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

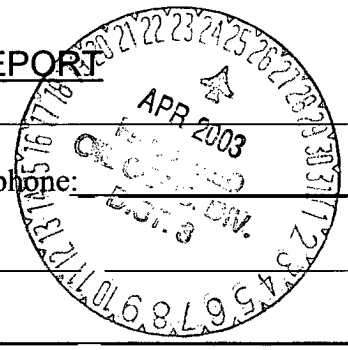
Risk based OK Plume not completely defined

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-20058



Operator: Amoco (*Site Closed by El Paso Field Services*) Telephone: _____

Address: _____

Facility Or: State Com G #8, Meter 75681
Well Name

Location: Unit or Qtr/Qtr Sec I Sec 16 T 30 R 9 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 26', width 20', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 194'

Direction from reference: 146 Degrees X East North _____ of _____ West South _____

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet to 99 feet	(10 points)
	Greater than 100 feet	(0 points) 20
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Yes	(20 points)
	No	(0 points) 0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet	(20 points)
	200 feet to 1000 feet	(10 points)
	Greater than 1000 feet	(0 points) 0

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 05/09/94 Date completed: 05/09/94

Remediation Method: (Check all appropriate sections.) Excavation X Approx. cubic yards 105

Landfarmed _____ Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: This location also very sandy. Took excavation to 12', took PID reading, closed pit.

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 12'

Sample Date 05/09/94 Sample time 13:10

Sample Results

Benzene(ppm) 0.56

Total BTEX(ppm) 279

Field headspace(ppm) 679

TPH 22,900

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 4/22/03

Signature _____ Printed Name and Title Scott Pope, Senior Environmental Scientist

elpaso

PIT CLOSURE REQUEST

State Com G #8
Meter/Line ID 75681

SITE DETAILS

Legals - Twn: 30N	**Rng: 9W**	**Sec: 16**	**Unit: I**
NMOCD Hazard Ranking: 20		**Land Type: State**	
Operator: Amoco Production Company		**Pit Closure Date: 5/9/94**	

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 test pit was excavated to 12 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 679 ppm, laboratory analysis indicated a benzene concentration of 0.56 mg/kg, a total BTEX concentration of 279 mg/kg, and TPH concentration of 22,900 mg/kg. The TPH and total BTEX measurements exceeded recommended remediation levels for the Hazard Ranking Score.

Approximately 105 cubic yards of soil was excavated and removed off-site to the Tierra land farm for treatment and disposal. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed at 37 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 35-37 ft bgs. Headspace analysis indicated an organic vapor content of 1 ppm, laboratory analysis indicated a benzene concentration of <0.50 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 597 mg/kg. The benzene and total BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were performed.

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

- The primary source, discharge to the pit, has been removed for over eight years.
- Impacted soils were excavated to the practical extent of the equipment and subsurface conditions. All excavated material was disposed of at an off-site location.
- 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 soils eliminated the potential for direct contact with hazardous constituents by livestock or the public; i.e., the 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 Phase II soil boring to 37 feet bgs.

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75681 Location: State Com G #8
Operator #: 0203 Operator Name: Amoco P/L District: Bloomfield
Coordinates: Letter I Section 16 Township: 30 Range: 9
or Latitude _____ Longitude _____
Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
Site Assessment Date: 4/25/94 Area: 10 Run: 33
Revised Date: 1/7/03

SITE ASSESSMENT

NMOCD Zone:
(from NMCOD Maps)

Land Type:
Intside ☒ (1)
Outside ☐ (2)

BLM ☐ (1)
State ☒ (2)
Fee ☐ (3)
Indian _____

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 Verma Canyon Wash

(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

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75681 Location: State Com G #8
Operator #: 0203 Operator Name: Amoco P/L District: Bloomfield
Coordinates: Letter: I Section 16 Township: 30 Range: 9
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 4/25/94 Area: 10 Run: 33

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2)

Land Type: BLM ☐ (1) State ☒ (2) Fee ☐ (3) Indian _____

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 Cabell Canyon (Horse Canyon)
(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: 40 **POINTS**

REMARKS

Remarks : 1 pit on site. Will dig & haul. #

Dig & Haul

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75681 Location: State Com G #8

Coordinates: Letter: I Section 16 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-9-94 Area: 10 Run: 33

OBSERVATIONS

Sample Number(s): KD48 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 679 ppm PID Reading Depth 12' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 105

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 5-9-94 Pit Closed By: BEI

REMARKS

Remarks : This Location also very Sandy, Took Excavation to 12', Took PID Reading, Closed Pit

Signature of Specialist: [signature]

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD48	945100
MTR CODE | SITE NAME:	75681	N/A
SAMPLE DATE | TIME (Hrs):	5/9/94	1310
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5/10/94	5/10/94
DATE OF BTEX EXT. | ANAL.:	5/18/94	5/21/94
TYPE | DESCRIPTION:	VC	Fine Grey Sand/Clay

REMARKS: Split w/ ATI

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Result
			DF	Q	M(g)	V(ml)	
BENZENE	0.56	MG/KG					<0.50
TOLUENE	26.2	MG/KG					14
ETHYL BENZENE	16.4	MG/KG					11
TOTAL XYLENES	236	MG/KG					150
TOTAL BTEX	279	MG/KG	.006036		4.97	30	~~176~~ ~~325~~ 6/12
TPH (418.1)	22,900	MG/KG			.28	28	TPH 45,00
HEADSPACE PID	679	PPM					
PERCENT SOLIDS	92.5	%					

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

The Surrogate Recovery was at 185 % for this sample All QA/QC was acceptable. 167

Narrative: Surrogate recovery was outside EPNG QC limits due to matrix interference. Surrogate recovery was outside ATI QC limits due to matrix interference. ATI Results attached.

DF = Dilution Factor Used

Approved By: John Boldi Date: 6/15/94

El Paso Natural Gas Company

SPLIT

Phase II

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 11	946822
MTR CODE | SITE NAME:	75681	N/A
SAMPLE DATE | TIME (Hrs):	5-18-95	1128
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-19-95	5-19-95
DATE OF BTEX EXT. | ANAL.:	5-19-95	5-23-95
TYPE | DESCRIPTION:	VG	Light Brown Coarse Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)	ATI Results
BENZENE	<0.50	MG/KG					<0.025
TOLUENE	<0.50	MG/KG					<0.025
ETHYL BENZENE	<0.50	MG/KG					<0.025
TOTAL XYLENES	<1.50	MG/KG					<0.025
TOTAL BTEX	<3.00	MG/KG					<0.10
TPH (418.1)	597	MG/KG			2.02	28	550
HEADSPACE PID	1	PPM					Surrogate % 97
PERCENT SOLIDS	96.6	%					Dilution Factor 1

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

The Surrogate Recovery was at 92.6 for this samp All QA/QC was acceptable.

arrative:
ATI Results attached for BTEX, TPH, and 8015 modified

DF = Dilution Factor Used

Approved By: John Fabela Date: 6/8/95

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH 1
Well #
Page of

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 11957 Phase 4002 77
Project Location State Com G#8 75681

Elevation
Borehole Location
GWL Depth
Logged By CM Chance
Drilled By M. Donahue
Date/Time Started 5/18/95 - 1040
Date/Time Completed 5/18/95 - 1210

Well Logged By CM Chance
Personnel On-Site M. Donahue, K. Pabillo, F. Rivera
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: NDU BZ	BH	HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	9"	Br silty Sand, F-med Sand, loose, sl moist, odor			0	2	135/964	1058
20	2	20-22	8"	Br silty Sand, f-med sand, v loose, sl moist			0	5	57/400	1104
25	3	25-27	8"	Br silty Sand, f-med sand, loose, moist			0	5	80/167	1109
30	4	30-32	6"	AA			0	6	8/64	1118
35	5	35-37	16"	AA, dry TOD 35'			0	5	0/1	1128
40										

Comments: 35'-37' sample submitted to lab. (TPH, BTEX) (MC 11).
13-94# bags Type I II cement 1-50# bag bentonite

Geologist Signature