Denny & Fourt
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

10/20161

Meter Number:89474 cation Name:ELMER E. ELLIOTT B #3A

Location:TN-30 RG-09 SC-26 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 EL PASO FIELD SERVICES

GENERAL	Meter: 75854 Location: ELMER E. ELLIOT B # 3A Operator #: 0203 Operator Name: Amoco P/L District: Bloomfield Coordinates: Letter: C Section 26 Township: 30 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 4.26.94 Area: 10 Run: 33				
SITE ASSESSMENT	NMOCD Zone: Cand Type: BLM				
REMARKS	Remarks: FIVE PITS ON LOCATION, WILL CLOSE ONLY ONE. PIT IS DRY. REDUNE AND TOPO CONFIRMED LOCATION TO BE OUTSIDE V.Z. PUSH IN				

GE, in	Meter: 39474 Location: Elms E Clist 13 # 3A Coordinates: Letter: C Section 26 Township: 30 Range: 9 Or Latitude Longitude Longitude Longitude Run: 33
FIELD OBSERVATIONS	Sample Number(s): $\frac{12}{2}$ Feet Sample Depth: $\frac{12}{2}$ Feet Final PID Reading $\frac{266}{2}$ PID Reading Depth $\frac{12}{2}$ Feet Yes No Groundwater Encountered \square (1) \square (2) Approximate Depth \square Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Live Markers Signature of Specialist: Vale Mulsey



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	VW 112	945239		
MTR CODE SITE NAME:	89474	N/A		
SAMPLE DATE TIME (Hrs):	5-19-94	0945		
SAMPLED BY:	AIN			
DATE OF TPH EXT. ANAL.:	5/20/94	5-20-94		
DATE OF BTEX EXT. ANAL.:	P/G	NIA		
TYPE DESCRIPTION:	V 6	Grown Course sand		

REMARKS:	

RESULTS

	RESULT	UNITS	QUALIFIERS			
PARAMETER			C#	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX	598	MG/KG			3.12	20
TPH (418.1)	1B 2020330	MG/KG		PST	2.07	2.8
HEADSPACE PID	266	PPM				
PERCENT SOLIDS	92.4	%	2020	<u> </u>		

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at Narrative:	NIA	_% for this sample	All QA/QC was acceptable.	
DF = Dilution Factor Used	2		/	

Approved By: Latel.

Test Method for Oil and Grease and Petroleum Hydrocarbons ¥ in Water and Soil 米 Perkin-Elmer Model 1600 FT-IR Analysis Report 14/05/20 12:32 Sample identification Initial mass of sample, g - Volume of sample after eversotion, wil 12.000 Petroleum hydrocarb res jopm *72.550 Met absorbance of hydrocarbons (1970 ca-t) 070 To Tatholigus Ayuncoshbons sceothub

