DEPUTY OIL & GAS INSPECTORATIO

DEC 2 9 1997

Meter Number:90601 tion Name:SAN JUAN 28-7 UNIT #111

Location:TN-27 RG-07 SC-20 UL-L

2 - Federal NMOCD Zone:OUTSIDE Hazard Ranking Score:00 DECEIVED APR 1 4 1997

OIL CON. DIV.

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



GENERAL	Meter: 90b01 Location: San Juan 28-7 Unit 111 Operator #: 0203 Operator Name: Ameco P/L District: Blance Coordinates: Letter: L Section 20 Township: 27 Range: 7 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 6/6/94 Area: D Run: 32				
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (I) Fee (3) Outside (2) Indian Depth to Groundwater Less Than 50 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? (1) YES (20 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) Cgreater Than 1000 Ft (10 points) (2) Greater Than 1000 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: D POINTS				
REMARKS	Remarks: Realine + Vuln - Durside				
	2pits. Close I. Pit Dry				
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FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 9060/ Location: SAN Just 28-7 #111 Coordinates: Letter: L Section 20 Township: 27 Range: 7 Or Latitude Longitude Date Started: 3-12-94 Run: 03 32
FIELD OBSERVATIONS	Sample Number(s): MK 264 Sample Depth:/2 Feet Final PID Reading PID Reading Depth/2 Feet Yes No Groundwater Encountered
CLOSURE	Envirotech L Tierra Other Facility Name:
REMARKS	Pit Closure Date: 3-12-94 Pit Closed By: BEI Remarks: FING 1/NAS NOT MARKED GRY SOIL STRONG HYDrocardon CODE Signature of Specialist: Maryon Zulion



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Fiel	d ID		Lab ID		
SAMPLE NUMBER:	m/4 2 6 4	MK 264		945924 N/A		
MTR CODE SITE NAME:	906					
SAMPLE DATE TIME (Hrs):	9/12/94		144 0			
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	8/14/94 N/A VG		8/14/94/ N/A H. Brown Fine Sund			
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:						
REMARKS:	-			· · · · · · · · · · · · · · · · · · ·		**************************************
		RESULTS				== .
PARAMETER	RESULT	UNITS	QUALIFIERS			
:			DF	Q	M(g)	V(ml)
TPH (418.1)	793	MG/KG			205	28
HEADSPACE PID	313	PPM				
PERCENT SOLIDS	90.1	%				
		TPH is by EPA Metho	od 418.1			
Narrative:						
DF = Dilution Factor Used						
Approved By:			Date:	9/2/	94	

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Oil and Grease and Petroleum Hydrocarbons * in Water and Soil * * Perkin-Elmer Model 1600 FT-IR *
Perkin-Elmer Model 1600 FT-IR * Analysis Report *
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