DEPUTY OIL & GAS INSPECTOR Meter Number: 74824

DEPUTY OIL & GAS INSPECTOR Name: CANYON LARGO UNIT #67

DEC 29 1997

Location:TN-25 RG-06 SC-01 UL-C 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:

10⁻⁹ to 10⁻¹³ cm/sec 10⁻¹² to 10⁻¹⁶ cm/sec 10⁻¹² to 10⁻¹⁵ cm/sec Sandstone Shale Clay

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

The second secon

GENERAL	Meter: 74824 Location:
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside (1) Fee (3) Nach Depth to Groundwater Less Than 50 Feet (20 points) Fresh water 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 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body (Surface Water Body Frigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: Redline v.z outside Topo V.z outside One pit - water doll in it Push in

	ORIGINAL PIT LOCATION
N	Original Pit : a) Degrees from North <u>204</u> Footage from Wellhead <u>78</u> b) Length : <u>17</u> Width : <u>16</u> Depth : <u>7</u>
ORIGINAL PIT LOCATION	Wellhead 2040
	Remarks: Photos - 2/-74 Roll #4
REMARKS	Water in put
	Completed By: 7-19-94
I	Signature

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL.	Meter: 14824 Location: <u>Canyon hargo Unit #67</u> Coordinates: Letter: <u>C</u> Section <u>I</u> Township: <u>25</u> Range: <u>6</u> W Or Latitude Longitude Date Started: <u>10-11-94</u> Run: <u>06</u> 62					
FIELD OBSERVATIONS	Sample Number(s): VW40 Sample Depth: Feet Final PID Reading Depth Feet Yes No Groundwater Encountered					
CLOSURE	Remediation Method: Excavation					
KEMARKS	Remarks: Sandstone 5' 10 your soif 10 10 11 94					
	Signature of Specialist: Walk Wilgon					



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAIVIPLE	IDENTIFICA	HON			
_	Field	D		Lab ID		
SAMPLE NUMBER:	v w 40	ค.ศ. 8383 N/A .ศ. 15				
MTR CODE SITE NAME:	74824					
SAMPLE DATE TIME (Hrs):	10 - 11 - 94					
SAMPLED BY:						
DATE OF TPH EXT. ANAL.:	10-13	3-4)4-				
ATE OF BTEX EXT. ANAL.:	ыц		אוא			
TYPE ! DESCRIPTION:	√ G		Light bro	101 522	d & Mai,	
	F	RESULTS				
PARAMETER	RESULT UNITS		QUALIFIERS			
			DF	Q	M(g)	V(ml)
İ	4740	MG/KG			2.011	25
TPH (418.1)	- F / FI'C	Marka			FILE	
TPH (418.1) HEADSPACE PID	244	PPM				
HEADSPACE PID	244					
	244	PPM	a 418.1 ··			
HEADSPACE PID PERCENT SOLIDS	244	PPM %	a 418.1 ··			
HEADSPACE PID	244	PPM %	a 418.1 ··			

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

94/10/13 13:25

Sample identification 946383

Initial mass of sample, g 3.010

Volume of sample after extraction, ml 28.000

Petroleum hydrocarbons, ppm 4741.849 Net absorbance of hydrocarbons (2930 cm-1) 0.591

