

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

*Rick  
Bedrock  
defined  
plane*

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

(Revised 3/9/94)

**PIT REMEDIATION AND CLOSURE REPORT**

*30-039-07503*

Operator: Phillips by EPFS Telephone \_\_\_\_\_

Address: \_\_\_\_\_

Facility Or San Juan 29-6 #52, Meter 71388  
Well Name \_\_\_\_\_

Location: Unit or Qtr/Qtr Sec B 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 18', depth 4'  
(Attach diagram)

Reference: wellhead X, other \_\_\_\_\_

Footage from reference: 86'

Direction from reference: 123 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: 09/13/95 Date completed: 09/13/95

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: Arrived, dug sample hole. Soil is gray with strong hydrocarbon odor. Hit Sandstone 10'.

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 10'

Sample Date 09/13/95 Sample time 12:10

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 121

TPH 5020

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

Scott T. Pope

Printed Name  
and Title

Scott T. Pope  
Senior Env. Scientist



## PIT CLOSURE REQUEST

San Juan 29-6 Unit #52  
Meter/Line ID 71388

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### SITE DETAILS

Legals - Twn: 29N

Rng: 6W

Sec: 34

Unit: B

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Phillips Petroleum Company

Pit Closure Date: 9/13/95

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### **RATIONALE FOR RISK-BASED CLOSURE**

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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 sandstone 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 121 ppm; laboratory analysis indicated a TPH concentration of 5,020 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 boring was completed with refusal at 35 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 35-36 ft bgs. Headspace analysis indicated an organic vapor content of 6,336 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 4.62 mg/kg, and a TPH concentration of 12.0 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 seven 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., current direct contact exposure pathways are unlikely to be completed.
- Bedrock was encountered at 10 feet bgs in the test pit making further excavation impractical.
- 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 35 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.
- Benzene and total BTEX, concentrations at the bottom of the test pit (10 feet bgs) were below recommended remediation levels for the Hazard Ranking Score.

**REVISED**  
**FIELD PIT SITE ASSESSMENT FORM**

GENERAL

Meter: 71388 Location: San Juan 29-6 #52  
 Operator #: \_\_\_\_\_ Operator Name: \_\_\_\_\_ P/L District: \_\_\_\_\_  
 Coordinates: Letter: B Section 34 Township: 29 Range: 6  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Pit Type: Dehydrator \_\_\_\_\_ Location Drip: \_\_\_\_\_ Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
 Site Assessment Date: 2/13/98 Area: \_\_\_\_\_ Run: \_\_\_\_\_

SITE ASSESSMENT

**NMOCD Zone:**

(From NMOCD  
Maps)

Inside

Outside

**Land Type:**

☐ (1)

☒ (2)

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 feet from center of Gobernador Canyon.



## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 460	947461
MTR CODE   SITE NAME:	71388	San Juan 29-6 #52 N/A
SAMPLE DATE   TIME (Hrs):	09-13-95	1210
Project SAMPLED BY:	Phase I	N/A
DATE OF TPH EXT.   ANAL:	9-14-95	
DATE OF BTEX EXT.   ANAL:		
TYPE   DESCRIPTION:	VG	Light grey sand & clay

REMARKS:

## RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	5020	MG/KG			2.01	28
HEADSPACE PID	121	PPM				
PERCENT SOLIDS	86.5	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

9-18-95

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 71388 Location: SAN JUAN 29-6 #52  
 Coordinates: Letter: B Section 34 Township: 29 Range: 6  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 9-13-95 Run: 10 61

FIELD OBSERVATIONS

Sample Number(s): MK460  
 Sample Depth: 10' Feet  
 Final PID Reading 121 PPM PID Reading Depth 10' 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: 9-13-95 Pit Closed By: Philip

REMARKS

Remarks : Arrived dug sample hole soil is grey with  
strong hydrocarbon odor hit sandstone 10'

Signature of Specialist: Morgan Killion

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

**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	HAB11	980586
MTR CODE   SITE NAME:	71388	San Juan 29-6 #52
SAMPLE DATE   TIME (Hrs):	8/27/98	0937
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: 35-36'

**RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	0.74	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	3.88	MG/KG				
TOTAL BTEX	4.62	MG/KG				
TPH (MOD.8015)	12.0	MG/KG				
HEADSPACE PID	6336	PPM				
PERCENT SOLIDS	93.7	%				

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

The Surrogate Recovery was at 94.7 % for this sample All QA/QC was acceptable.  
Narrative:

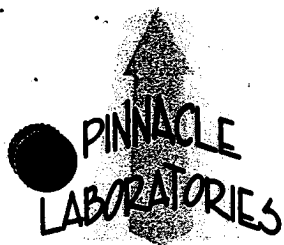
DF = Dilution Factor Used

Approved By: \_\_\_\_\_

*John Ladd*

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 (%)

SURROGATE LIMITS

142

151

151

( 66 - 151 )

CHEMIST NOTES:

N/A





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
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:						
BIPHENYL (%)				103	98	
SURROGATE LIMITS		( 66 - 151 )				

CHEMIST NOTES:  
N/A

# RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road

Albuquerque, New Mexico 87401

505-226-2262 FAX (505) 326-2388

Borehole # BH- 1

Well # 1

Page 1 of 1

Project Number 19643 Phase 1001.77

Project Name EPFS PITS >10

Project Location SAN JUAN 29-6 #52 71388

Elevation

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

GWL Depth NA

Drilled By K. PADILLA

Well Logged By H. BRADBURY

Date Started 8/27/98

Date Completed 8/27/98

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			Drilling Conditions & Blow Counts
							BZ	BH	S/HS	
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE COLLECTED AT 10'			2	1294		
15	1	15-16'	6"	LT BR SANDSTONE FINE SAND TR MED. LOW CEMENTED. DRY			2	1380	3047 5305	0819 hrs
20	2	20-21'	4"	LT BR SANDSTONE. FINE-MED SAND. MOD CEMENTED, DRY			8	5351	3460 1516	0832 hrs AIR OUT bh for 15 min
25	3	25-26'	4"	LT BR SANDSTONE. FINE- MED SAND, MOD. CEMENTED DRY			4	1690	36 24	0846 hrs NOT MUCH SAMPLE MAY HAVE BEEN SLOTTED
30	4	30-31'	4"	LT GR SILTSTONE. MOD-HARD CEMENTED DRY.			3	1862	419 902	0908 hrs
35	5						3	806		0937 hrs
40				TOB 36'						

Comments:

HAB 11 35-36' SENT TO LAB FOR TPH. BTEX AUGER REFUSAL at 35'  
GW NOT ENCOUNTERED. BH GROUNDED TO SURFACE.

Geologist Signature

Holly Bradbury