DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

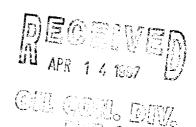
Meter Number:72156 Denny S. Four Location Name: ANNIE L. ELLIOTT B#3

Location:TN-29 RG-09 SC-10 UL-D

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:

10⁻⁹ to 10⁻¹³ cm/sec Sandstone 10⁻¹² to 10⁻¹⁶ cm/sec 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

GENERAL	Meter: 72)56 Location: Annie L. Elliot 8 #3 Operator #: 0203 Operator Name: Amoco P/L District: BloomField Coordinates: Letter: D. Section 10 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 4.28.94 Area: 10 Run: 22
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS ON A MESA AT THE BASE OF SOME CLIFFS. REPLINE AND TOPO CONFIRMED LOCATION TO BE OUTSIDE THE V.Z. PUSH IN

ORIGINAL PIT LOCATION	b) Length :22' W	T LOCATION h _250* Footage from Wellhead 197' Tidth :19' Depth :1' THERE \(\frac{1}{2} \)
REMARKS	Remarks: Took Pictures AT 9:14 A.M. END Dump	
	Completed By:	
	Vatre Clampson	4.28.94
	Signature	Date

GE, RAL	Meter: Mossour Location: Marie L Ellioff 13#3 Coordinates: Letter: D Section 10 Township: 29 Range: 9 Or Latitude Longitude Date Started: 5-20-94 Area: 10 Run: 22
FIELD OBSERVATIONS	Sample Number(s): $VW 126$ Sample Depth: $5'$ Feet Final PID Reading 326 PID Reading Depth $5'$ Feet Yes No Groundwater Encountered \Box (1) \boxtimes (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: EPNL, Ine Mafters hit rock at 5'
, 	Signature of Specialist: Wale Wilson



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

_	Field	10		Lab ID		
SAMPLE NUMBER:	VW 12	ر (ب	94521	4 O		
MTR CODE SITE NAME:	72156 5-20-94		N/A 1045			
SAMPLE DATE : TIME (Hrs):						
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	AL.: N/A		5124194			
ATE OF BTEX EXT. ANAL.:			N/A			
TYPE DESCRIPTION:			Trey Course Sand			
REMARKS: _	-					
		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
			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)	700	MG/KG			2.13	28
HEADSPACE PID	326	PPM				
PERCENT SOLIDS	92.1	%				
	- TRH is by EPA Method 4	418.1 and BTEX is by EPA1		was acce	otable.	

Tstroleum hydrocarbons ppm 90.000 Net absorbance if hydrocarbons (2930 cm-1) 1992

7: Fetholeum hydropanbons spectrum 19433

