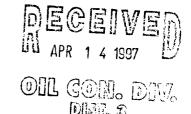
SETUTION A CASTA TO A

Wicke

Meter Number:94106
Location Name:State Com AI #33E
Location:TN-27 RG-09
SC-32 UL-N
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



GENERAL	Meter: 94106 Location: STATE COM AT #33E  Operator #: 0286 Operator Name: Conoco P/L District: BALIAPO  Coordinates: Letter: N Section 32 Township: 27 Range: 9  Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 8.29-95 Area: 11 Run: C1(31)						
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Land Type:  BLM  State  (2)  Fee  (3)  Indian  Indian						
	Depth to Groundwater  Less Than 50 Feet (20 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) (2) NO (0 points)						
	Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)						
	(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. L.	Remarks: REDLINE & TOPO SHOW LOCATION OUTSIDE V.Z. DNLY PIT AT THIS LOCATION, IT IS A LOCATION DRIP AND BELONGS TO EPAG. WILL CLOSE						
REMAT	PIT. PUSH IN						

N	ORIGINAL PIT I Original Pit : a) Degrees from North b) Length :14' Width	•
ORIGINAL PIT LOCATION	WELLHEM	39'
	Remarks: PHOTOS-1342	
REMARKS		
RI		
	Completed By:	
	$\sum_{i} t_{i} \mathcal{A}(i)$	9 29.95
	Signature .	<u>8.29.9S</u> Date

(SP3190R) 04/07/94

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94/06 Location: STATE COM AT 33 E  Coordinates: Letter: N Section 32 Township: 27 Range: 9  Or Latitude Longitude Longitude Date Started: 10-13-75 Run: 11 CI (31)
FIELD OBSERVATIONS	Sample Number(s): 14K 498  Sample Depth: 8' Feet  Final PID Reading 415 PPM PID Reading Depth 1 Feet  Yes No  Groundwater Encountered X Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: Pit Had I OF water & oil ON It  Dug sample How Hole Soil was Greenish with strong Hydrocarbon odor Hit Rock 8'
	Signature of Specialist: Morga Xieeion (SP3191) 03/16/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

#### SAMPLE IDENTIFICATION

		·					
	Field	d ID			7		
SAMPLE NUMBER:	MK 498		947652				
MTR CODE   SITE NAME:	94106		State Com AI #33E			]	
SAMPLE DATE   TIME (Hrs): 10 - 13-95			1342			_	
PROJECT:	PhaseI						
DATE OF TPH EXT.   ANAL.:	(0	18-95		<u> </u>			
TYPE   DESCRIPTION:				light hown sons toldy			
REMARKS:		RESULTS					
PARAMETER	RESULT	UNITS	DF	QUALIFIERS DF Q M(g) V(ml)			
TPH (418.1)	1270	MG/KG			2.07	28	
HE. DSPACE PID	415	PPM					
PERCENT SOLIDS	90.1	%		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u></u>	
		TPH is by EPA Metho	d 418.1				
Narrative:				<del></del>			
DF = Dilution Factor Used				-,			
Approved By:			Date:/	(U • .) S	95-	·····	

\* Test Method for ž Oil and Grease and Petroleum Hydrocarbons × in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report \* 95/10/18 13:48 Sample identification 947652 Initial mass of sample, q 0.070 Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 1265.141 Net absorbance of Evdrocarbons (2930 cm-1)

