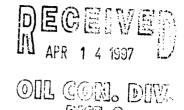
Menngard Total
ELECTROPLACE MACA

DEC 25 1997

Approved

Meter Number:71983
Location Name:FEDERAL #4
Location:TN-27 RG-08
SC-09 UL-F
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00



ODUCTION PITS

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: 11983 Location:FEDERAL #4 Operator #: 0286 Operator Name: Conoco P/L District: BAUARD Coordinates: Letter: F Section 9 Township: 27 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 6.9.94 Area: 07 Run: 32							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Feet (20 points) (1) (1) (1) (2) Greater Than 100 Ft (0 points) Wellhead Protection Area: 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? (1) YES (20 points) (2) NO (0 points) 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 : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100' TOTAL HAZARD RANKING SCORE: O POINTS							
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY LOCATION IS AT THE RASS OF SOME CLIFFS WEST OF LARGO WASH. REDLINE AND TOPO CONFIRMED LOCATION IS OUTSIDE V.Z.							
<u> </u>	T USS THE STATE OF							

	ORIGINAL PIT LOCATION					
 	Original Pit : a) Degrees from North 144° Footage from Wellhead 103' b) Length : 22' Width : 21' Depth : 3'					
ORIGINAL PIT LOCATION	22'					
	Remarks:					
	TOOK PICTURES AT 2:55 P.M. END DUMP					
∞						
MARKS						
REMA						
	Completed By:					
	Facil Champson 6.9.94					
	Signature Date					

- -

FIELD PIT REMEDIATION/CLOS FORM

GENERAL	Meter: 7/983 Location: Feder #4 Coordinates: Letter: F Section 9 Township: 27 Range: 8 Or Latitude Longitude Date Started: 9.15.94 Run: 07 32							
FIELD OBSERVATIONS	Sample Number(s): $\frac{VW297}{VW}$ Sample Depth: $\frac{7}{4.1544}$ Feet Final PID Reading $\frac{194}{2.1544}$ PID Reading Depth $\frac{1}{2.1544}$ Feet Yes No Groundwater Encountered \square Approximate Depth \square Feet							
CLOSURE	Remediation Method: Excavation							
REMARKS	Remarks: 7'h.t sandstone 10 yıls říll Signature of Specialist: Vale Wilsen (SP3191) 03/16/84							



FIELD SERVICES LABORATORY NALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field	Lab ID									
SAMPLE NUMBER:	yw 297		946137								
MTR CODE SITE NAME:	71983			N/A							
SAMPLE DATE TIME (Hrs):	9-15-94		124	1445							
SAMPLED BY:	N/A										
DATE OF TPH EXT. ANAL.:	9 20	9/20/94									
DATE OF BTEX EXT. ANAL.:				NIA							
TYPE DESCRIPTION:	VG		Grey	Grey Sand Clay							
REMARKS:											
RESULTS											
			T								
PARAMETER	DARAMETER RESULT			QUALIFIERS							
			DF	<u> </u>	M(g)	V(ml)					
TPH (418.1)	2150	MG/KG			2,07	28					
HEADSPACE PID	194	PPM									
PERCENT SOLIDS	92.1	%									
		TPH is by EPA Metho	d 418.1								
Varrative:											
OF = Dilution Factor Used											
Approved By:			Date:	9/30/44							

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

Perkin-Elmer Model 1600 FT-IR Analysis Report

74/09/20 11:15

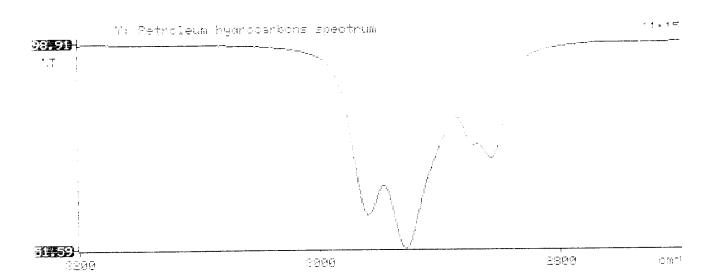
Sample identification 946137

Initial mass of sample, g 1.070

Volume of sample after extraction, ml 000

Petroleum hydrocarbons, ppm 0152.544

Net absorbance of hydrocarbons (2930 cm-1) .282



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