

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

Based on Topo evaluation
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 OK
Bedrock
qft into
bedrock TPH
increased

PIT REMEDIATION AND CLOSURE REPORT

30-039-22033

Operator: Meridian by EPFS Telephone _____

Address: _____

Facility Or San Juan 29-7#116, Meter 93016

Well Name _____

Location: Unit or Qtr/Qtr Sec M Sec 30 T 29 R 7 County Rio Arriba

Pit Type: Separator _____ Dehydrator X Other _____

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

Pit Location: Pit dimensions: length 26', width 25', depth 4'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 44'

Direction from reference: 135 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: 02/22/95 Date completed: 02/22/95

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 was gray with strong hydrocarbon odor.
Hit sandstone 6'.

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 6'
Sample Date 02/22/95 Sample time 09:15

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 864

TPH 2140

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 29-7 #116
Meter/Line ID 93016

SITE DETAILS

Legals - Twn: 29N
NMOCD Hazard Ranking: 10
Operator: Meridian Oil Inc

Rng: 7W

Sec: 30
Land Type: BLM
Pit Closure Date: 2/22/95

Unit: M

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 6 feet (ft) below ground surface (bgs) when 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 864 ppm and laboratory analysis showed a TPH concentration of 2,140 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score.

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 15 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 14-15 ft bgs. Headspace analysis indicated an organic vapor content of 1,047 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 50.7 mg/kg, and a TPH concentration of 3,800 mg/kg. The benzene is 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.
- Bedrock refusal was encountered at 6 feet bgs in the test pit and 15 feet bgs in the Phase II soil boring making further excavation impractical.
- 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 15 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.
- Benzene is below recommended remediation levels for the Hazard Ranking Score.

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93016 Location: San Juan 29-7 #116
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: M Section 30 Township: 29 Range: 7
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 4/9/98 Area: _____ Run: _____

SITE ASSESSMENT

NMOCD Zone:	Land Type:	BLM	<input checked="" type="checkbox"/> (1)
(From NMOCD		State	<input type="checkbox"/> (2)
Maps)	Inside <input type="checkbox"/> (1)	Fee	<input type="checkbox"/> (3)
	Outside <input checked="" type="checkbox"/> (2)	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. 2 wells in Ltr M - Both are < 100' vertical from center of Jasis Canyon



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	ML 393	946693
MTR CODE SITE NAME:	93014	N/A
SAMPLE DATE TIME (Hrs):	2-22-95	0915
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	2-28-95	2-28-95
DATE OF BTEX EXT. ANAL.:		
TYPE DESCRIPTION:	VG	Dark Gray sand and clay w/ small rocks

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	2140	MG/KG			2.02	28
HEADSPACE PID	864	PPM				
PERCENT SOLIDS	28.8	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Analysed By: 

Date: 3-20-95

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93016 Location: S.J 29-7 #116
 Coordinates: Letter: M Section 30 Township: 29 Range: 7
 Or Latitude _____ Longitude _____
 Date Started : 2-22-95 Run: 13 71

FIELD OBSERVATIONS

Sample Number(s): mK393
 Sample Depth: 6 Feet
 Final PID Reading 864 PPM PID Reading Depth 6' 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: 2-22-95 Pit Closed By: BET

REMARKS

Remarks : Arrived dug sample hole Soil was Gray with
Strong Hydrocarbon odor Hit sandstone 6'

Signature of Specialist: Morgan Killion

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB79	980830
MTR CODE SITE NAME:	93016	San Juan 29-7 #116
SAMPLE DATE TIME (Hrs):	11/25/98	1120
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	12/2/98	12/3/98
DATE OF BTEX EXT. ANAL.:	11/30/98	12/2/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 15-16'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	1.63	MG/KG				
ETHYL BENZENE	1.16	MG/KG				
TOTAL XYLENES	47.9	MG/KG				
TOTAL BTEX	98.7	MG/KG				
TPH (MOD.8015)	3,800	MG/KG				
HEADSPACE PID	674	PPM				
PERCENT SOLIDS	94.8	%				

-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 97.6 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: John J. J. J.

Date: 12/2/98



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.: 812003

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980826	NON-AQ	11/20/98	12/2/98	12/2/98	1
02	980827	NON-AQ	11/20/98	12/2/98	12/2/98	1
03	980828	NON-AQ	11/20/98	12/2/98	12/2/98	1
PARAMETER		DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10		10	MG/KG	34	< 10	< 10
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	< 5.0	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	< 5.0	< 5.0	< 5.0
CALCULATED SUM:				34.0		

SURROGATE:
O-TERPHENYL (%)
SURROGATE LIMITS

(66 - 151)

88 87 85

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY RESULTS

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

PINNACLE I.D.: 812003

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	980829	NON-AQ	11/25/98	12/2/98	12/2/98	1
05	980830	NON-AQ	11/25/98	12/2/98	12/3/98	10
06	980831	NON-AQ	11/25/98	12/2/98	12/2/98	1
PARAMETER	DET. LIMIT	UNITS	04	05	06	
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	2300	< 10	
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0	1500	< 5.0	
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 50	< 5.0	
CALCULATED SUM:				3800		
SURROGATE: O-TERPHENYL (%)			87	84	90	
SURROGATE LIMITS	(66 - 151)					

CHEMIST NOTES:
N/A

RECORD OF SUBSURFACE EXPLORATION

WILIP SERVICES CORP.

30 Monroe Road
 Albuquerque, New Mexico 87401
 Phone (505) 326-2388 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 29-7 #116 93016

Elevation
 Borehole Location LTR: M S:30 T:29 R:7
 WL Depth NA
 Drilled By K. PADILLA
 Well Logged By H. BRADBURY
 Date Started 10/25/98
 Date Completed 10/25/98

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				EXCAVATION SAMPLE collected at 6'							BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5											
10	1	10-12	16	LTGR SAND, FINE SAND, MED. DENSE, dry			1	360	764 780	1102	HRS
15	2	15-16	6	LT BR SANDSTONE, FINE SAND, MOD CEMENTATION, dry			0	28	383 674	1120	HRS. HARD Drilling
20				TOB 16'							
25											
30											
35											
40											

Notes: HAB 79 (15-16') SENT TO LAB FOR TPH BTEX GW NOT
ENCOUNTERED BH GROUDED TO SURFACE
Auger Refusal at 15'

Geologist Signature

Holly Bradbury