

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Approved

Meter Number: 75854
Location Name: FLORANCE D #2
Location: TN-30 RG-09
SC-23 UL-E
2 - Federal
NMOCD Zone: OUTSIDE
Hazard Ranking Score: 00

RECEIVED
APR 14 1997

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

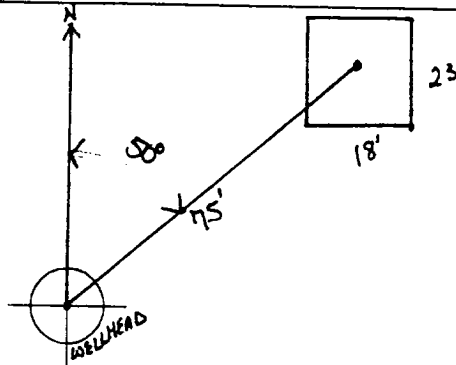
Based on this information, the residual hydrocarbons should not migrate to groundwater.

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.

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 50° Footage from Wellhead 75'
b) Length : 23' Width : 18' Depth : 3'



Remarks :

TOOK PICTURES AT 12:25 P.M.

END DUMP

Completed By:

Robert Thompson
Signature

4.26.94
Date

GENERAL

Meter: 75854 Location: Florence D #2

Coordinates: Letter: E Section 23 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-18-94 Area: 10 Run: 33

FIELD OBSERVATIONS

Sample Number(s): VW102

Sample Depth: 4' Feet

Final PID Reading 157 PID Reading Depth 4' 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: 5-18-94 Pit Closed By: BEI

REMARKS

Remarks : EPN/G line markers 4' sandstone Pit had
a lot of paraffin

Signature of Specialist: Vale Wilson



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW102	945223
MTR CODE SITE NAME:	75854	N/A
SAMPLE DATE TIME (Hrs):	5-18-94	1045
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5-19-94	5/19/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	V6	Grey course sand

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)	32,100	MG/KG			0.20	28
HEADSPACE PID	157	PPM				
PERCENT SOLIDS	83.5	%				

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

The Surrogate Recovery was at N/A % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

John Lardi

Date:

6/15/94

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

44/05/19 15:47

Sample identification
 745222

Initial mass of sample, g
 0.200

Volume of sample after extraction, ml
 10.000

Petroleum hydrocarbons, ppm
 104.552
 Net absorbance of hydrocarbons (2970 cm⁻¹)
 0.71

W: Petroleum hydrocarbons spectrum

15:48

