Denny & Fourt
DEPUTY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number:95894
Location Name:LAWSON #1A
Location:TN-30 RG-08
SC-10 UL-E
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

RECEIVED

APR 1 4 1997

L 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.

L PASO FIELD SERVICES

# FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 95894 Location:LAWSON #1A  Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD  Coordinates: Letter: & Section 10 Township: 30 Range: 8  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: \$\frac{5.23.94}{94}\$ Area: 10 Run: 32			
ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  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?  [1) YES (20 points)  [2) (1) YES (20 points)  [3] (1) State  [4] (2)  State  [5] (3)  State  [6] (3)  Fee  [7] (3)  State  [9] (3)  Fee  [9] (3)  For indian  State  [9] (3)  Fee  [9] (4)  Fee  [9] (4)  Fee  [9] (5)  Fee  [9] (6)  Fee  [9] (7)  Fee  [9] (8)  Fee  [9] (9)  Fee			
SITE ASS	Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)			
S				
REMARKS	Remarks: Four PITS ON LOCATION, WILL CLOSE ONLY ONE, PIT IS DRY. LOCATION IS ON TOP OF PUMP MESA, REDUNE AND TOPO CONFIRED			
MA.	LOCATION IS OUTSIDE V.Z.			
RE	Push IN			
	1 \ \ (SP3190) 04/08/94			

	ORIGINAL PIT LOCATION	-
ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North 38 Footage from Wellhead 68 b) Length : 13' Width : 12' Depth : 3'	, 
	SOO (1)	
REMARKS	Remarks: Took Pictures at 12:57 P.M. END DUMP	_
		<b>-</b> -
		_ _ _
		_ _ _
	Completed By:	
	Falest Champson 5:23.94	
	Signature Date	

/mm=100m\ m1/m7/m1

# FIELD PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 95894 Location: Lawson # 1/3  Coordinates: Letter: E Section 10 Township: 30 Range: 8  Or Latitude Longitude  Date Started: 13.91 Area: 10 Run: 32
FIELD OBSERVATIONS	Sample Number(s): \( \frac{\sqrt{\sq}}}}}}}}}\sespindsept\signglet{\sqrt{\sqrt{\sqrt{\sqrt{\synt{\sqrt{\synt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}\sespindsept\signgta\sig
CTOSTIRE	Soil Disposition:  Envirotech (1) (3) Tierra  Other Facility (2) Name:  Pit Closure Date: 6-13-94 Pit Closed By: REI
Tanana C	Remarks: EPNG Inc. Markers. Amoro Rosshabert Crew on beating Digstallar a seperator Inc. Amoro Forming Soil 6' From EPNG Pit. 5' Sandstone.  Signature of Specialist: Vale Wilson  (SP3191) 04/07/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

## SAMPLE IDENTIFICATION

	Field ID	Lab ID	
SAMPLE NUMBER:	vw 198	945441	
MTR CODE   SITE NAME:	95894	N/A	
SAMPLE DATE   TIME (Hrs):	6-13-94	1345	
SAMPLED BY:	N/A		
DATE OF TPH EXT.   ANAL.:	6/16/94	10/16/94	
DATE OF BTEX EXT.   ANAL.:	NIA	NIA	
TYPE   DESCRIPTION:	V G-	Lt Brown Fine Sand/Cl	

REMARKS:
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### **RESULTS**

PARAMETER	RESULT	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)	210	MG/KG			2.07	28
HEADSPACE PID	D	PPM				····
PERCENT SOLIDS	96.1	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -					
N/A	% for this sample	All QA/QC was acceptable.			

**OF = Dilution Factor Used** 

Varrative:

The Surrogate Recovery was at

Pos

7/M/GU

0

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Test Method for Oil and Grease and Petroleum H frocarbons in Water and Soil

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

74/06/16 13:44

Bample identification

Tribial mass of sample, g

Tolume of sample efter axtraction, al

Febroleum hydrocartons, ppm 15.727 MeA absorbance of hydrocardons (2970 cm-1) 1.001



