DEFUTION 22 : 10-00 TON

Meter Number:89081

Location Name:GARRETT COM #4

Location:TN-29 RG-11 SC-12 UL-A

2 - Federal NMOCD Zone:OUTSIDE Hazard Ranking Score:00 OIL COM. DITT.

Provoved

#### RATIONALÉ 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

· duffero	Meter: 99-081 Location: GARRETT COM #4  Operator #: 0261 Operator Name: Parkert Parker /L District: Brownfield  Coordinates: Letter: A Section 12 Township: 29 Range: //  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 5-19-94 Area: 10 Run: 93							
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  (I)  Fee  (3)  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  Fee (10)  Free (10)  Fee (10)  Fee (10)  Indian  Depth to 99 Ft (10 points)  Fee (10)  F							
REMARKS	Remarks: Two PITS ON LOCATION, ONE PIT TO BE CLOSED							
RI	Pust- Int							

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 34091 Location: Section 12 Township: 29 Range: 1/  Or Latitude Longitude  Date Started: 6-20-94 Area: 10 Run: 43							
FIELD OBSERVATIONS	Sample Number(s): 1.1.220  Sample Depth: 5 Feet  Final PID Reading 17 PID Reading Depth 5 Feet  Yes No  Groundwater Encountered (1) (2) Approximate Depth Feet							
CLOSURE	Soil Disposition:  Envirotech (1) (3) Tierra  Other Facility (2) Name:  Pit Closure Date: 1-20-944 Pit Closed By: 1577							
SARVAGO	Remarks: No live Market's 5' Sand Stone  Signature of Specialist: Nat William							



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

	Field	ID		Lab ID		
SAMPLE NUMBER:	VW 220		945479			
MTR CODE   SITE NAME:	89081		N/A			
SAMPLE DATE   TIME (Hrs):	6-20-94		0920			
SAMPLED BY:	N/A					
DATE OF TPH EXT.   ANAL.:	6/2/194		6/21/94			
DATE OF BTEX EXT.   ANAL.:			NIA			
TYPE   DESCRIPTION: VG			GRAY/SAIL/ CLAY			
REMARKS:						
		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG		<del></del>		
ETHYL BENZENE		MG/KG			_	
TOTAL XYLENES		MG/KG		<del>_</del> _	_	
TOTAL BTEX		MG/KG				
TPH (418.1)	<del>50</del> 522	101) 6/22/94 MG/KG			2.03	28
HEADSPACE PID	17	PPM				
PERCENT SOLIDS	90,5	%				
	- TPH is by EPA Method 4					
The Surrogate Recovery was at Narrative:	NIA	% for this sample	All QA/QC	was accep	table.	

DF = Dilution Factor Used

Approved By:

74/06/21 13:18

Sample identification

Thitial mass of sample, 3 2.030

Volume of sample after extraction, ml 28.000

Fetroleum hy<mark>drocar</mark>bens. p<mark>pm</mark> 32.206

Met absorbance of by irocarbons (2930 cm-1)

0.005

