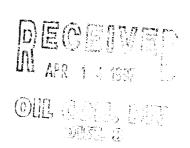
12 22 130 (CO)

Meter Number: 75753
Location Name: LIKINS A#4
Location: TN-30 RG-09
SC-34 UL-L
4 - Fee
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

GENERAL	Meter: 15753 Location: LIKINS A#4 Operator #: 0203 Operator Name: Amoco P/L District: RloomFIELD Coordinates: Letter: Letter: Location 34 Township: 30 Range: 9 Or Latitude Longitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Octe: 2:22:95 Area: 10 Run: 43					
	NMOCD Zone: Land Type: BLM ☐ (1) (From NMOCD State ☐ (2) Maps) nside ☐ (1) Fee ☒ (3) Outside ☒ (2) Indian ☐ —					
SITE ASSESSMENT	Depth to Groundwater Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2) Grecter 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)					
	(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					
EMARK	Remarks: PEPLINE SHOWS INSIDE BUT TOPO SHOWS LOCATION OUTSIDE V.Z TWO DITS ON LOCATION. DEHY PIT BELONGS TO EPNG. WILL					
E	CLOSE PIT.					

- 1	
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ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 20° Footage from Wellhead 160^\prime

WELLHEAD

ر کر

Completed By:

Remarks:

PHOTOS - C811

Signature

2.22.95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 75753 Location: Likins A*4 Coordinates: Letter: L Section 34 Township: 30 Range: 9 Or Latitude Longitude Date Started: 2-28-95 Run: 10 43							
FIELD OBSERVATIONS	Sample Number(s): MK 410 Sample Depth:/2 Feet Final PID Reading686 PPm PID Reading Depth/2 Feet Yes No Groundwater Encountered □ X Approximate Depth Feet							
CLOSURE	Remediation Method: Excavation							
	Other Facility Name: Pit Closed By: BEI							
REMARKS	Remarks: Arrived Dug Sample Hole Soil gray all the							
	Signature of Specialist: Morgan Xcleion (SP3191) 03/16/94							



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	SHIMILEE	IDLITII IOA			
	Field ID			Lab iD	
SAMPLE NUMBER:	MK 410		946774 N/A		
MTR CODE SITE NAME:	75753				
SAMPLE DATE TIME (Hrs):	2-28.95		1125		
SAMPLED BY:	N/A				
DATE OF TPH EXT. ANAL.:	3/3/9	5	3/3 /95		
DATE OF BTEX EXT. ANAL.:	VG		brown Clay		
TYPE DESCRIPTION:					
				/	
REMARKS: _					
		DECLUTE			
		RESULTS			
PARAMETER	RESULT U	UNITS	DF	QUALIFIERS Q M(g) V(m)	.
	_				
TPH (418.1)	952c	MG/KG		1.10 28	$-\parallel$
HEADSPACE PID	689	PPM			_#
PERCENT SOLIDS	82.6	%			
12002.13 55		TPH is by EPA Metho	od 418.1		
errative: = Dilution Factor Used					
pproved By:			Date:	3-20-95	

Test Method for Oil and Grease and Fetroleum Hydrocarbons in Water and Soil

Ferkin-Elmer Model 1600 FT-IR Analysis Report *********************

75/03/03 15:58

Sample Identification 46714

In thisi mase of sample, g

Thylune of sample after extraction, also $50\,\mathrm{Mpc}$

Patholeum tydnocanbons, opp toptiet Tek Absorberds of Lydnocarbons (2770 cmrl)

