closed By: <u>B.E.I</u></p>
<b>REMARKS</b>	<p>Remarks : <u>Some line markers on location. Started Remediating To 12. Soil Turned dark gray with a smell. Hit sand stone at 9 1/2' soil still the same. Closed Pit Pid 261.</u></p>
	<p>Signature of Specialist: <u>Kelly Pacheco</u></p>



Page \_\_\_\_\_ of \_\_\_\_\_

White - Testing Laboratory      Canary - EPNG Lab      Pink - Field Sampler



# FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP118	945592
MTR CODE   SITE NAME:	71458	N/A
SAMPLE DATE   TIME (Hrs):	7-6-94	1250
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	7-7-94	7/7/94
DATE OF BTEX EXT.   ANAL.:	7/8/94	7/11/94
TYPE   DESCRIPTION:	VC	Grey Brown Sandstone/Clay

REMARKS:

#### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.5	MG/KG	20			
TOLUENE	2.0	MG/KG	20			
ETHYL BENZENE	0.71	MG/KG	20			
TOTAL XYLENES	4.7	MG/KG	20			
TOTAL BTEX	7.9	MG/KG				
TPH (418.1)	234	MG/KG			2.02	28
HEADSPACE PID	261	PPM				
PERCENT SOLIDS	88.4	%				

— 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

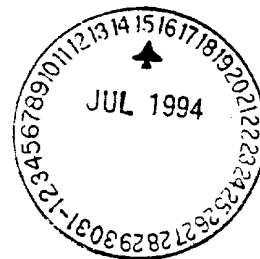
8/8/94



Analytical **Technologies**, Inc.

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

ATI I.D. **407327**



July 14, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **07/08/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **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.

Due to background interference in the sample the MS/MSD values were evaluated just outside ATI Quality Control (QC) limits.

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

## GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)  
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407327  
PROJECT # : 24324  
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	945592	NON-AQ	07/06/94	07/08/94	07/11/94	20

PARAMETER	UNITS	13
BENZENE	MG/KG	<0.5
TOLUENE	MG/KG	2.0
ETHYLBENZENE	MG/KG	0.71
TOTAL XYLENES	MG/KG	4.7

## SURROGATE:

BROMOFLUOROBENZENE (%) 98

# RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1

Well #

Page 1 of 1

Project Name EPNG PITS

Project Number 14509 Phase 6000.77

Project Location Disposal Unit 64 71458

Elevation

Borehole Location RH-523-T27-R7

GWL Depth

Logged By Phillip Moss

Drilled By S. Snider

Date/Time Started 9-9-95/12:15

Date/Time Completed 9-9-95/12:45

Well Logged By Phillip Moss

Personnel On-Site S. Snider, D. Roberts, P. Moss

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4 I.D. 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			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				Backfill to 9 1/2'						
5										
10										
15				11' Hit metallic sounding object, considerable resistance to augers. Backed off the location. No sampling.						
20										
25										
30										
35										
40										

Comments:

No sample was collected. Augers hit metallic sounding object (Auger refusal). 1 bag of hole plug put in and back filled with soil.

Geologist Signature

Phillip L. Moss

# FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

GENERAL	<p>Meter: <u>71458</u> Location: <u>Rincon Unit #64</u></p> <p>Coordinates: Letter: <u>H</u> Section <u>23</u> Township: <u>27</u> Range: <u>07</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12-2-95</u> Area: <u>03</u> Run: <u>22</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>4P98</u></p> <p>Sample Depth: <u>10</u> Feet</p> <p>Final PID Reading <u>558</u> PID Reading Depth <u>10</u> Feet</p> <p>Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet</p> <p>Final Dimensions: Length <u>22</u> Width <u>22</u> Depth <u>10</u></p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>40</u> LT <u>12/5/95</u></p> <p>Onsite Bioremediation <input type="checkbox"/> (2)</p> <p>Backfill Pit Without Excavation <input type="checkbox"/> (3)</p> <p>Overburden Cubic Yards <u>11</u> LT <u>12/5/95</u></p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> (1) <input type="checkbox"/> (3) Tierra</p> <p>Other Facility <input type="checkbox"/> (2) Name: _____</p> <p>Pit Closure Date: <u>12-2-95</u> Pit Closed By: <u>Philips Env.</u></p> <p><u>Phase III</u></p>
MARKS	<p>Remarks : <u>Dug to Ft hit hard sandstone could not dig through with track hoe. Took PID readings N wall 04 ppm S wall 32 ppm E wall 07 ppm W wall 12 ppm Bottom 350 ppm Comp sample was 558 ppm</u></p>
	<p>Signature of Specialist: <u>James J. Lewis</u></p>



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JP 98	947824
MTR CODE   SITE NAME:	7/458	Rincon Unit #64
SAMPLE DATE   TIME (Hrs):	12-1-95	1200
PROJECT:	Phase III Excavation	
DATE OF TPH EXT.   ANAL.:	12/6/95	
DATE OF BTEX EXT.   ANAL.:	12/4/95	12/4/95
TYPE   DESCRIPTION:	VC	Light brown fine sand & clay

Field Remarks: (N-04)(S-32)(E-07)(W-12)

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)	133	MG/KG			2.0	28
HEADSPACE PID	558	PPM				
PERCENT SOLIDS	92.1	%				

-- 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:

DF = Dilution Factor Used

Approved By: JS

Date: 12-7-95

# BTEX SOIL SAMPLE WORKSHEET

<b>File</b>	<b>:</b>	947824	<b>Date Printed</b>	<b>:</b>	12/5/95
<b>Soil Mass (g)</b>	<b>:</b>	4.97	<b>Multiplier (L/g)</b>	<b>:</b>	0.00101
<b>Extraction vol. (mL)</b>	<b>:</b>	10	<b>CAL FACTOR (Analytical)</b>	<b>:</b>	200
<b>Shot Volume (uL)</b>	<b>:</b>	50	<b>CAL FACTOR (Report)</b>	<b>:</b>	0.20121

		<b>DILUTION FACTOR:</b>	<b>1</b>	<b>Det. Limit</b>
<b>Benzene (ug/L)</b>	<b>:</b>	0.17	<b>Benzene (mg/Kg):</b>	<b>0.034</b> 0.503
<b>Toluene (ug/L)</b>	<b>:</b>	1.13	<b>Toluene (mg/Kg):</b>	<b>0.227</b> 0.503
<b>Ethylbenzene (ug/L)</b>	<b>:</b>	0.37	<b>Ethylbenzene (mg/Kg):</b>	<b>0.074</b> 0.503
<b>p &amp; m-xylene (ug/L)</b>	<b>:</b>	2.28	<b>p &amp; m-xylene (mg/Kg):</b>	<b>0.459</b> 1.006
<b>o-xylene (ug/L)</b>	<b>:</b>	0.65	<b>o-xylene (mg/Kg):</b>	<b>0.131</b> 0.503
			<b>Total xylenes (mg/Kg):</b>	<b>0.590</b> 1.509
			<b>Total BTEX (mg/Kg):</b>	<b>0.926</b>