Denny & Toutocation
DEPUTY ON & GAS INSPECTOR

DEC 2 9 1997

Meter Number:95598 95599 ocation Name:SAN JUAN 27-5 UNIT 97M

Location:TN-27 RG-05

SC-31 UL-D 2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

DECEIVED N APR 1 4 1997

OIL CON. DIV.

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.



## FIELD PIT SITE ASSESSMENT FORM

no santo megalintri kanpangi ni saman oko o monoko menengangan norong ni ni ang nasarko dan sekero meneng nang

GENERAL	Meter: 9598 (M) Location: SanJaun 27-5 Unit 97M  Operator #: A999 Operator Name: MDI P/L District: Blanca  Coordinates: Letter: D Section 3 Township: 27 Range: 5  Or Latitude Longitude  Pit Type: Dehydrator / Location Drip: Line Drip: Other:  Site Assessment Date: 6/3/94 Area: 03 Run: 5					
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  Feet  (2)  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?  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  (3)  Horizontal Distance to Surface Water Body  Less Than 200 Ft (10 points)  (2)  Greater Than 1000 Ft (10 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'  TOTAL HAZARD RANKING SCORE:  □ POINTS					
S	Remarks: ledtine-thide					
REMARKS	2 ins. Wilclose I. PirDay					
EW.						
24	-1- PUSH-IN (SP3190) 04/08/94					

	ORIGINAL PIT LOCATION	
Z	Original Pit : a) Degrees from North <u> </u>	read <u>121</u>
ORIGINAL PIT LOCATION	Wellhead Wellhead	
REMARKS	Remarks:  Picture (@ 145b (2)-25)  End Dump	
	Completed By:	
	Signature Date	
		031000\ 04/07/04

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 95598  Meter: 95599  Location: San John 27-5 Unit 97m  Coordinates: Letter: D. Section 31 Township: 27 Range: 5  Or Latitude Longitude  Date Started: 9-6-94 Run: 03 5/
FIELD OBSERVATIONS	Sample Number(s): $f\omega^2uy$ Sample Depth: $5$ Feet  Final PID Reading $272$ PID Reading Depth $5$ Feet  Yes No  Groundwater Encountered $\square$ Approximate Depth $\square$ Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: 27 anders Budifill, 5' sundatione  Signature of Specialist: Vale Wilse,  (SP3191) 03/16/94



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

SAMPLE IDENTIFICATION											
	Field ID		Lab ID								
SAMPLE NUMBER:	vw 24.		946056								
MTR CODE   SITE NAME:	95598 / 95599		N/A								
SAMPLE DATE   TIME (Hrs):	9-6-9		1030								
SAMPLED BY:		N/A									
DATE OF TPH EXT.   ANAL.:	9/8/9	ry	9/8/94								
DATE OF BTEX EXT.   ANAL.:	N/W		LIGHT BROWN SAUC + JANE								
TYPE   DESCRIPTION:	VG		MOHT BI	4010/N 3/4.02	( + Jnille)	TUNG					
REMARKS:											
		RESULTS									
PARAMETER	RESULT	UNITS	QUALIFIERS DF Q M(g			V(ml)					
TPH (418.1)	11,800	MG/KG			.76	28					
HEADSPACE PID	272	PPM				**					
PERCENT SOLIDS	87.2	%									
		TPH is by EPA Method	418.1								
Narrative:											
DF = Dilution Factor Used											
				ala Jad							
Approved By:			Date:	9/20/44							

74/09/08 15:48

Sample identification 946056

Initial mass of sample, g 0.760

Volume of sample after extraction, ml 28.000

Petroleum hydrocarbons, ppm :1800.330 Net absorbance of hydrocarbons (

Net absorbance of hydrocarbons (2930 cm-1)

