OIL & GAS INSPECTOR ocation Name: PRICHARD FEDERAL #2

DEC 3 0 1997

Meter Number:70272

Location:TN-29 RG-08

SC-06 UL-K 2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

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:

10⁻⁹ to 10⁻¹³ cm/sec 10⁻¹² to 10⁻¹⁶ cm/sec 10⁻¹² to 10⁻¹⁵ cm/sec Sandstone Shale Clay

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: 70272 Location: PRICHARD FEDERAL #2 Operator #: 2999 Operator Name: MERIDIAN P/L District: BLOOMEIELD Coordinates: Letter: K Section Location Township: 29 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: S.8.94 Area: 10 Run: 31
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (1) Fee (3) 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) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body (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)
·	TOTAL HAZARD RANKING SCORE: POINTS
4	REMOTES: THREE PITS ON LOCATION, WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS ON TOP OF MANZANARES MESA. REDLINE AND TOPO CONFIRMED LOCATION TO BE OUTSIDE THE U.Z. DIICH IN

Date

Signature

FIELD PIT REMEDIATION/CLOSURE FORM

, H	Meter: 70172 Location: Pricing Federal #2					
GENERAL	Coordinates: Letter: <u>K</u> Section <u>6</u> Township: <u>29</u> Range: <u>8</u>					
	Or LatitudeLongitude					
	Date Started : 6-28-94 Area: 10 Run: 31					
NS	Sample Number(s): <u>MK 5-6</u>					
TIO	Sample Depth: Feet					
OBSERVATIONS	Final PID Reading 201 PID Reading Depth 1/2 Feet					
BSE	Yes No					
1	Groundwater Encountered 🗌 (1) 🔀 (2) Approximate Depth Feet					
FIELD						
1	Remediation Method :					
1						
	Excavation (1) Approx. Cubic Yards					
F.3	Onsite Bioremediation (2)					
URE						
	Onsite Bioremediation (2) Backfill Pit Without Excavation (3) Soil Disposition:					
CLOSURE	Onsite Bioremediation (2) Backfill Pit Without Excavation (3) Soil Disposition: Envirotech (1) (3) Tierro					
	Onsite Bioremediation (2) Backfill Pit Without Excavation (3) Soil Disposition: Envirotech (1) (3) Tierro Other Facility (2) Name:					
	Onsite Bioremediation (2) Backfill Pit Without Excavation (3) Soil Disposition: Envirotech (1) (3) Tierro					
CLOS	Onsite Bioremediation (2) Backfill Pit Without Excavation (3) Soil Disposition: Envirotech (1) (3) Tierro Other Facility (2) Name: Pit Closure Date: 6-25-54 Pit Closed By: BET					
CLOS	Onsite Bioremediation (2) Backfill Pit Without Excavation (3) Soil Disposition: Envirotech (1) (3) Tierro Other Facility (2) Name: Pit Closure Date: 6-25-54 Pit Closed By: BET					
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FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field	ID		Lab ID			
SAMPLE NUMBER:	m1456		94	945547			
MTR CODE SITE NAME:			N/A را 35				
SAMPLE DATE TIME (Hrs):							
SAMPLED BY:		N/A					
DATE OF TPH EXT. ANAL.:	N/A		10/30/94				
DATE OF BTEX EXT. ANAL.:							
TYPE DESCRIPTION: \(\frac{1}{3} \)G-			Vari Chion	David Drown Fand/class			
REMARK				/	!	_	
	R	ESULTS					
PARAMETER	RESULT UNITS QU		QUALIF	UALIFIERS			
			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)	2270	MG/KG			2.04	28	
HEADSPACE PID	202	PPM				·····	
	P4.5	%				,	
PERCENT SOLIDS	07.0						

F = Dilution Factor Used

pproved By:

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR

Analysis Report

74/06/30 14:12

Bample identification 105547

Thibial saak bo samble g

- Volume of seppl. Wide. Extraccion, m 15,500

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300**3**

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