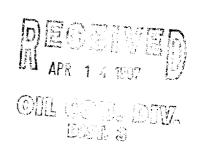
DEPUTY OH & GAS INSHECTED

DEC 29 1947

Approved

Meter Number:93430
Location Name:FEDERAL COM A#4
Location:TN-25 RG-06
SC-35 UL-M
2 - Federal
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

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.

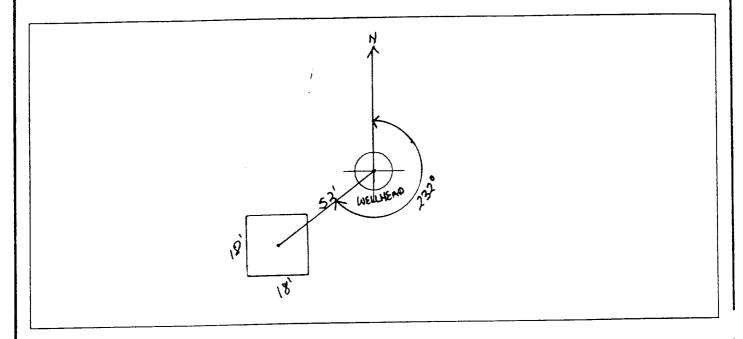
Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

### FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 93430 Location: FEDERAL COM A#4  Operator #: Operator Name: Kimasul OIL P/L District:  Coordinates: Letter: M_ Section_35 Township: _25 Range: _6  Or				
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  (From NMOCD  Maps)  Inside  Outside  (2)  Noutside  (2)  Indian  Depth to Groundwater  Less Than 50 Feet (20 points)  (1)  50 Ft to 99 Ft (10 points)  (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?  (1) YES (20 points)  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  (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream  (1) < 100'(Navajo Pits Only)				
REMARAS	Remarks: REDUNE SHOWS INSIDE BUT TOPO SHOWS LOCATION OUTSIDE V.Z.				
R	PUSH /M (SP3190) 04/08/94				

### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 232° Footage from Wellhead 52'



	Remarks: Photos-0948
KEMAKKS	

Completed By:

Signature

2.7.95

Date

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93430 Location: Federal Com A #4  Coordinates: Letter: M Section 35 Township: 25 Range: 6  Or Latitude Longitude  Date Started: 3-14-95 Run: 06 52				
FIELD OBSERVATIONS	Sample Number(s): KP 438  Sample Depth: Feet  Final PID Reading 288  Yes No  Groundwater Encountered Approximate Depth Feet  Feet				
CLOSURE	Remediation Method:  Excavation				
REMARKS	Remarks: Some Line markers dug A Test hole To  Sampled. Soil Hit sayd Stade At 6' Closed Pil.  Signature of Specialist: Lelly Padilla				



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

#### SAMPLE IDENTIFICATION

	SAMPLE	DENTIFICA	TION				
	Field I	ID		Lab ID			
SAMPLE NUMBER:	KP 438	)	946725				
MTR CODE   SITE NAME:	93430			N/A			
SAMPLE DATE   TIME (Hrs):	3-14-9		1200				
SAMPLED BY:		N/A					
DATE OF TPH EXT.   ANAL.:	3/23/95	s	3/23	3/23/95			
DATE OF BTEX EXT.   ANAL.:	NIA			NIA			
TYPE   DESCRIPTION:	16		grey sm	d and c	laz		
REMARKS:RESULTS							
PARAMETER.	RESULT	UNITS	DF	QUALIF Q	IERS M(g)	V(ml)	
TPH (418.1)	3370	MG/KG			2.00	28	
HEADSPACE PID	288	PPM					
PERCENT SOLIDS	85.0	%					
		TPH is by EPA Meth	od 418.1				
arrative:							
F = Dilution Factor Used							

pproved By:	33.	 Date: _	3-24-99	<u> </u>

Test Me .od for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report \* 95/03/23 09:05 Sample identification 946725 Initial mass of sample, g 2.000 Volume of sample after extraction, ml

28,000

Retroleum hydrocarbons, ppm 3369 236 Vet absorbance of hydrocarbons (29%) cm-1) 1,418

