Mentl PASOTIFED SERVICES
DEPUTY OF CODUCTION PIT CLOSURE

DEC 2 1 1998

HUGHES FED COM WELL #1

Meter/Line ID - 93224

DECEIVED
JUL 2 1998

HE COR DIV

SITE DETAILS

Legals - Twn: 24 Rng:

NMOCD Hazard Ranking: 40

Operator: MERIDIAN OIL INC

Sec: 07 Unit: O

Land Type: 4 - Fee

Pit Closure Date: 10/11/94

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring: therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will
 naturally degrade in time with minimal risk to the environment.

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FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 4322 Location: HUGHES Fel Com Well #1 Operator #: 2919 Operator Name: MDT P/L District: DJITO Coordinates: Letter: O Section 7 Township: 24 Range: 3 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 8/2/94 Area: 08 Run: 80
SITE ASSESSMENT	NMOCD Zone: Carrow NMOCD State (2)
SKS.	Remarks: Realine Book - Inside Vulascable Zone Tage - Inside
REMARKS	3 pits. Will close 1. Pit has liquidinit.
EE E	DIGHAUL
	Appropriate the second

N(Original Pit :	ORIGINAL PIT LOCATION a) Degrees from North 90° Footage from Wellhead b86′ b) Length: 20′ Width: 20′ Depth: 41°
ORIGINAL PIT LOCATION		90° Vellhead 90° Vellhead 90° 33.33
	Remarks:	
REMARKS		
	Completed By:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
بد ایکانی، ب	V .	Signature Date
· S. WALLES	A CONTRACTOR OF THE STATE OF TH	Annathant at the Ma

PHASE I EXCAVATION

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Fleed PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93224 Location: Hughes Fed com well ⁴ 1 Coordinates: Letter: O Section 7 Township: 24 Range: 3 Or Latitude Longitude Date Started: 10-11-94 Run: 08 83
FIELD OBSERVATIONS	Sample Number(s): \$\frac{1304}{21}\$ Feet Final PID Reading \(\frac{221}{221} \) Yes No Groundwater Encountered \(\square \) Approximate Depth \(\frac{-2^2}{21} \) Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10-18-94 Pit Closed By: 3-6±
REMARKS	Remarks: Some Line marken. Pit Has oil & water in. It At 12' Soil gray Locking with a smell. Signature of Specialist: Kelly Palilla (593191) 03/15/04



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 306	946394
MTR CODE SITE NAME:	93224	N/A
SAMPLE DATE TIME (Hrs):	10-11-94	0900
SAMPLE DATE TIME (1715)		N/A
DATE OF TPH EXT. ANAL.:	10-17-94	10-17.44
ATE OF BTEX EXT. ANAL.:	10-19-94	10-23.94
TYPE DESCRIPTION:	VL	Frown Gay

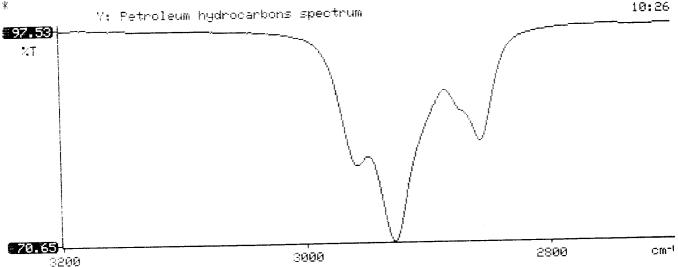
REMARKS:	
MEINIMINO.	

RESULTS

		UNITS		QUALIFIER	rs ·	10 mg
PARAMETER**	RESULT	UNITS	DF _	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG	20			
TOLUENE	3.2	MG/KG	20			
ETHYL BENZENE	1.6	MG/KG	20			
TOTAL XYLENES	23	MG/KG	20			
TOTAL BTEX	28.3	MG/KG			0.2	28
TPH (418.1)	1050	MG/KG	1000		2.03	***
HEADSPACE PID	221	PPM				. w. d. k
PERCENT SOLIDS	76.3	% od 418.1 and BTEX is by				3 4 5

HEADST ACE TO	
PERCENT SOLIDS 76.3 %	
TRU is by EPA Method 418.1 and BTEX is by EPA Method 6020	
The Surrogate Recovery was at% for this sample All QA/QC was acceptable.	
Narrative:	
ALI KASUE BUTTON	
DF = Dilution Factor Used	
Approved By:	

****************** Test Method for Oil and Grease and Petroleum Hydrocarbons 煮 * in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report *************** 94/10/17 10:25 Sample identification 946394 Initial mass of sample, g 2.030 * Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 1047.429 * Net absorbance of hydrocarbons (2930 cm-1) 0.140 ť * Y: Petroleum hydrocarbons spectrum





ATI I.D. 410405

October 26, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 10/18/94, 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.

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

Letitia Krakowski, Ph.D.

Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 410405

PROJECT #

: 24324

ROJE	CT NAME	: PIT (CLOSURE	DAME	DATE	DATE	DIL.
SAMPL!		T D	MATRIX	DATE SAMPLED	EXTRACTED	ANALYZED	FACTOR
[D. #	946392	1.0.	NON-AQ	10/10/94	10/19/94	10/23/94	20
01			NON-AQ	10/10/94	10/19/94	10/23/94	20
02	946393		NON-AQ	10/11/94	10/19/94	10/23/94	20
03	946394			UNITS	01	02	03
PARAM				MG/KG	0.55	3.2	<0.5
BENZE				MG/KG	23	26	3.2
TOLUE				MG/KG	<0.5	<0.5	1.6
ETHYI	BENZENE			•	7.8	96	23
TOTAL	XYLENES			MG/KG	7.0	2.0	

SURROGATE:

BROMOFLUOROBENZENE (%)

76 149* 71

*OUTSIDE ATI CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road Farmington, New Mexico 87401

l

(505) 326-2262 FAX (505) 326-2388

Elevation **Borehole Location GWL Depth** Logged By Drilled By Date/Time Started Date/Time Completed S/シェ/カミー

Borehole #	BHZ
Well #	
Page 1	of

Project Name Project Number **Project Location**

Well Logged By Personnel On-Site Contractors On-Site Client Personnel On-Site

Drilling Method Air Monitoring Method

epth Sen	4 1		USCS Symbol	Depth Lithology Change (feet)	Air Ui BZ	Monigoring nite: 1900 S BH /	Drilling Conditions & Blow Counts
	15-17 4" 17-14 4"	Br Clay, Staff High Plausinus maistre. It Br silty Clay, mak stiff, make plastic, sl maistre. TOB 20'			0000	ا منا	1225 hr 1259 1245 1349

bentonite tarout to suffice. 15-19' Clay confining layer.

ample to lab (RTEX. TPH) CMC27. Take 4th splitspoon to Comments: Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID	
SAMPLE NUMBER:	cm c 27	946838	
 	93224	N/A	
MTR CODE SITE NAME:	5-25-95	1349	
SAMPLE DATE TIME (Hrs): SAMPLED BY:	N/A		
	5-30-95	4 - 30 - 95	
DATE OF TPH EXT. ANAL.:	b -1-95	6-5-95	
DATE OF BTEX EXT. ANAL.:		Brown Clay	
TYPE DESCRIPTION:	V G		

REMARKS:	

RESULTS

	RESULT	UNITS	QUALIFIERS				
PARAMETER			DF	Q	M(g)	V(ml)	
BENZENE	40.025	MG/KG	l				
TOLUENE	۷٥.025	MG/KG	1	ļ			
ETHYL BENZENE	40.025	MG/KG	1		-		
TOTAL XYLENES	10.025	MG/KG	 				
TOTAL BTEX	40.10	MG/KG					
TPH (418.1)	109	MG/KG			2.07	28	
HEADSPACE PID	18	PPM					
PERCENT SOLIDS	82.8	% d 418.1 and BTEX is by					

					0010
- TPH is by EPA	Method 418.1	and BTEX is by	EPA	Method	8020 -

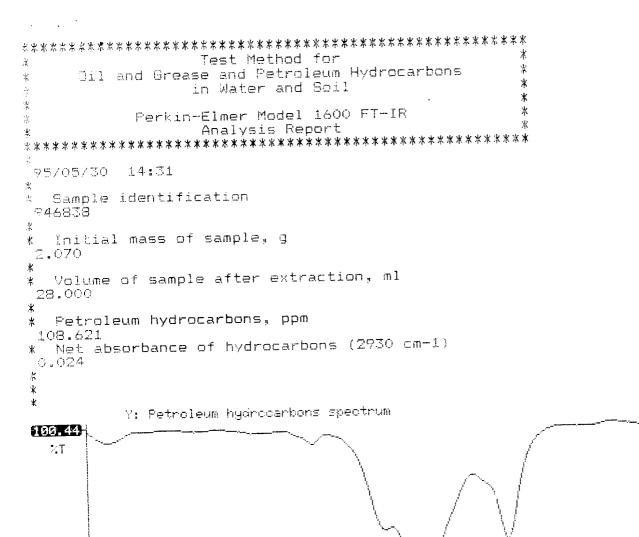
% for this sample All QA/QC was acceptable. 99 The Surrogate Recovery was at

Narrative:

DF = Dilution Factor Used

DD

6/2/95



3000

95.00H

3200

14:31

 $\odot m^{-1}$

2800



ATI I.D. 506301

June 8, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/01/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. 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.

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

Letitia Krakowski, Ph.D.

Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



TEST

: BTEX, MTBE (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506301

PROJECT # : 24324

PROJECT	NAME : PIT CLOSU	TRE				D.T.I
SAMPLE	OLIENM I D	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	CLIENT I.D. 946838	NON-AQ	05/25/95	06/01/95	06/05/95	1
04	946839	NON-AQ	05/25/95	06/01/95	06/05/95	20
05	946840	NON-AQ	05/25/95	06/01/95	06/05/95	2
06			UNITS	04	05	06
PARAME			MG/KG	<0.025	<0.5	0.15
BENZEN			MG/KG	<0.025	13	0.74
TOLUEN			MG/KG	<0.025	11	0.61
-	ENZENE		MG/KG	<0.025	100	9.8
	XYLENES J-t-BUTYL ETHER		MG/KG	<0.12	<2.4	<0.24
SURRO	GATE: FLUOROBENZENE (%)			99	128*	78

^{*}OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



TEST

: EPA 8015 MODIFIED

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506301

PROJECT # : 24324

PROJECT SAMPLE		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #_	946838	NON-AQ	05/25/95	06/01/95	06/01/95	1
PARAME	TER		UNITS	04		
	YDROCARBONS		MG/KG	<5		
- HYDROC	ARBON RANGE			-		
HYDROC	ARBONS QUANTITAT	ED USING		-		
SURROG	ATE:			94		

O-TERPHENYL (%)



Phase II Hughes 5 PC

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

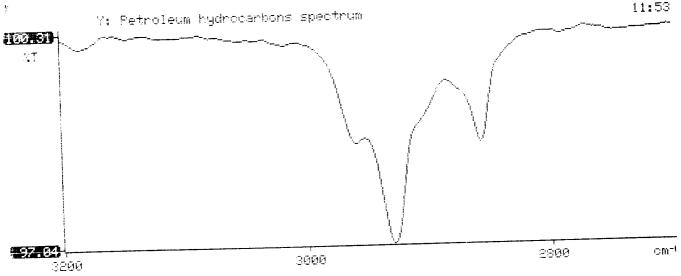
	Field ID	Lab ID
SAMPLE NUMBER:	cmc all	946882
MTR CODE SITE NAME:	93244	N/A
SAMPLE DATE TIME (Hrs):	6-7-95	0942
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	6-9-95	6-9-95
DATE OF BTEX EXT. ANAL.:	6-14-95	Le - 15 - 95
TYPE DESCRIPTION:	Harde	Light ton 5and
TVDE DEGCRIPTION	1.10145 1	1947

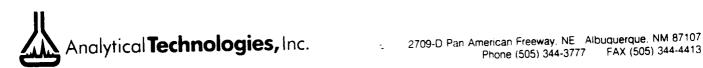
RESULTS

	RESULT	UNITS	QUALIFIERS			
PARAMETER	NESUL		DF	Q	M(g)	V(ml)
BENZENE	10.025	MG/KG	,			
TOLUENE	40.025	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG	1			
TOTAL XYLENES	40.025	MG/KG				
TOTAL BTEX	۷٥.١٥	MG/KG				
TPH (418.1)	31.1	MG/KG			2.06	28
HEADSPACE PID	Ь	PPM				
PERCENT SOLIDS	91.4	%				

	TPH is by EPA Metho	d 418.1 and BTEX is by EPA	Method 8020	
he Surrogate Recovery was at	93	_% for this sample	All QA/QC	was acceptable.
Varrative:	.h.d			
OF = Dilution Factor Used			Data	6/28/95

******************************** Test Method for Oil and Grease and Petroleum Hydrocarbons * * in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 95/06/09 11:53 Sample identification 946882 Initial mass of sample, g Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 31.085 * Net absorbance of hydrocarbons (2930 cm-1) 0.014 짟





ATI I.D. 506363

June 19, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/14/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. 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.

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

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 506363

PROJECT # : 24324

PROJECT		: PIT	CLOSURE				
SAMPLE			MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	CLIENT	I.D.	NON-AQ	06/07/95	06/14/95	06/15/95	1
01	946881		NON MQ QA-NON	06/07/95	06/14/95	06/15/95	1
02	946882		QA-NON QA-NON	105 105	06/14/95	06/15/95	1
03	946883		11011 112	UNITS	01	02	03
PARAME'	TER			MG/KG	<0.025	<0.025	<0.025
BENZEN	E			MG/KG	<0.025	<0.025	<0.025
TOLUEN	E			MG/KG	<0.025	<0.025	<0.02
ETHYLB	ENZENE			MG/KG	<0.025	<0.025	<0.02
TOTAL	XYLENES	3		MG/ RG			
SURROG	ATE:	ENZENE	(%)		94	93	96