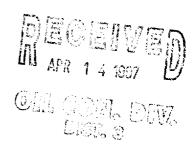
DEC 3 0 1997

Meter Number:90115 DEPUTY OIL & GAS INSPECTOROCATION Name: A.L.ELLIOTT A #3

Location:TN-29 RG-09 SC-11 UL-A

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:

10<sup>-9</sup> to 10<sup>-13</sup> cm/sec Sandstone 10<sup>-12</sup> to 10<sup>-16</sup> cm/sec 10<sup>-12</sup> to 10<sup>-15</sup> cm/sec Shale Clav

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: 90115 Location: A.L. ELUOT A #3  Operator #: 0203 Operator Name: Amoco P/L District: BLOOMFIELD  Coordinates: Letter: A. Section II. Township: 29 Range: 9  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: S.9.94 Area: 10 Run: 31				
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  So Ft to 99 Ft (10 points)  Greater Than 100 Ft (0 points)  So Ftesh water extraction?, or; is it less than 200 ft from a private domestic water source?  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  Greater Than 1000 Ft (0 points)  (1)  For identify the surface of the source of fresh water extraction?, or; is it less than 200 ft from a private domestic water source?  (1) YES (20 points)  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  Greater Than 1000 Ft (10 points)  Greater Than 1000 Ft (0 points)  Greater Than 1000 Ft (10 points)  (2) 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	M	Remarks: ONLY PIT ON LOCATION, PIT IS DRY, LOCATION IS ON TOP OF DANZAHARES MESA REDLINE AND TOPO CONFIRMED LOCATION TO BE CUTSIDE THE V.Z.				
		-1- PUSH IN (SP3190) 04/08/94				

1	
	ORIGINAL PIT LOCATION
	Original Pit : a) Degrees from North <u>181°</u> Footage from Wellhead <u>S7'</u>
	b) Length : <u>22'</u> Width : <u>21'</u> Depth : <u>4'</u>
NO	N N
\T!	↑
700	
L	
PIT LOCATION	
1	
/NI	is Edit it
ORIGINAL	\$2,
[0	ي ا
	22'
	21
	D
	Remarks:  Took Pictures AT 2:33 P.m.
	END DUMP
S	
ARK	
REMARK	
<b>S</b>	
	Consolidad Dvg
	Completed By:
·	Completed By:  Signature  S-9.94  Date

 $g_{t}(x,y) = \frac{1}{2^{d-1}} \frac{1}{2^{d-1}} \left( \frac{1}{2^{d-1}} \frac{1}{2^{d-1}$ 

## FIELD PIT REMEDIATION/CLOSURE FORM

L	Meter: 90115 Location: AL Elliot A# 3				
GENERAL	Coordinates: Letter: A Section // Township: 29 Range: 9				
EN	Or Latitude Longitude				
)	Date Started : 6-28-94 Area: 10 Run: 31				
ONS	Sample Number(s): <u>mK.50</u>				
ATI	Sample Depth: 12 Feet				
OBSERVATIONS	Final PID Reading 178 PID Reading Depth 12 Feet				
OBS	Yes No				
FIELD	Groundwater Encountered (1) 🛛 (2) Approximate DepthFeet				
FIE					
_					
	Remediation Method :				
	Excavation (1) Approx. Cubic Yards				
RE	Onsite Bioremediation (2)  Backfill Pit Without Excavation <b>(3)</b>				
	Soil Disposition:				
CLOS	Envirotech (1) (3) Tierra				
	Other Facility (2) Name:				
	Pit Closure Date: 6-28-94 Pit Closed By: BF T				
KS	Remarks: FPNG lines nacked Soil light Grat slight				
REMARKS	HYDro (arbon odor				
REI					
	Si la Carriellata guaran a i elia				
	Signature of Specialist: Morgan Killion (SP3191) 04/07/94				

28

2,06



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

	OAIMI EE	- IDEITII 10	- 110H				
	Field	ı ID		Lab ID			
SAMPLE NUMBER:	m1450		94	5541			
MTR CODE   SITE NAME:	90115			N/A			
SAMPLE DATE   TIME (Hrs):	6-28-c	74	091	44			
SAMPLED BY:			N/A				
DATE OF TPH EXT.   ANAL.:	6-30-	-94	6/	30/94			
DATE OF BTEX EXT.   ANAL.:	N/A		NI	Ą	1		
TYPE   DESCRIPTION:	V G-		וטרטינס און	1 Sand/	clan		
			1		1		
REMARKS:				/			
	<u> </u>	RESULTS					
							_
PARAMETER	RESULT	UNITS		QUALIF	IERS		
			DF	Q	M(g)	V(mi)	
BENZENE		MG/KG					
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					

	- TPH is by EPA Method 418.1	and BTEX is by EPA Metho	pd 8020
he Surrogate Recovery was at Narrative:	<u>NIA</u> %1	for this sample ,	All QA/QC was acceptable.
F = Dilution Factor Used	ρ.		
Approved By:	Lald.		Date: 7/14/44

1670

178

MG/KG

MG/KG

PPM

%

**COTAL BTEX** 

**TPH (418.1)** 

**HEADSPACE PID** 

PERCENT SOLIDS

