DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number:90537
Location Name:SAN JUAN 29-6 #14A
Location:TN-29 RG-06

SC-07 UL-I 4 - Fee

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

RECEIVED APR 1 4 1997

OIL COM, 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 FORM



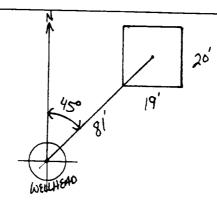
GENERAL	Meter: 90537 Location: SAN JUAN 29-6 # 14 A Operator #: Operator Name: PHILLIPS P/L District: BloomDELO Coordinates: Letter: Section Township: Pange: Or				
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM				
	Depth to Groundwater Less Than 50 Feet (20 points)				
ASSESSMENT	Wellhead 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)				
SITE ASSE	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				
	(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 NAINTING SCORE ONLY ONE PIT IS DRY				
FMARKS	Remarks: Two Pits on Location. WILL CLOSE UNE TOPO CONFIRMED LOCATION IS KN TOP OF SMITH PASS. REPLINE AND TOPO CONFIRMED LOCATION IS OUTSIDE V.Z. PUSH IN (SP3190) 04/08,				

ATION	
TOC	
PIT	
ORIGINAL	

REMARKS

Original Pit : a) Degrees from North 45° Footage from Wellhead 81'

b) Length : 20' Width : 9' Depth : 9'



TOOK PICTURES AT 9:38 A.M.

BUMP TRUCK - BOBTAIL

Completed By:

Signature

5.17.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90537 Location:
FIELD OBSERVATIONS	Sample Number(s): MK 130 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: <u>EING I.NES Not marked</u> Soil Blackish brown Strong HYDrocarbon oder
	Signature of Specialist: Mayor Killian



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 130	945471
MTR CODE SITE NAME:	90537	`I/A
SAMPLE DATE TIME (Hrs):	7-14-94	1121
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	7/19/94	7/19/94
ATE OF BTEX EXT. ANAL.:	NIA	N 14
TYPE DESCRIPTION:	V G	Brown Clay
		1
REMARKS:		
	RESULTS	

QUALIFIERS **RESULT** UNITS **PARAMETER** DF M(g) V(ml) MG/KG **BENZENE** MG/KG **TOLUENE** ETHYL BENZENE MG/KG MG/KG TOTAL XYLENES MG/KG TOTAL BTEX 2.30 28 3440 MG/KG **TPH (418.1)** PPM HEADSPACE PID PERCENT SOLIDS

_ TPH is by EPA Method 416.1 and 61 EA is by EPA Method 6020 —					
NIA	% for this sample	All QA/QC was acceptable.			

- Dilution Factor Used

e Surrogate Recovery was at

arrative:

8klr.1

Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report ************************************** 24/07/19 13:31 Fample identification 045471 i iliwi nass of sample, g or Alamo of Asable after extraction of 11.100 Pykomikum izperedanosne, ppn Triga4 Najakoventi se sii ny inodantona (2007 sa 141 nat The Follow is the three Landing Could stime. 15:30 35.23 2.765