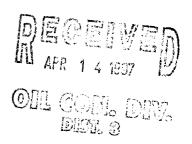
Denny & Fout DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number:73507
Location Name:RIDDLE A #5
Location:TN-29 RG-09
SC-01 UL-O
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:

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 ELPASOFIELDS

GENERAL	Meter: 73507 Location: RIDDLE A #5 Operator #: 2999 Operator Name: MERIDIAN P/L District: B Coordinates: Letter: O Section L Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other Site Assessment Date: 5.8.94 Area: 10 Run: 31	
SITE ASSESSMENT	(From NMOCD State	private (0 points) reeks,
REMARRS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS ON MANZANARES MESA. REDLINE AND TOPO CONFIRMED LOCATION TO BE V.Z.	TOP OF OUTSIDE THE TWOTOS THE 5.8.94 RT

	ORIGINAL PIT	LOCATION
7	Original Pit : a) Degrees from North _ b) Length : <u></u>	38° Footage from Wellhead <u>85'</u> h:/3'_ Depth:/'
ORIGINAL PIT LOCATION	WELLHEA	380 13'
	Remarks: TOOK PICTURES AT 2:18 P.M. END DUMP	
S		
REMARKS		
R		
	Completed By:	
	Completed By:	5.8.94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73507 Location: Riddle A #5 Coordinates: Letter: O Section / Township: 29 Range: 9 Or Latitude Longitude Date Started: 6-28-94 Area: 10 Run: 31
FIELD OBSERVATIONS	Sample Number(s):
CLOSURE	Remediation Method: Excavation
S	Other Facility (2) Name: Pit Closure Date: 6-18-94 Pit Closed By: BE I Remarks: EPNG lines Marked Soil light brown NO
REMARKS	Signature of Specialist: Margan Killian
	Signature of Specialist: (SP3191) 04/07/94



0

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field	ID		Lab ID		
SAMPLE NUMBER:	m14 54	94	945545 N/A			
MTR CODE SITE NAME:	HDK 29-94 735 73507					
SAMPLE DATE TIME (Hrs): 6-28-94		1253]	
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.: 6-30-94		6/30/94				
DATE OF BTEX EXT. ANAL.:	N/A V G-		N)	1		
TYPE DESCRIPTION:			Yark brown	Park brown clay / sand		
REMARKS:						
	R	RESULTS				
PARAMETER	RESULT	UNITS		QUALI	QUALIFIERS	
			DF	Q	M(g)	V(mi
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	10,300	MG/KG			0.98	28
HEADSPACE PID	161	PP M				
PERCENT SOLIDS	P5.9	%				
Surrogate Recovery was at	TPH is by EPA Method 418		A Method 8020 – le All QA/QC	was accep	otable.	

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

Perkin-Elmer Model 1600 FT-IR Analysis Report

74/06/30 15:28

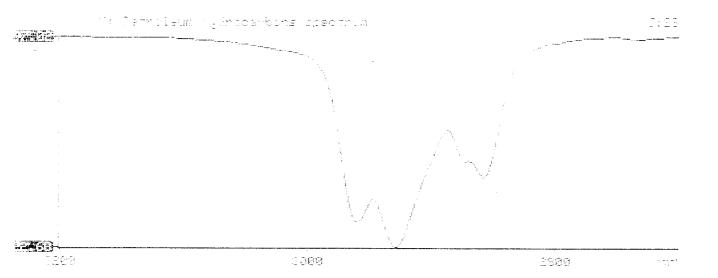
Sample identification 45545

Thitial mass of sample, g

Volume of sample after extraction, ml \mathbb{R}^{2} COO

Tebroleum hydrocarbons, ppm 2031.725

Dai sisonbanco of Ardrocarbons (2970 ca-1) HTC



¥