#### Meter Number:94713

#### Location Name: GALLEGOS CANYON UNIT #85E

DEC 3 9 Res7

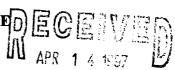
Approved

Location:TN-28 RG-12 SC-19 UL-I

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: 947/3 Location: Adly Cayon Wit #858 Operator #: 0203 Operator Name: Amaco P/L District: Poly Coordinates: Letter: I Section 13 Township: 18 Range: 12 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6-30-94 Area: 01 Run: 32				
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Land Type: BLM X (1)  State □ (2)  Fee □ (3)  Indian □ (1)  Indian				
SITE 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) ☒ (3)				
	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) ☒ (2) NO (0 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: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)  (2) > 100'  TOTAL HAZARD RANKING SCORE: POINTS				
S	Remarks:				
REMARKS					
REM					

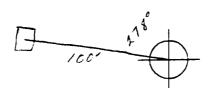
(SP3190) 04/08/94

REMARKS

## ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 278 Footage from Wellhead 100

b) Length : \_\_\_\_\_\_\_ Width : \_\_\_\_\_\_\_ Depth : \_\_\_\_\_\_\_



Remarks:

----

\_\_\_\_\_

Completed By:

\_\_\_\_\_\_\_Signature

6-30-94

Date

## FIELD PIT REMEDIATION/CLOSURF FORM

GENERAL	Meter: 94713 Location: Lallega Compa 11.7 # 85E  Coordinates: Letter: I Section 19 Township: 28 Range: 12  Or Latitude Longitude Longitude Date Started: 6-30-94 Area: 01 Run: 32
FIELD OBSERVATIONS	Sample Number(s):
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: pit sandy and day with me hydrocadan adar.  Signature of Specialist: C.C. Aliskman

(SP3191) 04/07/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CV46	945577
MTR CODE SITE NAME:	94713	N/A
SAMPLE DATE   TIME (Hrs):	6-30-94	1312
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	7/7/94	7/7/94
DATE OF BTEX EXT.   ANAL.:	N A	ν / <sub>Φ</sub>
TYPE   DESCRIPTION:	16	Ceans Brown Sand

REMARKS: Needs PID

### **RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
			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)	330	MG/KG			2.05	28
HEADSPACE PID	1340	PPM				
PERCENT SOLIDS	92.5	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -

- 1 Fill 18 by Ci Aleidalida 410.7 alia bi batto by at Aleidalida 4025							
The Surrogate Recovery was at Narrative:	NA	% for this sample	All QA/QC was acceptable.				
OF = Dilution Factor Used	Λ						
Approved By:	Polid.		Date: 7/14/9K				

Test Method for Oil and Grease and Petroleum Hydrocarbons \* \* in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 24/07/07 14:39 Sample identification 145577 Tritial h<mark>ass</mark> of sample, g .050 Valume of sample fits extraction, al-16.000 Petroleum hydrocarones pom UTS.34: THE RESERVE AREA OF THE SECRETARIES (POWER SEC.) . - 1 1 7 n Partition (L. Carona in Consideration of trae 3230