DEPUTY OIL & GAS INSPECTOR

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

JUL 21 1998

Approved

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

JOHNSON GAS COM D#1
Meter/Line ID - 73734

SITE DETAILS

Legals - Twn: 30 **Rng:** 12 **Sec:** 15 **Unit:** G
NMOCD Hazard Ranking: 40 **Land Type:** 4 - Fee
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date:** 04/26/94

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.
- 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: 73734 Location: JOHNSON GAS COM D #1

Operator #: 0203 Operator Name: AMOCO P/L District: KUTZ

Coordinates: Letter: G Section 15 Township: 30 Range: 12

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: ___ Line Drip: ___ Other: _____

Site Visit Date: 4.6.94 Run: 02 63

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside Vulnerable Zone ☒
Outside ☐

Land Type:
BLM ☐
State ☐
Fee ☒
Indian _____

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 IRRIGATION CANAL (FLORA VISTA)
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 40 **POINTS**

REMARKS

Remarks RT 4.6.94 ~~THREE~~ SIX PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS KIND OF ON A HILL SURROUNDED BY HOUSING AND PASTURE.

ORIGINAL PIT LOCATION

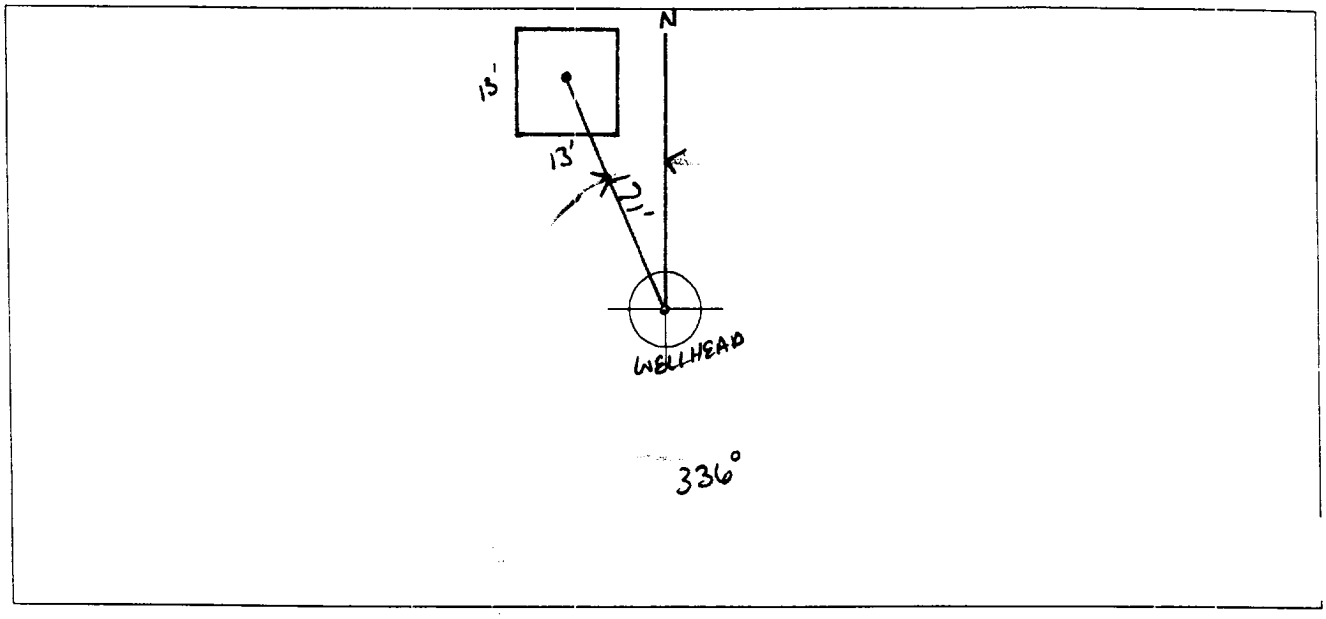
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 336° Footage to Wellhead 171'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 13' Width : 13' Depth : 1'



REMARKS

Remarks :

STARTED TAKING PICTURES AT

END DUMP

Completed By:

Robert Thompson
Signature

4.12.94
Date

PHASE I
EXCAVATION

FIL) PIT REMEDIATION/CLO. RE FORM

GENERAL

Meter: 73734 Location: Johnson Gas Com D #1

Coordinates: Letter: G Section 15 Township: 30 Range: 12

Or Latitude _____ Longitude _____

Date Started : 4-26-94 Area: 02 Run: 63

FIELD OBSERVATIONS

Sample Number(s): 945019 VW31 _____ _____ _____

Sample Depth: 4 Feet

Final PID Reading 300 PID Reading Depth 4 Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 20

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 4-26-94 Pit Closed By: BEI

REMARKS

Remarks : Pit is dry, about 10-foot Dainhill VW 4-26-94 and four feet lower than an Amoco Pit that has fluid in it. Landowner was asking about contamination of his well. Dug 3 feet + hit rock. NO Markers. Scraped 1 more foot to see if hole would clean up

Signature of Specialist: Vale Wilson

(SP3191) 04/07/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID (DWO 4/29/94)
SAMPLE NUMBER:	VW 31	~~945019~~ 945019
MTR CODE | SITE NAME:	73734	N/A
SAMPLE DATE | TIME (Hrs):	4/26/94	1120
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	4-28-94	4/28/94
DATE OF BTEX EXT. | ANAL.:	5/9/94	5/10/94
TYPE | DESCRIPTION:	VC	Grey Sand/Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.5	MG/KG				
TOLUENE	7.4	MG/KG				
ETHYL BENZENE	4.3	MG/KG				
TOTAL XYLENES	86	MG/KG				
TOTAL BTEX	98.2	MG/KG				
TPH (418.1) 2640	~~2644~~ (DWO 5/17/94)	MG/KG			2.16	28
HEADSPACE PID	300	PPM				
PERCENT SOLIDS	90	%				

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

The Surrogate Recovery was at 101 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: John Fabela Date: 5/21/94

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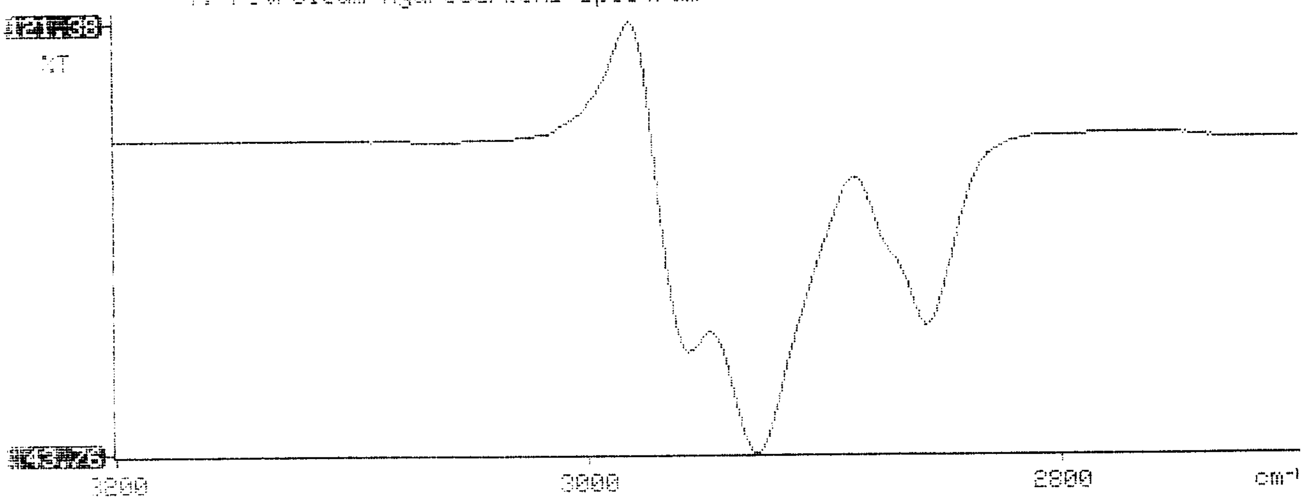
****************************************************
*                  Test Method for                 *
*   Oil and Grease and Petroleum Hydrocarbons      *
*               in Water and Soil                  *
*                                                  *
*          Perkin-Elmer Model 1600 FT-IR           *
*                 Analysis Report                  *
****************************************************
*
 94/04/28  15:16
*
*  Sample identification
 545019
*
*  Initial mass of sample, g
 2.160
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 2644.061
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.361
*
*
*
```

Y: Petroleum hydrocarbons spectrum 15:16



Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

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

Analytical Technologies, Inc.

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 ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945017	NON-AQ	04/25/94	05/09/94	05/10/94	1
11	945018	NON-AQ	04/25/94	05/09/94	05/10/94	5
12	945019	NON-AQ	04/26/94	05/09/94	05/10/94	20

PARAMETER	UNITS	10	11	12
BENZENE	MG/KG	<0.025	<0.12	<0.5
TOLUENE	MG/KG	<0.025	<0.12	7.4
ETHYLBENZENE	MG/KG	<0.025	<0.12	4.3
TOTAL XYLENES	MG/KG	<0.025	0.77	86
METHYL-t-BUTYL ETHER	MG/KG	<0.12	<0.60	<2.4
SURROGATE:				
BROMOFLUOROBENZENE (%)		104	149*	101

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFENCE

Analytical Technologies, Inc.

COPY

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

Telephone: 505-325-2841

Authorized by: JOHN LAMBDIN

P.O. Number: 38822

Samples: 39 NON-AQ

Project: PIT CLOSURE
Project No.: 24324

EPNG Sample # 945008 to 945027
945032, 945033, 945035 to 945039, 945041 to 945050, 945034 and 945040
received 05/03/94

TEST DESCRIPTION	QUANTITY		PRICE	TOTAL
EPA METHOD 8015M/8020	-10 %	1	125.00	112.50
BTEX/MTBE (8020)	-10 %	38	80.00	2736.00
NM GROSS RECEIPTS TAX		1	165.57	165.57

MAY 1994 RECEIVED

****
Amount due: 3014.07
****

5/17/94
APPROVED FOR PAYMENT

DATE _____
CHARGE 50% 108-52452-24-0001-0012-51-2010
50% 108-51570-24-0001-0012-51-2010

SIGNATURE _____
David Hall
541-3531

TERMS: Net 30 Days - 1½% Finance Charge on Balance Due over 30 days.

ATI-003

DISTRIBUTION: White-Customer, Yellow-File, Pink-Accounting

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase ~~601~~ 6000
Project Location Johnson GasCom D#1, T3734

Elevation
Borehole Location T30, R12, S.15, G
GWL Depth
Logged By S.Kelly
Drilled By M. Donohue
Date/Time Started 10/5/95, 1500
Date/Time Completed 10/5/95, 1630

Well Logged By S.Kelly
Personnel On-Site M. Donohue, J. Long
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼" ID HSA
Air Monitoring Method CGI, PID

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	~~S~~	Drilling Conditions & Blow Counts
0				Backfill to 4'						
5										
10										
15	1	13-15	.65'/2.0'	silty SAND, tan, 5-15% silt, fine sand, dense, poorly graded, fine.					1/0	1525
20				TOB - 15.0'						
25										
30										
35										
40										

Comments: 13'-15' sample (SEK 93) sent to lab. (BTEX & TPH) Sample was bagged and iced prior to being put in jar. BH grouted to the surface

Geologist Signature Sarah Kelly

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK93	947595
MTR CODE | SITE NAME:	73734	Johnson Gas Com D #1
SAMPLE DATE | TIME (Hrs):	10-05-95	1525
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	10/6/95	
DATE OF BTEX EXT. | ANAL.:	10/6/95	10/6/95
TYPE | DESCRIPTION:	VG	

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	110	MG/KG			1.95	25
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	92.6	%				

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

The Surrogate Recovery was at 95% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 10-11-95

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*****************************************************
*                    Test Method for                *
*      Oil and Grease and Petroleum Hydrocarbons    *
*                  in Water and Soil                *
*                                                   *
*            Perkin-Elmer Model 1600 FT-IR          *
*                  Analysis Report                  *
*****************************************************
*
 93/10/06  16:04
*
*  Sample identification
 947595
*
*  Initial mass of sample, g
 1.980
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 -293.013
*  Net absorbance of hydrocarbons (2930 cm-1)
 -0.025
*
*
*
```

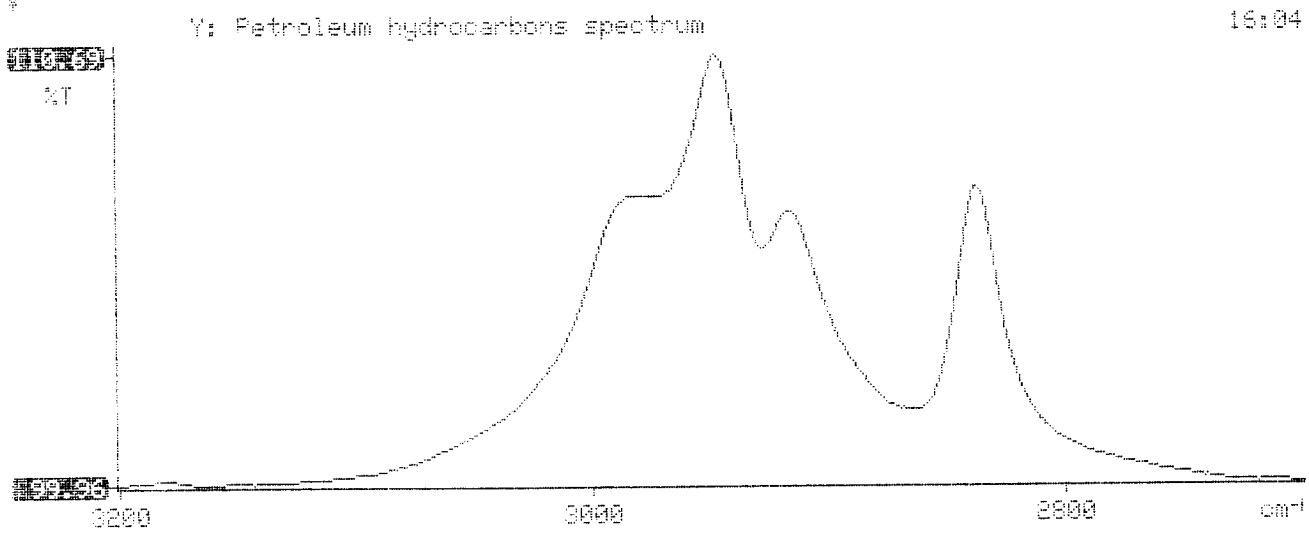

BTEX SOIL SAMPLE WORKSHEET

File	947595	**Date Printed**	10/7/95
Soil Mass (g)	5.03	**Multiplier (L/g)**	0.00099
Extraction vol. (mL)	10	**DF (Analytical)**	200
Shot Volume (uL)	50	**DF (Report)**	0.19881

				Det. Limit
Benzene (ug/L)	0.18	**Benzene (mg/Kg):**	**0.036**	0.497
Toluene (ug/L)	0.19	**Toluene (mg/Kg):**	**0.038**	0.497
Ethylbenzene (ug/L)	0.12	**Ethylbenzene (mg/Kg):**	**0.024**	0.497
p & m-xylene (ug/L)	0.38	p & m-xylene (mg/Kg):	0.076	0.994
o-xylene (ug/L)	0.18	o-xylene (mg/Kg):	0.036	0.497
		Total xylenes (mg/Kg):	**0.111**	1.491
		Total BTEX (mg/Kg):	**0.209**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\100695-0.012
Method : C:\LABQUEST\METHODS\0-092095.MET
Sample ID : 947595,5.03G,50U
Acquired : Oct 06, 1995 22:46:15
Printed : Oct 06, 1995 23:16:38
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.157	67078	0.1793
a,a,a-TFT	10.510	8817946	100.7929
TOLUENE	12.923	67752	0.1862
ETHYLBENZENE	17.267	41735	0.1240
M,P-XYLENES	17.643	153470	0.3825
O-XYLENE	18.813	59544	0.1818
BFB	19.877	51880424	95.1793