LEGION CLEGGE THEOTOR

DEC 2 6 1997

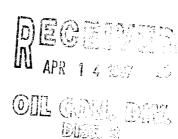
Meter Number:73454
Location Name:MEXICO FEDERAL N #1

Location:TN-29 RG-11 SC-15 UL-F

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.

	•	<u>.</u>	
Original Pit : a) b)	ORIGINAL PIT Degrees from North Length : Wi	T <b>LOCATION</b> 1 :300° Footage from dth :8 Depth	:0"
	300°C	<del>)</del>	
Remarks :			
Completed By:			
Manul L.	Chary	5/12/94 Date	

## FIELD PIT REMEDIATION/CLOSURF FORM

GENERAL	Meter: 73454 Location: Mexico Federal N-#/  Coordinates: Letter: E Section 15 Township: 29 Range: //  Or Latitude Longitude  Date Started: 5/12/94 Area: 02 Run: 53
FIELD OBSERVATIONS	Sample Number(s): MLC 4  Sample Depth: Feet  Final PID Reading PID Reading Depth Feet  'es No  Groundwater Encountered  (1)  (2) Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Other Facility (2) Name:  Pit Closure Date: 5/12/94 Pit Closed By: £PNG  Remarks: Pit was completely silted in with  we getation growing inside
REM	Signature of Specialist: Manual L. Uhawy

(SP3191) 04/07/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

	OAMII EE					
	3/17/94 Field	ID		Lab ID	-	
SAMPLE NUMBER:	2/5741	- mcc4	- 1717	111194	94514	1
MTR CODE   SITE NAME:	731/52		N/A			
SAMPLE DATE   TIME (Hrs):	5-12-94		1430			
SAMPLED BY:	<u> </u>	A = 11/	101			
DATE OF TPH EXT. ANAL.:	5/16/94		5/16/94			
DATE OF BTEX EXT.   ANAL.:	PIA		<i>λ/n</i>			
TYPE   DESCRIPTION: [	VG		Brown Sond & Clay			
REMARKS:						
		RESULTS				
DADAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETER	RESULT	UNITS	DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	<del>430</del> 433	MG/KG MG/KG			2.09	38
HEADSPACE PID	1480	PPM				<del></del>
PERCENT SOLIDS	86,2	%				
he Surrogate Recovery was at larrative:	- TPH is by EPA Method 4	18.1 and BTEX is by EPA N		was accep	otable.	
OF = Dilution Factor Used Approved By:	Euroli'		Date:	6/15/	194	

Test Method for Oil and Grease and Petroleum Hydrocarbons Ż in Water and Soil \* Ferkin-Elmer Model 1600 FT-IR 清 Analysis Report 24/05/14 12:35 Sample identification patiat Initial mass of sample, g Poltame of sample after extraction, no 15,000 - Patroleum trorecanocis, ppm Thio74 The Absorbance of troincantons (1987) in Ali 1986

