DEPUTY OIL & GAS HISPECTOR

DEC 02 1997

Approved

Meter Number:89520
Location Name:HALE #3A
Location:TN-31 RG-08
SC-34 UL-E
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

PECETVED N APR 1 4 1997 OUL COM. DINA. 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



GENERAL	Meter: 89520 Location: HALE # 3A Operator #: 9367 Operator Name: POYALTY P/L District: BLOOMERELA Coordinates: Letter: E Section 34 Township: 31 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5.24.94 Area: 10 Run: 32				
ASSESSMENT	NMOCD Zone: Land Type: BLM ∅ (1) (From NMOCD State □ (2) Maps) Inside □ (1) Fee □ (3) Outside ☒ (2) Indian □ Depth to Groundwater □ (1) □ (1) Less Than 50 Feet (20 points) □ (1) 50 Ft to 99 Ft (10 points) □ (2)				
	Greater Than 100 Ft (0 points)				
SITE AS	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'				
S	TOTAL HAZARD RANKING SCORE: O POINTS				
REMAK _n S	Remarks: Four Pits on location, will close only one. Pit is ary. LOCATION IS ON TOP OF PUMP MESA. REDLINE AND TOPO CONFIRMED LOCATION				
EM	IS DUTSIDE V.Z.				
III.	-1- \ (SP3190) 04/08/94				

	ORIGINAL PIT LOCATION
ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North <u>286°</u> Footage from Wellhead <u>/33′</u> b) Length : <u>/7′</u> Width : <u>/7'</u> Depth : <u>3′</u>
	17' 133' WELLHEAD
,	Remarks: TOOK PICTURES AT 10:05 A.M. ENO DUMP
RKS	
REMARKS	
	Completed By:

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>99520</u> Location: <u>Hale # 3A</u> Coordinates: Letter: <u>E</u> Section <u>34</u> Township: <u>31</u> Range: <u>8</u> Or Latitude Longitude Date Started: <u>II/18/94</u> Run: <u>10</u> <u>32</u>
FIELD OBSERVATIONS	Sample Number(s): KD 369 Sample Depth: 4 Feet Final PID Reading 902 pm PID Reading Depth 4 Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Dig test Hole to 4', Took Did Sample, Closed Dit. Itit Sand Stone At 9'. Signature of Specialist: My Jaw (SP3181) 03/16/84



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field (ID		Lab ID		
SAMPLE NUMBER:	47.369 89520 11:18:94		1100 N/A 476788			
MTR CODE SITE NAME:						
SAMPLE DATE TIME (Hrs):						
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	11-22-94 . NIA VG		11-22-94 NIA			
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:						
	F	RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	<u>Q</u>	M(g)	V(ml)
TPH (418.1)	1340	MG/KG			2.10	28
HEADSPACE PID	902	PPM				
PERCENT SOLIDS	95.3 92.0 1/23/9	4 %				
		TPH is by EPA Method	418.1			
larrative:		,				
PF = Dilution Factor Used				, , , , ,		
Approved By:)		Date:	12-	4-94	

