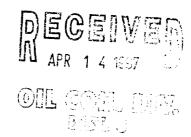
DEPUTY OIL & GAS HISTECTOR

DEC 3 0 1997

Meter Number: 75719
Location Name: ROELOFS #1
Location: TN-29 RG-08
SC-22 UL-N
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

GENERAL	Meter: 75719 Location: Roclofs #/ Operator #: 5954 Operator Name: McHugh P/L District: Blanco Coordinates: Letter: N Section 22 Township: 29 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6-8-94 Area: /3 Run: 2/
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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) Coreater Than 1000 Ft (10 points) (2) Greater Than 200 Ft (20 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (10 points) (3) Name of Surface Water Body (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:
REMARKS	Remarks: Iwo pots on location. Dehy pot adjacent to Meter house. Dry

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 757/9 Location: Roclofs # / Coordinates: Letter: N Section 12 Township: 19 Range: 8 Or Latitude Longitude Date Started: 8-2-94 Run: 13 21
FIELD OBSERVATIONS	Sample Number(s): MK 2// Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: FING lives Not marked Soil Gray Strong Hyprocarbon Door Hit Sand Stone 6' Signature of Specialist: Mogan Xillian (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	SAMPLE	JEN III IOA				
	Field IC)		Lab ID		
SAMPLE NUMBER:	m/4 211	945822				
MTR CODE SITE NAME:	75719	N/A				
SAMPLE DATE TIME (Hrs):	8-2-94	1307				
SAMPLED BY:		/A				
DATE OF TPH EXT. ANAL.:	814 194	814 194				
DATE OF BTEX EXT. ANAL.:	NIA		NIM			
TYPE DESCRIPTION:	٧ ٥-		Grey Se	and Icha	7	
REMARKS:						
ALMANKO.						
	R	ESULTS				
	T					
PARAMETER	RESULT	UNITS	DF	QUALIF	M(g)	V(mi)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG_				
TOTAL BTEX		MG/KG				ļ
TPH (418.1)	1550	MG/KG			1.99	28
HEADSPACE PID	237	PPM				
PERCENT SOLIDS	89.7	%				
he Surrogate Recovery was at larrative:	- TPH is by EPA Method 41	8.1 and BTEX is by EP % for this samp		C was acce	otable.	

)F = Dilution Factor Used

Approved By:

********** ~********* Test Method for Oil and Grease and Fetroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 14/08/04 11:42 Sample identification 65822 Indical mass of sample, g). Lame of sample after extraction, also of $1000\,\mathrm{Mpc}$ etroleum hyd<mark>nocambons, ppm</mark> 2.4125 hy absomb<mark>ance</mark> of hydnocambons (2730 ibmi)

ILLEGIBLE

9300

1890