Denny & Fout DEDUTY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number:71654
Location Name:SAN JUAN 31-6 #8
Location:TN-30 RG-06
SC-06 UL-K
2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00 DECEIVED N APR 1 4 1997

OIL CON. DIV. DIST. 3

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: 71654 Location: SAN JUAN 31-6 #8 Operator #: 7035 Operator Name: PHILLIPS P/L District: BLOOMFIELD Coordinates: Letter: K Section 6 Township: 30 Range: 6 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 6.4.94 Area: 10 Run: 82				
ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (1) Fee (3) Outside Indian Depth to Groundwater Less Than 50 Feet (20 points) Fee (20) Greater Than 100 Ft (0 points) 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)				
SITE ASS	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)				
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS NORTH OF THE SIMS HWY. REDLINE SHOWS LOCATION IS INSIDE V.Z. BUT TOPO SHOWS LOCATION IS OUTSIDE V.Z. PUSH IN				

Date

Signature

FIL J PIT REMEDIATION/CLOSI E FORM

GENERAL	Meter: 71654 Location: SAN JUAN 31-6 #8 Coordinates: Letter: K Section & Township: 30 Range: 6 Or Latitude Longitude Date Started: 7-12-94 Area: 10 Run: 32
FIELD OBSET TIONS	Sample Number(s): MK 1/8 Sample Depth: Feet Final PID Reading 342 PID Reading Depth 4 Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: IPNG INES MARKED Soil Brown 51.94+ Hyprocarbon odor Hit Sand Stone 4' Signature of Specialist: Morgan Killian



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	MK 118	945642		
MTR CODE SITE NAME:	71654	N/A		
SAMPLE DATE TIME (Hrs):	7-12-94	1025		
SAMPLED BY:	N/A			
DATE OF TPH EXT. ANAL.:	7-14-94	7/14/94		
DATE OF BTEX EXT. ANAL.:	NA	N N		

		W	1A	0	¥	c	
п	L	11	-	m	n	J	٠

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			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)	174	MG/KG_			2,20	28
HEADSPACE PID	342	PPM				
PERCENT SOLIDS	92.4	%				·

- TPH is by EPA Method 418 1 and BTEX is by EPA Method 8020 -

he Surrogate Recovery was at	_ NA	_% for this sample	All QA/QC was acceptable
larrative:	, ,		

