CHUNCH CONTRACTOR

Meter Number:92400
Location Name: LLOYD B #600
Location:TN-29 RG-11
SC-01 UL-L
2 - Federal
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



1	Meter: <u>92400</u> Location: <u>LLOYO</u> B #600				
GENERAL	Operator #: Operator Name: P/L District: _KUTZ				
	Coordinates: Letter: L Section L Township: 29 Range: 11				
	Or Latitude Longitude				
	Pit Type: Dehydrator X Location Drip: Line Drip: Other:				
	Site Visit Date: 4.4.94 Run: 02 33				
	NMOCD Zone: Inside Land Type: BLM ☒ (From NMOCD Vulnerable State ☐ Maps) Zone ☐ Fee ☐ Outside ☒ Irdian ☐				
SITE ASSESSMENT	Depth to Groundwater Less Than 50 Feet (20 points) □ 50 Ft to 99 Ft (10 points) □ Greater Than 100 Ft (0 points) ☒				
	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? YES (20 points) X NO (0 points)				
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) Greater Than 1000 Ft (0 points) Name of Surface Water Body				
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)				
	TOTAL HAZARD RANKING SCORE:O POINTS				
REMARKS	Remarks: Two PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.				
REN					

	ORIGINAL PIT LOCATION
Z	Original Pit: a) Degrees from North <u>178°</u> Footage to Wellhead <u>/23′</u> b) Degrees from North Footage to Dogleg Dogleg Name c) Length: <u>17′</u> Width: <u>/3′</u> Depth: <u>3′</u>
ORIGINAL PIT LOCATION	c) Length :
REMARKS	Remarks: STARTED TAKING PICTURES AT 1:59 P.M. END DUMP
	Completed By: Warmson Signature Date

FIELL PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 92400 Location: Lloy B # 600 Coordinates: Letter: L Section L Township: 29 Range: 11 Or Latitude Longitude Date Started: 5-12-94 Area: 02 Run: 33
FIELD OBSERVATIONS	Sample Number(s): VW64 Sample Depth:5' Feet Final PID Reading4 PID Reading Depth5' Feet Yes No Groundwater Encountered [(1) [(2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
IREMARKS	Remarks: Pit at one time had a tiperglass inverset in gravel. Sandstone right under the gravel trapped some water. O: pped water ext + pulled a soil sample. Sand stone 5'. PVC Leak Detactor set in gravel. Signature of Specialist: Valle William



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	SAIVITEL	IDENTIN TOA				
	Field ID		Lab ID			
SAMPLE NUMBER:	V1264		945146			
MTR CODE SITE NAME:	92400		N/A			
SAMPLE DATE TIME (Hrs):	5-12.94		1308			
SAMPLED BY:	15/1/0		5/1			
DATE OF TPH EXT. ANAL.:	ANAL.: AIA		5/16/94 N/A Grey Clan			
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION: 46			1			
REMARKS:						
		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
1 All Olivies and			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG			:	
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				20
TPH (418.1)	<10	MG/KG			1.98	28
HEADSPACE PID	4	РРМ				
PERCENT SOLIDS	83.9	%				
Company Negation (Negation)	TPH is by EPA Method	418.1 and BTEX is by E % for this sample			table.	
he Surrogate Recovery was at arrative:						

DF = Dilution Factor Used

