

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

DEC 29 1997

Approved

Meter Number:95556

Location Name:CANADA MESA 3 E

Location:TN-24 RG-06

SC-14 UL-D

2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

RECEIVED
APR 14 1997

OIL COLL. DIV.
DML 3

**RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS
LOCATED OUTSIDE OF THE VULNERABLE ZONE
IN THE SAN JUAN BASIN**

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to the pit has been removed. There has been no discharge to the pits for at least 4 years and the pits have been closed for at least one year.

Each pit was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

Sandstone	10^{-9} to 10^{-13} cm/sec
Shale	10^{-12} to 10^{-16} cm/sec
Clay	10^{-12} to 10^{-15} cm/sec

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

LEPFS

FIELD PIT SITE ASSESSMENT FORM

EL PASO FIELD SERVICES

GENERAL

Meter: 95-556 Location: Canada Mesa 3E
 Operator #: 5997 Operator Name: Merrion P/L District: Ballard
 Coordinates: Letter: D Section 14 Township: 24 Range: 6
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 07/13/94 Area: 07 Run: 42

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

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 La Parita 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: 0 POINTS

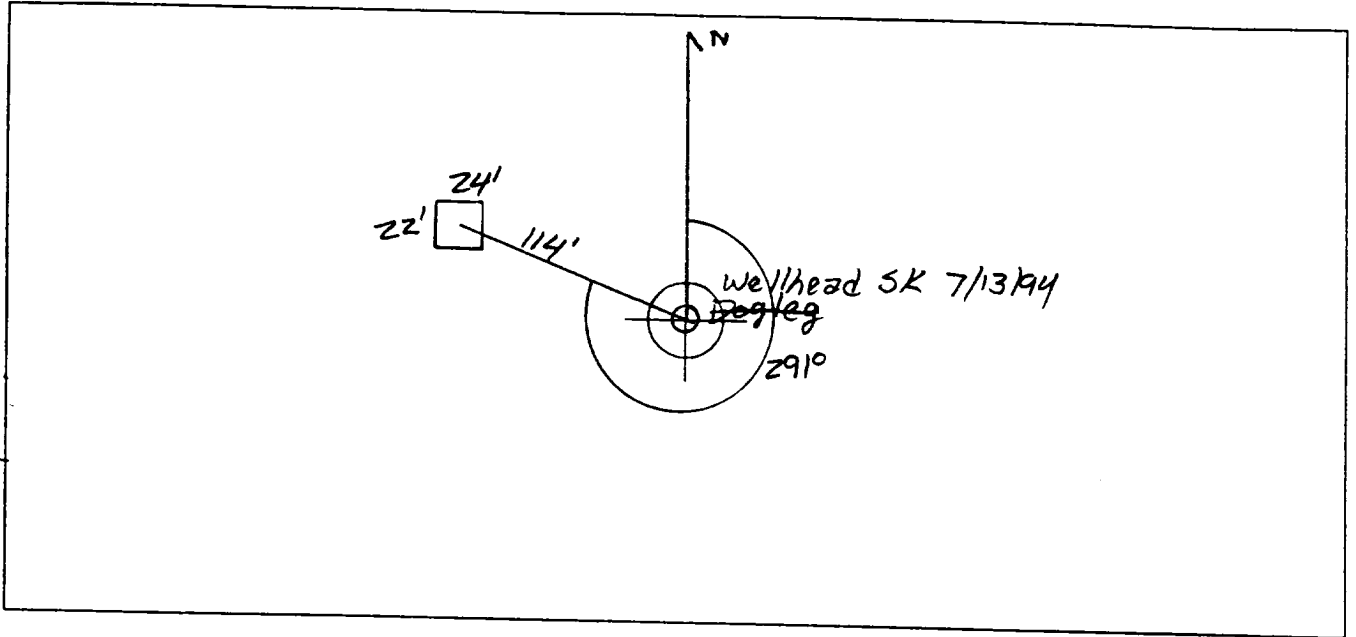
REMARKS

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

PUSH IN

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 291° Footage from Wellhead 114'
b) Length : 22' Width : 24' Depth : 3'



REMARKS :

Pictures @ 12:41 (8-11, Roll 17)
Dump Truck

Completed By:

Mark Kelly
Signature

7/13/94
Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 95556 Location: Canada Mesa 3E
 Coordinates: Letter: D Section 14 Township: 24 Range: 6
 Or Latitude _____ Longitude _____
 Date Started : 8-29-94 Area: 07 Run: 42

FIELD OBSERVATIONS

Sample Number(s): VW231
 Sample Depth: 7' Feet
 Final PID Reading 435 PID Reading Depth 7' 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: 8-29-94 Pit Closed By: BEI

REMARKS

Remarks : 3 Trucks of Backfill 7' sandstone

Signature of Specialist: Vicki Wilson



**FIELD SERVICES LABORATORY
ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	YLS 231	946032
MTR CODE SITE NAME:	95556	N/A
SAMPLE DATE TIME (Hrs):	8-29-94	1500
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-30-94	8-30-94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	Black fine sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	8250 8246 ⁸¹³¹	MG/KG			0.73	28
HEADSPACE PID	435	PPM				
PERCENT SOLIDS	91.2	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

9/2/94

 Test Method for
 Oil and Grease and Petroleum Hydrocarbons
 in Water and Soil

 Perkin-Elmer Model 1600 FT-IR
 Analysis Report
