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

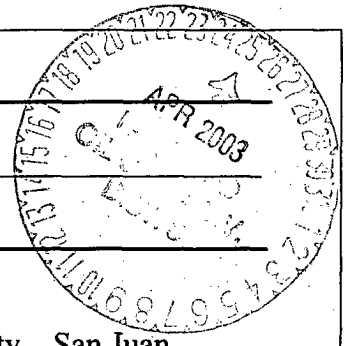
RISK defined Plume

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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-22397



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

Address: _____

Facility Or: Barnes No. 1A, Meter 90099
Well Name

Location: Unit or Qtr/Qtr Sec B Sec 24 T 32 R 11 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 22', width 36', depth 4'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 69'

Direction from reference: 127 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) 0
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): 0

Date Remediation Started: 10/04/94 Date completed: 10/04/94

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

Landfarmed _____ Insitu Bioremediation _____

Other Backfill Pit Without Excavation

Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) Onsite N/A Offsite N/A

General Description of Remedial Action: Excavated test hole to 12', took PID sample, 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 10/04/94 Sample time 09:00

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 614

TPH 14300

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 4/23/03

Signature Scott T. Pope

Printed Name and Title Scott Pope, Senior Environmental Scientist

elpaso

PIT CLOSURE REQUEST

Barnes No. 1A
Meter/Line ID 90099

SITE DETAILS

Legals - Twn: 32N	**Rng: 11W**	**Sec: 24**	**Unit: B**
NMOCD Hazard Ranking: 0		**Land Type: BLM**	
Operator: Amoco Production Company		**Pit Closure Date: 10/4/94**	

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 614 ppm; laboratory analysis indicated a TPH concentration of 14,300 mg/kg. The TPH measurements exceeded recommended remediation levels for the Hazard Ranking Score of 0.

No soil was disposed of offsite. 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 borehole was terminated at 27 ft bgs. A soil sample was collected at 25-27 for field headspace and laboratory analysis for TPH and total BTEX. No groundwater was encountered in the soil boring. Headspace analysis indicated an organic vapor content of 38 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 36 mg/kg, and a TPH concentration of 1,380 mg/kg. The benzene, total BTEX, and concentrations were below recommended remediation levels for the Hazard Ranking Score of 0.

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 8 years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring at 27 ft bgs; local geologic features indicate the depth to groundwater is greater than 100 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 90099 Location: BARNES No. 1A
Operator #: 0203 Operator Name: AMOCO P/L District: AZTEC
Coordinates: Letter B Section 24 Township: 32 Range: 11
or Latitude _____ Longitude _____
Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
Site Assessment Date: 8-4-94 Area: 04 Run: 62
Revised Date: 1-27-00

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 _____

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

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

TOTAL HAZARD RANKING SCORE 0 **POINTS**

REMARKS

Remarks: REVISION BASED ON REASSESSMENT OF THE PIT IN RELATION TO THE WELLHEAD PROTECTION AREA.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 90-099 Location: Barnes No. 1A
Operator #: 0203 Operator Name: Amoco Production P/L District: Aztec
Coordinates: Letter: B Section 24 Township: 32 Range: 11
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 8/4/94 Area: 04 Run: 62

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 Cox 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: 20 **POINTS**

REMARKS

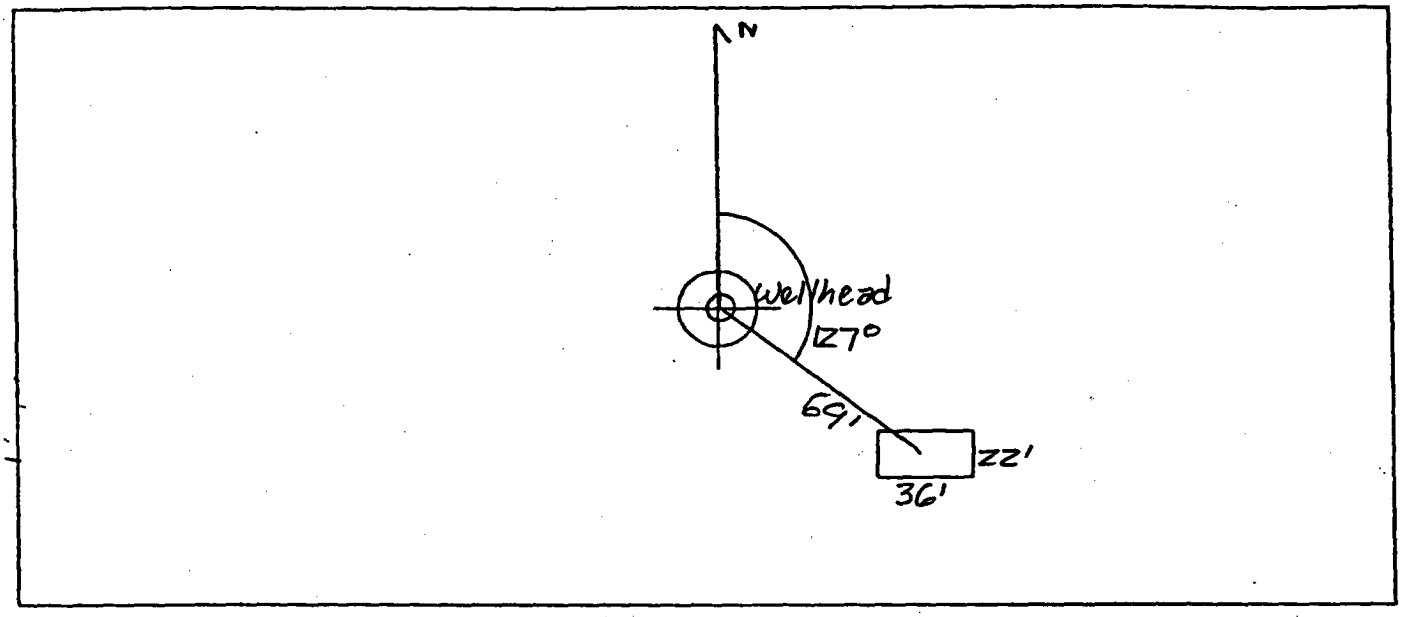
Remarks : Redline Book - Outside Vulnerable Zone Topo - Outside
Four pits on site, location drip pit is dry. Will close one pit.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 127° Footage from Wellhead 69'

b) Length : 22' Width : 36' Depth : 4'



REMARKS

Remarks :

Pictures @ 1153 (9-12, Roll 1)
Dump Truck

Completed By:

Sarah Kelly
Signature

8/4/94
Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 90099 Location: Barnes #1A

Coordinates: Letter: B Section 24 Township: 32 Range: 11

Or Latitude _____ Longitude _____

Date Started : 10/4/94 Run: 04 62

FIELD OBSERVATIONS

Sample Number(s): KD 305 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 614 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

- Excavation ☐ Approx. Cubic Yards _____
- Onsite Bioremediation ☐
- Backfill Pit Without Excavation ☒

Soil Disposition:

- Envirotech ☐ ☐ Tierra
- Other Facility ☐ Name: _____

Pit Closure Date: 10/4/94 Pit Closed By: BEI

REMARKS

Remarks : Excavated Test Hole to 12', Took PID Sample, Closed pit.

Signature of Specialist: Kenny Deaver

(SP3191) 03/16/94

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well # NA
Page 1 of 1

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

Project Number 19007 Phase 1001.77
Project Name EPFS WELLHEAD PITS
Project Location BARNES #1A 90099

Elevation
Borehole Location LTR: B S: 24 T: 32 R: 11
GWL Depth NA
Drilled By K. PADILLA
Well Logged By C. CHANCE
Date Started 4/29/98
Date Completed 4/29/98

Drilling Method 4 1/4 ID HSA
Air Monitoring Method 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: PPM BZ	BH	S/A's	Drilling Conditions & Blow Counts
0										
5										
10				BACKFILL TO 12'						
15	1	15-17	18	DK g-g sandy CLAY, vf sand, soft, med plastic, dry, sl odor			0	5	128/331	1030hr
20	2	20-22	18	AA			0	2	9/15	1038 hr
25	3	25-27	18	DK g-g sandy CLAY, F Sand, stiff, low plastic, d-y, sl odor			0	5	24/38	1050hr Sample
				Gry silty CLAY, V stiff, dry, non plastic.						
				TOB 27'						
30										
35										
40										

Comments: Used footage & bearing From Assessment to locate pit. Site is ≤1000' from unnamed Spring. CMC 3,7 (25-27') sent to lab for BTEX & TPH(8015). BH grouted to surface. No GW encountered

Geologist Signature

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC377	980330
MTR CODE | SITE NAME:	90099	Barnes #1A
SAMPLE DATE | TIME (Hrs):	4/29/98	1050
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:		
DATE OF BTEX EXT. | ANAL.:	5/7/98	5/7/98
TYPE | DESCRIPTION:	VG	SOIL

Field Remarks: 25-27'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	2.3	MG/KG				
TOTAL XYLENES	33.5	MG/KG				
TOTAL BTEX	36	MG/KG				
TPH (MOD.8015)	1,380	MG/KG				
HEADSPACE PID	38	PPM				
PERCENT SOLIDS	89.0	%				

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

The Surrogate Recovery was at 103 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By: [signature] Date: 6/2/98