

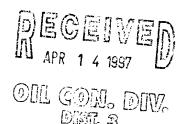
DEC 2 9 191

Appreval

Meter Number: 71853 Location Name: SAN JUAN 28-5 UNIT #22 Location: TN-28 RG-05

SC-21 UL-M 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

GENERAL	Meter: 7/853 Location: San Juan 28-5 Unit zz Operator #: Z999 Operator Name: Mendian P/L District: Bloomfield Coordinates: Letter: M Section zl Township: Z8N Range: 5W Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Cther: Site Assessment Date: 6-3-94 Area: 10 Run: 7/					
	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Land Type: BLM State (2) Fee (3) Indian Indian					
	Depth to GroundwaterLess Than 50 Feet (20 points)□ (1)50 Ft to 99 Ft (10 points)□ (2)Greater Than 100 Ft (0 points)□ (3)					
SITE ASSESSMENT	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? \square (1) YES (20 points) \boxtimes (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: Meter house is down slope from Dehy pit and welllow Two pits on location. One is Nry, other					
REMARKS	Located adjacent to fourmile Mesa (North Jeast location outside V.Z. on RedINC& Topo Maps					

FIEL PIT REMEDIATION/CLOSU. FORM

GENERAL	Meter: 7185 3 Location: 5AN Tuen 28-5 Unit #32 Coordinates: Letter: M Section 21 Township: 28 Range: 5 Or Latitude Longitude Date Started: 7-6-94 Area: 10 Run: 71
FIELD OBSERVATIONS	Sample Number(s): MK 87 Sample Depth: Feet Final PID Reading 260
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: FING I INCS Narked Soil 194+ Ene 7 51.94+ HUDOO CORDON ODOR HIT SEND STONE 7' Signature of Specialist: Morgan Xillion

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FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

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	Field ID		Lab ID			
SAMPLE NUMBER:	MK8-	945594				
MTR CODE SITE NAME:	71853	N/A				
SAMPLE DATE : TIME (Hrs):	7-6-94		10 5 6			
SAMPLED BY:		7799				
DATE OF TPH EXT. ANAL.:						
DATE OF BTEX EXT. ANAL.:		~ A				
TYPE : DESCRIPTION:			tine	13 mm/	Grey Sa	nd
REMARKS:	F	RESULTS				
PARAMETER	RESULT UNITS		QUALIFIERS			
			DF	<u> </u>	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)	1160	MG/KG			2.10	2
HEADSPACE PID	260	PPM				
PERCENT SOLIDS	92.4	%				
ne Surrogate Recovery was at arrative:	- TPH is by EPA Method 4	18.1 and BTEX is by EPA % for this sampl		was accer	otable.	

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 14/07/07 17:02 Respire identification (الله 1554 الله 1554) 1944 - SUS 717194

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