

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**

30-045-21682

Operator: Meridian (Site Closed by El Paso Field Services)

Telephone: \_\_\_\_\_

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

Facility Or: Johnston Federal #4A, Meter 89222

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

Location: Unit or Qtr/Qtr Sec J Sec 33 T 31 R 9 County San Juan

Pit Type: Separator \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other Drip

Land Type: BLM X, State \_\_\_\_\_, Fee \_\_\_\_\_ Other \_\_\_\_\_

Pit Location: Pit dimensions: length 27', width 28', depth 4'  
(Attach diagram)

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

Footage from reference: 96'

Direction from reference: 269 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: 10/03/94 Date completed: 10/03/94

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: No line markers. Hit sandstone at 5'. Closed pit.

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 5'

Sample Date 10/03/94 Sample time 13:50

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 13

TPH 3400

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 4/23/03

Signature

Scott T. Pope

Printed Name  
and Title

Scott Pope, Senior Environmental Scientist



## PIT CLOSURE REQUEST

Johnston Federal #4A  
Meter/Line ID 89222

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### SITE DETAILS

Legals - Twn: 31N	Rng: 9W	Sec: 33	Unit: J
NMOCD Hazard Ranking: 0		Land Type: BLM	
Operator: Meridian Oil Inc. Unicon		Pit Closure Date: 10/3/94	

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### RATIONALE FOR CLEAN 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 5 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 13 ppm, laboratory analysis indicated a TPH concentration of 3,400 mg/kg. The TPH measurement was within the recommended remediation level for the Hazard Ranking Score of 0.

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. There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

A Phase II boring was completed with refusal at 35.5 ft bgs. A soil sample was collected at 35-35.5 for field headspace, and laboratory analysis for TPH and BTEX. No groundwater was encountered in the soil boring. Headspace analysis indicated an organic vapor content of 33 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 of 0.

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 8 years.
- Recommended remediation levels were met in the initial excavation.
- Bedrock was encountered at 5 feet bgs.
- 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., direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring at 35.5 ft bgs; local geologic features indicate the depth to groundwater is greater than 100 ft bgs.

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

GENERAL

Meter: 89-222 Location: JOHNSON FEDERAL #4A  
Operator #: 0128 Operator Name: MERIDIAN P/L District: AZTEL  
Coordinates: Letter T Section 33 Township: 31 Range: 9  
or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Pit Type: Dehydrator \_\_\_\_\_ Location Drip: X Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
Site Assessment Date: 8-30-99 Area: 04 Run: 41  
Revised Date: 1-27-03

SITE ASSESSMENT

**NMOCD Zone:**

(from NMCOD Maps)

**Land Type:**

Inside ☐ (1)  
Outside ☒ (2)

BLM ☒ (1)  
State ☐ (2)  
Fee ☐ (3)  
Indian \_\_\_\_\_

**Depth to Groundwater**

Less than 50 Feet (20 points) ☐ (1)  
50 Feet to 99 Feet (10 Points) ☐ (2)  
Greater than 100 Feet (0 Points) ☒ (3)

**Well Protection Area**

Is it less than 1000 feet from well, spring or other source of fresh water extraction?  
or; Is it less than 200 feet from a private domestic water source?

☐ YES (20 Points) ☒ NO (0 Points)

**Horizontal Distance to Surface Water Body**

Less than 200 Feet (20 points) ☐ (1)  
200 Feet to 1000 Feet (10 Points) ☐ (2)  
Greater than 1000 Feet (0 Points) ☒ (3)

Name of Surface Water Body \_\_\_\_\_

(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)

Distance to Nearest Ephemeral Stream ☐ (1) < 100 feet (Navajo Pits Only)  
☐ (2) > 100 feet

**TOTAL HAZARD RANKING SCORE** 0 **POINTS**

REMARKS

Remarks: REVISION BASED ON REASSESSMENT OF THE SITE FROM  
THE WELL PROTECTION AREA.

# FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 89-222 Location: Johnston Federal #4A  
 Operator #: 0128 Operator Name: Meridian P/L District: Aztec  
 Coordinates: Letter: J Section 33 Township: 31 Range: 9  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Pit Type: Dehydrator \_\_\_\_\_ Location Drip: X Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
 Site Assessment Date: 8/30/94 Area: 04 Run: 41

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☐ (1) Outside ☒ (2)

Land Type: 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 Alamo Canyon  
 (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  
 Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)  
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 20 POINTS

REMARKS

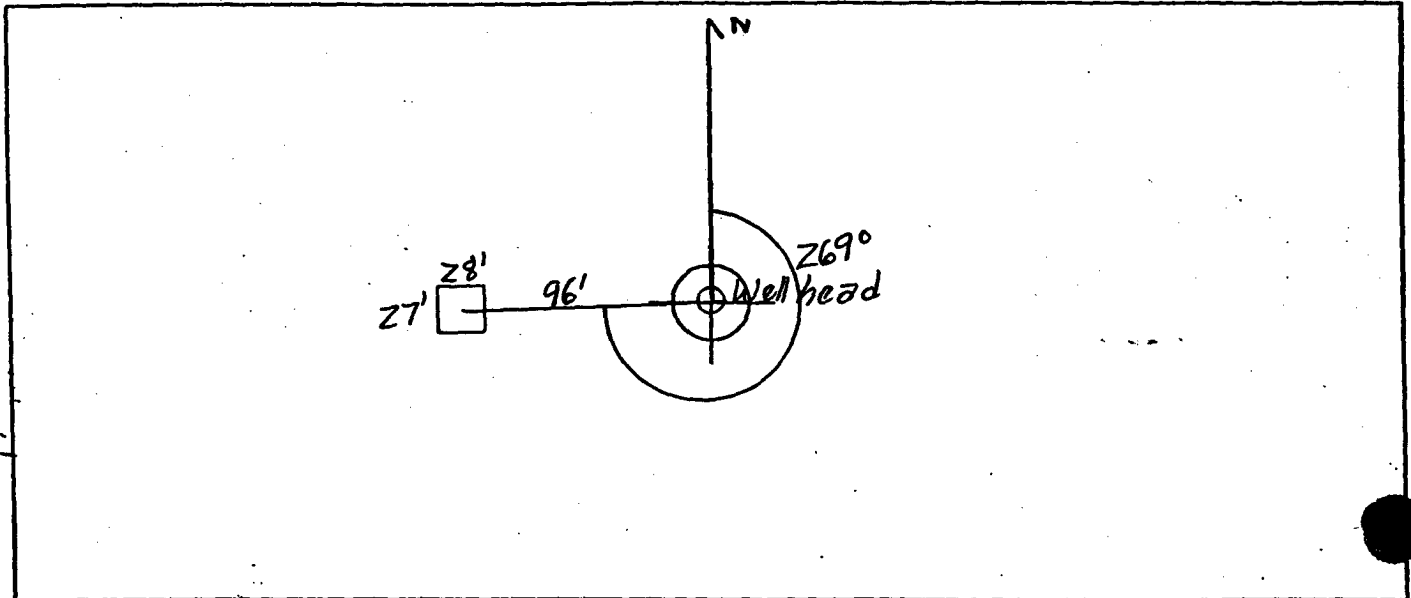
Remarks : Redline Book - Outside Vulnerable Zone Type - Outside  
Three pits on site, location drip pit is dry. Will close one pit.

PUSH IN

ORIGINAL PIT LOCATION

### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 269° Footage from Wellhead 96'  
b) Length : 27' Width : 28' Depth : 4'



REMARKS

**Remarks :**

Pictures @ 1315 (5-8, Roll 3)  
Dump Truck

Completed By:

Sarah Pelly

Signature

8/30/94

Date



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP280	946302
MTR CODE   SITE NAME:	89222	N/A
SAMPLE DATE   TIME (Hrs):	10-3-94	1350
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL:	10-6-94	
DATE OF BTEX EXT.   ANAL:	N/A	N/A
TYPE   DESCRIPTION:	VG	Brown sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	3400	MG/KG			2.24	28
HEADSPACE PID	13	PPM				
PERCENT SOLIDS	83.3	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By: 

Date: 10/13/94

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 89222 Location: JOHNSTON Federal #4A  
 Coordinates: Letter: J Section 33 Township: 31 Range: 9  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 10-3-94 Run: 04 41

FIELD OBSERVATIONS

Sample Number(s): KY 280  
 Sample Depth: 5' Feet  
 Final PID Reading 013 PID Reading Depth 5' 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: 10-3-94 Pit Closed By: B.E.I

REMARKS

Remarks : No Line markers. Hit SAND stone At 5'  
closed pit

Signature of Specialist: Kelly Padilla



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC376	980325
MTR CODE   SITE NAME:	89222	Johnston Fed. #4A
SAMPLE DATE   TIME (Hrs):	4/27/98	1630
PROJECT:	Phase II Drilling	
DATE OF TPH EXT.   ANAL.:	5/1/98	5/1/98
DATE OF BTEX EXT.   ANAL.:	4/28/98	4/29/98
TYPE   DESCRIPTION:	VG	SOIL

Field Remarks: 35-35.5'

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	33	PPM				
PERCENT SOLIDS	93.7	%				

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

The Surrogate Recovery was at 103 % for this sample All QA/QC was acceptable.  
Negative:

DF = Dilution Factor Used

Approved By: John Scatena

Date: 5/11/98

# RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

1000 Monroe Road  
Farmington, New Mexico 87401  
(505) 326-2262 FAX (505) 326-2388

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

Project Number 19007 Phase 1001.77  
Project Name EPFS WELLHEAD PITS  
Project Location Johnston Fed #4A  
89222

Elevation \_\_\_\_\_  
Borehole Location LTR: J S: 33 T: 31 R: 9  
GWL Depth NA  
Drilled By K. PADILLA  
Well Logged By C. CHANCE  
Date Started 4/27/98  
Date Completed 4/27/98

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	SA	
0										
5	1	5-5.9	12	Backfill to 5' +Gry/Bn SANDSTONE, weathered, F-med sand, tr. xly, poorly cemented, dry, odor			0	1	256 810	-Hard @ 5' -1508 hr 50/3"
10	2	10-10.2	3	DK Grn/Bn silty SAND, F-med sand, tr. coarse, v. dense, odor, moist			7	300	370 131	-cuttings black @ ~8'. Very hard -1523 hr 50/3"
15	3	15-15.2	3	Gry silty SAND, F-med sand, tr. coarse, v. dense, odor, moist			3	180	266 335	-1501 hr 50/3"
20	4	20-20.5	4	Bn clayey SAND, v. F-F sand, v. dense, dry, tr. weathered, sandstone parting			0	100	104 125	-1442 hr 50/3"
25	5	25-25.5	5	Redish br SANDSTONE, weathered, F-med sand, dry, poorly cemented			0	85	59 122	-1555 50/3"
30	6	30-30.5	4	Gry SANDSTONE, weathered, F sand, v. dense, dry, poorly cemented			0	120	57 28	-1608 50/3"
35	7	35-35.5	4	Bn SANDSTONE, weathered, F-med sand, poorly cemented, dry			0	79 33		-1630 v. hard drilling
40				TDB 35.5						

Comments:

SITE IS <1000' FROM UNAMED SPRING. SMC 376 sent to lab for  
BTEX & TPH (POLY) 35-35.5'. No GW encountered. BH Grouted  
to surface.

Geologist Signature

Cory Chance