

DEC 8 1997

Approved

Meter Number: 74929

Location Name: PRICHARD FEDERAL #1 PC

Location: TN-29 RG-08

SC-06 UL-G

2 - Federal

NMOCD Zone: OUTSIDE

Hazard Ranking Score: 00

RECEIVED
APR 14 1997

OIL CON. DIV.
DIST. 1

**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.

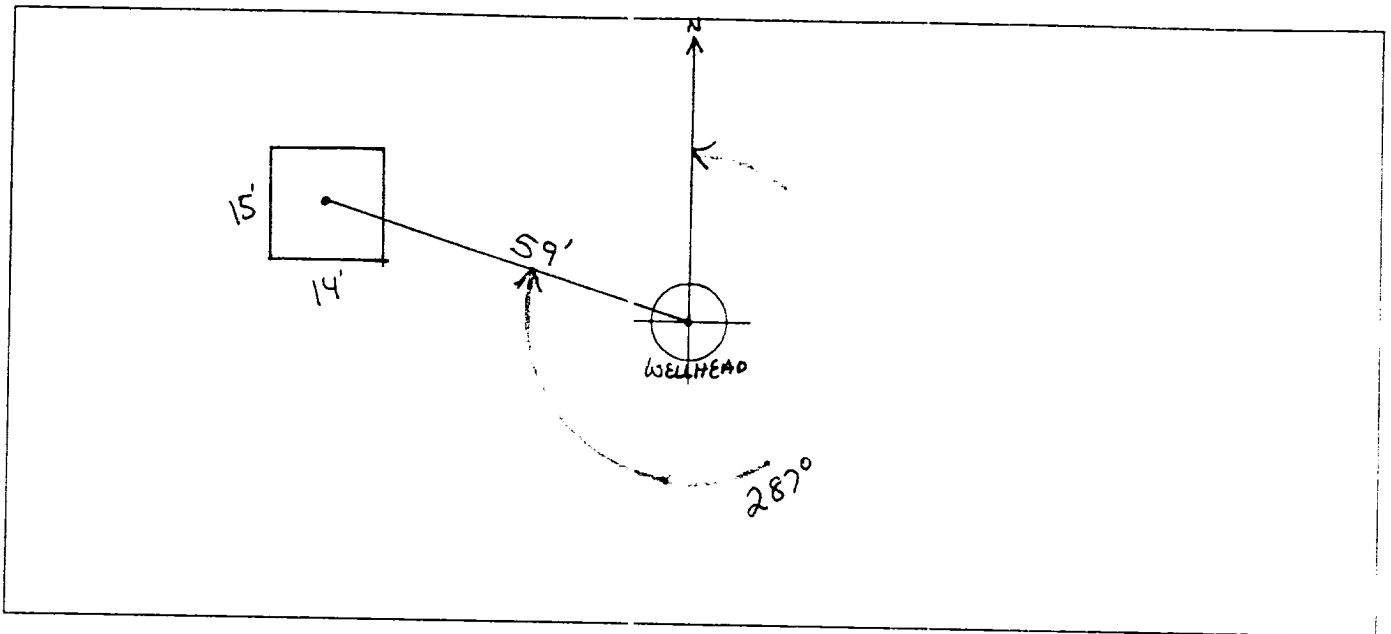
Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>74929</u> Location: <u>PRICHARD FEDERAL #1</u> PC Operator #: <u>2999</u> Operator Name: <u>MERIDIAN</u> P/L District: <u>BLOOMFIELD</u> Coordinates: Letter: <u>6</u> Section <u>6</u> Township: <u>29</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>5.8.94</u> Area: <u>10</u> Run: <u>31</u>
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 _____ (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: <u>0</u> POINTS
REMARKS	Remarks : <u>FOUR PITS ON LOCATION. WILL CLOSE TWO OF THEM. PITS MV</u> <u>PIT IS A LITTLE OILY AND THE PC PIT IS DRY. LOCATION IS UP ON</u> <u>TOP OF MANZANARES MESA. REDLINE AND TOPS CONFIRMED LOCATION TO</u> <u>BE OUTSIDE THE V.Z. PUSH IN</u>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 287° Footage from Wellhead 59'
 b) Length : 15' Width : 14' Depth : 1'



Remarks :

TOOK PICTURES AT 1:08 P.M.
END DUMP

Completed By:

Robert Thompson

Signature

5-8-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 74929 Location: Prichard Federal # 1 PC
 Coordinates: Letter: G Section 6 Township: 29 Range: 8
 Or Latitude _____ Longitude _____
 Date Started : 6-28-94 Area: 10 Run: 31

FIELD OBSERVATIONS

Sample Number(s): MK57
 Sample Depth: 3' Feet
 Final PID Reading 137 PID Reading Depth 3' 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: 6-28-94 Pit Closed By: DEI

REMARKS

Remarks : EPUG lines marked soil Gray Strong
Hydrocarbon odor Hit Sand Stone 3'

Signature of Specialist: Morgan Killion



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

mi 57	945548
74929	N/A
6-28-94	1435
N/A	N/A
6-30-94	6/30/94
N/A	N/A
VG	grey sand/clay

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	35,900	MG/KG			0.24	28
HEADSPACE PID	137	PPM				
PERCENT SOLIDS	81.4	%				

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

he Surrogate Recovery was at
arrative:

N/A

% for this sample

All QA/QC was acceptable.

F = Dilution Factor Used

Approved By:

John L. Lueder

Date:

7/4/94

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

Perkin-Elmer Model 1600 FT-IR
Analysis Report

ILLEGIBLE

94/06/30 15:37

Sample identification
945548

Initial mass of sample, g
0.240

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
35928.628

Net absorbance of hydrocarbons (2930 cm⁻¹)
0.539

