Denny & Fourt
DEPUTY OIL & GAS INSPECTOR
DEC 221537

Meter Number: 75988
Location Name: RIDDLE #3 PC
Location: TN-30 RG-09
SC-21 UL-O
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.

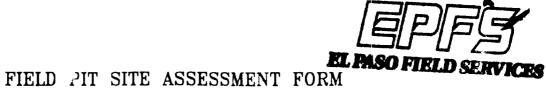
In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity 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.



GENERAL	Meter: 75938 Location: RIDDLE #3 P.C. Operator #: 0203 Operator Name: Amoco P/L District: BloomFIELD Coordinates: Letter: 70 Section 21 Township: 30 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 4.9.94 Area: 10 Run: 43 33 4.9.94
SITE ASSESSMENT	NMOCD Zone: (From NMOCD State (2) Maps) Inside (1) Fee (3) Outside (2) Inside Outside (2) Inside Outside (3) Depth to Groundwater Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 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
REMARKS	Remarks: THREE PITS ON LOCATION, WILL CLOSE TWO OF THEM. PITS ARE DRY. (SP3190) 04/08/94

	ORIGINAL PIT LOCATION
	Original Pit : a) Degrees from North <u>226°</u> Footage from Wellhead <u>SS´</u> b) Length : <u>23´</u> Width : <u>22'</u> Depth : <u>3</u>
ORIGINAL PIT LOCATION	22' WELLNEAD 22'0
KS	Remarks: STARTED TAKING PICTURES AT 1:04 P.M. END DUMP
REMAR	
	Completed By:
	Signature Date

- 30%

* 1.

FIELT / IT REMEDIATION/CLOSUI FORM

GENERAL	Meter: 75988 Location: R:JJle #3 PC Coordinates: Letter: O Section 21 Township: 30 Range: 9 Or Latitude Longitude Longitude Date Started: 5:1794 Area: 10 Run: 33
FIELD OBSERVATIONS	Sample Number(s): $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ Feet Sample Depth: $\frac{1}{2}$ Feet Final PID Reading $\frac{1}{2}$ PID Reading Depth $\frac{1}{2}$ Feet Yes No Groundwater Encountered \square (1) \square (2) Approximate Depth \square Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Live Mullers 4' htt sondstone Signature of Specialist: Vale Wilson

(SP3191) 04/07/94



ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID			Lab ID		
SAMPLE NUMBER:				945207		
MTR CODE SITE NAME:	75988		~	/A		Í
SAMPLE DATE TIME (Hrs): 5-17-94		1115			1	
SAMPLED BY:	DATE OF TPH EXT. ANAL.: 5-18-94		N/A 5/18/GH			
DATE OF TPH EXT. ANAL.:						
DATE OF BTEX EXT. ANAL.:		NIA	NIA		,	
TYPE DESCRIPTION:	٧G	<u> </u>	Light brown	· delevse	Ernet.	
REMARKS:						
	F	RESULTS	-			
PARAMETER	RESULT	UNITS		QUALIFIERS		
PANAMETER	1125521		DF	Q	M(g)	V(mi
BENZENE		MG/KG				1
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG		<u> </u>		
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	5300	MG/KG			1,9€	28
HEADSPACE PID	187	PPM				
PERCENT SOLIDS	91,6	%				
	TPH is by EPA Method	418.1 and BTEX is by	EPA Method 8020	was acce		

