

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

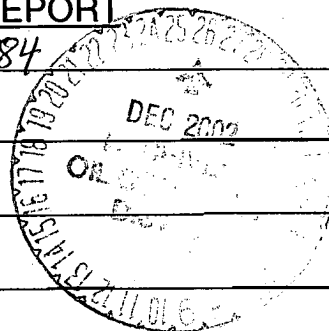
Submit 1 copy to  
appropriate  
District Office  
and 1 copy to  
the Santa Fe Office

(Revised 3/9/94)

*Risk  
defined  
Plume*

PIT REMEDIATION AND CLOSURE REPORT

30-039-07584



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

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

Facility Or San Juan 29-6 Unit #74, Meter 73509

Well Name \_\_\_\_\_

Location: Unit or Qtr/Qtr Sec H Sec 20 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 12', width 11', depth 2'

(Attach diagram)

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

Footage from reference: 76'

Direction from reference: 228 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: 06/30/94 Date completed: 06/30/94

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: EPNG lines not marked. Soil gray, hydrocarbon odor.

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 06/30/94 Sample time 13:31

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 171

TPH 1040

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 Scott T. Pope  
and Title Senior Env. Scientist



## PIT CLOSURE REQUEST

San Juan 29-6 Unit #74  
Meter/Line ID 73509

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### SITE DETAILS

Legals - Twn: 29N

Rng: 6W

Sec: 20

Unit: H

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Phillips Petroleum Company

Pit Closure Date: 6/30/94

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### **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 171 ppm, and laboratory analysis resulted in a TPH concentration of 1,040 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 to refusal at 29 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 28-29 ft bgs. Headspace analysis indicated an organic vapor content of 983 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 52.0 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 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.
- 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 29 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 (12 feet bgs) were below recommended remediation levels for the Hazard Ranking Score.

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

<b>GENERAL</b>	<p>Meter: <u>73509</u> Location: <u>San Juan 29-6 Unit #74</u></p> <p>Operator #: _____ Operator Name: _____ P/L District: _____</p> <p>Coordinates: Letter: <u>H</u> Section <u>20</u> Township: <u>29</u> Range: <u>6</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>4/8/98</u> Area: _____ Run: _____</p>
<b>SITE ASSESSMENT</b>	<p><b>NMOCD Zone:</b> (From NMOCD Maps)</p> <p style="margin-left: 150px;">Inside <input type="checkbox"/> (1)</p> <p style="margin-left: 150px;">Outside <input checked="" type="checkbox"/> (2)</p> <p><b>Land Type:</b></p> <p style="margin-left: 150px;">BLM <input checked="" type="checkbox"/> (1)</p> <p style="margin-left: 150px;">State <input type="checkbox"/> (2)</p> <p style="margin-left: 150px;">Fee <input type="checkbox"/> (3)</p> <p style="margin-left: 150px;">Indian _____</p> <p><b>Depth to Groundwater</b></p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p><b>Wellhead Protection Area</b></p> <p>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?</p> <p style="text-align: center;"><input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p><b>Horizontal Distance to Surface Water Body</b></p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1)</p> <p>200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) &lt; 100' (Navajo Pits Only)</p> <p style="margin-left: 350px;"><input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE:</b> <u>10</u> POINTS</p>
<b>REMARKS</b>	<p>Remarks : <u>Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is less than 100' vertical from center of Gobernador Canyon</u></p>



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

mk 73

9455169

73509

N/A

6-30-94

1331

N/A

7/7/94

7/7/94

N/A

N/A

VG

DK Brown Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	1040	MG/KG			2.04	28
HEADSPACE PID	171	PPM				
PERCENT SOLIDS	84.3	%				

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

Recovery was at  
if:

N/A

% for this sample All QA/QC was acceptable.

= Dilution Factor Used

Approved By:

*John Lueder*

Date:

7/14/94

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 23509 Location: San Juan 29-6 unit # 74

Coordinates: Letter: H Section: 20 Township: 29 Range: 6

Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Date Started : 6-30-94 Area: 10 Run: 61

FIELD OBSERVATIONS

Sample Number(s): MK 73

Sample Depth: 12' Feet

Final PID Reading 171 PID Reading Depth 12' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth \_\_\_\_\_ Feet

CLOSURE

Remediation Method :

Excavation ☐ (1) Approx. Cubic Yards \_\_\_\_\_

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☒ (3)

Soil Disposition:

Envirotech ☐ (1) ☐ (3) Tierra

Other Facility ☐ (2) Name: \_\_\_\_\_

Pit Closure Date: 6-30-94 Pit Closed By: BEI

REMARKS

Remarks : EPNG LINES NOT MARKED SOIL GRAY Strong

Hydrocarbon odor

Signature of Specialist: Morgan Kellio

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

**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	HAB15	980604
MTR CODE   SITE NAME:	73509	San Juan 29-6 #74
SAMPLE DATE   TIME (Hrs):	9/1/98	1524
PROJECT:	Phase II Drilling	
DATE OF TPH EXT.   ANAL.:	9/6/98	9/6/98
DATE OF BTEX EXT.   ANAL.:	9/3/98	9/3/98
TYPE   DESCRIPTION:	VG	SOIL

Field Remarks: 28-29'

**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)	52.0	MG/KG				
HEADSPACE PID	983	PPM				
PERCENT SOLIDS	94.5	%				

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

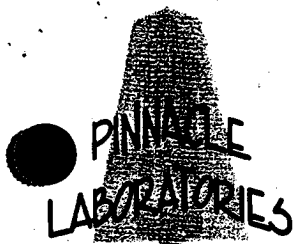
The Surrogate Recovery was at 98.6 % for this sample All QA/QC was acceptable.

Negative:

DF = Dilution Factor Used

Approved By: John L. Smith

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





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

GAS CHROMATOGRAPHY RESULTS

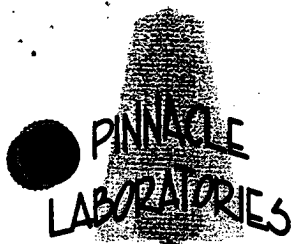
TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : EL PASO FIELD SERVICES  
PROJECT # : (none)  
PROJECT NAME : PHASE II DRILLING  
PINNACLE I.D.: 809020

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	
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



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

# GAS CHROMATOGRAPHY RESULTS

## REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)		
BLANK I.D.	: 090598	PINNACLE I.D.	: 809020
CLIENT	: EL PASO FIELD SERVICES	DATE EXTRACTED	: 9/5/98
PROJECT #	: (none)	DATE ANALYZED	: 9/6/98
PROJECT NAME	: PHASE II DRILLING	SAMPLE MATRIX	: NON-AQ

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0

## SURROGATE:

CHLOROPHENYL (%)		121
SURROGATE LIMITS	( 80 - 151 )	

## CHEMIST NOTES:

N/A

# RECORD OF SUBSURFACE EXPLORATION

\*PHILIP SERVICES CORP.

4000 Monroe Road

Farmington, New Mexico 87401

326-2262 FAX (505) 326-2388

Borehole # BH-1  
Well # NA  
Page 1 of 2

Project Number 19643 Phase 1001.77

Project Name EPFS PITS >10

Project Location SAN JUAN 29-6 #74 73509

Elevation

Borehole Location LTR: H S: 20 T: 29 R: 6

GWL Depth NA

Drilled By K. PADILLA

Well Logged By H. BRADBURY

Date Started 8/27/98

Date Completed 8/31/98

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/HS			Drilling Conditions & Blow Counts
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE COLLECTED AT 12'						
15	1	15-16"	6"	LT GR Silty SAND, FINE SAND TR MED., LOOSE, DRY	SM		0	6462	5537 6494	1448 hrs
20	2	20-21'	6"	LT BR SANDSTONE, FINE SAND LOW CEMENTED, dry			0	579	56 175	1459 hrs
25	3	25-26'	12"	DR BR SANDSTONE, FINE SAND LOW CEMENTATION, dry			0	1	2321 4218	1511 hrs
30	4	30-31'	4'	LT BR SAND, FINE SAND, MED DENSE, dry			1	191	79 202	1528 hrs
35	5	35-36'	6"	LT BR SANDSTONE, FINE SAND LOW CEMENTATION, dry			2	122	108 174	1540 hrs
40	6			TOB 38 HAS			0	212	—	Refusal @ 38' hard drilling

Comments:

HAB 14 - COLLECTED, SENT TO LAB FOR TPH, BTEX  
HAB 15 SENT TO LAB FOR TPH, BTEX

Geologist Signature

Holly Bradbury

# RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road

Elmington, New Mexico 87401

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

Borehole # BH-1  
Well # NA  
Page 2 of 2

Project Number 19643 Phase 1001.77

Project Name EPFS PITS >10

Project Location SAN JUAN 27-6 #74 73509

Elevation \_\_\_\_\_

Borehole Location LTR: H S: 20 T: 29 R: 6

GWL Depth NA

Drilled By K. PADILLA

Well Logged By H. BRADBURY

Date Started \_\_\_\_\_

Date Completed 9/1/98

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										
15										
20										
25										
28	1	28-29	6"	LT BR silty SAND, FINE SAND soft, dry	SM		1	242	262 983	1524 hcs
30				TOB 29'						
35										
40										

Comments:

HABIS 28-29' SENT TO LAB FOR BTEX, TPH, GW  
NOT ENCOUNTERED. AUGER REFUSED AT 28'

Geologist Signature \_\_\_\_\_