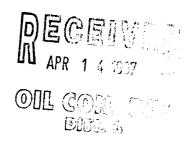
Denny S. Fort DEPUTY OIL & CAS INSPECTOR

DEC 2 2 1997

200

Meter Number:93548
Location Name:ELLIOT S #1E
Location:TN-30 RG-09
SC-33 UL-F
4 - Fee

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

Meter: 93548 Location: Elliot S IE GENERAL Operator #: DDD3 Operator Name: Amoco P/L District: Bloomfield Coordinates: Letter: F Section 3) Township: 30 Range: 9 Latitude ____ Longitude _____ Pit Type: Dehydrator 🗸 Location Drip: ___ Line Drip: ___ Other: ____ Site Assessment Date: 1/16/94 Area: 10 Run: 83 NMOCD Zone: Land Type:] (1) BLM (From NMOCD State (2)Maps) Inside] (1)Fee \mathcal{M} (3) \times (2) Outside Indian ____ Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points) Wellhead Protection Area: ASSESSMENT 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) [X] (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) SITE 200 Ft to 1000 Ft (10 points) 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) \Box (2) > 100' TOTAL HAZARD RANKING SCORE: _____ POINTS Remarks: Realine Book: Ourside Vulnerable Zone Topo: Ourside REMARKS lpit. Close Dehy on pit. NIHZUA

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93548 Location: Elliots 5*1F Coordinates: Letter: F Section 33 Township: 30 Range: 9 Or Latitude Longitude Date Started: 1-31-95 Run: 10 83
FIELD OBSERVATIONS	Sample Number(s): MK 346 Sample Depth: Feet Tinul FID Reading Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
	Envirotech
REMARKS	Remarks: Arrived took Fence down Dug sample Hole Hit Rock 5'. Soil Tan Strong Hydrocychon odor Pit Had about 1' of water In It
	Signature of Specialist: Morgan Xillion (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	SAMITLL	IDENTIFICA	11011			
	Field	ID		Lab ID		
SAMPLE NUMBER:				946618 N/A 1410		
MTR CODE SITE NAME:						
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	2/2/9	35	2/2/95			
DATE OF BTEX EXT. ANAL.:	NG		Tan Cine sand and chan			
TYPE DESCRIPTION:						
REMARKS:		DECLU TO				
	<u> </u>	RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS DF Q M(g) V(ml)			
TPH (418.1)	460	MG/KG			1.97	28
HEADSPACE PID	1474	PPM				
PERCENT SOLIDS	87.8	%				
		TPH is by EPA Meth	od 418.1			
Narrative:						
DF = Dilution Factor Used						
Approved By:	?		Date:	2-22	-95	

Test Melnod for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 95/02/02 14:05 Fumple (dentification $\mathbb{R}^{d_{\mathrm{col}}}$ In the standard case the .) where ${\rm d} \sigma = 0$ That was of sample which econocilor, all 12 com Table of the analysis of propositions, the second of the s 1.000 Terminakan jumbus bemarapakin u

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