

#### Federal Gas Unit 3 No. 1 Meter/Line ID - 72014

#### SITE DETAILS

Legals - Twn: 29N

Rng: 10W

Sec: 23

Unit: N

**NMOCD Hazard Ranking: 20** 

Operator: Amoco

Land Type: Fee

Pit Closure Date: 04/29/94

#### RATIONALE FOR CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A Phase I excavation was conducted on April 29, 1994, to 12 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the pit. Approximately 45 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 527 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 30.2 mg/kg, and a TPH concentration of 660 mg/kg. TPH was above required remediation levels for the Hazard Ranking Score.

On July 11, 1995, a Phase II borehole was drilled to 14 feet below ground surface. Auger refusal was encountered at 12.5 feet and the core barrel was driven to 14 feet without any recovery.

On November 30, 1995, a Phase III excavation was conducted to 17 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis of benzene, total BTEX, and TPH. Groundwater was not encountered in the pit. Approximately 280 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated a concentration of 0 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3.0, and a TPH concentration of 114 mg/kg.

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

- The primary source, discharge to the pit, has been removed for almost six years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Groundwater was not encountered in the excavations or borehole.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Based on the Hazard Ranking Score, benzene and total BTEX were below required remediation levels for the Hazard Ranking Score.



#### FIELD PIT SITE ASSESSMENT FORM

	Meter: 72014 Location: FEDERAL GAS UNIT 3 #1
GENERAL	Operator #: 0203 Operator Name: Amoco P/L District: BLOOMFIELD
ERA	Coordinates: Letter: W Section 23 Township: 29 Range: 10
GEN	Or Latitude Longitude
	Pit Type: Dehydrator Location Drip: Line Drip: Other:
	Site Visit Date: <u>4.11.94</u> Run: 10 42
	NMOCD Zone: Inside Land Type: BLM (From NMOCD Vulnerable State Maps)  Zone Zone Indian
SITE ASSESSMENT	Depth to Groundwater Less Than 50 Feet (20 points)  50 Ft to 99 Ft (10 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?  YES (20 points) NO (0 points)
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)  200 Ft to 1000 Ft (10 points)  Greater Than 1000 Ft (0 points)  Name of Surface Water Body SAN THAN RIVER
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
	TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: Two Pits on Location will close only one. PIT 15 DRY, Location is South of Hwy. 64 To Blanco And AT A HIGHER ELEVATION THAN THE SAN JUAN RIVER.

	ORIGINAL PIT LOCATION
LOCATION	Original Pit: a) Degrees from North Footage to Wellhead/3/_ b) Degrees from North Footage to Dogleg  Dogleg Name c) Length:21' Width:16' Depth:2'
ORIGINAL PIT LOC	21' 16' 131' WELLHERD
	Remarks:  STARTED TAKING PICTURES AT 2:10 P.M.  END DUMP
REMARKS	
R	
	Completed By:
	Signature Date

### FIELD T REMEDIATION/CLOSUI FORM

GENERAL	Meter: 72014 Location: Federal Gus unit 3#1  Coordinates: Letter: N Section23 Township: 29 Range: 10  Or Latitude Longitude Longitude Date Started: 4/29/94 Area: 10 Run: 42
	945046
SNC	995046  Sample Number(s): 4P9
'ATIC	Sample Depth: Feet
OBSERVATIONS	Final PID Reading <u>527 ppm</u> PID Reading Depth <u>12</u> Feet
FIELD OBS	Yes No  Groundwater Encountered (1) (2) Approximate Depth +39-94-939 Feet
	Remediation Method :
SURE	Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  (1) Approx. Cubic Yards  (2)  (3)
CLOSU	Soil Disposition:  Envirotech (1) (3) Tierra  Other Facility (2) Name:
	Pit Closure Date: 4-29-94 Pit Closed By: BEI
<b>TEMARKS</b>	Remarks: Started Remediating pit to To 12' Fast side wall has a black hayer from approx 2' down extending approx. Ift took VC Sample PID Reading 15527 ppm at 70° closed pit
<b>†</b>	Signature of Specialist: James J Juvoc (SP3191) 04/07/94



## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	260	945046
MTR CODE   SITE NAME:	72014	N/A
SAMPLE DATE   TIME (Hrs):	4/29/94	1645
SAMPLED BY:	N	I/A
DATE OF TPH EXT.   ANAL.:	5-2-94	5-2-94
DATE OF BTEX EXT.   ANAL.:	5 5 94	5/8/94
TYPE   DESCRIPTION:	VC	Bown Sand Clay

REMARKS:	

#### **RESULTS**

PARAMETER	RESULT	UNITS				
			DF	Q	M(g)	V(ml)
BENZENE	L0.50	MG/KG		X(0		
TOLUENE	L0.50	MG/KG		KID		
ETHYL BENZENE	2.2	MG/KG		χιο		
TOTAL XYLENES	27	MG/KG		χιθ		
TOTAL BTEX	30.2	MG/KG				
TPH (418.1)	+59 6W	MAD  /y gyMG/KG			2,06	28
HEADSPACE PID	527	PPM				
PERCENT SOLIDS	93.2	%			erlan Se utversitä	

			- TPH is by I	EPA Method 418.1 and BTEX is by	EPA Method 8020 -	•		
		te Recovery wa	is at $5\hat{a}$	% for this sar	nple All QA	/QC was ac	cceptable.	
Nr ·	`tive:	ITA	Results	altached	Sur	rogate	ie covery	1200
	<i>ا</i> ل	utside	ATI	ac limit	due	0/0	matrix	interferm
DF =	Dilutio	n Factor Used	0					Ü
Appr	oved By	1: John	Tardo		Date: _	<u> </u>	494	



#### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX, MTBE (EPA 8020)

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

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLID. #	_	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
31	945044	NON-AQ	04/29/94	05/05/94	05/06/94	2
32	945045	NON-AQ	04/29/94	05/05/94	05/06/94	10
33	945046	NON-AQ	04/29/94	05/05/94	05/08/94	20
PARAMETER BENZENE			UNITS		32	33
BENZENE			MG/KG		1.4	<0.50
TOLUENE			MG/KG	1.1	<0.25	<0.50
THYLBENZENE			MG/KG		7.9	2.2
OTAL XYLENES			MG/KG		72	27
METHY	L-t-BUTYL ETHER		MG/KG	<0.24	<1.2	<2.4
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)			65	93	52*

<sup>\*</sup>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

**ORIGINAL** INVOICE

AL 72053

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

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

505-325-2841 Telephone:

TERMS:

EPNG SAMPLE # 945008

Authorized by: JOHN LAMBDIN

P.O. Number:

945027

945032, 945033, 945035 +0945039, 945041

to 945050, 945034 and 945040

Samples:

NON-AQ 39

38822

received 05/03/94

Project:

PIT CLOSURE

Project No.:

24324

TEST DESCRIPTION	QUA	NTITY	PRICE	TOTAL
EPA METHOD 8015M/8020 -1 BTEX/MTBE (8020) -1 NM GROSS RECEIPTS TAX	.0 % .0 %	1 38 1	125.00 80.00 165.57	112.50 2736.00 165.57
NM GROSS RECEIPTS TAX  NM 1994  RECEIPTS TAX  RECEIPTS TAX	14 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Amou	********** nt due: *******	3014.07
5/17/94  APPHOVED FOR PAYMENT  DATE	. 2010 - 2010			

Net 30 Days - 11/2% Finance Charge on Balance Due over 30 days.

CHAIN OF CUSIODY RECORD

PROJECT NUMBER PROJECT NAME			9	_	REQUESTED ANALYSIS	NALYSIS	CONT ACT LABORATORY P. O. NUMBER
_	Pit Closure Project # 24324						
SAMPLERS: (Signature)	DATE:		MUM ITAIN APLE 3PPLE		)50	**	
Samuel 1	Tieras 1	4-44-24			, 80 (E)	- 2	
LABID DATE TIME MA	MATRIX SAMPLE NUMBER		OT PO	Т А <b>Ч</b> Э	78 Aq3	235	REMARKS
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REQUESTED TURNAROUND TIME:		SAMPLE RECEIPT REMARKS	MARKS			RESULTS & I	RESULTS & INVOICES TO: FIELD SERVICES LABORATORY
CARRIER CO.							EL PASO NATURAL GAS COMPANY P. O. BOX 4990
BILL NO.:		CHARGE CODE				505-599-2-144	
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White - Testing Laboratory Canary - EPNG Lub Pink - Field Sampler

#### RECORD OF SUBSURFACE EXPL KATION

Well # Philip Environmental Services Corp. 4000 Monroe Road **EPNG Pits** Project Name Fermington, New Mexico 87401 Phase 14509 Project Number (506) 326-2262 FAX (506) 326-2388 Federal GasUnit **Project Location** Well Logged By Elevation K. Padilla, F. Rivera, D. Charley Personnel On-Site Borehole Location 129 Contractors On-Site GWL Depth Client Personnel On-Site Logged By Drilled By **Drilling Method** Date/Time Started CGI, PID Air Monitoring Method Date/Time Completed

				_11/5				
Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH	Drilling Conditions & Blow Counts S
0 5 5 10				Backfill to 12!				
 	Į	12.5 14.0	0/5	3. No recovery BOH-14.0				
20 								
- - 30 - -								
35     40								

Comments: fugers refused at 12.5! Sounds like cobble. Was able to drive spoon to 14! but got no recovery. Stopped at 14! BH grouted to sufface.

Geologist Signature Lauch Lelly

# FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

GENERAL	Meter: 7&014 Location: Federal Gas Un9+ 3#/-  Coordinates: Letter: Al Section_23 Township: 29 Range: 44  Or Latitude Longitude Run: 42  Date Started: 4-30-95 Area: 40 Run: 42	
TELD OBSERVATIONS	Sample Number(s): $A95$ ————————————————————————————————————	
CLOSURE	Remediation Method it  Excavation \( \times (1)\) Approx. Cubic Yards \( \frac{280 \to 1446}{280 \to 1466}\)  Onsite Bioremediation \( \preceq (2)\)  Backfill Pit Without Excavation \( \preceq (3)\)  Soil Disposition:  Envirotech \( \preceq (1)\)  Other Facility \( \preceq (2)\)  Pit Closure Date: \( \frac{1/30.95}{2600} \)  Pit Closure Date: \( \frac{1/30.95}{2600} \)  Pit Closure By: \( 26000000000000000000000000000000000000	
FMARKS	Remarks: Dug to 17 Ft Tack PID reading they were.  1) wall of ppm 5 wall of ppm Enall of ppm Wwall of ppm Bot 02 ppm Comp 03 ppm	
	Signature of Specialist: Janes Flenor	

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#### FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	IDENTIFICAT	ION			
	Field	e in		Lab ID		
SAMPLE NUMBER:	JP 95		9478			i I
MTR CODE   SITE NAME:	72014		Federal	Grandbuit	3#1	
SAMPLE DATE   TIME (Hrs):	11-30-95	•	1100			
PROJECT:	Phase III E.					
DATE OF TPH EXT.   ANAL.:	12/	1/95				
DATE OF BTEX EXT.   ANAL.:	12/1/95	c .	12/,	95		
TYPE   DESCRIPTION:	VC		Brown 50	and & C	ay	į
·					l	
Field Remarks:						
		RESULTS	<del></del>			
<del></del>		NESOL 13			-	
PARAMETER	RESULT	UNITS	DF	QUALIFIE Q	RS M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 6.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG			ļ. <u></u>	
TPH (418.1)	114	MG/KG			2.05	28
HEADSPACE PID	_	PPM				
PERCENT SOLIDS	91,6	%				
The Surrogate Recovery was at **arrative:	TPH is by EPA Method 93%	418.1 and BTEX is by EP for this sample		was accepta	ıble.	
DF = Dilution Factor Used						

#### **BTEX SOIL SAMPLE WORKSHEET**

Fil	e :	947819	Date Printed :	12/2/95
Soil Mas	s (g):	5.06	Multiplier (L/g) :	0.00099
Extraction vo		10	CAL FACTOR (Analytical):	200
Shot Volum	e (uL) :	50	CAL FACTOR (Report):	0.19763
			DILUTION FACTOR:	1 Det. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	<b>0.000</b> 0.494
Toluene	(ug/L) :	0.23	Toluene (mg/Kg):	<b>0.045</b> 0.494
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	<b>0.000</b> 0.494
p & m-xylene	(ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000 0.988
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg):	0.000 0.494
·			Total xylenes (mg/Kg):	<b>0.000</b> 1.482
			Total BTEX (mg/Kg):	0.045

BEIF SO Well EXC.

**CHAIN OF CUSTODY RECORD** 

Page\_

	PROJECT NUMBER		AME Sure P	PROJECT NAME PIt Closure Project # 24324		-			REQUESTED ANALYSIS	ANALYSIS		CONTPACT LABORATORY P. O. NUMBER	
	SAMPLERS: (Signature)	Same?	13	MP. DATE:	28-08-11	MUM JAT	SAMA2 BAYT HQ	Hd 1.814	8050 EX		**		
	LABID DATE	TIME	MTRIX	SAMPLE NUMBER	WBER				A93		250	REMARKS	
क	5605.10 6186	0011	1:05	ADO	136	1	2	X	×		45	Federal Gas Unit 3 #1	HOEL
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	CARRIER CO.											EL PASO NATURAL GAS COMPANY P. O. BOX 4990	<u> </u>
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