Derny S. Foust

DEC 3 0 1997

Meter Number:87571 DEPUTY OIL & GAS INSPECTOR Location Name: A.L. ELLIOTT C#3 Location:TN-29 RG-09 SC-15 UL-B 2 - Federal NMOCD Zone: OUTSIDE

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

Hazard Ranking Sore: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:

 10^{-9} to 10^{-13} cm/sec 10^{-12} to 10^{-16} cm/sec Sandstone Shale 10⁻¹² to 10⁻¹⁵ cm/sec 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 BLPASOFIELD SERVICES

GENERAL	Meter: \$7571 Location:A.L. ELLIOT C #3 Operator #:O2O3 Operator Name: Amoco P/L District: BLOOMFIELD Coordinates: Letter: B Section 15 Township:29 Range:9 Or						
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM ⋈ (1) (From NMOCD State (2) Maps) Inside (1) Fee (3) Outside (2) Indian Indian Depth to Groundwater (1) (1) 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:O POINTS						
KS	Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS EAST OF HWY. 64						
REMARKS	ON A HILL REDLINE SHOWS LOCATION IS INSIDE THE V.Z. BUT TOPO SHOWS						
REA	THAT IT IS OUTSIDE THE V.Z. PUSH IN						
	1 (SP3190) 04/08/94						

FIEL PIT REMEDIATION/CLOSUL FORM

GENERAL	Meter: \$7571 Location: \$\frac{ALEILio+}{ALEILio+} \cup \frac{\pmu}{3}\$\$ Coordinates: Letter: \$\begin{align*} \text{Section} & \text{Township:} \text{Range:} & \text{Range:} & \text{Date} \text{Started} : \frac{6-24-94}{4} & \text{Area:} & \text{Run:} & \text{Run:} & \q
FIELD OBSERVATIONS	Sample Number(s): MK 39 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered [(1) X (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	

7/14/av_

Date:



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	IDENTIFICA	TION				
	Field	i ID		Lab ID			
SAMPLE NUMBER:	MK 39		9455 21				
MTR CODE SITE NAME:	87571		N/A				
SAMPLE DATE TIME (Hrs):	ر ₄ - عباء	1448					
SAMPLED BY:	the state of the s						
DATE OF TPH EXT. ANAL.:	62	7/94	6/27/94				
DATE OF BTEX EXT. ANAL.:	Alu		NIA			2	
TYPE DESCRIPTION:	V G	V G-			Black Grey Coause Sand		
REMARKS:							
		RESULTS					
PARAMETER	RESULT	UNITS	QUALIFIERS				
TAIIANE EN			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)	8080	MG/KG			0.84	28	
HEADSPACE PID	134	PPM					
PERCENT SOLIDS	88.1	%_					
	— TPH is by EPA Method 4						
he Surrogate Recovery was at arrative:	NIA_	% for this samp	le All QA/QC	was accer	otable.	·	

OF = Dilution Factor Used

Test Me d for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR 15/06/27 15:25 Tampie denta Plantatt Stol The filling case of section (γ) A Distribute of the Contract Contra The month result of the protocologic of the policy of the 110