Denny & Fruit
DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1997 Locatio

Meter Number: 75231
Location Name: NEW MEXICO B COM #1 (Pit #1)
Location: TN-27 RG-09

SC-32 UL-P 1 - State

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

Appreced

### 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<sup>-9</sup> to 10<sup>-13</sup> cm/sec Shale 10<sup>-12</sup> to 10<sup>-16</sup> cm/sec Clay 10<sup>-12</sup> to 10<sup>-15</sup> 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.

#### Meter Number:75231 75231-2 Location Name:NEW MEXICO B COM #1 (Pit #2)

Location:TN-27 RG-09
SC-32 UL-P
1 - State
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

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## FIELD PIT SITE ASSESSMENT FORM

	GENERAL	Meter: 7523 Location: New Mexico R.Com   Operator #: 2999 Operator Name: Mendian P/L District: Relland Coordinates: Letter: P Section 32 Township: 27 Range: 9 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6-14-94 Area: 1/ Run: 3/
SITE ASSESSMENTER		NMOCD Zone:  (From NMOCD  Maps)  Inside Outside  Outside
REMARKS	F	Remarks: Three pits. Dehy pit Vry. Drup put to De. Closed also - see other assessment Outside V.Z. on Redline & Topp

	ORIGINAL PIT LOCATION
N	Original Pit : a) Degrees from North Z88 Footage from Wellhead 206 b) Length : Depth :
ORIGINAL PIT LOCATION	12' ZOG' 288° Wellhead
	Remarks: Plotos - 0900
REMARKS	Bolstul
,	
	Completed By:
	1-hatt 6-14-94

Date

Signature

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: ZSZ31 Location: N·M, B Com 1 775 (P, +#1)  Coordinates: Letter: P Section 32 Township: 27 Range: 9  Or Latitude Longitude  Date Started: 9-8-94 Run: 11 31
FIELD OBSERVATIONS	Sample Number(s): \( \subseteq \subseteq 5 \subseteq \si
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks :
	Signature of Specialist: Vale Julyen

# FIELD SERVICES LABORATORY ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

### SAMPLE IDENTIFICATION

			11014		<del></del>	
	Field	i ID		Lab ID		
SAMPLE NUMBER:	15231 7:+ 2 9-8-91		946070 N/A			
MTR CODE   SITE NAME:						
SAMPLE DATE   TIME (Hrs):						
SAMPLED BY:	N/A					
DATE OF TPH EXT.   ANAL.:	9/13/94 N/A VG		9//3/94 N/A			
DATE OF BTEX EXT.   ANAL.:						
TYPE   DESCRIPTION:			1 (7 B)	Lt Brown Sand/C/Ay		
REMARKS:						
		RESULTS				
			1	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
PARAMETER	RESULT	UNITS	QUALIFIERS			
		Juil 9/14/94 MG/KG	DF	<u> </u>	M(g)	V(ml)
TPH (418.1) 160	1163.4	MG/KG			2.17	28
HEADSPACE PID	270	РРМ				
PERCENT SOLIDS	88.0	%	1			
		TPH is by EPA Metho	od 418.1			
rrative:						
= Dilution Factor Used						

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

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

94/09/13 13:31

Sample identification 946070

Initial mass of sample, q 1.170

Volume of sample after extraction, ml 38.000

Petroleum hydrocarbons, ppm

1163.402

Net absorbance of hydrocarbons (2930 cm-1) 164

