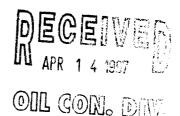
Denny & Tayl

DEC 22 1887

Amveral

Meter Number: 71856
Location Name: HAMPTON 3 MV
Location: TN-30 RG-11
SC-10 UL-B
4 - Fee

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: 71856 Location: Hampion 3 MV Operator #: 1987 Operator Name: MERIDIAN P/L District: Kutz Coordinates: Letter: B Section 10 Township: 30 Range: 11 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Visit Date: 3.29.94 Run: 02 72						
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM						
REMARKS	Remarks: Two PITS ON LOCATION. WILL (LOSE ONLY ONE. DEHY HAS NOT REEN DISCONNECTED FROM PIT YET, PIT IS DRY.						

	ORIGINAL PIT LOCATION								
Z	Original Pit: a) Degrees from North Footage to Wellhead								
ATIO	c) Length : <u>14'</u> Width : <u>13'</u> Depth : <u>3'</u>								
ORIGINAL PIT LOCATION	14' 13'								
REMARKS	Remarks: STARTED TAKING PICTURES AT 9:04 A.M. DUMP TRUCK - BORTAIL								
	Completed By: Signature 3.29.94 Date								

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 71856 Location: Hampton # 3 MV Coordinates: Letter: B Section 10 Township: 30 Range: 11 Or Latitude Longitude Date Started: 4-26-94 Area: 62 Run: 72
E OBSERVATIONS	Sample Number(s): KD 32 Sample Depth: IZ' Feet Final PID Reading
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition:
	Envirotech (1) (3) Tierra Other Facility (2) Name: Pit Closure Date: 4-26-94 Pit Closed By: 3EI
.N ?KS	Remarks: Had to Excavale Pit to 12', Took PID Reading Close pit.
	Signature of Specialist:



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil



SAMPLE IDENTIFICATION

SAMPLE IDENTIFICATION							
	Field	i ID	And 4/28/9	ių Lab ID			
SAMPLE NUMBER:	KD	3.2		9450	009		
MTR CODE SITE NAME:	7152		N	MA			
SAMPLE DATE TIME (Hrs):	11/2:16:11		1650				
SAMPLED BY:		NIF	7				
DATE OF TPH EXT. ANAL.:	4/28/	94	4/2	18/94			
DATE OF BTEX EXT. ANAL.:	5919	74	51	0/94			
TYPE DESCRIPTION:	'VC	→	Brown	Visey?	The	sand	
REMARKS:		RESULTS				· · · · · · · · · · · · · · · · · · ·	
	 	NESULIS				-	
PARAMETER	RESULT	UNITS	QUALIFIERS			V(ml)	
BENZENE	40.50	MG/KG	DF	<u> </u>	M(g)	V(III/	
TOLUENE	عا ,3	MG/KG					
ETHYL BENZENE	3.7	MG/KG					
TOTAL XYLENES	58	MG/KG					
TOTAL BTEX	65.3	MG/KG					
TPH (418.1)	1700	MG/KG			2.04	28	
HEADSPACE PID	516	PPM					
PERCENT SOLIDS '	88	%					
ne Surrogate Recovery was at arrative:	TPH is by EPA Method	% for this sample			table.		
ATI resu	us attac	hed	<u>.</u>				
F = Dilution Factor Used							

Test Method for *
Oil and Grease and Petroleum Hydrocarbons *
in Water and Soil *

Perkin-Elmer Model 1600 FT-IR Analysis Report

4/04/28 14:38

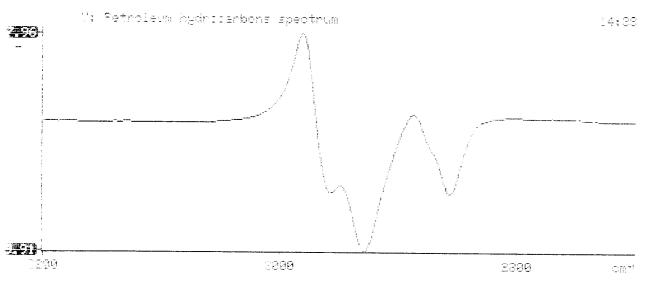
Bample identification 5009

Initial mass of sample, g

 $^{\circ}$ Uslume of sample efter extraction, ml $^{\circ}$ 3.000

Patroleum hydrocarbons, ppm 379.676

Tet absorbance of hydricarbons (2930 cm-1)





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405313

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	945008	NON-AQ	04/26/94	05/09/94	05/10/94	1
02	945009	NON-AQ	04/26/94	05/09/94	05/10/94	20
03	945010	NON-AQ	04/26/94	05/09/94 05/10/94		20
PARAME	TER		UNITS		02	03
BENZEN	E		MG/KG	<0.025	<0.50	4.1
TOLUEN	E		MG/KG	<0.025	3.6	88
ETHYLBENZENE			MG/KG		3.7	32
TOTAL XYLENES			MG/KG		58	380
METHYL-t-BUTYL ETHER			MG/KG	<0.12 <2.4		2.5
SURROG	ATE:					
BROMOF	LUOROBENZENE (%)		170*	84	187*	

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



ATI I.D. 405313

May 13, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 05/03/94, 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 8015 analysis was added on 05/05/94 for sample 945008 per Stacy Sendler.

The matrix spike/spike duplicate data from the samples extracted on 05/05/94 is reported twice reflecting quantification using both the internal standard and external standard protocols. Both protocols were employed to quantify the samples submitted for this project.

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

Letitia Krakowski, Ph.D.

Project Manager

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jd

Enclosure

Albuquerque Office: 2709-D Pan American Fwy., N E Albuquerque, NM 87107 (505) 344-3777

Remit To: Analytical Technologies, Inc. P. O. Box 840436 Dallas, Texas 75284-0436

AL 72053

Billed to:

EL PASO NATURAL GAS COMPANY

P.O. BOX 4990

FARMINGTON, NM 87499

Accession No.: 9405-313

Date: 05/13/94

Client No.: 850-020

810

Attention:

ACCOUNTS PAYABLE

Telephone:

505-325-2841

EPN6 SAMPLE # 945008

Authorized by: JOHN LAMBDIN

945027

P.O. Number:

38822

945032, 945033, 945035 +0945039, 945041

to 945050, 945034 and 945040

Samples:

39 NON-AQ

received 05/03/94

Project:

PIT CLOSURE

Project No.:

24324

TEST DESCRIPTION	QUANT	TITY	PRICE	TOTAL
BTEX/MTBE (8020) -1	.0 % .0 %	1 38 1	125.00 80.00 165.57	112.50 2736.00 165.57
NM GROSS RECEIPTS TAX NM 1994 PER PROPERTY OF THE PROPERTY O	7A 25 28	Amoun	********* t due: ******	3014.07
5/17/94 APPROVED FOR PAYMENT DATE				
741- >				