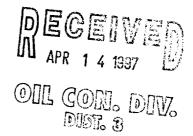
DEC 2 2 1997

Meter Number:90757 ocation Name:FLORANCE #109 Location:TN-30 RG-08 SC-31 UL-K 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 FORMEL PASO FIELD STATES

GENERAL	Meter: 90757 Location: FLORANCE # 109 Operator #: 0203 Operator Name: Amoco P/L District: BLOOMFIELD Coordinates: Letter: K Section 3L Township: 30 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5.8.94 Area: 10 Run: 31
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM (1)
REMARAS	Remarks: DNLY PIT ON LOCATION. PITE IS DRY. LOCATION IS ON TOP OF MANZANARES MESA. REDLINE AND TOPO CONFIRMED LOCATION TO BE OUTSIDE THE V.Z. PUSH IN

1

(SP3190) 04/08/94

4	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	
	ORIGINAL PIT LOCATION	ON
	Original Pit : a) Degrees from North <u>302°</u> Fo	ootage from Wellhead <u>103</u>
	b) Length : <u>20'</u> Width : <u>å</u>	
Z	, g	,
ORIGINAL PIT LOCATION	20' 20' WELLHEAD	
	Remarks :	
	TOOK PICTURES AT 2:39 P.M.	
	END DUMP	
KS		
ARI		
REMARK		
	Completed By:	
	Ω	
		· · · · · · · · · · · · · · · · · · ·
	Katert Champson	5.8.94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90757 Location: FloRence # 109 Coordinates: Letter: K Section 31 Township: 30 Range: 8 Or Latitude Longitude Date Started: 6-28-94 Area: 10 Run: 31
FIELD OBSERVATIONS	Sample Number(s): MK51 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Pit Closure Date: 6-28-94 Pit Closed By: BET Remarks: FPNG lines Marked Soil light Graf Strong HYDro (arbon Odor Hit Sand Stone 5 Signature of Specialist: Margan Xilliam (SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

							
	Fiel	id ID		Lab ID			
SAMPLE NUMBER:	MKSI	MILSI		945542			
MTR CODE SITE NAME:	90757		N/A				
SAMPLE DATE TIME (Hrs):	1		1045				
SAMPLED BY:	N/A						
DATE OF TPH EXT. ANAL.:	6-50-94		6/30/94				
DATE OF BTEX EXT. ANAL.:	N/A		N N N				
TYPE DESCRIPTION:	V G-	V G-		tinclisher homen sand/class			
REMARKS:					/ 		
		RESULTS					
PARAMETER	RESULT	UNITS		QUALIFIERS			
TANAMETEN	MESUE!	UNITS	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)	1020	MG/KG			211	28	
HEADSPACE PID	101	РРМ					
PERCENT SOLIDS	<i>\$7,5</i>	%					
he Surrogate Recovery was atarrative:	- TPH is by EPA Method 41	18.1 and BTEX is by EPA % for this sample		was accept	able.		
F = Dilution Factor Used	Palds.		Date:	VH/9	<i>y</i>		

Volume of sample after extraction, ml

Petroleum Indrocarbons, ppm 1942:007 Tall absorbunce of Pydrocarbons (2930 cm-1) 1950

