

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Risk
bedrock
did not
define extent
of plume*

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone _____

Address: 30-045-23813

Facility Or: Price 2, Meter 93509

Well Name _____

Location: Unit or Qtr/Qtr Sec O Sec 13 T 28 R 8 County San Juan

Pit Type: Separator _____ Dehydrator X Other _____

Land Type: BLM _____, State _____, Fee X Other _____

Pit Location: Pit dimensions: length 31', width 28', depth 4'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 133'

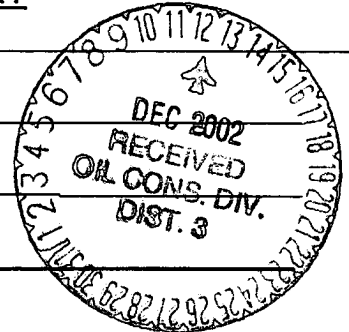
Direction from reference: 55 Degrees X East North _____
of
_____ West South _____

Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points) <u>20</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes (20 points)
(Less than 200 feet from a private	No (0 points) <u>0</u>
domestic water source, or; less than	
1000 feet from all other water sources.)	

Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 20



Date Remediation Started: 02/22/95 Date completed: 02/22/95

Remediation Method: Excavation X Approx. cubic yards 40

(Check all appropriate sections.)

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite _____ Offsite Envirotech
(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: Came to this location on 8/5/94. Excavated it. I took a sample. Hit rock 6'.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit:
Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location Four walls and center of pit composite

Sample depth 6'

Sample Date 02/22/95 Sample time 16:00

Sample Results

Benzene(ppm) <0.98

Total BTEX(ppm) 9.30

Field headspace(ppm) 719

TPH 147

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Date 1/8/03

Signature

Printed Name
and Title

Scott T. Pope
Senior ENV. Scientist



PIT CLOSURE REQUEST

Price 2
Meter/Line ID 93509

SITE DETAILS

Legals - Twn: 28N

Rng: 8W

Sec: 13

Unit: O

NMOCD Hazard Ranking: 20

Land Type: Fee

Operator: Amoco Production Company

Pit Closure Date: 2/22/95



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 test pit was excavated to 6 feet (ft) below ground surface (bgs) where bedrock was encountered and a soil sample was collected for field headspace analysis and laboratory analysis for TPH and BTEX. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 719 ppm; laboratory analysis indicated a benzene concentration of <0.98 mg/kg, a total BTEX concentration of 9.30 mg/kg, and a TPH concentration 147 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 20.

Approximately 40 cubic yards of soil were excavated and hauled to Envirotech, a commercial landfarm, for treatment and disposal. The pit was backfilled with clean soil and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed with refusal at 32 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 25-27 ft bgs. Headspace analysis indicated an organic vapor content of 153 ppm; laboratory analysis indicated a benzene concentration of 2.1 mg/kg, a total BTEX concentration of 130 mg/kg, and a TPH concentration of 1,280 mg/kg. The benzene concentration was below recommended remediation levels for the Hazard Ranking Score; total BTEX and TPH were above these levels.

No Phase III activities were conducted.

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

- The primary source, discharge to the pit, has been removed for over seven years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Backfilling the pit with clean soil eliminated the potential for direct contact with hazardous constituents by livestock or the public; i.e., direct contact exposure pathways are incomplete.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Groundwater was not encountered in the soil boring to 32 ft bgs.
- Bedrock was encountered at 6 ft bgs making further excavation impractical.



PIT CLOSURE REQUEST

- Residual hydrocarbons in soil will likely degrade by natural attenuation with minimal risk to human health and the environment.

ATTACHMENTS

Field Pit Assessment Form
Revised Field Pit Assessment Form
Field Pit Remediation/Closure Form
Phase II Soil Boring Log
Laboratory Analytical Results

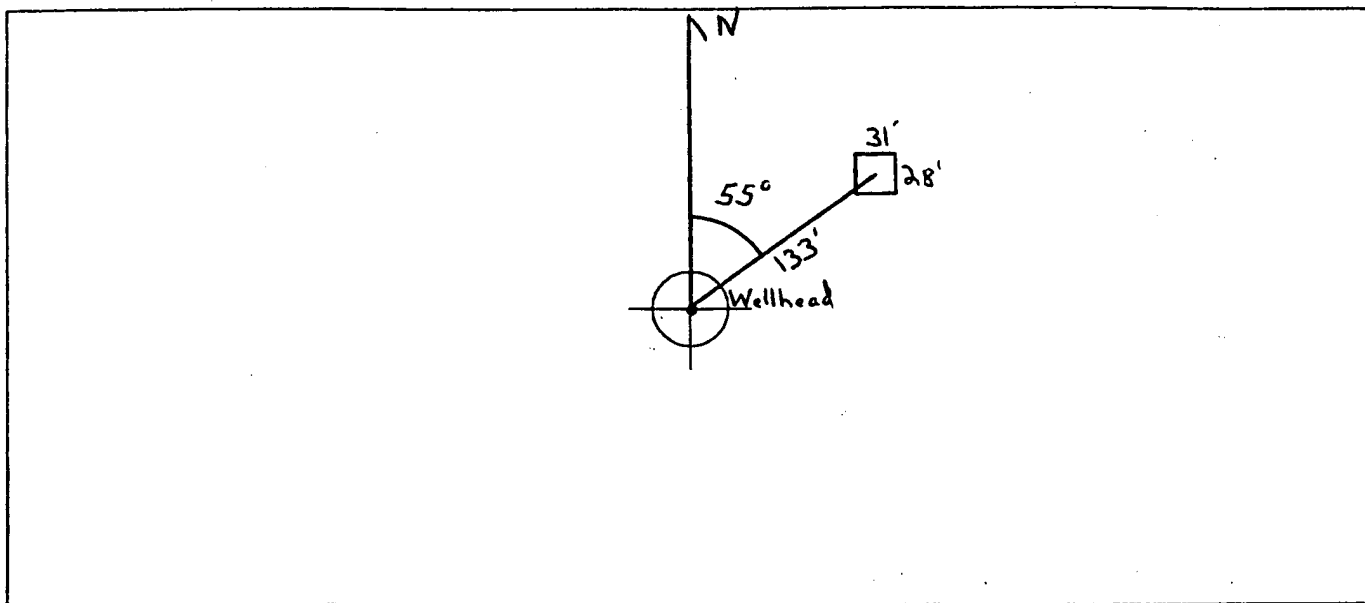
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>93509</u> Location: <u>Price 2</u> Operator #: <u>0203</u> Operator Name: <u>Ameco</u> P/L District: <u>Blanco</u> Coordinates: Letter: <u>0</u> Section <u>13</u> Township: <u>28</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>6/9/94</u> Area: <u>13</u> Run: <u>42</u>	
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)	
	Land Type: BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____ Patented Lands _____	
REMARKS	Depth to Groundwater 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)	
	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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)	
Horizontal Distance to Surface Water Body 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)		
Name of Surface Water Body <u>Vallejo Canyon</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)		
Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'		
TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS		
Remarks : <u>Redline + Vuln - Inside</u> <u>4 pits. Will close 1 pit Dry. Dehy still on pit. Appears to be operating. Has not been transferred to operator according to Dehy Book</u>		

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 55° Footage from Wellhead 133'
b) Length : 31' Width : 28' - Depth : 4'



REMARKS

Remarks :

Pictures @ 1115 (15-19)
Dump Truck

Completed By:

Cory Chase
Signature

6/9/94
Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93509 Location: PRICE 2
Operator #: 0203 Operator Name: AMOCO P/L District: BLANCO
Coordinates: Letter 0 Section 13 Township: 28 Range: 8
or Latitude _____ Longitude _____
Pit Type: Dehydrator X Location Drip: _____ Line Drip: _____ Other: _____
Site Assessment Date: 6/9/94 Area: 13 Run: 42
Revised Date: _____

SITE ASSESSMENT

NMOCD Zone: (from NMCOD Maps) **Land Type:** BLM ☐ (1)
State ☐ (2)
Fee ☐ (3)
Indian _____
Inside ☒ (1)
Outside ☐ (2)

Depth to Groundwater

Less than 50 Feet (20 points) ☒ (1)
50 Feet to 99 Feet (10 Points) ☐ (2)
Greater than 100 Feet (0 Points) ☐ (3)

Well Protection Area

Is it less than 1000 feet from well, spring or other source of fresh water extraction?
or; Is it less than 200 feet from a private domestic water source?

☐ YES (20 Points) ☒ NO (0 Points)

Horizontal Distance to Surface Water Body

Less than 200 Feet (20 points) ☐ (1)
200 Feet to 1000 Feet (10 Points) ☐ (2)
Greater than 1000 Feet (0 Points) ☒ (3)

Name of Surface Water Body VALLEJO CANYON

(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)

Distance to Nearest Ephemeral Stream ☐ (1) < 100 feet (Navajo Pits Only)
☐ (2) > 100 feet

TOTAL HAZARD RANKING SCORE 20 **POINTS**

REMARKS

Remarks: REVISION BASED ON RE ASSESSMENT OF
DISTANCE TO NEAREST SURFACE WATER BODY.

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93509 Location: Price #2
 Coordinates: Letter: 0 Section 13 Township: 28 Range: 8
 Or Latitude _____ Longitude _____
 Date Started : 2-22-95 Run: 13 42

FIELD OBSERVATIONS

Sample Number(s): MK 397
 Sample Depth: 6' Feet
 Final PID Reading 719 PPM PID Reading Depth 6' Feet
 Yes No
 Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation ☒ Approx. Cubic Yards 40
 Onsite Bioremediation ☐
 Backfill Pit Without Excavation ☐
 Soil Disposition:
 Envirotech ☒ ☐ Tierra
 Other Facility ☐ Name: _____
 Pit Closure Date: 2-22-95 Pit Closed By: BEI

REMARKS

Remarks : Came to this location ON 8-5-94 EXCAVATED IT
I took a ITH sample but I didn't get a BETX I
hit rock at 6'
3/19/96

Signature of Specialist: Morgan Killion



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 397	92/6697
MTR CODE SITE NAME:	93509	N/A
SAMPLE DATE TIME (Hrs):	2-22-95	1600
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	2-28-95	2-28-95
DATE OF BTEX EXT. ANAL.:	2/26/95	3/3/95
TYPE DESCRIPTION:	UG	Gray powder

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.98	MG/KG	0.19685		254	20
TOLUENE	1.36	MG/KG	1		1	1
ETHYL BENZENE	<0.98	MG/KG	1		1	1
TOTAL XYLENES	7.94	MG/KG				
TOTAL BTEX	9.30	MG/KG				
TPH (418.1)	147	MG/KG			1.95	28
HEADSPACE PID	719	PPM				
PERCENT SOLIDS	90.8	%				

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

Surrogate Recovery was at 81.5 % for this sample All QA/QC was acceptable.
Reactive:

DF = Dilution Factor Used

Date: 3-20-95

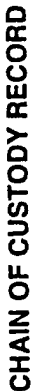
BTEX SOIL SAMPLE WORKSHEET

File : 946697B
Soil Mass (g) : 2.54
Extraction vol. (mL) : 20
Shot Volume (uL) : 200

Date Printed : 3/7/95
Multiplier (L/g) : 0.00197
DF (Analytical) : 100
DF (Report) : 0.19685

			Det. Limit
Benzene (ug/L) :	0.00	Benzene (mg/Kg):	0.000 0.984
Toluene (ug/L) :	6.92	Toluene (mg/Kg):	1.362 0.984
Ethylbenzene (ug/L) :	1.60	Ethylbenzene (mg/Kg):	0.315 0.984
p & m-xylene (ug/L) :	33.81	p & m-xylene (mg/Kg):	6.656 1.969
o-xylene (ug/L) :	6.52	o-xylene (mg/Kg):	1.283 0.984
		Total xylenes (mg/Kg):	7.939 2.953
		Total BTEX (mg/Kg):	9.616

1 1
7.94
1.36
9.30



THE UNIVERSITY OF CHICAGO

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 Police 2 93509

Elevation
Borehole Location QD-S13-T28-R8
GWL Depth
Logged By Phillip Moss
Drilled By K. Padilla
Date/Time Started 2/6/95 / 12:02
Date/Time Completed 2-6-95 / 13:55

Well Logged By Phillip Moss
Personnel On-Site K. Padilla, E. Rucan, 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 6'.						
5										
10	1	10-12	SS 14"	Mudstone, poorly-cemented, laminar, gray, hydrocarbon odor			1	28	307 340	-12:13
15	2	15-17	SS 14"	Mudstone, poorly-cemented, thin-bedded, dark reddish brown and gray, hydrocarbon odor			6	230	220 316 314	plm 2/6/95 -12:19
20	3	20-22	SS 5.5"	Mudstone, poorly-cemented, thin-bedded, gray, strong hydrocarbon odor.			58	331	405 317	-12:35
25	4	25-27	SS 6"	Mudstone, poorly-cemented, thin-bedded, dark reddish brown and gray, strong hydrocarbon odor.			19	337	301 153	-12:52
30	5	30-32	SS 0"	Refusal			73	247	247 NA	plm 2/6/95
35				TO at 32'. Auger refusal						
40										

Comments:

PLM 7 sent to Lab for BTEX + TPH analysis. Field PID > 50 ppm
because of auger refusal. BH grouted to the surface. Sample
logged and used prior to packing it in the jar.

Geologist Signature

Phillip L. Moss

Phase II Drill



Ebasco
Natural Gas Company

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		REMARKS	
LAB ID		DATE		TIME		MATRIX		SAMPLE NUMBER	
407	9/16/95	11:01	50.1	PLM 6	1	11/5	X	X	4 5
408	9/16/95	12:52	50.1	PLM 7	1	11/5	X	X	5 153
<div style="display: flex; justify-content: space-between;"> <div> <p>RELINQUISHED BY: (Signature)</p> <p>DATE/TIME</p> </div> <div> <p>RECEIVED BY: (Signature)</p> <p>DATE/TIME</p> </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> <p>RELINQUISHED BY: (Signature)</p> <p>DATE/TIME</p> </div> <div> <p>RECEIVED BY: (Signature)</p> <p>DATE/TIME</p> </div> </div>									

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH

CARRIER CO.

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY

EL PASO NATURAL GAS COMPANY

P. O. BOX 4990

FARMINGTON, NEW MEXICO 87499

CHARGE CODE

BILL NO.:

505-599-2261

FAX: 505-599-2261

White - Testing Laboratory



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	PLM7	941408
MTR CODE SITE NAME:	93509	Price 2
SAMPLE DATE TIME (Hrs):	09-06-95	1252
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-8-95	
DATE OF BTEX EXT. ANAL.:	9/8/95	9/11/95
TYPE DESCRIPTION:	V6	DARK BROWN SANDY SILTSTONE

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	2.1	MG/KG				
TOLUENE	59.7	MG/KG		D1		
ETHYL BENZENE	4.1	MG/KG				
TOTAL XYLENES	63.6	MG/KG				
TOTAL BTEX	130	MG/KG				
TPH (418.1)	1280	MG/KG			220	28
HEADSPACE PID	153	PPM				
PERCENT SOLIDS	94.5	%				

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

Surrogate Recovery was at 87% for this sample All QA/QC was acceptable.

Narrative:

Toluene is over calibration range

DF = Dilution Factor Used

BTEX SOIL SAMPLE WORKSHEET

File : 947408
Soil Mass (g) : 5.19
Extraction vol. (mL) : 20
Shot Volume (uL) : 100

Date Printed : 9/13/95
Multiplier (L/g) : 0.00096
DF (Analytical) : 200
DF (Report) : 0.19268

			Det. Limit
Benzene (ug/L) :	10.90	Benzene (mg/Kg):	2.100 0.482
Toluene (ug/L) :	310.00	Toluene (mg/Kg):	59.730 0.482
Ethylbenzene (ug/L) :	21.30	Ethylbenzene (mg/Kg):	4.104 0.482
p & m-xylene (ug/L) :	322.00	p & m-xylene (mg/Kg):	62.042 0.963
o-xylene (ug/L) :	8.06	o-xylene (mg/Kg):	1.553 0.482
		Total xylenes (mg/Kg):	63.595 1.445
		Total BTEX (mg/Kg):	129.530