Meter Number:95286
Location Name:FLORANCE 7A FT
Location:TN-30 RG-09
SC-23 UL-F
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.

EL PASO FIELD SERVICES

## FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 9528b Location: Florance 7A FT  Operator #: DDD Operator Name: Amora P/L District: Bloomfield  Coordinates: Letter: F Section 22 Township: 3D Range: 9  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: Line Drip: Other:  Site Assessment Date: Area: D Run: 33					
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  (From NMOCD  Maps)  Inside  Outside  Outside  (1)  Fee  (3)  Outside  Outside  Outside  Outside  (1)  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 (10 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					
KS	Remarks: Realine Book: Outside Vulnerable Zone Top During					
REMARKS	Spits. Close!					
RE	PUSHIN					

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 95286 Location: FloRance 77  Coordinates: Letter: F Section 23 Township: 30 Range: 9  Or Latitude Longitude Longitude Date Started: 2-13-95 Run: 10 33
FIELD OBSERVATIONS	Sample Number(s): MK 322  Sample Depth: Feet  Final PID Reading 466   Pfm
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: Arrive Dug Sample Hole Hit Rock 5'  Soil Was Black and Had strong Hypro carbon odor  Signature of Specialist: Morgan Killian  (SP3191) 03/16/94



### FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

### SAMPLE IDENTIFICATION

	Field II	o		Lab ID			
SAMPLE NUMBER:	mx 3.82		all 6 75				
MTR CODE   SITE NAME:	95286 2-13-95		N/A (2.1S				
SAMPLE DATE   TIME (Hrs):							
SAMPLED BY:			/A				
DATE OF TPH EXT.   ANAL.:	2/17/9	5	٤)	7/95			
DATE OF BTEX EXT.   ANAL.:	NIA		<b>ル</b> ∱ A				
TYPE   DESCRIPTION:	V G		Black sand and clan				
REMARKS: TO H DOW AL ATT							
							7
DADAMETED	RESULT U	UNITS	QUALIFIERS				
PARAMETER			DF	<u>a</u>	M(g)	V(mi)	4
TPH (418.1)	5100	MG/KG					1
HEADSPACE PID	466	PPM				<del></del>	1

PERCENT SOLIDS	ુાુ	%		
TEROLITE		TPH is by EPA Method	418.1	
arrative:	in the			 
ATI Rasults	MACKUN			
Diller Faces Hand				
F = Dilution Factor Used				

Date: 3-20-95

Approved By: \_\_\_



#### GENERAL CHEMISTRY RESULTS

CLIENT : EL PASO NATURAL GAS CO. ATI I.D. : 502381

PROJECT # : 24324

DATE RECEIVED : 02/17/95

DATE ANALYZED : 02/17/95

PROJECT NAME : PIT CLOSUE	RE		DATE ANALYZED		: 02/17/95	
PARAMETER	UNITS	17	18	19	20	
PETROLEUM HYDROCARBONS, IF	MG/KG	550	5100	<20	1200	

946675

2709-D Pan American Freeway NE Albuquerque NM 87107 Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 502381



February 23, 1995

El Paso Natural Gas Co. P. O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 02/17/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA Method 8020 analyses were added on February 21, 1995 for samples 946659, 946660, 946661, 946662, 946663, 946664, 94666, 946667, 946668, 946669, 946680, 946682 per John Lambdin.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.

Project Manager

I. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jt

Enclosure