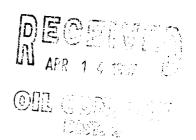
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Affroned

Meter Number: 95363
Location Name: SALAZAR #8 CH
Location: TN-25 RG-06
SC-23 UL-K
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

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

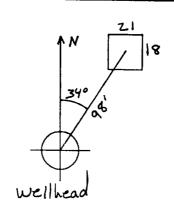
j								
GENERAL	Meter: 95363 Location:							
	ATMOOD 7							
	NMOCD Zone: Land Type: BLM (1)							
}	(From NMOCD State (2)							
	Out-id-							
	Outside (2) Indian							
E ASSESSMENT	Depth to Groundwater							
	Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2)							
	Greater Than 100 Ft (0 points) (2)							
	Wellhead Protection Area:							
	Is it less than 1000 ft from wells							
	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 page 2 (1)							
	domestic water source? (1) YES (20 points) (2) NO (0 points)							
	Horizontal Distance to Surface Water Body							
	Less Than 200 Ft (20 points)     (1)							
SITE	200 Ft to 1000 Ft (10 points) (2)							
01	Greater Than 1000 Ft (0 points) 🗵 (3)							
į	Name of Surface Water Body							
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks,							
	"Tigation Canals, Ditches, Lakes, Ponds)							
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)							
	$\square (2) > 100'$							
(0)	TOTAL HAZARD RANKING SCORE: POINTS							
REMARKS	Remarks: Redline V.z outside Topo V.z outside							
MA	Three pits. Two to be closed -dry							
RE	Three pris. TWO TO BE CIOSEN - XTY							
	The second secon							

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#### ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 34 Footage from Wellhead 98

b) Length: 21 Width: 18 Depth: 3



#### Remarks:

Photos - Roll 7 #11-14

REMARKS

Completed By:

Signature

7-21-94

Date

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>95363</u> Location: <u>Sakzer #8</u> Coordinates: Letter: <u>K</u> Section <u>23</u> Township: <u>25</u> Range: <u>6</u> Or Latitude Longitude  Date Started: <u>10-7-40</u> Run: <u>06</u> 62							
FIELD OBSERVATIONS	Sample Number(s): \( \frac{\sqrt{387}}{\sqrt{9}} \)  Sample Depth: \( \frac{\sqrt{9}}{\sqrt{9}} \)  Feet  Final PID Reading \( \frac{199}{\sqrt{9}} \)  Yes No  Groundwater Encountered \( \sqrt{1} \)  Approximate Depth \( \frac{1}{\sqrt{9}} \)  Feet							
CLOSURE	Remediation Method:  Excavation							
REMARKS	Remarks: 4'sondstone Zoyds Fill							
	Signature of Specialist: Wale Wasen (SP3191) 03/16/94							



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

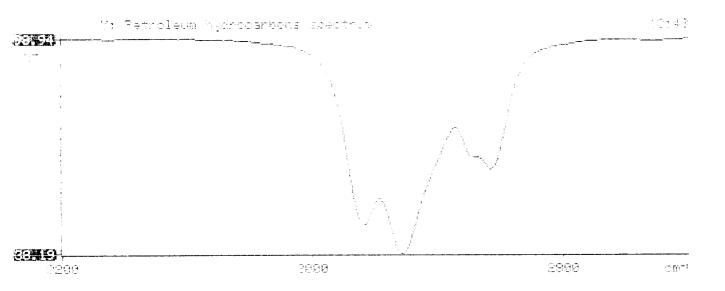
### PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFICA'	TION						
	Field ID			Lab ID					
SAMPLE NUMBER:	VW 38.	946369							
MTR CODE   SITE NAME:	9530	N/A							
SAMPLE DATE   TIME (Hrs):	10 - 7 - 6	1230							
SAMPLED BY:	N/A								
DATE OF TPH EXT.   ANAL.:	10-13-94								
DATE OF BTEX EXT.   ANAL.:	カーダ		N IA						
TYPE   DESCRIPTION:	VG		Light frown sand & clay						
RESULTS									
PARAMETER	RESULT	UNITS	DF	QUALIF	M(g)	V(ml)			
TPH (418.1)	4180	MG/KG			1.58	28			
HEADSPACE PID	199	PPM							
PERCENT SOLIDS	90.6	%							
		TPH is by EPA Metho	od 418.1						
arrative:									
F = Dilution Factor Used									

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report P4/10/13 13:42 Sample identification 746369 Initial mass of sample, g ..580 Volume of sample after extraction, ml 00.000 Petroleum hydrocarbons, ppm 11/31,042

Met absorbance of hydrocarboas (2730 cm-1)

413



# ILLEGIBLE