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Meter Number:73564

No. 2 GAS No. 2000 Location Name: CORNELL D-1 Location:TN-29 RG-12

SC-12 UL-O 2 - Federal NMOCD Zone:OUTSIDE Hazard Ranking Score:00

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:

 10^{-9} to 10^{-13} cm/sec 10^{-12} to 10^{-16} cm/sec Sandstone Shale 10⁻¹² to 10⁻¹⁵ cm/sec Clav

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: 73549 Location:							
SITE ASSESSMENT	NMOCD Zone: Inside							
REMARKS	Remarks: 2 PITS ON LOCATION. WILL CLOSE ONLY ONE OF THEM, PIT DRY.							

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73564 Location: Cornell D-1 Coordinates: Letter: O Section 12 Township: 29 Range: 12 Or Latitude Longitude Date Started: 6-16-94 Area: 02 Run: 0-2
FIELD OBSERVATIONS	Sample Number(s): \(\sum \frac{\partial \text{VW83}}{\partial \text{Sample Depth: } \sum \frac{12}{\partial \text{Feet}}}\) Feet Final PID Reading \(\frac{201}{\text{Yes}} \) No Groundwater Encountered \(\begin{array}{c} \left(1) \emptysete \text{X} \text{(2) Approximate Depth } \left(\frac{12}{\text{Feet}} \)
CLOSURE	
PEMARKS	
	Signature of Specialist: Vale Warn



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	SAMPLE	DENTIFICA	TION			
	Field ID		Lab ID			
SAMPLE NUMBER:	R: VW83		945182			
MTR CODE SITE NAME:	73564		NIA			
SAMPLE DATE TIME (Hrs):	5-16-94		1220			
SAMPLED BY:	NIA					
DATE OF TPH EXT. ANAL.:	5/17/94 NA VG		5/17/94 N/A			
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:			Frown Course Sand			
REMARKS:					· · · · · · · · · · · · · · · · · · ·	
	P	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)	<10	MG/KG			2.14	28
HEADSPACE PID	PID 201 PPM					
PERCENT SOLIDS						
	TPH is by EPA Method 4	118.1 and BTEX is by			ble.	

DF = Dilution Factor Used

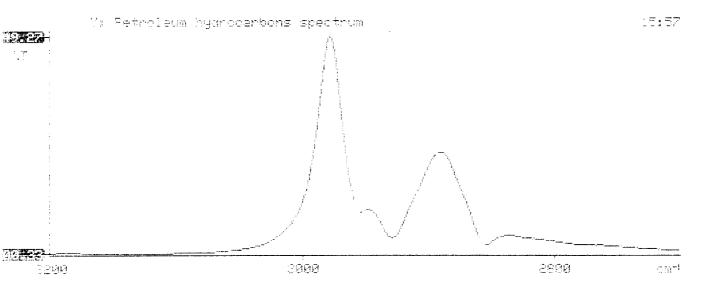
94/05/17 15:57

Sample identification =45182

Initial mass of sample, g

Volume of sample after extraction, ml 32.000

Petroleum hydrocarbons, ppm -!11.591 Net absorbance of hydrocarbons (2930 cm-1)



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