Denny S. Fourt
DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1997

Location Name:TAPP 2E
Location:TN-28 RG-08
SC-16 UL-E
2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

Meter Number: 94545

DECEIVED III APR 1 4 1997

01L 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.

# EPFS

## FIELD PIT SITE ASSESSMENT FORMEL PASOFIE

GENERAL	Meter: 94545 Location: TAPP 2E  Operator #: Dans Operator Name: AMOCO P/L District: Blanca  Coordinates: Letter: E Section 16 Township: 28 Range: 8  Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5/20/44 Area: 13 Run: 62				
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  The points is a series of the points in				
ASSESSMENT	Greater Than 100 Ft (0 points) (3)  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) (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	TOTAL HAZARD RANKING SCORE: O POINTS				
ARK	Remarks: Redine + Volut Outside  3pits. Close 1. Pit Dry				
REMARKS	PUSH-IN				

### FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94545 Location: TAPP J E  Coordinates: Letter: E Section 16 Township: 18 Range: 8  Or Latitude Longitude Longitude Date Started: 7-29-941 Run: 13 62				
FIELD OBSERVATIONS	Sample Number(s): MK195  Sample Depth: 4' Feet  Final PID Reading 253 PID Reading Depth 4 Feet  Yes No  Groundwater Encountered \( \boxed{\text{X}} \) Approximate Depth Feet				
CLOSURE	Remediation Method:  Excavation				
REMARKS	Remarks: FPNG   INCS Marked Soil Brown Sand St. 94+  HYDro carbon odor Hit Sand Stone 4'   1096 Back Fill  Signature of Specialist: Margan Killian  (SP3191) 03/16/94				



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

	Field ID	Lab ID	
SAMPLE NUMBER:	MK 195	945793	
MTR CODE   SITE NAME:	94545	N/A	
SAMPLE DATE   TIME (Hrs):	7-29.94	1122	
SAMPLED BY:	N/A		
DATE OF TPH EXT.   ANAL.:	87,94	8/2/94	
DATE OF BTEX EXT.   ANAL.:	N/A	٨/٨	
TYPE   DESCRIPTION:	16	Lt. Brown Garse Sand	
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### **RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
TANAMETER			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)	28.9	MG/KG			2.13	28
HEADSPACE PID	253	PPM				
PERCENT SOLIDS	93.5	%				· · · · · · · · · · · · · · · · · · ·

The Surrogate Recovery was at Nipper Method 418.1 and BTEX is by EPA Method 8020 —

\*\*Marrative:\*\*

\*\*TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 —

\*\*Method 8020 —

\*\*Method 418.1 and BTEX is by EPA Method 8020 —

\*\*Method 8020 —

DF = Dilution Fac	ctor Used		,
	$\downarrow \downarrow$	_	8/0/01
Approved By:		Date:	91444

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