DEPUTY PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DECEIVED 1398

### SANDOVAL GAS COM C 1E Meter/Line ID - 95407

<del>OH COM. DIV</del>.

SITE DETAILS

Unit: E

NMOCD Hazard Ranking: 10

Legals - Twn: 30

Land Type: 2 - Federal

**Operator:** AMOCO PRODUCTION COMPANY

Rng: 09

Pit Closure Date: 09/12/94

#### **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.

## FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 95407 Location: SANDOVAL GAS COM CIE  Operator #: D203 Operator Name: AMOCO P/L District: BLOOMEISLA  Coordinates: Letter: E Section 35 Township: 30 Range: 9  Or Latitude Longitude  Pit Type: Dehydrator X Location Drip: Line Drip: Other:  Site Assessment Date: 5.26.94 Area: 10 Run: 43						
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  (From NMOCD  Maps)  Inside  Outside  Outside  (2)    Indian						
	TOTAL HAZARD RANKING SCORE:/O POINTS						
REMARKS	Remarks: Two PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS RIGHT OFF THE NORTH SIDE OF CR 4599. REDLINE AND TOPO						
RE	CONFIRMED LOCATION INSIDE V.Z.						
	1 (SP3190) 04/08/94						

	ORIGINAL PIT LOCATION
·	Original Pit: a) Degrees from North 127° Footage from Wellhead 127' b) Length: 16′ Width: 16′ Depth: 4′
ORIGINAL PIT LOCATION	WELLHEAD 16
	Remarks: TOOK PICTURES AT 10:06 A.M. END DUMP
RKS	
REMAR	
,	
	Completed By:
	Signature Date

# PHASE I EXCAVATION

# FIELD PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 95407 Location: Sandowal GAS Com CIE  Coordinates: Letter: E Section 35 Township: 30 Range: 9  Or Latitude Longitude  Date Started: 9/12/94 Run: 10 43
FIELD OBSERVATIONS	Sample Number(s): KD 251  Sample Depth: 12' Feet  Final PID Reading 382 ppm PID Reading Depth 12' Feet  Yes No  Groundwater Encountered
CLOSURE	Remediation Method:  Excavation Onsite Bioremediation Backfill Pit Without Excavation  Soil Disposition: Envirotech Other Facility  Name:  Pit Closure Date: 9/12/94  Pit Closed By: BET
REMARKS	Remarks: Excavated pt to 12', TOOK pid Sample, Closed  Pit  Signature of Specialist: My Deally  (SP3191) 03/16/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

# SAMPLE IDENTIFICATION

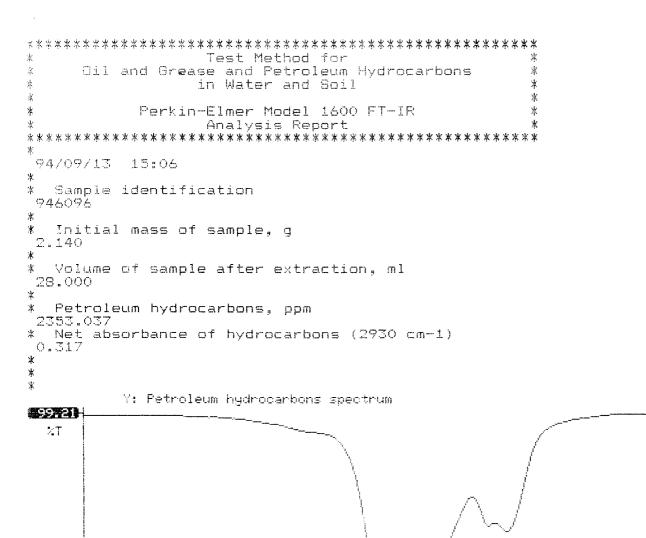
	Field ID	Lab ID
SAMPLE NUMBER:	KD 25	946096
MTR CODE   SITE NAME:	95407	N/A
SAMPLE DATE   TIME (Hrs):	9-12-9-	1340
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	9-13-94	9-13-94
DATE OF BTEX EXT.   ANAL.:	9-12-94	9-17-94
TYPE   DESCRIPTION:	٧C	Red Sand/Clay

## RESULTS

PARAMETER	RESULT	UNITS		QUALIF	ERS	
L WILLIAM 1991			DF	Q	M(g)	V(ml)
BENZENE	۷0.5	MG/KG	20			
TOLUENE	١٦	MG/KG	20			
ETHYL BENZENE	<b>خ.</b> \$	MG/KG	20			
TOTAL XYLENES	270	MG/KG	20	ļ		
TOTAL BTEX	293	MG/KG				
трн (418.1) 2350	<del>2353,0</del>	# 9/16/94 MG/KG		<u> </u>	2.14	28
HEADSPACE PID	382	PPM				
PERCENT SOLIDS	89.3	%				

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

The Surrogate F	Recovery was	at <u>2৪</u> ৫	% for this	s sample	All QA/	QC was	acceptable.		
Narrative:			^				1	a	٠,
174	Results	Affached.	sur-Deale	Reco	rerd.	was	0045101	B17	<u> </u>
limite	de to	matrix	interfere	mu.					
DF = Dilution f	actor Used								
Approved By: _	1				Date: _		1/23/94		



3000

47.68

3200

15:06

 $\circ m^{-1}$ 

2800



ATI I.D. 409354

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/14/94, 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.

Letítia Krakowski, Ph.D.

Project Manager

MR:jt

Enclosure



#### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 409354

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZ <b>ED</b>	DIL. FACTOR		
16 946096	NON-AQ	09/12/94	09/14/94	09/17/94	20		
17 946097	ОМ-ИОИ	09/12/94	09/14/94	09/17/94	20		
PARAMETER		UNITS	16	17			
BENZENE		MG/KG	<0.5	<0.5			
TOLUENE		MG/KG	17	60			
ETHYLBENZENE		MG/KG	5.5	<0.5			
TOTAL XYLENES		MG/KG	270	18			
SURROGATE:							
BROMOFLUOROBENZENE (%)			280*	107			

<sup>\*</sup>OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

# PHASE II

#### Borehole # RECORD OF SUBSURFACE EXILORATION PHILIP ENVIRONMENTAL 4000 Morroe Road Project Name Farmington, New Mexico 87401 Phase Project Number 4000 (505) 326-2262 FAX (505) 326-2388 Project Location Well Logged By Elevation Borehole Location Personnal On-Site Contractors On-Site GWL Depth CM Chapee Client Personnel On-Site Logged By Drilled By M. Donahur Date/Time Started S/15/95 ~ 1530 Date/Time Completed S/15/95 ~ 1745 **Drilling Method** Air Monitoring Method Depth Sample uscs Lithology Air Monitoring **Drilling Conditions** Sample Description Depth Sample Type & Units: NDU & Blow Counts Classification System: USCS Symbol Change (Feet) interval Recovery Number вн (feet) (inches) Back fill 10 hard ... Is cobbles JAU 4 4" It brailty Sand, Uf-fine sand, lopse 1547 15 ١ A/A with cobbles 150 4 20 AIT 41. 25 25-27 156 porstitions 4 ک 135 149 It be weathered Sand Stone, f-med sand, $\Gamma_{rr}$ 30 J 70-1X Jo-01 TOB JI.S 35

Comments:	Lab sample taken at 30-31' (9ppm Headspace) CMCb	_
	Geologist Signature	-

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# FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

## SAMPLE IDENTIFICATION

	Field ID	Lab iD
SAMPLE NUMBER:	cmc b	914817
MTR CODE   SITE NAME:	95407	N/A
SAMPLE DATE   TIME (Hrs):	5-15-95	1628
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	5-16-95	5-16-95
DATE OF BTEX EXT.   ANAL.:	5/16/95	5/17/95
TYPE   DESCRIPTION:	G	Light green sound & Ctan
· · · · · · · · · · · · · · · · · · ·		

REMARKS:	
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## **RESULTS**

PARAMETER	RESULT	UNITS	Terrer (a) and service	QUALIFIE	RS	
			DF	Q	M(g)	V(ml)
BENZENE	(0.50	MG/KG	0.20161		4.96	20
TOLUENE	<0.50	MG/KG		<u> </u>		
ETHYL BENZENE	<0.50	MG/KG				
TOTAL XYLENES	21.51	MG/KG			1	
TOTAL BTEX	< 3,01	MG/KG				
TPH (418.1)	EE 76.6	SHELAS MG/KG			2.01	28
HEADSPACE PID	9	PPM				
PERCENT SOLIDS	93,3	%				

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

The Surrogate Recovery was at

933 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

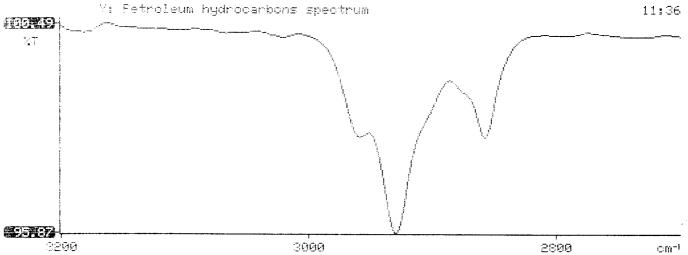
Annroved By:

John Loll

Date:

5/26/95

```
Test Method for
    Cil and Grease and Petroleum Hydrocarbons
                                           _{*}
                                           *
              in Water and Scil
                                           菜
         Perkin-Elmer Model 1600 FT-IR
                                           ^{*}
               Analysis Report
75/05/14 L1:36
8 Sample identification 946817
 Initial mass of sample, g
2.010
 Volume of sample after extraction, ml
28.000
  Petroleum hydrocarbons, ppm
76.593
Net absorbance of hydrocarbons (2930 cm-1)
-15
25
*
```



## **BTEX SOIL SAMPLE WORKSHEET**

<b>File</b> : 94	6817A	Date Printed : 5/18/95
Soil Mass (g):	4.96	Multiplier (L/g) : 0.00101
Extraction vol. (mL):	20 [	OF (Analytical) : 200
Shot Volume (uL):	100	<b>DF</b> (Report) : 0.20161

							Det. Limit
Benzene	(ug/L)	:	0.00	Benzene	(mg/Kg):	0.00	0.504
Toluene	(ug/L)	:	0.00	Toluene	(mg/Kg):	0.00	0.504
Ethylbenzene	(ug/L)	:	0.00	Ethylbenzene	(mg/Kg):	0.00	0.504
p & m-xylene	(ug/L)	:	0.00	p & m-xylene	(mg/Kg):	0.00	1.008
o-xylene	(ug/L)	:	0.00	o-xylene	(mg/Kg):	0.00	0.504
				Total xylenes	(mg/Kg):	0.00	1.512
				Total BTEX	(mg/Kg):	0.00	

## **EL PASO NATURAL GAS**

## **EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\946817A Method : C:\LABQUEST\METHODS\9001.MET

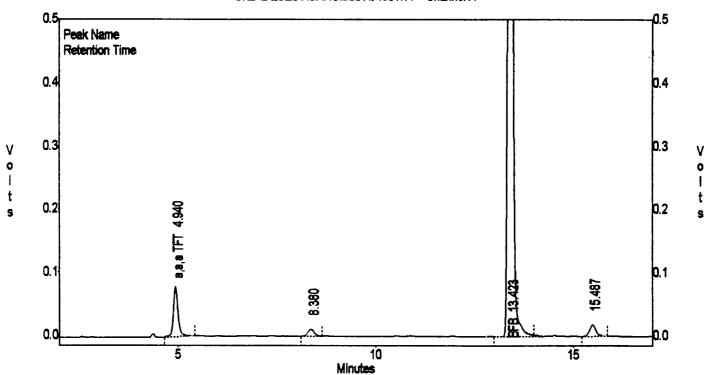
Sample ID : 946817,4.96/100uL Acquired : May 17, 1995 23:21:25 Printed : May 17, 1995 23:47:39

User : Tony

#### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.467	0	0.0000
a,a,a TFT	4.940	659070	88.1515
TOLUENE	6.803	0	0.0000
ETHYLBENZENE	10.550	0	0.0000
M & P XYLENE	10.903	0	0.0000
O XYLENE	11.953	0	0.0000
BFB	13.423	13937805	93.2850

#### C:\LABQUEST\CHROM001\946817A - Channel A



### **EL PASO NATURAL GAS**

### **EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\946817A Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 946817,4.96/100uL Acquired : May 17, 1995 23:21:25 Printed : May 17, 1995 23:47:43

User : Tony

#### Channel B Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.467	0	0.0000
a,a,a TFT	4.940	726609	86.4010
TOLUENE	6.803	0	0.0000
ETHYLBENZENE	10.550	0	0.0000
M & P XYLENE	10.903	0	0.0000
O XYLENE	11.957	0	0.0000
BFB	13.427	4337188	90.8479

### C:\LABQUEST\CHROM001\946817A - Channel B

