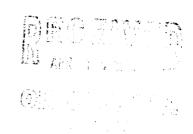
DEPUTY OIL & GAS INSPECTOR

DEC 3 0 997

Meter Number: 90809 Location Name: HUGHES #4 Location: TN-29 RG-08 SC-29 UL-A 2 - Federal NMOCD Zone: OUTSIDE Hazard Ranking Score: 00



EATIONALE 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 pix 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: 10809 Location: HUGHES #4 Operator #: Daba Operator Name: Amero P/L District: Blanco Coordinates: Letter: A Section 21 Township: 29 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: Area: 13 Run: 5
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Maps) Depth to Groundwater Less Than 50 Feet (20 points) 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; ls. it less than 200 ft from a private domestic water source? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) Creater Than 1000 Ft (0 points) (2) Greater Than 1000 Ft (20 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) Name of Surface Water Body (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: D POINTS
RKS	Remarks: Redine-Outside, Vulnerable Zonemap- Outside
REMARKS	
R	PUSH-IN -

__ 1 __

(SP3190) 04/08/94

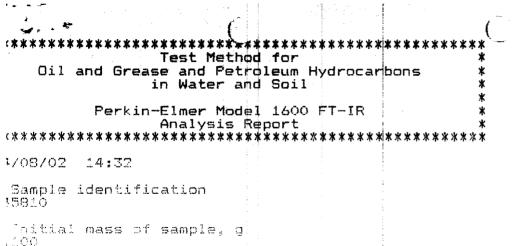
FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90809 Location: 1/09hes #4 Coordinates: Letter: A Section 29 Township: 29 Range: 8 Or Latitude Longitude Date Started: 8-1-94 Run: 13 51							
FIELD OBSERVATIONS	Sample Number(s): MK205 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered							
CLOSURE	Remediation Method: Excavation							
	Envirotech							
REMARKS	Remarks: FANG lives marked Brownsoil No 1440-ecc, 60 N							
	Signature of Specialist: Morgan Xillian (SP3191) 03/16/94							



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	IDENTIFICAI	ION			
	Field ID		Lab ID			
SAMPLE NUMBER:	MK 205		945810			
MTR CODE SITE NAME:	90809		N/A /5 3 ↔			
SAMPLE DATE TIME (Hrs):						
SAMPLED BY:	N/A					
ATE OF TPH EXT. ANAL.:	8-2-94 NIA VG		8-2-94			
TE OF BTEX EXT. ANAL.:			1+ Brown Sand Cla			. I
TYPE DESCRIPTION:						1
REMARKS: _		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETER	HEOGE 1		DF	Q	M(g)	V(mi)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	25	MG/KG			2.10	28
HEADSPACE PID	106	PPIVI				
PERCENT SOLIDS	91.5	%				
Surrogate Recovery was at rative:	- TPH is by EPA Method	418.1 and BTEX is by EPA % for this sample		was accep	otable.	
= Dilution Factor Used			Date:	Shr	av	



Volume of sample after extraction, ml 3.000

Petroleum hydrocarbons, ppm

Net absorbance of hydrocarbons (2930 cm-1)

