DEPUTY OIL & CASTYPPECTOR

DEC 2 9 Sec

Meter Number:90986
Location Name:FEDERAL E #6
Location:TN-27 RG-08
SC-13 UL-K
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

DECEIVED N APR 1 4 1997

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#### 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: 90 986 Location: Federal E6  Operator #: D748 Operator Name: D748 Operator Name							
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD    State   (2)							
REMARKS	Remarks: Redline - Outside, Vuln-Outside  Apits. Clasel. Pethan liquidin it							
8	という ところ							

### FIELD PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 90986 Location: Federal EM6  Coordinates: Letter: K Section 13 Township: 27 Range: 8  Or Latitude Longitude Longitude Date Started: 8-18-94 Run: 03 34
FIELD OBSERVATIONS	Sample Number(s): 3 Feet  Sample Depth: 3 Feet  Final PID Reading 192 PID Reading Depth 3 Feet  Yes No  Groundwater Encountered
CLOSURE	
SAMVEG	Remarks: FPNG lines Not narked Soil fing Strong  HYDROCARBON ODOR Hit SONSTONE 3'  Signature of Specialist: Morga Xillian  (SP3191) 03/16/9



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

### SAMPLE IDENTIFICATION

SAMPLE IDENTIFICATION										
	Field	ID		Lab ID						
SAMPLE NUMBER:	mk 274		945972							
MTR CODE   SITE NAME:	90986		N/A							
SAMPLE DATE   TIME (Hrs):	8-18-94		רוסו							
SAMPLED BY:			/A	1011						
DATE OF TPH EXT.   ANAL.:	8-24-94		8/24/94							
DATE OF BTEX EXT.   ANAL.:	NIA		N/N							
TYPE   DESCRIPTION:	V ( <del>-</del>		light fre	y Sold	f ( Tan					
			<i>()</i> U	1	I					
REMARKS:		<del></del>								
RESULTS										
	·									
	RESULT UNITS		QUALIFIERS							
PARAMETER	RESULT		DF	Q	M(g)	V(ml)				
TPH (418.1)53,)∞	-53090 d	W 8/3/194 MG/KG			.13	28				
HEADSPACE PID	192	PPM								
PERCENT SOLIDS	89,6	%								
		TPH is by EPA Metho	od 418.1 ·-							
Narrative:										
DF = Dilution Factor Used			<del></del>							
Approved By:			Date:	9/4	144					

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

ILLEGIBLE

900d.