Denny S. Fourt DEPUTY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number:92023
Location Name:FLORANCE #114
Location:TN-30 RG-09
SC-11 UL-L
2 - Federal
NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

PECEIVED APR 1 4 1997 OIL GOW. DIV

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



GENERAL	Meter: 92023 Location: FLORANCE #114 Operator #: 0203 Operator Name: Amoco P/L District: Azzec Coordinates: Letter: DL Section II Township: 30 Range: 9 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 2.8.95 Area: 04 Run: 92
SITE ASSESSMENT	NMOCD Zone: Carrow NMOCD State (2)
REMARKS	Remarks: REDUNE & TOPO SHOW LOCATION OUTSIDE U.Z. TWO PITS ON LOCATION. DEHY PIT BELONGS TO EPING. WILL CLOSE PIT.
RE	PUSH IN

ĺ	ORIGINAL PIT LUCATION
ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North <u>24°</u> Footage from Wellhead <u>120'</u> b) Length : <u>22'</u> Width : <u>21'</u> Depth : <u>3'</u>
	WEILHEAD WELLHEAD
REMARKS	Remarks: Photos - 1044

Completed By:

Signature

2.8.95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 92023 Location: FLORANCE # 114 Coordinates: Letter: L Section II Township: 30 Range: 9 Or Latitude Longitude Date Started: 2-24-95 Run: 04 92
FIELD OBSERVATIONS	Sample Number(s): $KP429$ Sample Depth: $I2'$ Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered \Box Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Some Like markers. dug a Test hole To 12' Sampled Closed Pit. Signature of Specialist: Kelly Padilla



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field	i ID		Lab ID			
SAMPLE NUMBER:	KP 420	KP 429 92023		9467 03 N/A			
MTR CODE SITE NAME:							
SAMPLE DATE TIME (Hrs):	2.24.95		1110				
SAMPLED BY:		N/A					
DATE OF TPH EXT. ANAL.:	2-28-	2-28-95 NIA VG		2-28.95			
DATE OF BTEX EXT. ANAL.:	NIA			NIW			
TYPE DESCRIPTION:	VG			own Sand	of Clay		
REMARKS:							
		RESULTS					
PARAMETER	RESULT	UNITS	QUALIFIERS			na n	
	444		DF	<u> </u>	M(g)	V(ml)	
TPH (418.1)	105	MG/KG			1.97	28	
HEADSPACE PID	l	PPM					
PERCENT SOLIDS	90.9	%					
		TPH is by EPA Meth	od 418.1				
nrrative:							
= Dilution Factor Used							

95/02/28 16:55

Pample identification 46763

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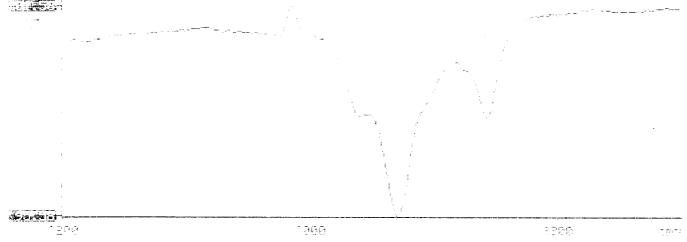
Volume of sample after extraction, al 25.000

Trinoleum hydnotarbons, ppm yr.Tii

at almorbance of hydrocarbons (1930 cm-1

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15 77



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