Denny & Fourt
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Meter Number:71651
ocation Name:SAN JUAN 30-6 #67
Location:TN-30 RG-07
SC-12 UL-H
2 - Federal
NMOCD Zone:OUTSIDE

001L CON. DUV. DIST. 3

ppreved

RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

Hazard Ranking Score:00

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: 7165/ Location: SANJVAN 30-6-#67 Operator #: 2999 Operator Name: Métidian P/L District: Blass Rivid Coordinates: Letter: # Section 12 Township: 30 Range: 7 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 4-27-94 Area: 10 Run: 82						
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM ☒ (1) (From NMOCD State ☐ (2) Maps) Inside ☐ (1) Fee ☐ (3) Outside ☒ (2) 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						
RKS	Remarks: Pit was pry .						
REMARKS							

AL PIT LOCATION	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 335 Footage from Wellhead 96 b) Length: 30 Width: 30 Depth: 31
ORIGINAL	333-0
	Remarks:
REMARKS	
REM	
	Completed By:
	Eigene Truly 4-27-94
	Signature Date

FIELE PIT REMEDIATION/CLOSUT FORM

GENERAL	Meter: 7/65/ Location: SAN JUAN 30-6 #67 Coordinates: Letter: # Section 12 Township: 30 Range: 7 Or Latitude Longitude Date Started: 4-21-94 Area: 10 Run: 31
FIELD OBSERVATIONS	945030 Jul 4/29/44 Sample Number(s): £.T.M.6 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered [1] [X] (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
RKS	Other Facility (2) Name: Pit Closure Date: 11-27-94 Pit Closed By: 2-f.N.C. Remarks: (Fit was Dry) hit Rocus at 5'
REMA	Since of Specialists Linding Toucher
REMARKS	Signature of Specialist: Lugare Truly

(SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	IDENTIFICA	TION				
	Field	ID		Lab ID			
SAMPLE NUMBER:	ETLE		945030				
MTR CODE SITE NAME:	716	51	N/A				
SAMPLE DATE TIME (Hrs):	4/27/9	4	1345				
SAMPLED BY:				5/2/94			
DATE OF TPH EXT. ANAL.:	5-2-94		5/2/9				
DATE OF BTEX EXT. ANAL.:	VG	IA	NA				
TYPE DESCRIPTION:	10rey F	Grey Fine Sand/Clay					
REMARKS:							
	-	RESULTS					
PARAMETER	RESULT	UNITS		QUALIFIERS			
TANAMETER			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) 286	236. 113	MG/KG			3.0	28	
HEADSPACE PID	765	PPM					
PERCENT SOLIDS	24 93.	7 %					
The Surrogate Recovery was at Narrative:	- TPH is by EPA Method 4	18.1 and BTEX is by EPA % for this samp		was accep	table.		
DF = Dilution Factor Used			· · · · · ·	 	<u></u>		
Approved By:	words.		Date:	5/1/	94		

~~~******************************** Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR Analysis Report

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4/05/02 12:03

Sample identification -45030

Initial mass of sample, q .000

Volume of sample efter extraction, ml 2.000

Pairtlaum hydrocarbons, ppm 36.410

Net absorbance of hyprocarbons (2930 cm-1) . . . 40

