DEC 2 1 1949

**CHACON HILL #1** Meter/Line ID - 90617

#### SITE DETAILS

Legals - Twn: 24

Rng: 03 NMOCD Hazard Ranking: 40

Sec: 20

Unit: D

Land Type: 4 - Fee

Pit Closure Dang

Operator: CONOCO - MESA OPERATING L

#### 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 the environment.



### FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 90617 Location: Chacon Hill # 1 (T.D.)  Operator #: 6302 Operator Name: Naval Resources  Coordinates: Letter: D Section 20 Township: 24 Range: 3  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: Line Drip: Other:  Site Assessment Date: 8/3/94 Area: 08 Run: 83						
	NMOCD Zone: Land Type: BLM (1) (From NMOCD State (2)						
	Maps) Inside ∑ (1) Fee ∑ (3)  Outside ☐ (2) Indian						
	Depth to Groundwater  Less Than 50 Feet (20 points)   50 Ft to 99 Ft (10 points)   Greater Than 100 Ft (0 points)   (3)						
ASSESSMENT	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) (2) NO (0 points)						
SITE ASS	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body Media Canyon						
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)						
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)						
	TOTAL HAZARD RANKING SCORE: 40 POINTS						
REMARKS	Remarks: Redline Book-Inside Vulacable Zone Topo-Inside						
EMA							
<u> </u>	DIG4HAUL						

٠.٠٠

# PHASE I EXCAVATION

## F.LD PIT REMEDIATION/CLUBURE FORM

GENERAL	Meter: 90617 Location: Chacon Hill #    Coordinates: Letter: O Section 20 Township: 24 Range: 3  Or Latitude Longitude  Date Started: 10/13/94 Run: 08 83
FIELD OBSERVATIONS	Sample Number(s): KD 339  Sample Depth:
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 10/13/94  Pit Closed By: BET
REMARKS	Remarks: Excavates pit to 17', TOOK DID Sample, Closed pit.
1	Signature of Specialist:



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

### SAMPLE IDENTIFICATION

SAMPLE NUMBER:  MTR CODE   SITE NAME:  90417  N/A  10.13.94  1350  SAMPLED BY:  DATE OF TPH EXT.   ANAL.:  DATE OF BTEX EXT.   ANAL.:  TYPE   DESCRIPTION:  ND 339  944418  N/A  10.13.94  10.13.94  10.17.94  10.17.94  10.21.94  10.21.94
SAMPLE DATE   TIME (Hrs): 10-13-94 1350  SAMPLED BY: N/A  DATE OF TPH EXT.   ANAL.: 10-17-94 10-17-94  DATE OF BTEX EXT.   ANAL.: 10-19-94 10-21-94
SAMPLED BY:  DATE OF TPH EXT.   ANAL.:  DATE OF BTEX EXT.   ANAL.:  10-17-94  10-17-94  10-21-94
DATE OF TPH EXT.   ANAL.: 10-17-94 10-17-94  DATE OF BTEX EXT.   ANAL.: 10-19-94 10-21-94
DATE OF BTEX EXT.   ANAL.: 10-19.94 10-21-94
2 50 1 10
TYPE   DESCRIPTION: VC Frown Fand & Clac
REMARKS:

PARAMETER	RESULT	UNITS		ERS	s		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			DF	Q	M(g)	V(ml)	
BENZENE	40.5	MG/KG	20				
TOLUENE	3.1	MG/KG	20				
ETHYL BENZENE	2.4	MG/KG	20				
TOTAL XYLENES	55	MG/KG	20				
TOTAL BTEX	61.0	MG/KG			<b></b>		
TPH (418.1)	6.900	MG/KG			1:47	28	
HEADSPACE PID	505	PPM					
PERCENT SOLIDS	82.4	%					

	TPH is by EPA Meth	DO 418.1 AND BIEX IS DY EPA	Method 6020	
The Surrogate Recovery was at	91	% for this sample	All QA/QC was acceptable.	
Narrative: ATI Results	attached.		<del>-</del>	
DF = Dilution Factor Used				

Approved By:

```
Test Method for 7
Test Method Soil 7
Test Method Soil 7
Test Method Me
```





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



### GAS CHROMATOGRAPHY RESULTS

: BTEX (EPA 8020)

TEST : BTEX (EPA 8020)

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

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

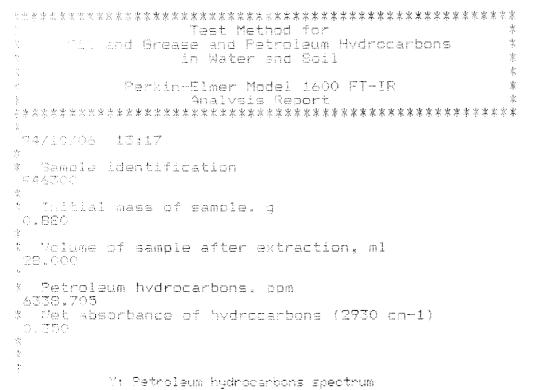
SAMPLI ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
25	946416	NON-AQ	10/13/94	10/19/94	10/20/94	1
26	946417	NON-AQ	10/13/94	10/19/94	10/21/94	1
27	946418	NON-AQ	10/13/94	10/19/94	10/21/94	20
PARAM	ETER		UNITS	25	26	27
BENZE	NE		MG/KG	<0.025	<0.025	<0.5
TOLUE	NE		MG/KG	<0.025	<0.025	3.1
ETHYL	BENZENE		MG/KG	<0.025	<0.025	2.4
	XYLENES		MG/KG	<0.025	<0.025	55
	OGATE:	(9.)		90	89	91
BROMO	FLUOROBENZENE	(%)		20		

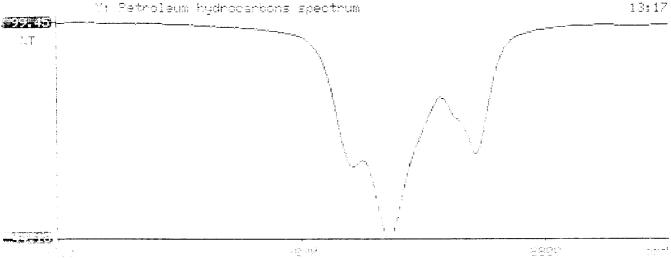


## FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

	SAMP	LE IDENTI	FICATI	ON			
	Fiel	d ID		Lab ID		•	
SAMPLE NUMBER:	KP	278	946300				
MTR CODE   SITE NAME:	9081			N/A			
SAMPLE DATE   TIME (Hrs):	/6 -	3-94	11	50			
SAMPLED BY:		N/A	<del>\</del>				
DATE OF TPH EXT.   ANAL.:	10-15-	94				4	
DATE OF BTEX EXT.   ANAL.:	A)	I A		NIA	<u> </u>	1	
TYPE   DESCRIPTION:	V 6		Yay	Sand a	t clay	j	
REMARKS:	-1-1	TOH ON	<u> </u>				
		RESULT		<u> </u>		<u> </u>	
PARAMETER	RESULT	UNITS	DF	QUA	LIFIERS M(g)	V(ml)	ATI Results
BENZENE		MG/KG					
TOLUENE		MG/KG	<u> </u>	-			
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	6340	MG/KG			0.88	28	フレッシ Surrogate %
HEADSPACE PID	463	PPM	200		i ii ii tarvaniri — Li ii	. Secretari	אן א Dilution Factor
PERCENT SOLIDS	80.5	%		معد وتناهد	d has been a street		PIA
The Surrogate Recovery was at Narrative:		A Method 418.1 and for this sam			od 8020 vas accep	table.	
DF = Dilution Factor Used							







ATI I.D. 410339

October 19, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 10/07/94, 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.

For the EPA Method 8020 analysis, the matrix spike and matrix spike duplicate results were extracted and analyzed past the recommended EPA hold time.

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





### GENERAL CHEMISTRY RESULTS

CLIENT : EL PASO NATURAL GAS

ATI I.D.

: 410339

PROJECT #

: 24324

DATE RECEIVED : 10/07/94

PROJECT NAME : PIT CLOSURE

DATE ANALYZED

: 10/11/94

PARAMETER PETROLEUM HYDROCARBONS, IR MG/KG

UNITS

01 7000

03 7600

ETNG Lad #: 946300

10/26/94

## PHASE II

#### BH-1 Borehole # RECORD OF SUBSURFACE EXPLORATION Well # Page PHILIP ENVIRONMENTAL 4000 Monroe Road EPNG PITS Project Name Farmington, New Mexico 87401 6000 / 77 Phase 14509 Project Number (605) 326-2262 FAX (605) 326-2388 906/7 Chacon Hill# Project Location CM Chance Well Logged By Elevation Personnel On-Site Borehole Location Contractors On-Site GWL Depth Client Personnel On-Site Logged By CM CHANCE

4 1/4" ID HSA

PID, CGI

**Drilling Method** 

Air Monitoring Method

M DONOHUE K. PALILLA

6/8/95-

6/8/91-1230

Drilled By

Date/Time Started

Date/Time Completed

			CIn			Depth				
1		Sample	Sample Type &	Sample Description	USC <b>S</b>	Lithology	Air	Monitori	ng	Drilling Conditions
Depth	Sample		Recovery	Classification System: USCS	Symbol	Change	Units:	PPM	<u>s</u>	& Blow Counts
(Feet)	Number	Interval		Classification Systems. 0000	,	(feet)	BZ	вн	HS	
			(inches)	D // City			1			
, o				Backfill to 121		1			Ī	
<b> -</b>								1	- 1	
<b>-</b>										
<u> </u>			!							
├ <sub>5</sub>									i	
°										
<u> </u>	1									
<b>_</b>						1				
<b>-</b>	·	ĺ								
├	1				l					
10			1		1	1				
$\vdash$			ł		l					
<b>—</b>	1									
<u> </u>			İ	1	1	1	1		24.	18.45
		15-17	utt	BosilygCLAY, soft, high plassic, sl mass	1	İ	0	8	39	-1247
15	(	ויכין	7	<b>1</b>	]				187	
L	}	j	1		1					
L_	İ						1			
					1		1		1	<b> </b>
	1	i		1+ be sitty SANO, 4. loose, VF-Fs and,	l				7.0	į
20	7	30-83	6	It be KIMUSHIVUS A. 10034) 11 2003	1		0	٥	뿔	-1248
	1	1		sl maist					-	1 000
		1			1					
				TD8 22'	1		1			
	1		1		ļ	ł				
25					<u>į</u>		1		1	
	1				l				i	
	1	1					1	ļ	1	i
	1						1		İ	1
		1			ì		1	1		
30	İ	1			l	İ	1		1	
		-			1		1	1	1	
							1	1		
	1						1			
		1	1	•	1	-	1			
35	1	]	1		1		1			
<del> </del>	1				1					
<del> </del>	1	1	1		1				1	
	1		1		1		1			
<del> </del>		1			1	1		1	1	
<del> </del>	. 1	1	1		1			1		
▎└──▝⁰		1	1		1	1		1	1	

35		·			·		•	
Comments:	20-22' sam	ple (CMC 45) sent +p	ING (BTEX, TPH)	.BH gc	putel	to surf	<b>6</b> (4	 <u>-</u>
			Geologist Signature					_
5/30/95\DRILL	OG1.XLS							



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

	SAMPLE I	DENTIFICAT	ION			
	Field II	0		Lab ID		
SAMPLE NUMBER:	CMC	ls .	95	6887		
MTR CODE   SITE NAME:	90617			N/A		
SAMPLE DATE   TIME (Hrs):	4-8-95		121	18		
SAMPLED BY:		N/A	<del></del> -			
DATE OF TPH EXT.   ANAL.:	(2-4) -			9-95	-	
DATE OF BTEX EXT.   ANAL.:	L - 14 -	9,5	- 1	15 -95	1	
TYPE   DESCRIPTION:	VG		777 76	ron Som	<u> </u>	
REMARKS:						
NEIWANNS.						
	R	RESULTS				
DADAMETER	RESULT	UNITS		QUALIFIERS		
PARAMETER	NESOLI	Ollifo	DF	Q	M(g)	V(ml)
BENZENE	40.025	MG/KG				
TOLUENE	10.025	MG/KG	_ 1 _			
ETHYL BENZENE	40.025	MG/KG				
TOTAL XYLENES	40.025	MG/KG	1			
TOTAL BTEX	₹0.10	MG/KG				
TPH (418.1)	53.6	MG/KG			20	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	91.1	%				
The Surrogate Recovery was at Narrative:	TPH is by EPA Method o	418.1 and BTEX is by EPA % for this sample			otable.	
ATI Bosult attach.	2			<del>,, </del>		
DF = Dilution Factor Used				<del> </del>		
DF = Dilution Factor Used	0			6.4-	la	

```
Police of sample after extraction, ml
Cotroleum hydrocarbons, ppm
33.379
Cotto bearbands of hydrocarbons (2930 cm-1)
                                   10:15
    it: Patroleum nydropanbons spectrum
```

3000

2869

 $-2m^{-1}$ 

2299



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. 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.

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

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

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	946887	NON-AQ	06/08/95	06/14/95	06/15/95	1
08	946888	NON-AQ	06/09/95	06/14/95	06/15/95	1
09	946889	NON-AQ	06/09/95	06/14/95	06/15/95	1
PARAM	ETER		UNITS	07	08	09
BENZE			MG/KG	<0.025	<0.025	<0.025
TOLUE			MG/KG	<0.025	<0.025	<0.025
	BENZENE		MG/KG	<0.025	<0.025	<0.025
	XYLENES		MG/KG	<0.025	<0.025	<0.025
SURRO	GATE:					
BROMO	FLUOROBENZENE	E (%)		94	86	91