DEPUTY OIL & GAS MAPESTOR

DEC 22 1997

Meter Number:92155
Location Name:JOHN F. SHAW #1
Location:TN-30 RG-09
SC-14 UL-B
2 - Federal
NMOCD Zone:OUTSIDE

PEGEIVED APR 1 4 1587 D OIL GOID, DAVA

#### RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

Hazard Ranking Score:00

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



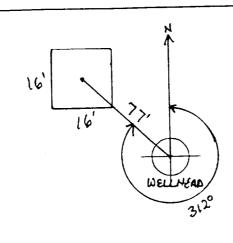
GENERAL	Meter: 92155 Location: F. SHAW #   Operator #: 0203 Operator Name: Awocd P/L District: Aztre  Coordinates: Letter: B Section_14 Township: _30 Range: 9  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: _2.8.95						
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  (From NMOCD  Maps)  Inside  Outside  Outside  Outside  (2)  Indian  Depth to Groundwater  Less Than 50 Feet (20 points)						
REMARAS	Remarks: REDLINE : 7000 SHOW LOCATION OUTSIDE V.Z. DALY PIT ON "THIS" LOCATION. BELOINGS TO EPNG. WILL CLOSE PIT.						
R	SP3190) 04/08/94						

REMARKS

## ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 312° Footage from Wellhead 77'

b) Length : 16 Width : 16 Depth : 2'



Remarks:	

Completed By:

Signature

2.8.95

Date

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 92155 Location: John F. Shaw to 1  Coordinates: Letter: B. Section 14 Township: 30 Range: 9  Or Latitude Longitude  Date Started: 2-24-95 Run: 04 92								
FIELD OBSERVATIONS	Sample Number(s): P30  Sample Depth: 6' Feet  Final PID Reading 387  Yes No  Groundwater Encountered								
URE	Remediation Method :  Excavation								
CLOS	Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 2-24-95  Pit Closed By: B.E.T.								
REMARKS	Remarks: Some Line markers dug A Test hole . Hit sand STONE At 6' SAMPled Closed Pit. Soil dark gray with A H.C ORdor.								
	Signature of Specialist: Kelly Palile (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: KP 430			944704			
MTR CODE   SITE NAME:	92155		<u> </u>	N/A		
SAMPLE DATE   TIME (Hrs):	2-24-95		1230			
SAMPLED BY:	N/A					
DATE OF TPH EXT.   ANAL.:	2-28-	2-28-95 NIA		2-28-95 N/A		
ATE OF BTEX EXT.   ANAL.:	Ala					
TYPE   DESCRIPTION:	VG		Light crycy sand of Cay			
REMARKS:						
	R	ESULTS				
PARAMETER	RESULT	UNITS	DF	QUALIF	IERS M(g) V(i	mi)
TPH (418.1)	17000	MG/KG			0.44/ 28	>
HEADSPACE PID	387	PPM				- 3
PERCENT SOLIDS	81.9	%				
		TPH is by EPA Metho	od 418.1			
rrative:						
= Dilution Factor Used						

7899

= \$CH4

