Denny & Tout DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number: 93491
Location Name: SHANE GAS COM A #1

Location:TN-29 RG-09 SC-14 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<sup>-9</sup> to 10<sup>-13</sup> cm/sec Shale 10<sup>-12</sup> to 10<sup>-16</sup> cm/sec Clay 10<sup>-12</sup> to 10<sup>-15</sup> 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 EL PASO FIELD SERVICES

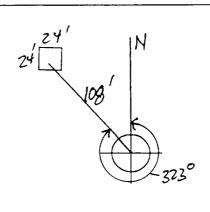
GENERAL	Meter: 9349/ Location: SHANE GAS COM A'#/ Operator #: 0203 Operator Name: AMOCO P/L District: BCOOMFIELD Coordinates: Letter: Section 14 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Other: Site Assessment Date: S-13-94 Area: Area: O Run: 92
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  (From NMOCD  Maps)  Inside  Outside  Outside  (I)  Fee  (3)  Indian  Depth to Groundwater  Less Than 50 Feet (20 points)  Greater Than 100 Ft (0 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)  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 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: Four PITS ON COLATION, ONE PIT TOBE CLOSED.

(SP3190) 04/08/94

ORIGINAL	PIT	LOCATIO	N

Original Pit : a) Degrees from North 323° Footage from Wellhead 108°

b) Length : 24 Width : 24 Depth : \_\_\_\_\_



Remarks	:	
_	_	

PHOTOGRAPHS AH-3(10-13)

Completed By:

Signature

5-13-94

Date

## FIEL PIT REMEDIATION/CLOSU: FORM

GENERAL	Meter: 93491 Location: SHane GAS com A TI  Coordinates: Letter: Section 14 Township: 29 Range: 9  Or Latitude Longitude  Date Started: 6-24-94 Area: 10 Run: 94
FIELD OBSERVATIONS	Sample Number(s): 1/34  Sample Depth: 4' Feet  Final PID Reading 256 PID Reading Depth 4' Feet  Yes No  Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Pit Closure Date: 6-24-94  Pit Closed By: BFT  Remarks: Epuc lines Marked Brown 50:1 Low HY Orocarbon Odor Hit Sandston 4'
1	Signature of Specialist: Margan Killien



## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE I	DEN HEICA	ATION				
	Field I	D		Lab ID			
SAMPLE NUMBER:	mk34		945	516			
MTR CODE   SITE NAME:	93491			N/A			
SAMPLE DATE   TIME (Hrs):	6-24-6		10	5.2			
SAMPLED BY:	1.100		N/A 6/27/94				
DATE OF TPH EXT.   ANAL.:	6/2	7/44					
DATE OF BTEX EXT.   ANAL.:	AIA		Bonn G		202/01/2	. I	
TYPE   DESCRIPTION:	<u> </u>		DIWN C	YIV)C =	CLOLOW	/	
REMARKS:							
	R	ESULTS					
PARAMETER	RESULT			QUALIFIERS		i(g) V(mi)	
			DF	<u>a</u>	M(g)	¥ (11d)	
BENZENE		MG/KG					
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	3230	MG/KG			2,13	28	
HEADSPACE PID	256	PPM					
PERCENT SOLIDS	96.7	%					
	- TPH is by EPA Method 418	3.1 and BTEX is by EP.	A Method 8020 —	was accep			

)F = Dilution Factor Used

Test **M**e d for Oil and Grease and Petroleum Hydrocarbons in Water and Soil \* × Perkin-Elmer Model 1600 FT-IR 4 Analysis Report 24/06/27 14:33 Sample identification latkisi sase or s<mark>ample, g</mark> utro Tollume with carrolla afren exchancium A. Promoto esmo tribos entrope, pum Ton trib Promoto esmo tento en tribonore, con el 1777 como Se Tos o namo policio de la propia de al al calcalación de la companión de la compani 3029 11.19