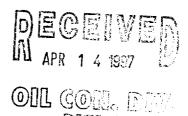
Ting?

DEG 3 9 1337

Meter Number:73223
Location Name:CORNELL A#1
Location:TN-29 RG-12
SC-10 UL-E
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: 73223 Location:
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM    (From NMOCD Vulnerable State    Maps) Zone
EMARKS	Remarks: THERE ARE 4 PITS ON THIS LOCATION. ONLY CLOSING

## FIEL PIT REMEDIATION/CLOSU 2 FORM

GENERA	Meter: 7323 Location: Cornell A # 1  Coordinates: Letter: E Section 10 Township: 29 Range: 12  Or Latitude Longitude  Date Started: 5-11-94 Area: 02 Run: 02
OBSERVATI	Sample Number(s): $1059$ Sample Depth: $9$ Feet  Final PID Reading $216$ PID Reading Depth $9$ Feet  Yes No  Groundwater Encountered $(1)$ $(2)$ Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: Line markers on location. Benjanite at 3' Dug out to 9' couldn't Dig any further.
	Signature of Specialist: Vale Wilson

(SP3191) 04/07/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

					<del>-</del> _		
	Field	ID		Lab ID			
SAMPLE NUMBER:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	945132					
MTR CODE   SITE NAME:	MTR CODE   SITE NAME: 73223		N/A /► 3.5				
SAMPLE DATE TIME (Hrs):							
SAMPLED BY:	SAMPLED BY: N/A			· · · · · · · · · · · · · · · · · · ·			
DATE OF TPH EXT. ANAL.:	5-12-9N		5.12.94				
DATE OF BTEX EXT. ANAL.:	AIG		N				
TYPE   DESCRIPTION:	VG		Grey Fine Sand Clay				
					, ,		
REMARKS:							
		RESULTS					
			<del>-</del>				
PARAMETER	RESULT UNITS						
			DF	<u>a</u>	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)	1440	MG/KG			2.0	28	
	1						
HEADSPACE PID	216	PPM			ı		
HEADSPACE PID PERCENT SOLIDS	TPH is by EPA Method 4	%					

OF = Dilution Factor Used

Volume of sample after extraction, ml 19.000

Fetroleum hydrocarbons, ppm 477.052 Net absorbance of hydrocarbons (2930 cm-1) .176

