DEFUTY OIL & BAS INSPECTED

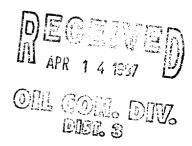
DEC 3 0 1997

Meter Number:94940 ecation Name:A.L. ELLIOTT B #6E

Location:TN-29 RG-09
SC-10 UL-D

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:

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: 94940 Location: AL. ELIOT 3 *6E  Operator #:n203
	NMOCD Zone:       Land Type:       BLM       □ (1)         (From NMOCD       State       □ (2)         Maps)       Inside       □ (1)       Fee       □ (3)         Outside       □ (2)       Indian       □         Depth to Groundwater       □ (1)       □ (1)         Less Than 50 Feet (20 points)       □ (1)         50 Ft to 99 Ft (10 points)       □ (2)         Greater Than 100 Ft (0 points)       □ (3)         (3)       □ (2)
SITE ASSESSMENT	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'
S	Remarks: Two PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY
ARK	LOCATION IS ON A MESA AT THE BASE OF SOME CLIFFS. REDLINE AND
REMARKS	TOPO CONFIRMED LOCATION TO BE OUTSIDE THE V.Z. PUSH IN
<u> </u>	YOH M

-	ORIGINAL PIT LOCATION
	Original Pit: a) Degrees from North <u>273°</u> Footage from Wellhead <u>227′</u> b) Length: <u>20′</u> Width: <u>19′</u> Depth: <u>3′</u>
ORIGINAL PIT LOCATION	20 227' WELLHEAD 273
REMARKS	Remarks: Took Pictures AT 9:40 A.M.
	END DUMP
	Completed By:
	Col Champson 4.28.94
	Signature Date

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RAL	Meter: 94940 Location: A.L. Ell:0H B#6E
ત્ર	Coordinates: Letter: D Section 10 Township: 29 Range: 9
GE	Or LatitudeLongitude Date Started : <u>5-20-94</u> Area: <u>10</u> Run: <u>22</u>
FIELD OBSERVATIONS	Sample Number(s): \( \frac{\sqrt{W}i27}{\sqrt{Sample Depth: 5'}} \) Feet  Final PID Reading \( \frac{254}{\sqrt{Yes}} \) No  Groundwater Encountered \( \begin{array}{c c} (1) \emptysete{\sqrt{X}} (2) \) Approximate Depth \( \begin{array}{c c} 5' & Feet \\ Yes & No \\ Groundwater \( \begin{array}{c c} (1) & \emptysete{\sqrt{X}} (2) \) Approximate Depth \( \begin{array}{c c} 5' & Feet \\ Yes & No \\ Groundwater \( \begin{array}{c c} (1) & \emptysete{\sqrt{X}} (2) \) Approximate Depth \( \begin{array}{c c} 5' & Feet \\ Yes & No \\ Groundwater \( \begin{array}{c c} (1) & \emptysete{\sqrt{X}} (2) \) Approximate Depth \( \begin{array}{c c} 5' & Feet \\ Yes & No \\ Groundwater \( \begin{array}{c c} (1) & \emptysete{\sqrt{X}} (2) \\ Yes & Approximate Depth \( \begin{array}{c c} 5' & Feet \\ Yes & No \\ Yes & Yes \\
URE	Remediation Method :  Excavation
CLOS	Soil Disposition:  Envirotech (1) (3) Tierra  Other Facility (2) Name:
	Pit Closure Date: 5:20-94 Pit Closed By: 13EI
REMARKS	Remarks: Line mothers. 5' hit rock
12	
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## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

## SAMPLE IDENTIFICATION

-	Field ID		Lab ID			
SAMPLE NUMBER:	VW I	27	94	945261		
MTR CODE   SITE NAME:	94940		N/A IIIS			
SAMPLE DATE : TIME (Hrs):						
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:			5124194			i
ATE OF BTEX EXT. ANAL.:			N/A	ı I		
TYPE   DESCRIPTION:			Brown Course Sand			
REMARKS:	F	RESULTS				
					- ::-	
PARAMETER	RESULT	UNITS	QUALIFIERS			
			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)	1076-107D	July Glaky MG/KG			2.15	28
HEADSPACE PID	254	PPM				
PERCENT SOLIDS	93.1	%				
	- TPH is by EPA Method 41					
Surrogate Recovery was at rative:	NA	% for this samp	e All QA/QC	was accer	otable.	
= Dilution Factor Used						

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

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

74/05/24 10:35

Sample identification 94526I

Initial mass of sample, g 3.150

Volume of sample after extraction, ml 38.000

Petroleum hydrocarbons, ppm 070,863

Met absorbance of hydrocarbons (2930 cm-1)

