DEPUTY OIL & GAS INSPECTOR Location Name: SAN JUAN 28-5 #37

Approved

SC-24 UL-L

NMOCD Zone:OUTSIDE Hazard Ranking Score:00

2 - Federal

OIL CON. DIV.

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:

10⁻⁹ to 10⁻¹³ cm/sec 10⁻¹² to 10⁻¹⁶ cm/sec 10⁻¹² to 10⁻¹⁵ cm/sec Sandstone Shale Clay

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: 72444 Location: SAN JUAN 28-5 #37 Operator #: 2999 Operator Name: MERIDIAN P/L District: BloomfreeD Coordinates: Letter: L Section 24 Township: 28 Range: 5 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5.27.94 Area: 10 Run: 61						
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM ◯ (1) State ☐ (2) Fee ☐ (3) Indian						
SITE 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) □ (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						
	(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: Two Pits on Location, will close only one. Pit is DRY. LOCATION IS ON TOP OF A MESA. REDLINE AND TOPO CONFIRMED LOCATION						
ЕМА	IS DUTSIDE V.Z.						
R	PUSH IN						

ORIGINAL PIT LOCATION Original Pit: a) Degrees from North <u>1°</u> Footage from Wellhead <u>44'</u> b) Length : 19' Width : 19' Depth : 1' ORIGINAL PIT LOCATION Remarks: TOOK PICTURES AT 1:0? P.M. DUMP TRUCK - BOBTAIL REMARKS Completed By: 5.27.94 Signature Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 12444 Location: San Juan 28-5 **37 Coordinates: Letter: L. Section 24 Township: 28 Range: S Or Latitude Longitude Date Started: 5-27-94 Area: 10 Run: 61
FIELD OBSERVATIONS	Sample Number(s): MK (1 Sample Depth: 12 Feet Final PID Reading 1/7 PID Reading Depth 1/2 Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: FRNG / NOS Marked Scillight Brewn Strong HYDro carbon over Signature of Specialist: Maryan Killian



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	: IDEN HFICA	ATION			
	Fiel	d ID		Lab ID		
SAMPLE NUMBER:	MKUI	94	945554			
MTR CODE SITE NAME:	72441		N/A			
SAMPLE DATE TIME (Hrs):	6-29-	1000				
SAMPLED BY:			N/A	/A		
DATE OF TPH EXT. ANAL.:	6/3	d 30/91				
DATE OF BTEX EXT. ANAL.:	14/11		2/4			
TYPE DESCRIPTION:	ΛG	light from	Light frown clay sand stone			
			Û	1/		
REMARKS:						
	. <u>.</u>	RESULTS				
PARAMETER	RESULT	UNITS		QUALIFIERS		
			DF	Q	M(g)	V(mi)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	10 30	MG/KG			1,97	28
HEADSPACE PID	217	PPM				
PERCENT SOLIDS	A SUR	130/94 %				
ne Surrogate Recovery was atarrative:	TPH is by EPA Method 4	18.1 and BTEX is by EPA		c was accep	table.	
F = Dilution Factor Used						
oproved By:			Date:	7/4/99	<u>/</u>	

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