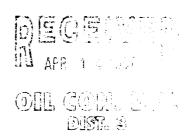
DEC 0 2 1997

Meter Number:93398 Location Name: PINON #1E Location:TN-30 RG-14 SC-13 UL-L 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 Sandstone 10⁻¹² to 10⁻¹⁶ cm/sec 10⁻¹² to 10⁻¹⁵ cm/sec 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

GENERAL	Meter: 93398 Location: PINON # 18 Operator #: Operator Name: Name: Name: P/L District: Kutz Coordinates: Letter: L Section 13 Township: 30 Range: 14 Or Latitude Longitude Pit Type: Denydrator X Location Drip: Line Drip: Other: Site Assessment Date: 1:4.95 Area: 02 Run: 23
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) 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? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 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: POINTS
Si	Remarks: REDLINE : TOPO SHOW COCATION OUTSIDE U.Z. 3 PITS ON
REMARKS	LOCATION. DEHY PIT BELONGS TO EPNG, WILL CLOSE PIT.
REM	Push /N

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93398 Location: PiNoN * 1E Coordinates: Letter: A Section 13 Township: 30 Range: 14 Or Latitude Longitude Longitude Date Started: 1-16-95 Run: 02 23
FIELD (BSERVATIONS	Sample Number(s): 4 Sample Depth: 4 Feet Final PID Reading 226 PID Reading Depth 4 Feet Yes No Groundwater Encountered \(\begin{array}{c c} \b
CLOSURE	Remediation Method . Excavation
REMARKS	Remarks: Arrived took Fence down dug sample Hole 4' Hit sand Stone pit Had about 3" of Pear Fine Parafine ON top soil Had Strong Hy Orocarbon odor
	Signature of Specialist: Morgan Xileion (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field	ID		Lab ID		
SAMPLE NUMBER:	mh 3:	946574				
MTR CODE SITE NAME:	43248			N/A		
SAMPLE DATE TIME (Hrs):			1000			
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	ANAL.: 1- 17 - 95			1-17.94		
DATE OF BTEX EXT. ANAL.:	212		NIA			
TYPE DESCRIPTION:	76	√ 6		over , and enection		
TIENATINO.	F	RESULTS				
PARAMETER	RESULT	UNITS		QUALIFIERS		
			DF	Q	M(g)	V(ml
TPH (418.1)	41000	MG/KG			0.16	28
HEADSPACE PID	226	РРМ				
PERCENT SOLIDS	35.8	%				. <u> </u>
		- TPH is by EPA Metho	od 418.1			
arrative:				<u>-</u>		

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Oil and Grease and Petroleum Hydrocarbons
*
                in Water and Soil
*
          Perkin-Elmer Model 1600 FT-IR
                 Analysis Report
*****************
95/01/17 15:13
  Sample identification
946574
  Initial mass of sample, g
0.160
  Volume of sample after extraction, ml
 28.000
  Petroleum hydrocarbons, ppm
40995.372
 Net absorbance of hydrocarbons (2930 cm-1)
 0.410
                                                            15:10
         Y: Petrolsum hydrocarbons spectrum
                                                             \mathbb{C} \mathfrak{M}^{-1}
```

3000

9200

2800