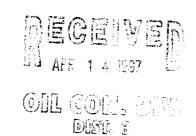
DEPUTY OIL & CAS INSPECTOR

DEC 0 2 1997

Meter Number:72361
Location Name:SAN JUAN 32-8 #11
Location:TN-31 RG-08
SC-21 UL-G
4 - Fee
NMOCD Zone:OUTSIDE



riproved

### 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<sup>-9</sup> to 10<sup>-13</sup> cm/sec Shale 10<sup>-12</sup> to 10<sup>-16</sup> cm/sec Clay 10<sup>-12</sup> to 10<sup>-15</sup> 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: 72361 Location: SAN JUAN 32-8 #11 Operator #: 7035 Operator Name: PHILLIPS P/L District: Bloomfield Coordinates: Letter: 6 Section 21 Township: 31 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5-24-94 Area: 10 Run: 32							
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  (From NMOCD  Maps)  Inside  Outside  Outside  (2)  Indian  Depth to Groundwater  Less Than 50 Feet (20 points)  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?  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  Creater Than 1000 Ft (10 points)  Greater Than 1000 Ft (20 points)  Greater Than 1000 Ft (10 points)  Greater Than 1000 Ft (0 points)  Greater Than 1000 Ft (0 points)  Greater Than 1000 Ft (10 points)  Greater Than 1000 Ft (1							
REMARKS	Remarks: Two Pits on LOCATION, WILL CLOSE ONLY ONE, PIT IS DRY, LOCATION IS ON TOP OF PUMP MESA, REDLINE AND TOPO CONFIRMED LOCATION IS DUTSIPE V.Z.							

# FIELD ( r REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72361 Location: San Juan 32-8 # 11  Coordinates: Letter: G Section 21 Township: 31 Range: 8  Or Latitude Longitude  Date Started: 6-14-94 Area: 10 Run: 32						
FIELD OBSERVATIONS	Sample Number(s): Vw 206  Sample Depth: 6' Feet  Final PID Reading 290 PID Reading Depth Feet  Yes No  Groundwater Encountered (1) (2) Approximate Depth Feet						
CLOSURE	Remediation Method:  Excavation						
	Envirotech (1) (3) Tierra  Other Facility (2) Name:  Pit Closure Date: 6-14-94 Pit Closed By: 13EZ						
REMARKS	Remarks: EPIG IND Mobiles 6 hit Benjante Layer + coullet Dig any faither.						
*	Signature of Specialist: Vale Willem						



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

Field ID Lab ID										
SAMPLE NUMBER:	vw 206	945452								
MTR CODE   SITE NAME:				N/A						
SAMPLE DATE   TIME (Hrs):	4	131	0							
SAMPLED BY:	N/A									
DATE OF TPH EXT. ANAL.:	0110	194	6/16/94							
DATE OF BTEX EXT.   ANAL.:	OF BTEX EXT.   ANAL.:   N / H			NJA						
TYPE   DESCRIPTION:		Brown G	rey Sar	Attened	LAY					
REMARKS:RESULTS										
		ALSOL 13	· · · · · · · · · · · · · · · · · · ·		-					
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)	3330	MG/KG			2,29	28				
.iEADSPACE PID	290	PPM								
PERCENT SOLIDS	88.0	%								
	- TPH is by EPA Method 4				4-61-					
he Surrogate Recovery was at	<u> </u>	% for this sampl	e All QA/QC	was accep	table.					

OF = Dilution Factor Used

Varrative:

7/14/60

#### \_**<\*\*\*\*\*\*\***\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR Analysis Report \*

4/06/16 14:45

Sample identification

745452

Initial mass of sample, g

1.290

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm T329.509 Net absorbance of hydrocarbons (2930 cm-1) 0.477

