Denny S. POUT DEPUTY OIL & GAS INCRESTOR

DEC 2 2 1997

Meter Number: 70532
Location Name: PRITCHARD B3
Location: TN-31 RG-09

SC-34 UL-K 2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

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OH COM. DIV.

RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS

COCATED 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: 70-532 Location: Pritchard B3  Operator #: 0203 Operator Name: Production P/L District: Metec  Coordinates: Letter: K Section 34 Township: 31 Range: 9  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 8/31/94   Area: Area: Area: Area:						
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  (2)  Maps)  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; is it less than 200 ft from a private domestic water source?  Horizontal Distance to Surface Water Body  Less Than 1000 Ft (10 points)  Greater Than 1000 Ft (10 points)  Greater Than 200 Ft (20 points)  Greater Than 1000 Ft (10 points)  (3)  Name of Surface Water Body  Careater Than 1000 Ft (0 points)  (Surface Water Body  Careater Than 1000 Ft (10 points)  Car						
REMARKS	Remarks: Realine Book - Outside Vulnerable Zone Tope - Outside Four pits, location drip pit has liquid in it, Will close one pit.						
22	PUSH TN						

Date

## FIEL PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 70532 Location: Pritchard B3  Coordinates: Letter: K Section 34 Township: 31 Range: 9  Or Latitude Longitude Longitude Date Started: 10/3/94 Run: 09 9/
FIELD OBSERVATIONS	Sample Number(s): KD 303  Sample Depth: 17' Feet  Final PID Reading 54pm PID Reading Depth 17' Feet  Yes No  Groundwater Encountered
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: Excavate test tole to 12', Took Dio Sample, Closed  Dit.  Signature of Specialist: My James  (SP3181) 03/16/84



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

#### SAMPLE IDENTIFICATION

	SMINIT LL	IDENTIFICA				
	Field	ID		Lab ID		
SAMPLE NUMBER:	WD 30	946308				
MTR CODE   SITE NAME:	70532		N/A			
SAMPLE DATE   TIME (Hrs):	10-3-94		1435			
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	10-6-9					
DATE OF BTEX EXT.   ANAL.:	STEX EXT.   ANAL.:		N I			
TYPE   DESCRIPTION:	TYPE   DESCRIPTION: V6			Grey sand & Clay		
REMARKS:						
		RESULTS				
PARAMETER	RESULT	UNITS	DF	QUALIFIERS  DF Q M(g) V(mi)		
TPH (418.1)	5090	MG/KG			3.14 28	
HEADSPACE PID	54	PPM				
PERCENT SOLIDS	88.8	%				
		TPH is by EPA Metho	od 418.1			
Varrative:						
OF = Dilution Factor Used						
				, ,	,	

> Perkin-Elmer Model 1600 FT-IR Analysis Report

74/10/06 11:44

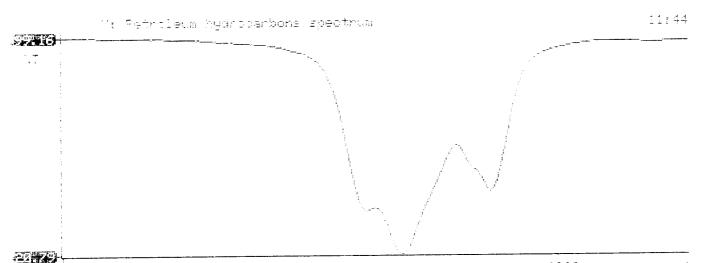
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Sample Identification 746308

Initial pass of sample. g

Volume of sample after extraction. ml 19.000

Tatroleum nydrocarbons. ppm 1996.716 Net Absorbance of hydrocarbons (2930 cm-1) 1674



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2596

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