

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
220 S. St. Francis Dr., Santa Fe, NM 87505

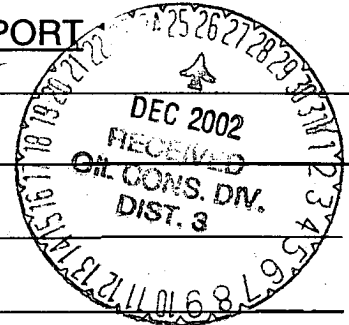
State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Risk-outside VA
Pume defined
Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-08805



Operator: Meridian *by EPFS* Telephone

Address:

Facility Or: Oswell Federal #1, Meter 73937

Well Name

Location: Unit or Qtr/Qtr Sec F Sec 4 T 29 R 11 County San Juan

Pit Type: Separator _____ Dehydrator X Other _____

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

Pit Location: Pit dimensions: length 14', width 14', depth 1'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 57'

Direction from reference: 142 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>0</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): 0

Date Remediation Started: 04/18/94 Date completed: 04/18/94

Remediation Method: Excavation X Approx. cubic yards 50

(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: Soil contaminated at 1' x 11' x 12' completed digging at 10:00.

Backfilled and left at 11:00.

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 04/18/94 Sample time 10:00

Sample Results

Benzene(ppm) 57.1

Total BTEX(ppm) 640

Field headspace(ppm) 193

TPH 5040

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
and Title

Scott T. Pope
Senior Env. Scientist



PIT CLOSURE REQUEST

Oswald Federal #1
Meter/Line ID 73937

SITE DETAILS

Legals - Twn: 29N

Rng: 11

Sec: 4

Unit: F

NMOCD Hazard Ranking: 0

Land Type: BLM

Operator: Meridian Oil Inc.

Pit Closure Date: 3/18/94

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 and BTEX. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 193 ppm; laboratory analysis indicated a benzene concentration of 0.5 mg/kg, a total BTEX concentration of 640 mg/kg, and a TPH concentration of 5,040 mg/kg. The total BTEX, and TPH measurements exceeded recommended remediation levels for the Hazard Ranking Score of 0.

Approximately 50 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 with refusal at 40 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 40-40.5 ft bgs. Headspace analysis indicated an organic vapor content of 133 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 19.9 mg/kg. The benzene, total BTEX, and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were performed.

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 soil was excavated to the practical extent of the equipment and subsurface conditions. All soil was disposed of at 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 to 40 ft bgs.

FIELD PIT SITE ASSESSMENT FORM

*
1

GENERAL

Meter: 73932 Location: OSWELL FEDERAL #1
 Operator #: 1987 Operator Name: MERIDIAN P/L District: KUTZ
 Coordinates: Letter: E Section 4 Township: 29 Range: 11
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
 Site Visit Date: 3-18-94 Run: 02 41

SITE ASSESSMENT

NMOCD Zone: Inside _____ **Land Type:** BLM ☒
 (From NMOCD Vulnerable _____ State ☐
 Maps) Zone ☒ Fee ☐
 Outside ☐ Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☐
 50 Ft to 99 Ft (10 points) ☐
 Greater Than 100 Ft (0 points) ☒

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? ☐ YES (20 points) ☒ 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) ☒

Name of Surface Water Body _____

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

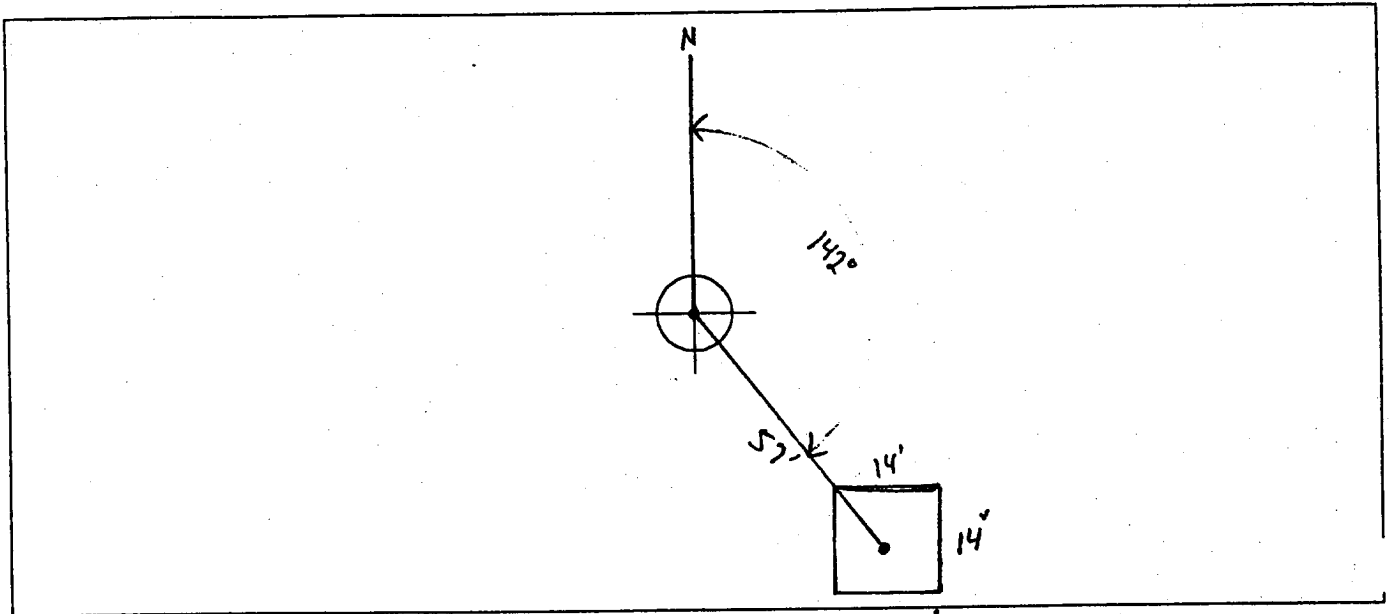
TOTAL HAZARD RANKING SCORE: 0 **POINTS**

REMARKS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY.

ORIGINAL PIT LOCATION

REMARKS



STARTED TAKING PICTURES AT 4:00 P.M.
END DUMP

END DUMP


Signature

3.18.94
Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 23937 Location: Cswell Federal #1
 Coordinates: Letter: F Section 4 Township: 29 Range: 11
 Or Latitude _____ Longitude _____
 Date Started : 4-18-94 Area: 02 Run: 41

FIELD OBSERVATIONS

Sample Number(s): 940693 VW5
 Sample Depth: 12' Feet
 Final PID Reading 193 PID Reading Depth 12' Feet
 Yes No
 Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth 12' Feet

CLOSURE

Remediation Method :
 Excavation ☒ (1) Approx. Cubic Yards 50
 Onsite Bioremediation ☐ (2)
 Backfill Pit Without Excavation ☐ (3)
 Soil Disposition:
 Envirotech ☐ (1) ☒ (3) Tierra
 Other Facility ☐ (2) Name: _____
 Pit Closure Date: 4-18-94 Pit Closed By: BEI

REMARKS

Remarks: Soil contaminated at 1', 11x12'x12' completed digging at 10:00
Back filled & left at 11:00

Signature of Specialist: Vale Wilson



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW 5	940693
MTR CODE SITE NAME:	73993 73937	N/A
SAMPLE DATE TIME (Hrs):	4/18/94	1000
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	4-21-94	4-21-94
DATE OF BTEX EXT. ANAL.:	4/25/94	4/25/94
TYPE DESCRIPTION:	VC	Grey Clay / Sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	57.1	MG/KG	20		0.48	20
TOLUENE	282	MG/KG	20	D 2, B	0.48	20
ETHYL BENZENE	28.8	MG/KG	20	X 10	0.99	20
TOTAL XYLENES	272	MG/KG	20	D 1	0.48	20
TOTAL BTEX	640	MG/KG	0.0417		0.48	20
TPH (418.1)	5040	MG/KG			2.14	28
HEADSPACE PID	193	PPM				
PERCENT SOLIDS	8.3%	%				

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

The Surrogate Recovery was at 107.9 % for this sample All QA/QC was acceptable.
ative: X10 = 127.8 % on 4/4/94

DF = Dilution Factor Used

Approved By:

John Smith

Date:

5/17/94



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW5	940693
MTR CODE SITE NAME	MTR 73973 73937	
SAMPLE DATE TIME (Hrs):	5/18/94 4/18/94	1000
SAMPLED BY:		
DATE OF TPH EXT. ANAL.:	4/21/94	4/21/94
DATE OF BTEX EXT. ANAL.:	4/22/94	4/22/94
TYPE DESCRIPTION:	VC	

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE	28.8	MG/KG	20	X10	0.99	20
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	5040	MG/KG			2.14	
HEADSPACE PID	193	PPM				
PERCENT SOLIDS	83	%				

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

Surrogate Recovery was at
Narrative:

127.8 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Date:

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # _____
Page _____ of _____

Elevation _____
Borehole Location QF-S4-T29-R11
GWL Depth _____
Logged By CM CHANCE
Drilled By K Padilla F. Rivera
Date/Time Started 10/25/95-124p
Date/Time Completed 10/25/95-1645

Project Name EPNG PITS
Project Number 14509 Phase 6000 77
Project Location Dowell Federal #1 73937

Well Logged By CM Chance
Personnel On-Site K Padilla, O. Charlie
Contractors On-Site _____
Client Personnel On-Site _____

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

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 HS			Drilling Conditions & Blow Counts
0				Backfill + D12'						
5										
10										
15	1	15-17	10	Gray SAND, f-med sand, + vF, med dense, dry		17	0	380	520 182	1249hr
20	2	20-22.5	8	DK gray CLAY, + vF sand, stiff, med plastic + gray SILTSTONE, layered, v. hard		20.4	3	265	400 192	1256 - v. hard drilling
25	3	25-26	6	Br CLAY, hard, non plastic, + gypsum partings, dry		22	5	355	210 506	1303
30	4	30-30.5	5	AA			4	325	249 382	1318
35	5	35-35.5	5	L+ Gray SANDSTONE, vF-F sand, poorly cemented, v. hard			0	260	47 79	1334
40	6	40-40.5	6	AA			0	133	67 48	1354 - v. hard drilling - Refusal @ 40' - 40.5'
				TDB 40.5'						

Comments:

CM(166(40-40.5')) sent to lab(BTEX, TPH). BH grouted to surface

Geologist Signature

CM Chance



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC 166	947698
MTR CODE SITE NAME:	73937	Dswell Fed. #1
SAMPLE DATE TIME (Hrs):	10-25-95	1354
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	10/26/95	
DATE OF BTEX EXT. ANAL.:	10/27/95	10/27/95
TYPE DESCRIPTION:	1/G	light grey sand & sandstone

Field Remarks:

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 (418.1)	20-19.9	MG/KG				
HEADSPACE PID	48	PPM				
PERCENT SOLIDS	91.1	%				

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

Surrogate Recovery was at 98% for this sample All QA/QC was acceptable.
Negative:

DF = Dilution Factor Used

Approved By:

Date: 10/27/95