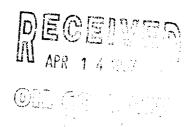
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Meter Number:94356
Location Name:Roeloffs #4E DK
Location:TN-29 RG-08
SC-22 UL-I
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00



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:

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 ELPASOFIELD SERVICES

GENERAL	Meter: 94356 Location: Ros Loffs #48 Dk Operator #: 0203 Operator Name: Amoeo P/L District: BLANCO Coordinates: Letter: Section 22 Township: _29 Range: 8 Or						
	NMOCD Zone: Land Type: BLM ☒ (1) (From NMOCD State ☐ (2) Maps) Inside ☐ (1) Fee ☐ (3) Outside ☒ (2) Indian						
SITE ASSESSIMENT	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'						
į	TOTAL HAZARD RANKING SCORE: POINTS						
REMAF"	Remarks: REDUNE: TOPO SHOW LOCATION OUTSIDE V.7. THERE ARE THREE PITS ON THIS LOCATION. UNUSED DEHY PIT BELONGS TO EPNG. THE OTHER TWO PITS BELONG TO THE OPERATOR. WILL CLOSE EPNG'S PIT. (SP3190) 04/08/94						

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94356 Location: RoE Lo FF 5 4 E OK Coordinates: Letter: I Section 22 Township: 29 Range: 8 Or Latitude Longitude Longitude Date Started: 10-10-95 Run: 13 52
TIELD OBSERVATIONS	Sample Number(s): MK 486 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
**EMARKS	Remarks: Arrived Dug Sample Hole Soil 6mi Brown Slight HyDro carbon odor Hit Rock 5' Signature of Specialist: Marya Xillian (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	SAMPLE	IDENTIFICA	ATION			
SAMPLE NUMBER:	MK486		947617			
MTR CODE SITE NAME:				Roeloffs#4E NIA		
SAMPLE DATE TIME (Hrs): 10-10-95			1130			
Project SAMPLEDBY:	PhaseI	Direct troops and come				
DATE OF TPH EXT. ANAL.:	10/4/35					
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:	V6					
REMARKS:	F	RESULTS				
PARAMETER	RESULT UNITS		DF	QUALIFIERS DF Q M(g) V(ml)		
TPH (418.1)	175	MG/KG			Q.0	3.7
HEADSPACE PID	31	PPM				
PERCENT SOLIDS	97.5	%				
		TPH is by EPA Meti	had 418.1			
arrative:						
F = Dilution Factor Used						
Approved By:	P.		Date:	10 -	13-95	-
pp.0000 57.	~					_

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Test Method for

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Oil and Grease and Fetroleum Hydrocarbons
in Water and Soil
*

95/10/11 14:26

: Bample identification 947617

Initial cass of sample, q 2.000

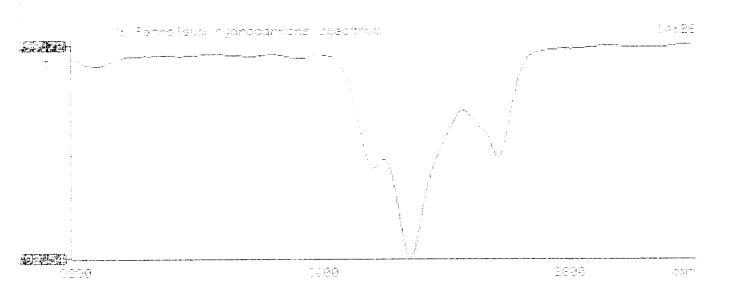
Volume of sample after extraction, ml 18.000

Petroleum hydrozarbons, ppm

:74.595

Net absorbance of hydrocarbons (2930 cm-1)

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