Denny S. Fourt DEPUTY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number:75801
Location Name:MANSFIELD #3
Location:TN-30 RG-09
SC-19 UL-P
2 - Federal
NMOCD Zone:OUTSIDE

PECETVED APR 1 4 1997 D OOL GON. DEV.

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

Hazard Ranking Score:00

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:

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.

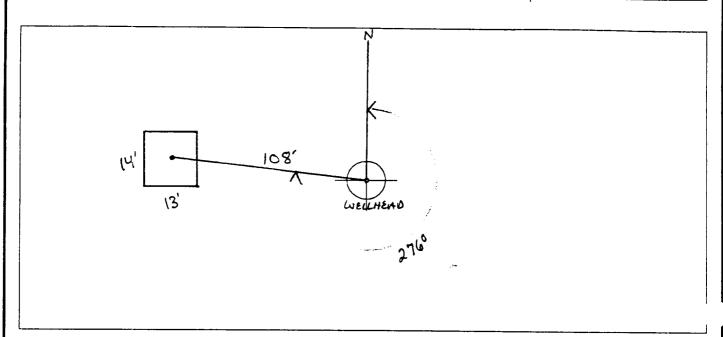
Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 75801 Location: MANSFIELD #3 Operator #: Operator Name: P/L District: Coordinates: Letter: Section Township: Range: Or				
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM (1) State (2) Fee (3) Indian				
SITE ASSESSMENT	Depth to Groundwater Less Than 50 Feet (20 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? (1) YES (20 points) (2) NO (0 points)				
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)				
	(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: POINTS				
RKS	Remarks :				
EMARKS					

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 276° Footage from Wellhead 108'



	Remarks: STARTED TAKING PICTURES AT //:30 A.M. END DUMP
REMARKS	
RE	

Completed By:

Signature

<u>4.19.94</u> Date

FIELD 'IT REMEDIATION/CLOSUI FORM

GENERAL	Meter: 75% Location: Mansfield # 3 Coordinates: Letter: P Section 19 Township: 30 Range: 9 Or Latitude Longitude Date Started: 5-17-94 Area: 10 Run: 33
FIELD OBSERVATIONS	Sample Number(s): \(\frac{11'}{100} \) Feet Final PID Reading \(\frac{11'}{100} \) Feet Yes No Groundwater Encountered \(\prec{1}{100} \) (1) \(\frac{1}{100} \) (2) Approximate Depth \(\frac{11'}{100} \) Feet
CLOSURE	Remediation Method: Excavation
EMARKS	Remarks: Line Maikers - Hit sandstone II' Signature of Specialist: Vale Wilson (SP3191) 04/07/94

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FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field	ID		Lab ID		
SAMPLE NUMBER:	VW86		945203			
MTR CODE SITE NAME:	75801		N/A			
SAMPLE DATE TIME (Hrs):	5-17-91		0930			
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:			5/18/94 NIA			
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:			Brown -	Inc. 52	no	
1						
REMARKS: _				<u>-</u> -		
		RESULTS				
PARAMETER	RESULT	UNITS	1.	QUALIFI	ERS	
PARAMETER			DF	Q	M(g)	V(ml
			1		ı	l
BENZENE		MG/KG				
BENZENE TOLUENE		MG/KG				

TOLUENE		MG/KG				
TOLUENE ETHYL BENZENE		MG/KG				
TOLUENE ETHYL BENZENE TOTAL XYLENES	<10	MG/KG MG/KG MG/KG			2.15	28
TOLUENE ETHYL BENZENE TOTAL XYLENES TOTAL BTEX	ی	MG/KG MG/KG MG/KG			2.15	28
TOLUENE ETHYL BENZENE TOTAL XYLENES TOTAL BTEX TPH (418.1) HEADSPACE PID PERCENT SOLIDS		MG/KG MG/KG MG/KG MG/KG MG/KG PPM			2.15	28

************************* Test Method for Oil and Grease and Petroleum Hydrocarbons * in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 74/05/18 13:57 Bample Edentification F45200 Tachial wass of sample, g n 150

Follows of sample after extraction, $\mathfrak{m}1$

Patroleum hydrocarbons, ppm 18.165 Ver absorbance of hydrocarbons (2930 cm-1) 1.001

