Noming S. Thirt DENTY OF A 345 OKEPELTOR

DEC 2 2 1997

Meter Number:89578
Location Name:WALKER 1-R
Location:TN-31 RG-10
SC-13 UL-B
2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

DECEIVED N APR 1 4 1887

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.



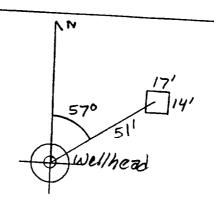
FIELD PIT SITE ASSESSMENT FORMEL PASO FIELD SERVICES

GENERAL	Meter: 89-578 Location: Walker 1-R Operator #: 5540 Operator Name: Exploration P/L District: Matec Coordinates: Letter: B Section 13 Township: 31 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 8/29/94 Area: 04 Run: 83						
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM ∅ (1) (From NMOCD State □ (2) Maps) Inside □ (1) Fee □ (3) Outside ☒ (2) Indian □ Depth to Groundwater □ (1) □ (1)						
	50 Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) (3) 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 Miller Canyon						
	(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						
REMARKS	Remarks: Redline Book - Outside Vulnerable Zone Topo - Outside Three pits, location drip pit is dry, will close one pit.						
R	PUSH IN						

REMARKS

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North <u>57°</u> Footage from Wellhead <u>51'</u> b) Length: <u>17'</u> Width: <u>14'</u> Depth: <u>2</u>/



Remai	rks :

Pictures @ 1512 (1-4, Rd/Z) Dump Truck

Completed By:

Signature 4

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 89578 Location: Walker 1-R Coordinates: Letter: B Section 13 Township: 31 Range: 10 Or Latitude Longitude Longitude Date Started: 9.30.99 Run: 09 83							
FIELD OBSERVATIONS	Sample Number(s): 1275 Sample Depth: 6' Feet Final PID Reading 513 Yes No Groundwater Encountered \(\begin{array}{cccccccccccccccccccccccccccccccccccc							
CLOSURE	Remediation Method: Excavation							
REMARKS	Remarks: No Line markers small Pit. Hit SAND Stone							
	Signature of Specialist: Kelly Redicts							



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFICA"	TION			
Field ID			Lab ID			
SAMPLE NUMBER:	4729 K	946285				
MTR CODE SITE NAME:	89578	N/A				
SAMPLE DATE TIME (Hrs):	9-30-6	1235				
SAMPLED BY:		Α				
DATE OF TPH EXT. ANAL.:	10-3-94					
DATE OF BTEX EXT. ANAL.:	AIA			n/h		
TYPE DESCRIPTION:	V 6	Brown	Brown olay			
REMARKS:		RESULTS				
			T			
PARAMETER	RESULT	UNITS	QUALIFIERS DF Q M(g)			V(ml)
TPH (418.1)	4230	MG/KG			1,99	28
HEADSPACE PID	513	PPM				
PERCENT SOLIDS	76.8	%				
		TPH is by EPA Metho	d 418.1 ·-			
Narrative:						
OF = Dilution Factor Used						

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

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Perkin-Elmer Model 1600 FT-IR Analysis Report

94/10/03 16:32

Sample identification 246285

Initial mass of sample, o 1.990

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm 4226.797 Net absorbance of bydrocarbons (2930 cm-1) 3.527

