

# EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE

Risk  
BTEX  
TPH

Valencia Canyon #11  
Meter/Line ID – 90063

## SITE DETAILS

Legals - Twn: 28N

Rng: 4W

Sec: 26

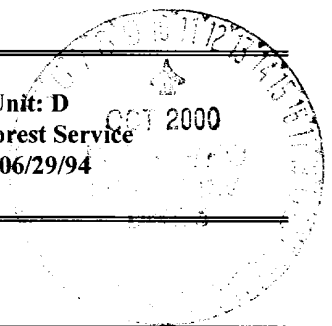
Unit: D

NMOCD Hazard Ranking: 20

Land Type: US Forest Service

Operator: Amoco

Pit Closure Date: 06/29/94



## RATIONALE FOR RISK-BASED CLOSURE

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 June 29, 1994, to 12 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. Approximately 90 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 433 ppm; laboratory analysis indicated a benzene concentration of 3.2 mg/kg, a total BTEX concentration of 204 mg/kg, and a TPH concentration of 2590 mg/kg. TPH and total BTEX were above required remediation levels for the Hazard Ranking Score.

On June 27, 1995, a Phase II borehole was conducted to 30 feet below ground surface where bedrock was encountered. Groundwater was not encountered in the borehole. The borehole was grouted to the surface in a manner to direct surface runoff away from the pit area.

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 six years.
- The 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 or borehole.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Bedrock was encountered at 30 feet below ground surface; consequently, impact to groundwater is unlikely.
- Excavated material has been removed from the pit eliminating potential direct contact with livestock and the public.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- The pit was excavated to the practical extent of the equipment, according to EPNG's pit closure plan.

# FIELD PIT SITE ASSESSMENT FORM

## GENERAL

Meter: 90063 Location: VALENCIA CANYON #11  
 Operator #: 0203 Operator Name: AMOC P/L District: BLOOMFIELD  
 Coordinates: Letter: D Section 26 Township: 28 Range: 4  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Pit Type: Dehydrator \_\_\_\_\_ Location Drip: X Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
 Site Assessment Date: 5-15-94 Area: 10 Run: 62

## SITE ASSESSMENT

### NMOCD Zone:

(From NMOCD  
Maps)

Inside

Outside

### Land Type:

BLM ☐ (1)

State ☐ (2)

Fee ☐ (3)

Indian \_\_\_\_\_

FOREST ☒

### 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)

Name of Surface Water Body \_\_\_\_\_

(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: 20 POINTS

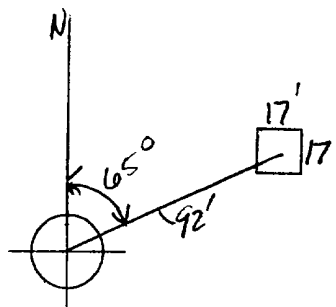
## REMARKS

Remarks : 2 PITS ON LOCATION, ONE PIT TO CLOSE

# ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 65° Footage from Wellhead 89'  
 b) Length : 17' Width : 17' Depth : 2'

ORIGINAL PIT LOCATION



## Remarks :

PHOTOGRAPHS AH-7(1-4)

REMARKS

Completed By:

*[Signature]*

Signature

5-15/94

Date

# FIELD PIT REMEDIATION/CLOSURE FORM

<b>GENERAL</b>	<p>Meter: <u>90063</u> Location: <u>VALENCIA CANYON #11</u></p> <p>Coordinates: Letter: <u>D</u> Section <u>26</u> Township: <u>28</u> Range: <u>4</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>6-29-94</u> Area: <u>10</u> Run: <u>62</u></p>
<b>FIELD OBSERVATIONS</b>	<p>Sample Number(s): <u>KP# 113</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>433</u> PID Reading Depth <u>12'</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>90</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>6-29-94</u> Pit Closed By: <u>B.E.I</u></p>
<b>REMARKS</b>	<p>Remarks : <u>SOME LINE MARKERS STARTED REMEDIATING TO 12'</u></p> <p><u>SOIL TURNED DARK GRAY. WITH A SMELL. AT 12' SOIL STILL</u></p> <p><u>THE SAME.</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:	KP113	945553
MTR CODE   SITE NAME:	90063	N/A
SAMPLE DATE   TIME (Hrs):	6-29-94	10:19
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	6-30-94	6/30/94
DATE OF BTEX EXT.   ANAL.:	7/7/94	7/7/94
TYPE   DESCRIPTION:	VC	Dark brown fine sand & clay

REMARKS:

## RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	3.2	MG/KG	20			
TOLUENE	45	MG/KG	20			
ETHYL BENZENE	16	MG/KG	20			
TOTAL XYLENES	140	MG/KG	20			
TOTAL BTEX	204	MG/KG				
TPH (418.1)	2590	MG/KG			2.04	28
HEADSPACE PID	433	PPM				
PERCENT SOLIDS	87.0	%				

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

The Surrogate Recovery was at 195% 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:

Date:

7/17/94



Analytical Technologies, Inc.

### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)  
CLIENT : EL PASO NATURAL GAS CO.      ATI I.D.: 107301  
PROJECT # : 24324  
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945552	NON-AQ	06/29/94	07/07/94	07/07/94	1
11	945553	NON-AQ	06/29/94	07/07/94	07/07/94	20
PARAMETER			UNITS	10	11	
BENZENE			MG/KG	<0.025	3.2	
TOLUENE			MG/KG	<0.025	45	
ETHYLBENZENE			MG/KG	<0.025	16	
TOTAL XYLENES			MG/KG	0.030	140	

SURROGATE:

BROMOFLUOROBENZENE (%)      90      195\*

\*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



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

ATI I.D. 407301

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



Attention: John Lambdin

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

Spate Keakowh

Letitia Krakowski, Ph.D.  
Project Manager

# Mitchell Hunt

H. Mitchell Rubenstein, Ph.D.  
Laboratory Manager

MR: j t

Enclosure



## CHAIN OF CUSTODY RECORD

[illegible]



# RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.  
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 601-2000  
Project Location Valencia Canyon #11, 90063

Elevation \_\_\_\_\_  
Borehole Location T29, R4, S. 26, P  
GWL Depth \_\_\_\_\_  
Logged By S. Kelly  
Drilled By K. Padilla  
Date/Time Started 6/27/95, 0855  
Date/Time Completed 6/27/95, 1100

Well Logged By S. Kelly  
Personnel On-Site K. Padilla, F. Rivera, D. Charley  
Contractors On-Site \_\_\_\_\_  
Client Personnel On-Site \_\_\_\_\_  
Drilling Method 4 1/4" ID HSD  
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			Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	1.2'	SAND, brown, fine to med grain, loose, damp.		18	0	0	352 664	0905
20	2	20-22	.7'	clayey SAND, fine sand, trace silt, dk. brown, loose damp.		23			319 551	0915
25	3	25-27	.3'	silty SAND, light tan, fine sand, 10-25% silt, very dense					595 972	spoon only driven 2" Feels like 0925 weathered rock
30	4	30-32	.15'	SAND, w/ trace clay.			13	113	241 610	spoon only driven 0943 2"
35				Bottom - 30'						
40										

Comments:

Auger refusal at 30'. No sample taken due to high headspace readings at refusal. BH grouted to surface

Geologist Signature

Sarah Kelly