DEPUTY OIL & SASINSPECTOR

DEC 2 2 1997

Meter Number:75859 Location Name:FLORANCE #81 Location:TN-30 RG-09 SC-14 UL-J 2 - Federal NMOCD Zone:OUTSIDE PECEIVED APR 1 4 1997 OUL CONL DUV DUSTL 3

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

Hazard Ranking Score: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:

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

GENERAL	Meter: 75859 Location: FLORANCE #81 Operator #: 0203 Operator Name: Amoco P/L District: BLOOMFIELD Coordinates: Letter: Section Township: OR Range: _9 Or
SITE ASSESSMENT	NMOCD Zone: (From NMOCD (From NMOCD Maps) Inside Outside Outside (2) Indian Indian Indi
N)	
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. REDUNE AND TOPO CONFIRMEN LOCATION TO BE OUTSIDE V.Z.
R	Push IN (SP3190) 04/08/94

	ORIGINAL I	PIT LOCATION			
		th <u>loi⁶</u> Footage from Wellhead <u>146'</u> Width : <u>12'</u> Depth : <u>2'</u>			
ORIGINAL PIT LOCATION	L	146' 13'			
REMARKS	Remarks: TOOK ACTURES AT 2:28 P.M. END DUMP				
	Completed By:				
	Red Elampson	4.25.94			
	Signature Signature	Date			

GEL .AAL	Meter: 7589 Location: Floranco*81 Coordinates: Letter: 3 Section 14 Township: 30 Range: 9 Or Latitude Longitude Date Started: 5-18-94 Area: 10 Run: 33
FIELD OBSERVATIONS	Sample Number(s): \(\frac{\fir}{\frac{\fi
CLOSURE	Remediation Method: Excavation
REMARKS	Pit Closure Date: 5-18-94 Pit Closed By: BET Remarks: No I.me Makkers
,	Signature of Specialist: Vale Wilson

(SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	SAMILL	IDEIT III IOA	111011				
	Field ID						
SAMPLE NUMBER:			945228				
MTR CODE SITE NAME:	75859		N/A				
SAMPLE DATE TIME (Hrs):	5-18.0	5-18-94		1345			
SAMPLED BY:	5-19-94 5/19/94						
DATE OF TPH EXT. ANAL.:	EXT. ANAL.: 5-19-94		2/1				
DATE OF BTEX EXT. ANAL.:		NIA		NA			
TYPE DESCRIPTION:	٧ (ح		Brown /g	Brown Grey Gourse Soud			
REMARKS:							
	F	RESULTS					
						:	
PARAMETER	RESULT	UNITS	DF	QUALIF Q	M(g)	V(mi)	
BENZENE		MG/KG					
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG				ļ	
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	4730	MG/KG			2.07	28	
HEADSPACE PID	262	PPM				····	
PERCENT SOLIDS	89,5	%					
The Surrogate Recovery was at	— TPH is by EPA Method 41	18.1 and BTEX is by EP		was accep	table.		
DF = Dilution Factor Used							

****************** Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

> Perkin-Elmer Model 1600 FT-IR Analysis Report

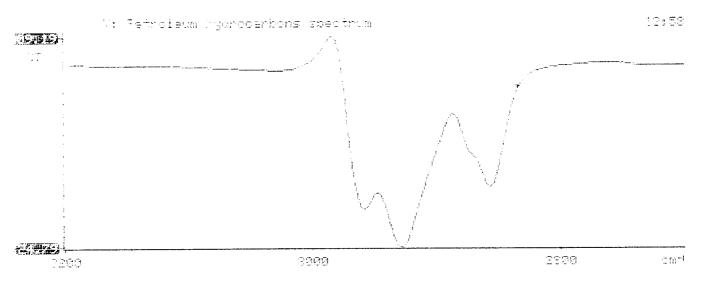
74/05/19 13:57

Sample identification

Initial mass of sample, g

Volume of sample after extraction, mins. COO

Petroleum hydrocarbons, ppm TT1.208 Met absorbence of hydrocarbons (2930 cm-1)





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