Denny & Fort
DEPUTY OIL & GAS INSTERNED

DEC 2 9 1997

Meter Number:75413

Location Name: JACK FROST GAS COM E #1

Location:TN-27 RG-10 SC-25 UL-D

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: 7543 Location: Nack frost Gas Com E well 1, Operator #: 0203 Operator Name: Amoco P/L District: Ballard Coordinates: Letter: D Section 25 Township: 27 Range: 10W Or Latitude Longitude Pit Type: Dehydrator \(\subseteq \) Location Drip: Line Drip: Other: Site Assessment Date: 6-1/-94 Area: // Run: 3/					
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Indian Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; ls it less than 200 ft from a private domestic water source? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) Horizontal Distance to Surface Water Body Less Than 200 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: DOINTS					
REMARKS	Remarks: 4pts - Dehy prt dry. Nexto meter run					
REI	Outside V.Z. Topo & Pedine (GW 6-11-94)					

NO	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North ZSS Footage from Wellhead 172 b) Length: 9 Width: 9 Depth: 2
ORIGINAL PIT LOCATION	q' Z55° Q' Wellhead
REMARKS	Remarks: Photos - 0927 Solptai
	Completed By: G-1/-94 Signature Cate

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 75413 Location: Jak Frost GC E#1 Coordinates: Letter: D Section 25 Township: 27 Range: 10 Or Latitude Longitude Date Started: 9-8-94 Run: 11 31
FIELD OBSERVATIONS	Sample Number(s): 12^{i} Feet Sample Depth: 12^{i} Feet Final PID Reading 183 PID Reading Depth 12^{i} Feet Yes No Groundwater Encountered \square Approximate Depth \square Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks:
	Signature of Specialist: Walk Wilse

Hatural Gas Company

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	vw 258	946074
MTR CODE SITE NAME:	75413	N/A
SAMPLE DATE TIME (Hrs):	9-8-91	0021
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	9/13/94	9/13/94
DATE OF BTEX EXT. ANAL.:	NIA	NIA
TYPE DESCRIPTION:	∨ <i>G</i> -	Lt. Brown Fine Sand
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REMARKS:	
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RESULTS

PARAMETER	RESULT	UNITS	DF	QUALIF	IERS M(g)	V(mi)
ТРН (418.1) 4340	4336.1	1/16/44 MG/KG			2.08	28
HEADSPACE PID	183	PPM				
PERCENT SOLIDS	93.6	%				

III.						- 11
PERCENT SOLIDS	93.6	%				
		TPH is by EPA Method	418.1			
Varrative:						
DF = Dilution Factor Used						
J. J.			Date:	9/30/0	94	

