

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
220 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

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

RISK
Bedrock

PIT REMEDIATION AND CLOSURE REPORT

30-045-22993

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

Address: _____

Facility Or: Atlantic A LS 2A, Meter 90482

Well Name _____

Location: Unit or Qtr/Qtr Sec P Sec 28 T 31 R 10 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 36' , width 47' , depth 4'
(Attach diagram)

Reference: wellhead X , other _____

Footage from reference: 48'

Direction from reference: 116 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> 10 </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): 10

Date Remediation Started: 09/29/94 Date completed: 09/29/94

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____
Other Backfill Pit Without Excavation

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

General Description of Remedial Action: Dug test hole to 10', reached rock layer. Took PID sample, closed pit.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Four walls and center of pit composite
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 10'

Sample Date 09/29/94 Sample time 12:50

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 1031

TPH 18300

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



Printed Name
and Title

Scott Pope, Senior Environmental Scientist

Atlantic A LS 2A
Meter/Line ID 90482

SITE DETAILS

Legals - Twn: 31N

Rng: 10W

Sec: 28

Unit: P

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Amoco Production Company

Pit Closure Date: 9/29/94

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 test pit was excavated to 10 feet (ft) below ground surface (bgs) where bedrock was encountered 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 1,031 ppm; laboratory analysis indicated a TPH concentration of 18,300 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

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 26 ft bgs where hard drilling was encountered. A soil sample was collected at 25-26 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 2 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 <20 mg/kg. The benzene, total BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score of 10.

No Phase III activities were conducted.

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.
- Bedrock was encountered at 10 feet bgs making additional excavation impractical and further downward migration of contaminants unlikely
- 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 26 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>90482</u> Location: <u>Atlantic A LS 2A</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: <u>P</u> Section <u>28</u> Township: <u>31</u> Range: <u>1D</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>4/14/98</u> Area: _____ Run: _____		
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)		
	Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2)	Land Type: <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2)	BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____
	Depth to Groundwater Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input checked="" 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? <div style="text-align: center;"> <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points) </div>		
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)		
	Name of Surface Water Body _____ (Surface Water Body: Perennial Rivers, 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>10</u> POINTS		
	REMARKS: <u>Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <100' vertical from center of Mud Canyon</u>		

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 90-482 Location: Atlantic A 15 ZA
 Operator #: 0203 Operator Name: Amoco Production P/L District: Aztec
 Coordinates: Letter: P Section 28 Township: 31 Range: 10
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 8/16/94 Area: 04 Run: 63

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

Land Type:

☐ (1)

☒ (2)

BLM

State

Fee

Indian

☒ (1)

☐ (2)

☐ (3)

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 Mud 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: 30 POINTS

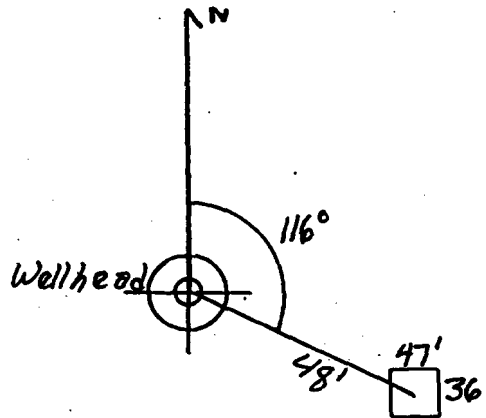
REMARKS

Remarks : Redline Book - Inside Vulnerable Zone - Outside
Two pits, location drip pit has a small amount of
liquid in it. Will close one pit.

PUSH IN

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 116° Footage from Wellhead 48'
 b) Length : 36' Width : 47' Depth : 41'



REMARKS :

Pictures @ 1005 (9-12, Roll 12)
 Dump Truck

Completed By:

Mark Kelly
 Signature

8/16/94
 Date

RECORD OF SUBSURFACE EXPLORATION

ILLIP SERVICES CORP.

30 Monroe Road
New Mexico 87401
505 252 FAX (505) 326-2388

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

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location ATLANTIC A LS 2A 90482

Location
Borehole Location LTR: P S: 28 T: 3 R: 10
Well Depth NA
Drilled By K. PADILLA
Well Logged By H. BRADBURY
Date Started 9/4/98
Date Completed

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/HS			Drilling Conditions & Blow Counts
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE COLLECTED AT 10'						
15	1	15-16	12	LT GR SANDSTONE, MED SAND, LOW CEMENT, dry			0	17	290 370	1110 hrs
20	2	20-21	12	LT BR SAND, MED SAND, LOOSE, dry	SW		0	211	11 3	1120 hrs HARD drilling
25	3	25-26		LT BR SAND, MED SAND MED DENSE, dry	SW		0	91	0 2	1134 hrs 1140
30				TOB 26'						
35										
40										

Notes:

HAB23 25-26' COLLECTED, SENT TO LAB FOR TPH, BTEX
GW NOT ENCOUNTERED. BH GROUTED TO SURFACE

Geologist Signature

H. Bradbury

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB23	980624
MTR CODE SITE NAME:	90482	Atlantic A LS #2A
SAMPLE DATE TIME (Hrs):	9/4/98	1140
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9/15/98	9/16/98
DATE OF BTEX EXT. ANAL.:	9/14/98	9/14/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 25-26'

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 (MOD.8015)	<20	MG/KG				
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	94.6	%				

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

The Surrogate Recovery was at 97.9 % for this sample All QA/QC was acceptable.
 Narrative:

DF = Dilution Factor Used

Approved By:

John Lander

Date:

10/1/98