Danny & FOURTH THE & CAS INSPECTOR

DEC 22 1007

Approved

Meter Number:89278
Location Name:WALKER #1A
Location:TN-31 RG-10
SC-13 UL-P
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

PECETVED APR 1 4 1997 DIVA DIST. 38

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 EL PASO FIELD SERVICES

CHNEDAI	Meter: 89-278 Location: Walker No. 1-M Operator #: 5540 Operator Name: Exploration P/L District: Matec Coordinates: Letter: P 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							
	NMOCD Zone:							
	(From NMOCD Land Type: BLM (1)							
	Maps) Inside (1) State (2) Fee (3)							
	Outside (2) Indian							
ASSESSMENT	Depth to Groundwater							
	Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2)							
	Greater Than 100 Ft (0 points) (2)							
	Wallhood Drotastism 4							
	Is it less than 1000 ft from wells spring.							
SSM								
SES	domestic water source? (1) YES (20 points) (2) NO (0 points)							
1	Horizontal Distance to Surface Water Rody							
SITE	Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2)							
S	Greater Than 1000 Ft (0 points) 🕅 (3)							
	Name of Surface Water Body John Brown (2000)							
	(Surface water Body: Perennial Rivers Major W-1 Cl							
	Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)							
	$\Box (1) < 100'(Navajo Pits Only)$							
	TOTAL HAZARD RANKING SCORE: (2) > 100'							
KS	Remarks: Redline Book - Outside, VI VI - Outside							
TAR								
REMARKS	one pit. will close							
	PUSH IN							

FIEL PIT REMEDIATION/CLOSU & FORM

GENERAL	Meter: 89278 Location: Walker # 1A Coordinates: Letter: P Section 13 Township: 31 Range: 10 Or Latitude Longitude Date Started: 9/30/94 Run: 04 93							
FIELD OBSERVATIONS	Sample Number(s): Kp 798 Sample Depth: 7' Feet Final PID Reading 327 ppm PID Reading Depth 7' Feet Yes No Groundwater Encountered							
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 9/30/94 Pit Closed By: BET							
REMARKS	Remarks: Excapated test Hole to 7', TOOK pip Sample, closed Pit. Signature of Specialist: May Jem							



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID			Lab ID		
SAMPLE NUMBER:	KD 298	946288				
MTR CODE SITE NAME:	99278		N/A 1215			
SAMPLE DATE TIME (Hrs):						
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	16-3-94 NG					
DATE OF BTEX EXT. ANAL.:			Brown Gry Sand & Clay			
TYPE DESCRIPTION:						
			/ "		,	
REMARKS:				 		
	RI	ESULTS	-, -			
DADAMETED	RESULT	UNITS		QUALIFIERS		
PARAMETER	NESOE!		DF	Q	M(g)	V(ml)
TPH (418.1)	37900	MG/KG			1.23	28
HEADSPACE PID	327 394,013194	PPM				
PERCENT SOLIDS	82.4	%				
		TPH is by EPA Meth	nod 418.1			
Narrative:						
DF = Dilution Factor Used			·			
Approved By:			Date:/	<i>\$6]4</i> 4		

Test Method for

Oil and Grease and Petroleum Hydrocarbons

in Water and Soil

Perkin-Elmer Model 1600 FT-IR

Analysis Report

94/10/03 18:06

Bample identification

946288

Initial mass of sample g

0.270

Petroleum hydrocarbons g

77572.768

Net absorbance of hydrocarbons 12770 cm-1)

7.247

