

DEC 29 1987

INSPECTOR

Approved

Meter Number:94824

Location Name: SCHWERTFEGER A #2E

Location: TN-28 RG-08

SC-31 UL-M

2 - Federal

NMOCD Zone: OUTSIDE

Hazard Ranking Score: 00

RECEIVED
APR 14 1987

OIL CON. DIV.
DIST. 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.

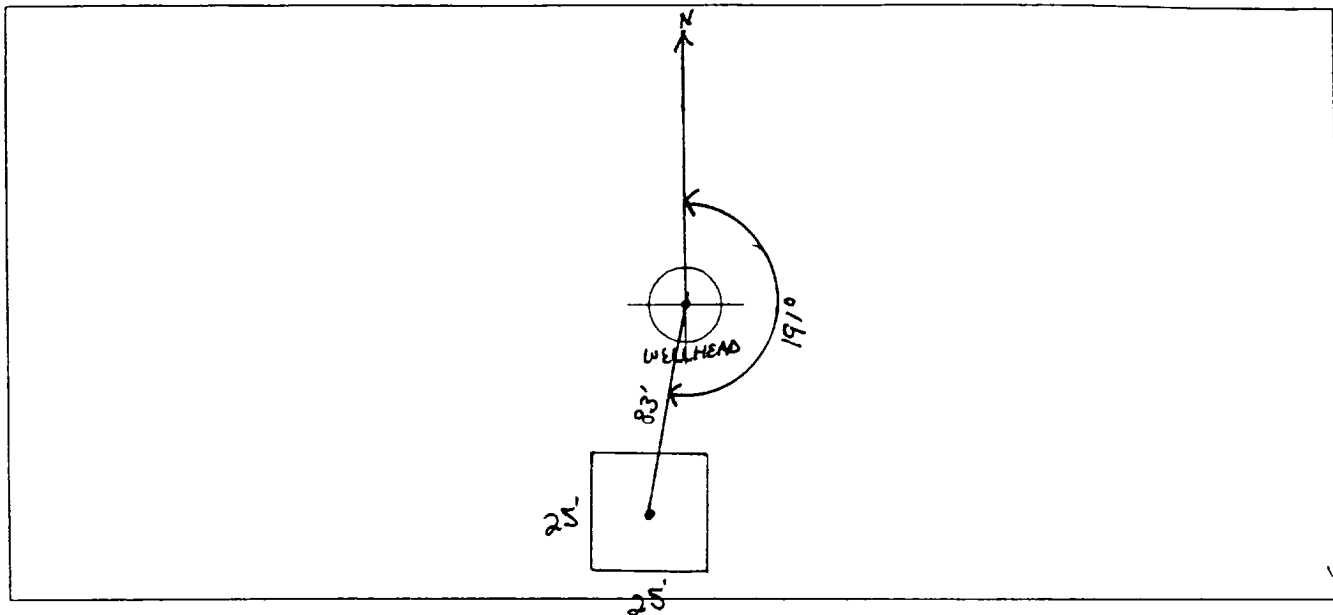
(50101) 04/08/94

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 191° Footage from Wellhead 83'

b) Length : 25' Width : 25' Depth : 4'

ORIGINAL PIT LOCATION



Remarks :

TOOK PICTURES AT 12:22 P.M.

DUMP TRUCK

STEEP HILL GETTING DOWN TO LOCATION. UNLOAD EQUIPMENT BEFORE GOING UP OR DOWN.

REMARKS

Completed By:

Robert Thompson

Signature

6.14.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>94824</u> Location: <u>Schwendt Feger A #2E</u> Coordinates: Letter: <u>M</u> Section <u>31</u> Township: <u>28</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Date Started : <u>9-19-94</u> Run: <u>07</u> <u>21</u>
FIELD OBSERVATIONS	Sample Number(s): <u>1W303</u> Sample Depth: <u>6'</u> Feet Final PID Reading <u>254</u> PID Reading Depth <u>6'</u> Feet <div style="display: flex; justify-content: space-around;"> Yes No </div> Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet
CLOSURE	Remediation Method : <div style="display: flex; justify-content: space-between;"> <div> Excavation Onsite Bioremediation Backfill Pit Without Excavation </div> <div style="text-align: right;"> <input type="checkbox"/> Approx. Cubic Yards _____ <input type="checkbox"/> <input checked="" type="checkbox"/> </div> </div> Soil Disposition: <div style="display: flex; justify-content: space-between;"> <div> Envirotech <input type="checkbox"/> Other Facility <input type="checkbox"/> </div> <div style="text-align: right;"> <input type="checkbox"/> Tierra Name: _____ </div> </div> Pit Closure Date: <u>9-19-94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>6' sandstone</u> _____ _____
	Signature of Specialist: <u>Vale Wilson</u>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL:

DATE OF BTEX EXT. | ANAL:

TYPE | DESCRIPTION:

NW 303

946163

94824

N/A

9-19-94

1230

N/A

9-20-94

9-20-94

N/A

N/A

VG

Lt. Tan Sand/Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	870	MG/KG			2.14	28
HEADSPACE PID	254	PPM				
PERCENT SOLIDS	89.4	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

9/30/94

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

04/09/20 13:23

Sample Identification

146163

Original mass of sample, g

1.000

Mass of sample after extraction, g

12.000

Petroleum hydrocarbons, ppm

17.117

Net absorbance of hydrocarbons (2930 cm⁻¹)

0.000

Petroleum hydrocarbons spectrum

13:25

