

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
Bedrock

PIT REMEDIATION AND CLOSURE REPORT

30-034-07492

Operator: Phillips by EPFS Telephone: _____

Address: _____

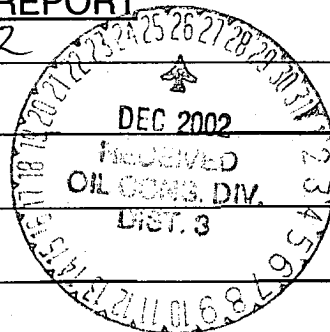
Facility Or San Juan 29-6 Unit #87, Meter 75147

Well Name

Location: Unit or Qtr/Qtr Sec H Sec 33 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 24', width 23', depth 4'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 40'

Direction from reference: 7 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: 07/05/94 Date completed: 07/05/94

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 marked. Soil gray, hydrocarbon odor. Hit sandstone 10'.

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 07/05/94 Sample time 11:32

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 155

TPH 2120

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

San Juan 29-6 Unit #87
Meter/Line ID 75147

SITE DETAILS

Legals - Twn: 29N	Rng: 6W	Sec: 33	Unit: H
NMOCD Hazard Ranking: 10		Land Type: BLM	
Operator: Phillips Petroleum Company		Pit Closure Date: 7/5/94	

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 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 155 ppm, and a TPH concentration of 2,120 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 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 6 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.

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.
- Sandstone was encountered in the pit at 10 feet bgs making further vertical 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., 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 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: 75147 Location: San Juan 29-6 Unit #87
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: H Section 33 Township: 29 Range: 6
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 2/26/98 Area: _____ Run: _____

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)	Land Type:	BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____
Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2)		
Depth to Groundwater		
Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points)	<input checked="" type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) <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?		
<input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)		
Horizontal Distance to Surface Water Body		
Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) Greater Than 1000 Ft (0 points)	<input type="checkbox"/> (1) <input type="checkbox"/> (2) <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

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 Fourmile Canyon.



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk80	945582
MTR CODE SITE NAME:	75147	N/A
SAMPLE DATE TIME (Hrs):	7-5-94	1132
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	7/7/94	7/7/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	DK Grey Sand/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)	2120	MG/KG			2.02	28
HEADSPACE PID	155	PPM				
PERCENT SOLIDS	85.8	%				

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

Surrogate Recovery was at
N/A %

for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

7/14/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75147 Location: SAN JUAN 29-6 # 87
 Coordinates: Letter: H Section 33 Township: 29 Range: 6
 Or Latitude _____ Longitude _____
 Date Started : 7-5-94 Area: 10 Run: 91

FIELD OBSERVATIONS

Sample Number(s): MK 80
 Sample Depth: 10' Feet
 Final PID Reading 155 PID Reading Depth 10' 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: 7-5-94 Pit Closed By: BEI

REMARKS

Remarks : EPNG LINES MARKED SOIL GRAY STRONG
H4RO CARBON odor HIT SAND STONE 10'

Signature of Specialist: Morgan Killion

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB13	980598
MTR CODE SITE NAME:	75147	San Juan 29-6 #87
SAMPLE DATE TIME (Hrs):	8/27/98	1314
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)	<20	MG/KG				
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	89.0	%				

-- 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.

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 (%)				142	151	151
SURROGATE LIMITS		(66 - 151)				

CHEMIST NOTES:
N/A



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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:						
O-TERPHENYL (%)				103	98	
SURROGATE LIMITS		(66 - 151)				

CHEMIST NOTES:
N/A

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road

Armington, New Mexico 87401

(505) 326-2262 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 SAN JUAN 29-6 UNIT #87 75147

Elevation

Borehole Location LTR: H S: 33 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'			0	1		
15	1	15-16	12"	DK BR SILTY SAND, FINE SAND, MED-DENSE SAND, DRY	SM		0	21	$\frac{36}{171}$	1245 hrs
20	2	20-21	12"	LT BR SANDSTONE, FINE SAND SOFT CEMENTED, DRY			1	5	$\frac{6}{6}$	1234 hrs
25	3	25-26	6"	DK BR SANDSTONE, FINE-MED SAND, SOFT CEMENTED, DRY			0	1	$\frac{6}{6}$	1314 hrs
30				TOB 26'						
35										
40										

Comments:

HAB 13 25-26' SENT TO LAB FOR BTEX, TPH SW NOT
ENCOUNTERED, BH GRouted TO SURFACE

Geologist Signature

Holly Bradbury