

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

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

(Revised 3/9/94)

Risk
Defined
plume

PIT REMEDIATION AND CLOSURE REPORT

30-039-20298

Operator: Phillips by EPFS Telephone _____

Address: _____

Facility Or San Juan 29-6 Unit #99, Meter 87167
Well Name _____

Location: Unit or Qtr/Qtr Sec A Sec 34 T 29 R 6 County Rio Arriba

Pit Type: Separator _____ Dehydrator X Other _____

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

Pit Location: Pit dimensions: length 22', width 19', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 73'

Direction from reference: 285 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: 06/22/94 Date completed: 06/22/94

Remediation Method: Excavation X Approx. cubic yards 110
(Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: Some line markers. Started remediating to 12', Soil turned dark gray,
Smells bad at 12'. North and east walls still gray and bottom of pit still dark gray with a smell.

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 12'

Sample Date 06/22/94 Sample time 13:30

Sample Results

Benzene(ppm) <0.12

Total BTEX(ppm) 15

Field headspace(ppm) 573

TPH 3610

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 1/8/93
Signature Scott T. Pope

Printed Name Scott T. Pope
and Title Senior Env. Scientist



PIT CLOSURE REQUEST

San Juan 29-6 Unit #99
Meter/Line ID 87167

SITE DETAILS

Legals - Twn: 29N

Rng: 6W

Sec: 34

Unit: A

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Phillips Petroleum Company

Pit Closure Date: 6/22/94

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 573 ppm, laboratory analysis indicated a benzene concentration of <0.12 mg/kg, a total BTEX concentration of 15 mg/kg, and a TPH concentration of 3,610 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

Approximately 110 cubic yards of soil were excavated and hauled to Tierra, 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 to 26 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 25-26 ft bgs. Headspace analysis indicated an organic vapor content of 31 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 32.0 mg/kg. The benzene, total BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

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 eight years.
- The impacted soils were excavated to the practical extent of the equipment and was disposed of in 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 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 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: 87167 Location: San Juan 29-6 Unit #99
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: A Section 34 Township: 29 Range: 6
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 4/8/98 Area: _____ Run: _____

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 _____
 (Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
 Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 10 POINTS

REMARKS

Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <100' vertical from center of Gobernador Canyon



outside

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP106	9454 97
MTR CODE SITE NAME:	87167	N/A
SAMPLE DATE TIME (Hrs):	6-22-94	1330
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	6/23/94	6/23/94
DATE OF BTEX EXT. ANAL.:	6/24/94	6/28/94
TYPE DESCRIPTION:	VC	Brown sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.12	MG/KG	5			
TOLUENE	<0.12	MG/KG	5			
ETHYL BENZENE	1.5	MG/KG	5			
TOTAL XYLENES	13	MG/KG	5			
TOTAL BTEX	15	MG/KG				
TPH (418.1)	3610 3600	MG/KG			2.00	28
HEADSPACE PID	573	PPM				
PERCENT SOLIDS	882	%				

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

Surrogate Recovery was at 150 % for this sample All QA/QC was acceptable.
Negative:

ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By:

AP

Date:

7/17/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 87167 Location: SAN JUAN 29-6 Unit #99
 Coordinates: Letter: A Section 34 Township: 29 Range: 6
 Or Latitude _____ Longitude _____
 Date Started : 6-22-94 Area: 10 Run: 91

FIELD OBSERVATIONS

Sample Number(s): KP# 106
 Sample Depth: 12 Feet
 Final PID Reading 573 PID Reading Depth 12 Feet
 Yes No
 Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 110
 Onsite Bioremediation ☐ (2)
 Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra
 Other Facility ☐ (2) Name: _____

Pit Closure Date: 6-22-94 Pit Closed By: B. E. I.

REMARKS

Remarks : Some Line markers. Started Remediating TO 12'
Soil Turned DARK gray smells Bad At 12' NORTH + EAST WALL
Still gray AND Bottom of Pit still DARK gray, with A Smell

Signature of Specialist: Kelly Padilla

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB12	980597
MTR CODE SITE NAME:	87167	San Juan 29-6 #99
SAMPLE DATE TIME (Hrs):	8/27/98	1115
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9/5/98	9/6/98
DATE OF BTEX EXT. ANAL.:	9/3/98	9/3/98
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)	32.0	MG/KG				
HEADSPACE PID	31	PPM				
PERCENT SOLIDS	93.5	%				

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

The Surrogate Recovery was at 98.9 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By: _____

Date: _____

10/8/98



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 809020

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980596	NON-AQ	8/27/98	9/5/98	9/6/98	1
02	980597	NON-AQ	8/27/98	9/5/98	9/6/98	1
03	980598	NON-AQ	8/27/98	9/5/98	9/6/98	1
PARAMETER		DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10		10	MG/KG	12	< 10	< 10
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	< 5.0	32	< 5.0
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	< 5.0	< 5.0	< 5.0
CALCULATED SUM:				12.0	32.0	
SURROGATE:						
O-TERPHENYL (%)				142	151	151
SURROGATE LIMITS		(66 - 151)				

CHEMIST NOTES:
N/A



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Albuquerque, New Mexico 87107
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Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 809020

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980603	NON-AQ	8/31/98	9/6/98	9/6/98	1
05	980604	NON-AQ	9/1/98	9/6/98	9/6/98	1
PARAMETER		DET. LIMIT	UNITS	04	05	
FUEL HYDROCARBONS, C6-C10		10	MG/KG	17	36	
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	36	16	
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	< 5.0	< 5.0	
CALCULATED SUM:				53.0	52.0	
SURROGATE:						
O-TERPHENYL (%)				103	98	
SURROGATE LIMITS		(66 - 151)				

CHEMIST NOTES:
N/A

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road

Albuquerque, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1

Well #

Page 1 of

Project Number 19643 Phase 1001.77

Project Name EPFS PITS >10

Project Location SAN JUAN 29-6 UNIT 99 87167

Elevation

Borehole Location LTR: A S: 34 T: 29 R: 6

GWL Depth

Drilled By K. PADILLA

Well Logged By H. BRADBURY

Date Started 8/27/98

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			Drilling Conditions & Blow Counts
							BZ	BH	S/HS	
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				Excavation sample collected at 12'						
15	1	15-16	12"	LT GR SANDY CLAY, FINE SAND MED, STIFF, low plasticity dry.			0		1714 1052	1052 hrs
20	2	20-21	6"	LT BR ^{silty} SAND FINE SAND. MED DENSE SAND, dry	SM		1	407	44 10	1104 hrs
25	3	25-26	6"	LT BR silty SAND, FINE SAND MED DENSE, dry	SM		0	2	2 31	1115 hrs
30				TOB 26						
35										
40										

Comments:

HAB 12 25-26' SENT TO LAB FOR TPH & BTEX. CN NOT
ENCOUNTERED. BH GROUTED TO SURFACE

Geologist Signature

Holly Brackley