DEPUTY OIL & GAS INSPECTION

DEC 2 9 1997

Meter Number:94514 Location Name:ROMERO COM #1 Location:TN-26 RG-06 SC-25 UL-P 2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

PEGEIVED APR 1 4 1997 OIL CON. DIV. DIST. 3

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.



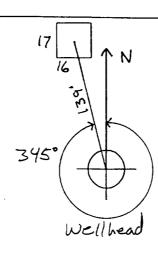
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 94514 Location: Lomero Com # Operator #: 0203 Operator Name: Amoco P/L District: Ojito Coordinates: Letter: P Section 25 Township: Z6N Range: 6W Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 7-20-94 Area: 06 Run: 53							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside 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 200 Ft (20 points) Greater Than 1000 Ft (0 points) Greater Than 200 Ft (20 points) Greater Than 200 Ft (20 points) Greater Than 1000 Ft (0 points) Greater Than 1000 Ft (10 points) Greater Than 10							
Ω								
ARK	Remarks: Redline V.Z outside Topo VZ - outside							
REMARKS	Two pits-drop pit is dry							

ORIGINAL.	PIT	LOCATION
OIMBINATI	1 1 1	LUCATION

Original Pit: a) Degrees from North 345 Footage from Wellhead 139

b) Length: 17 _ Width: 16 _ Depth: 2



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Completed By:

Signature

<u>7-20-94</u> Date

Find PIT REMEDIATION/CLOSURE FORM

1								
GENERAI.	Meter: 14514 Location: Romero Com#/ Coordinates: Letter: P Section 25 Township: 26 Range: 6 Or Latitude Longitude Date Started: 10-6-94 Run: 06 53							
FIELD OBSERVATIONS	Sample Number(s): \(\begin{align*} \sum \frac{383}{\sum} \\ \end{align*} \) Sample Depth: \(\frac{9}{\sum} \) Feet Final PID Reading Depth \(\frac{9}{\sum} \) Feet Yes No Groundwater Encountered \(\begin{align*} \sum \frac{189}{\sum} \) Approximate Depth \(\begin{align*} \sigm \frac{1}{\sum} \) Feet							
CLOSURE	Remediation Method: Excavation							
REMARKS	Remarks: 9 gandstoal 20x8s F.1)							
	Signature of Specialist: Vale Wilson (SP3181) 03/16/84							



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

				Lab ID						
	Field		Lab ID							
SAMPLE NUMBER:	10 383		946360							
MTR CODE SITE NAME:	MTR CODE SITE NAME: 94514		N/A							
SAMPLE DATE TIME (Hrs):	10/4/4			1340						
SAMPLED BY:		N/	/A							
DATE OF TPH EXT. ANAL.:	16-16-96									
DATE OF BTEX EXT. ANAL.:	מוע			RIA						
TYPE DESCRIPTION:			Light Grey sand of (1/a)							
			,)	1	i					
REMARKS:										
NEIVIANNO.										
		RESULTS								
										
PARAMETER	RESULT	UNITS	QUALIFIERS							
FARANCIEN			DF	Q	M(g) V(mi)					
TPH (418.1)	4210	MG/KG			220 28					
HEADSPACE PID	199	PPM								
PERCENT SOLIDS	94.8	%								
		TPH is by EPA Metho	od 418.1 ··							
Varrative:										
OF = Dilution Factor Used										
Approved By:		····	Date:	/0-	13-91					

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

Perkin-Elmer Model 1600 FT-IR Analysis Report

94/10/10 14:38

- Sample identification $\subseteq A \subseteq \subseteq \{., \emptyset\}$

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"Oldan of sample efter extraction, al IS.000

Patentiaem hydrocartens. ppm 2010:944 Note:brothance of hydrocerbone (2950 cm-1) 2:575

