Denny S. Fout DEPUTY OIL & GAS INSPECTOR

্রেলার না বেওয়ে ক্ষেত্র প্রাণ্ড পর্যা

DEC 2 2 1997

Meter Number:70547 Location Name:STATE COMM #1 Location:TN-30 RG-07 SC-16 UL-H 2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

DECEIVED N APR 1 4 1997

OIL GOM. 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: 70547 Location: STATE COMM #1 Operator #: 1987 Operator Name: MERIDIAN P/L District: BLOOMFIELD Coordinates: Letter: H Section 16 Township: 30 Range: 7 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6:7:94 Area: 10 Run: \$2			
SITE ASSESSMENT	NMOCD Zone: Canal Type: BLM			
REMARKS	Remarks: THREE PITS ON LOCATION, WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS ON A LEAGE JUST ABOVE NAVASO LAKE. REDLINE SHOWS LOCATION INSIDE V.Z. BUT YOPO SHOWS LOCATION IS OUTSIDE V.Z. PASSETTM			

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 7054? Location: STATE COM*(Coordinates: Letter: #_ Section & Township: 30 Range: _7 Or Latitude Longitude Date Started: 7-14-54 Run: 10 82			
FIELD OBSERVATIONS	Sample Number(s): MK 129 Sample Depth:2 Feet Final PID Reading PID Reading Depth2' Feet Yes No Groundwater Encountered			
CLOSURE	Remediation Method: Excavation			
REMARKS	Remarks: Epr & lines Marked Soil Brown Slight 440ro Carbon ador Hit Sand Stone 2 Signature of Specialist: Morgan Xillian (SP3181) 03/16/9			



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 129	945470
MTR CODE SITE NAME:	10547	N/A
SAMPLE DATE TIME (Hrs):	7-14-94	0924
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	7/19/94	7/19/94
ATE OF BTEX EXT. ANAL.:	NIA	NIN
TYPE DESCRIPTION:	VG	Bown Fine Sond

RESULTS

DA DA SAFTER	RESULT	UNITS	QUALIFIERS			
PARAMETER			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG	·			
TOTAL BTEX		MG/KG				
TPH (418.1)	410	MG/KG			2.29	21
HEADSPACE PID		PPM				
PERCENT SOLIDS	94.49	94.5 spin		<u> </u>	<u></u>	

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -

= (PH is by CPA received 416.1 tills 5.						
he Surrogate Recovery was at	NIA.	% for this sample	All QA/QC was acceptable.			
ic carrogate						
arrative:						

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR 147077119 15129 Sample Menbification this was of wancle p State of the Control anan ya Menja and the second of the second o