Namency 2, 700000 P.

Meter Number:03870

Eocation Name:COX CANYON UNIT COM #19

Location:TN-32 RG-11 SC-28 UL-C

2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

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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: 03870 Location: Cox Caryon Unit Com #19 Operator #: 6491 Operator Name: DWP P/L District: 12 Coordinates: Letter: C Section 28 Township: 32 Range: 11 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: Area: Of Run: 42
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM (1) State (2) Fee (3) Indian Indian
	Depth to Groundwater Less Than 50 Feet (20 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? ☐ (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
ARKS	Remarks :

ORIGINAL PIT LOCATION	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 300° Footage from Wellhead 48 b) Length: 15 Width: 15 Depth: 3
	Pit R
REMARKS	Remarks: Deg wach 150 Due east of pit, No common to have picture of
	Completed By:

Date

Sianature

FIELI PIT REMEDIATION/CLOSU FORM

GENERAL	Meter: 3870 Location: Cox Canyon Unit Com 19 Coordinates: Letter: C Section 28 Township: 32 Range: 11 Or Latitude Longitude Date Started: Faday Area: 04 Run: 42
FIELD OBSERVATIONS	Sample Number(s): Feet Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: No Camera - No picture of pit Signature of Specialist: Lambut Yagas

-2-



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	LY 7	94573 5
MTR CODE SITE NAME:	03870	N/A
SAMPLE DATE TIME (Hrs):	7/20/94	1400
SAMPLED BY:	,	N/A
JATE OF TPH EXT. ANAL.:	7/21/44	7/21/44
DATE OF BTEX EXT. ANAL.:	NIA	w/A
TYPE DESCRIPTION:	VG	Grey/BIK Sound / SIAM

REMARKS:	Neen)s	Q15.
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RESULTS

PARAMETER	RESULT	UNITS	QUALIF-ERS				
			DF	Q	M(g)	V(ml)	
BENZENE		MG/KG					
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	2160	MG/KG			1.99	28	
HEADSPACE PID	1020	PPM					
PERCENT SOLIDS	90.04	90,0 %					

- '	TPH	is	by f	EPA	Metho	d.	418.	1	and	ВТ	EX	is	bу	EPA	Method	8020	-
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The Surrogate Recovery was at	NA	% for this sample	All QA/QC was acceptable
Varrative:	• • •		

)F = Dilution Factor Used

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8/n/nd

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