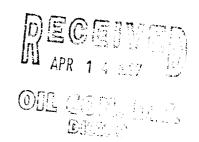
DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1997

Meter Number:95361 Location Name:SALAZAR #8 PC 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

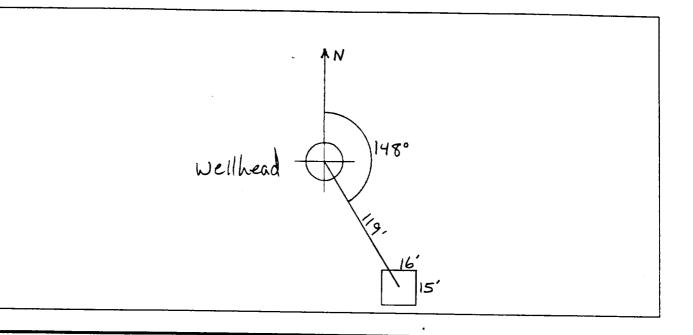
ZAI.	Meter: 9536/ Location: Salazar #8 DC Operator #: 5646 Operator Name: C / Hala Da Constant
自	Operator #: 5646 Operator Name: CLittle P/L District: Ovito Coordinates: Letter: K Section 23 T
GENERAL	Coordinates: Letter: K Section 23 Township: 25 Range: 6W
	Pit Type: Dehydrator Location Drin: V Line Dring
	Site Assessment Date: 7-21-94 Area: 06 Run: 52
<b> </b>	
	NMOCD Zone: Land Type: BLM [] (1)
	$\begin{array}{ccc} \text{Maps} & \text{State} & \boxtimes (2) \\ \text{Maps} & & \square (1) \end{array}$
	Outside (1) Fee (3)
	indian
	Depth to Groundwater Less Than 50 Feet (20 points) [ (1)
	Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2)
İ	Greater Than 100 Ft (0 points) (3)
<b>—</b>	Wellhead Protection Area:
EN	Is it less than 1000 ft from wells, springs, or other
SSM	I HOUR WOLL CAUGUION' OF 1 10 of loop Il OOO of a
ASSESSMENT	domestic water source? (1) YES (20 points) (2) NO (0 points)
AS	Horizontal Distance to Surface Water Body
ITE ,	Less Indn 200 Ft (20 points)     (1)
SIT	200 Ft to 1000 Ft (10 points) (2)
1	Greater Than 1000 Ft (0 points) 🛛 (3)
1	Name of Surface Water Body
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
1	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)
1	(1) < 100'(Navajo Pits Only)
- 1	$\square (2) > 100'$
<u>(2)</u>	TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: Redline V.Z outside Topo VZ -outside
MA.	Three pits-two to be closed-dry
R	THE COLOSEN - UTV

# ORIGINAL PIT LOCATION

#### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 148 Footage from Wellhead 119

b) Length: 16 Width: 15 Depth: 3



	·	- Roll 7			
f	Sump truc	K - 10%	grade o	iccess to we	2/
			·		
					· · · · · · · · ·
			3		
<del></del>					<del></del> -

Completed By:

Signature

7-21-44

Date

## FILLD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 9536/ Location: Selection 23 Township: 25 Range: 6  Or Latitude Longitude  Date Started: 10-7-94( Run: 06 52
FIELD OBSERVATIONS	Sample Number(s):



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

	SAMPLE	IDENTIFICA	TION								
	Field	ID		Lab ID							
SAMPLE NUMBER:	VW 39	b le	9463								
MTR CODE   SITE NAME:	9535	e l									
SAMPLE DATE   TIME (Hrs):	10 - 7 - 9	1	120								
SAMPLED BY:			/A								
DATE OF TPH EXT.   ANAL.:	TE OF TPH EXT.   ANAL.: 10-13-94										
DATE OF BTEX EXT.   ANAL.:	NIN	Brown Soud + Clay									
TYPE   DESCRIPTION:	VG		Mount >	and f	184						
REMARKS:RESULTS											
PARAMETER	RESULT	UNITS	DF	QUALIF Q	IERS M(g) V(ml)						
TPH (418.1)	3040	MG/KG			1.98 28	╣					
HEADSPACE PID	201	PPM				-					
PERCENT SOLIDS	89.0	%									
		TPH is by EPA Meth	od 418.1								
Varrative:											
OF = Dilution Factor Used											

\*

Test Method for

Oil and Grease and Petroleum Hydrocarbons

in Water and Soil

\*

94/10/13 11:40

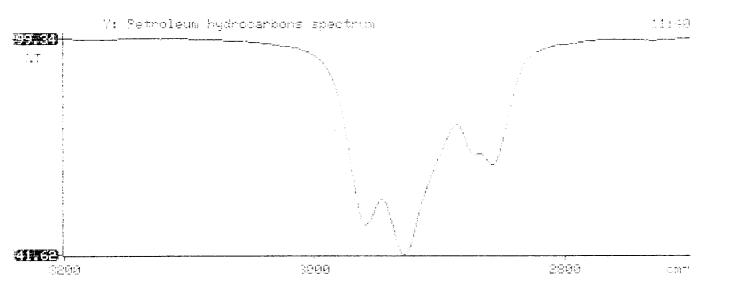
Sample identification :46368

Initial mass of sample, g

Volume of sample after extraction. ml 18.000

Petroleum hydrocarbons, ppm 1043.364

Net absorbance of hydrocarbons (2930 cm-1)



# ILLEGIBLE