

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

DEC 30 1997

Meter Number:14043
Location Name:MONCRIEF FEDERAL #1
Location:TN-29 RG-12
SC-22 UL-H
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

RECEIVED
APR 14 1997
OIL CON. DIV.
DIST. 3

Approved

**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.

FIELD PIT SITE ASSESSMENT FORM

EL PASO FIELD SERVICES

GENERAL

Meter: 14043 Location: MONCRIEF FEDERAL #1
 Operator #: 9165 Operator Name: UNION 76 P/L District: KUTZ
 Coordinates: Letter: H Section 22 Township: 29 Range: 12
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
 Site Visit Date: 4.6.94 Run: 02 33

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

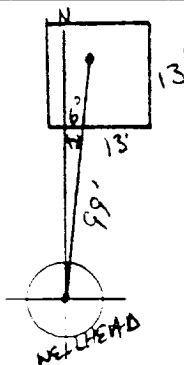
REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE.
PIT IS OILY. LOCATION IS UP ON A MESA LOOKING DOWN
TO THE N.W. ON KUTZ COMPRESSOR STATION.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 6° Footage to Wellhead 99'
b) Degrees from North _____ Footage to Dogleg _____
Dogleg Name _____
c) Length : 13' Width : 13' Depth : 3'



REMARKS

Remarks :

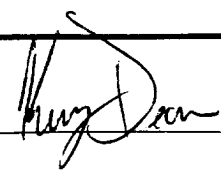
STARTED TAKING PICTURES AT 8:45 A.M.END DUMP

Completed By:

Robert Thompson
Signature

4.6.94
Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>14043</u> Location: <u>Moncrief Federal #1</u></p> <p>Coordinates: Letter: <u>11</u> Section <u>22</u> Township: <u>29</u> Range: <u>12</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>6/1/95</u> Run: <u>02</u> <u>33</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 445</u> ^{WDX} <u>6/2/95</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>699 ppm</u> PID Reading Depth <u>12'</u> Feet</p> <p>Groundwater Encountered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input type="checkbox"/> Approx. Cubic Yards <u>0</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input checked="" type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> Tierra <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>6/1/95</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>Dug test hole to 12', took pid sample, closed pit</u></p> <p>_____</p> <p>_____</p>
	<p>Signature of Specialist: <u></u></p>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 245	946856
MTR CODE SITE NAME:	14043	N/A
SAMPLE DATE TIME (Hrs):	0955	6-1-95
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	6-2-95	6-2-95
DATE OF BTEX EXT. ANAL.:		
TYPE DESCRIPTION:	VG	Dark grey sand and clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	116600	MG/KG			0.58	28
HEADSPACE PID	694	PPM				
PERCENT SOLIDS	92.2	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

John Seab

Date:

6/8/95

 Test Method for
 Oil and Grease and Petroleum Hydrocarbons
 in Water and Soil
 Perkin-Elmer Model 1600 FT-IR
 Analysis Report

7/17/94 10:08

Sample Identification
 440130

Initial mass of sample, g
 0.40

Mass of sample after extraction, g
 0.10

Extraction solvent, g
 10.00

Extraction time, min
 10

