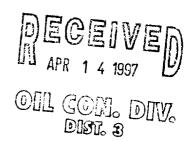
DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1997

Meter Number:90803 Location Name:GOOCH 2 Location:TN-28 RG-08 SC-29 UL-G 4 - Fee

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



GENERAL	Meter: 90803 Location: Gooch 2 Operator #: 0203 Operator Name: Amore P/L District: Blanco Coordinates: Letter: Section 29 Township: 28 Range: 8 Or Latitude Longitude Pit Type: Dehydrator \(\subseteq \) Location Drip: Line Drip: Other: Site Assessment Date: \(\frac{5}{17}/44 \) Area: \(\frac{03}{2} \) Run: \(\frac{82}{2} \)							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) Feet (20 points) Greater Than 100 Ft (0 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? Horizontal Distance to Surface Water Body Land Type: BLM (1) State (2) Fee (3) Indian PATENTEO LANDS Wellhead Protection Area: Is it less than 100 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) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (2) Greater Than 1000 Ft (10 points) (3)							
	Name of Surface Water Body <u>Lorgo Conton</u> (closest) (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							
REMARKS	Remarks: Redline + Vula - Outside Spits Will close 1. Pit Dry							
RE	PUSH-IN (SP3190) 04/08/94							

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90803 Location: 600ck #2 Coordinates: Letter: 6 Section 29 Township: 28 Range: 8 Or Latitude Longitude Date Started: 8-10-941 Run: 03 82							
FIELD OBSERVATIONS	Sample Number(s): MK 248 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered							
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 8-10-94 Pit Closed By: BEF							
REMARKS	Remarks: EPNG! Marked Soil Black Slight Million Signature of Specialist: Morgan Killian							



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field	ID		Lab ID		
SAMPLE NUMBER:	SAMPLE NUMBER: MK 248			945892		
MTR CODE SITE NAME:	_			N/A		
SAMPLE DATE TIME (Hrs):	8-10-94		1010			
SAMPLED BY:		N/A				
DATE OF TPH EXT. ANAL.:	8-11-91	8-11-94				
DATE OF BTEX EXT. ANAL.:			MIM			
TYPE DESCRIPTION:	V G		Hey same	Trey sand I clay		
_			V I			
REMARKS:						
	F	RESULTS				
						
PARAMETER	PARAMETER RESULT		QUALIFIERS			
		Wa. [Q]	DF	<u> </u>	M(g)	V(ml)
TPH (418.1) 478	480 AM	MG/KG			2,38	28
HEADSPACE PID	481	PPM				
PERCENT SOLIDS	92.3	%				
		TPH is by EPA Meth	od 418.1		_	
Narrative:						
OF = Dilution Factor Used		<u> </u>				<u></u> .
Di - Diidiidii i dotoi daga						
\circ				/	,	
Approved By:			Date:	9/2	164	
Approved by.			 -		(

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR

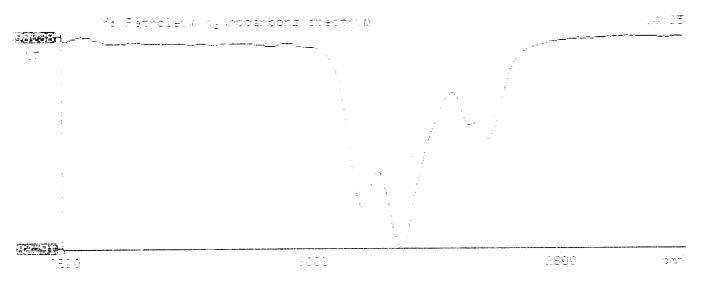
T4/08/11 14:35

Bample identification 945872

Initial mass of sample, g

Tilume of sample after extraction, ml 2.000

Petroleum hydrocarbons, ppm TB::183 | Vet absorbance of hydrocarbons (2930 cm-1) | 1833



*