BEC 3 @ 1987

Meter Number:87719
Location Name:VANDERWART C7
Location:TN-29 RG-08
SC-14 UL-G

2 - Federal NMOCD Zone:OUTSIDE Hazard Ranking Score:00 DECEIVED APR 1 4 1937

OIL GOM. DI Bible &

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: 87719 Location: Vanderwat C7 Operator #: 0703 Operator Name: Amoco P/L District: Blanco Coordinates: Letter: G Section 14 Township: Z9N Range: 8W Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 68-94 Area: 13 Run: 21							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD (Free (2) (Free (3) (2) (1) (2) (3) Welth to Groundwater Less Than 50 Feet (20 points) (1) (5) Ft to 99 Ft (10 points) (2) (Greater Than 100 Ft (0 points) (3) Wellhead Protection Area: Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; Is it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100'							
REMARKS	Remarks: Two pits. Dehy pit is dry Outside V.Z. On Realine & Topo							
REM/	Push IN							

Date

Signature

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 877/9 Location: Vanderwart & 7 Coordinates: Letter: Section 14 Township: 29 Range: 8 Or Latitude Longitude Date Started: 8-3-94 Run: 13 21							
FIELD OBSERVATIONS	Sample Number(s): MK 217 Sample Depth:3' Feet Final PID Reading390 PID Reading Depth _3 Feet Yes No Groundwater Encountered							
CLOSURE	Remediation Method: Excavation							
REMARKS	Remarks: EPNG lines not marked Soil Gray \$1.94+ HYDrocalbon odor Hit Sand Stoke 3'							
	Signature of Specialist: Margan Killian							



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field II	0		Lab ID		
SAMPLE NUMBER:	SAMPLE NUMBER: MK 217			945832		
MTR CODE SITE NAME:	87719	N/A				
SAMPLE DATE TIME (Hrs):			1251			
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	8.4.9	8-4-94				
DATE OF BTEX EXT. ANAL.:	NIN		N/A			
TYPE DESCRIPTION:	VG		I grey fine	grey fine sound + chang		
REMARKS:	R	ESULTS			,	
PARAMETER	RESULT UNITS		QUALIFIERS			
			DF	<u> </u>	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)	20,600	MG/KG			0.51	2
HEADSPACE PID	390	PPM				
PERCENT SOLIDS	95,4	%				
	-TPH is by EPA Method 41			was accer	stable.	
ne Surrogate Recovery was at arrative:	<u> </u>	% for uns samp	ole All QA/QC	was accep	itanie.	
C Dilution Factor Head						

Approved By: _

Assaurante and Brease and Petroleum Hydrocarbons in Water and Soil #

Perkin-Elmer Model 1600 FT-IR #

Analysis Report #

Analy

Figure Classic Control Constant

77 : 32

