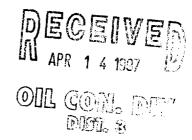
DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number:73259 Location Name:CORNELL B#1 Location:TN-29 RG-12 SC-14 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: 73259 Location: Corneu 8 1  Operator #: 0203 Operator Name: Amoco P/L District: Ku12  Coordinates: Letter: £ Section 14 Township: 29 Range: 12  Or Latitude Longitude  Pit Type: Dehydrator X Location Drip: Line Drip: Other:  Site Visit Date: 3.18.94 Run: 02 02
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM    (From NMOCD Vulnerable
	Irrigation Canals,Ditches,Lakes,Ponds)  TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: Two PITS ON LOCATION. WILL CLOSE ONLY ONE OF THEM. PIT DRY, UP ON A HILL BY A BUNCH OF TRAILERS.

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## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73259 Location: Com B*/ Coordinates: Letter: E Section 14 Township: 29 Range: 12  Or Latitude Longitude Longitude  Date Started: 5-16-94 Area: 02 Run: 02
FIELD OBSERVATIONS	Sample Number(s): $1081$ Sample Depth: $8'$ Feet  Final PID Reading $289$ PID Reading Depth $8'$ Feet  Yes No  Groundwater Encountered $(1)$ $(2)$ Approximate Depth $(3)$
CLOSURE	Remediation Method:  Excavation
REMARKS	



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

## **SAMPLE IDENTIFICATION**

Field	I ID		Lab ID		
SAMPLE NUMBER: VW81		945180			ı
73259			NIA		ı
SAMPLE DATE   TIME (Hrs): 5-16-94		1100			l
	IA	l			
5/17/94		5/17/94			<u> </u>
	MK	NIF	<i>Y</i>		į
VG		Brown/ Frey Chay			
		1 1	1 /		
[	RESULTS				
		<u> </u>		···	
RESULT	UNITS	QUALIFIERS			
		DF	u	M(g)	V(ml)
	MG/KG				
	MG/KG				
	MG/KG		5-15		
	MG/KG				
	MG/KG				
<b>L10</b>	MG/KG			2,04	28
289	PPM		in the second se		
85,8	%				
		A M-+b4 9020			
- TPH is by EPA Method	% for this sample				
	VW8 737 5- 51 VG	73259 5-16-94  NS 5/17/94  NG NG/KG  MG/KG  MG/KG	NW81   9   13259   11   11   11   11   11   11   11	VW81	VW81   945180

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

Perkin-Elmer Model 1600 FT-IR Analysis Report \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

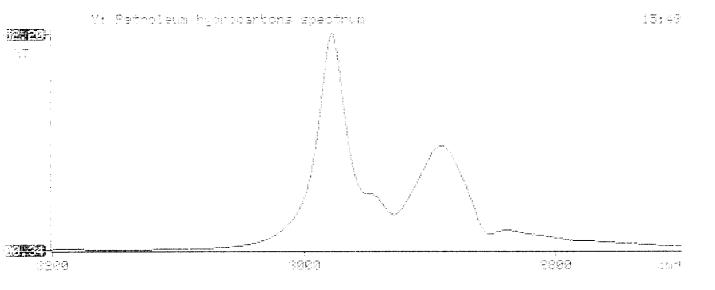
□4/05/17 15:49

Sample identification 245180

Initial mass of sample, g 1,040

Volume of sample after extraction, ml

Patroleum hydrocarbons, ppm -1776.274 - Vet a**osorb**ance of hydrocarbons (2930 cm-1) -0.017



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