Denny & Front BETUTISE & GAS INSPECTOR

DEC 2 2 1997

Meter Number: 90622 Location Name: FLORANCE O #20 A

Location:TN-30 RG-09 SC-24 UL-J

2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

PEGETYED APR 1 4 7557 D OUL COM. BUTY

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.

Date

Signature

GE1 LASL	Meter: 90622 Location: Florance O#20A Coordinates: Letter: J Section 24 Township: 30 Range: 9 Or Latitude Longitude Date Started: 5-19-94 Area: 10 Run: 22						
FIELD OBSERVATIONS	Sample Number(s): 120 Sample Depth: 12 Feet Final PID Reading 253 PID Reading Depth 12 Feet Yes No Groundwater Encountered \square (1) \square (2) Approximate Depth \square Feet						
CLOSURE	Remediation Method: Excavation						
REMARKS	Other Facility (2) Name:Pit Closed By: BEZ						
,	Signature of Specialist: Vale Wlam						

(SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field	iD		Lab ID				
SAMPLE NUMBER:	V _W I	20	945247					
MTR CODE SITE NAME:			N/A					
SAMPLE DATE TIME (Hrs):	``		1400					
SAMPLED BY:			NIA					
DATE OF TPH EXT. ANAL.:	5/2	0/94	5-20-94					
DATE OF BTEX EXT. ANAL.:		RIF	NIA		- 0 -			
TYPE DESCRIPTION:	VG		Grey sand & Clay		Clay			
REMARKS:		RESULTS						
PARAMETER	RESULT	UNITS	DF	QUALIF		IS M(g) V(ml)		
BENZENE		MG/KG						
TOLUENE		MG/KG						
ETHYL BENZENE		MG/KG						
TOTAL XYLENES		MG/KG						
TOTAL BTEX		MG/KG	<u> </u>					
TPH (418.1) كالمنافذ الم	73072Le	MG/KG			2.01	28		
HEADSPACE PID	258	PPM				·		
PERCENT SOLIDS	LIDS 90.0		:		The second			
The Surrogate Recovery was at Narrative:	TPH is by EPA Method	418.1 and BTEX is by E _% for this sampl			otable.			
DF = Dilution Factor Used Approved By:	ardi.		Date:	Ce/16/	<i>4</i> 4			



