EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

Denny Foust
DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

Approved

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

BRUINGTON GAS COM #1E
Meter/Line ID - 90935

SITE DETAILS

Legals - Twn: 29 **Rng:** 11 **Sec:** 14 **Unit:** L
NMOCD Hazard Ranking: 20 **Land Type:** 4 - Fee
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 02/10/95**

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: 90935 Location: BRUINGTON GAS COM #1E
Operator #: 0203 Operator Name: Amoco P/L District: BLOOMFIELD
Coordinates: Letter: L Section 14 Township: 29 Range: 11
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 6.7.94 Area: 10 Run: 81

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☐ (1)
State ☐ (2)
Fee ☒ (3)
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☐ (1)
50 Ft to 99 Ft (10 points) ☒ (2)
Greater Than 100 Ft (0 points) ☐ (3)

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)

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 CITIZENS DITCH
(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds)
Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 20 **POINTS**

REMARKS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS JUST N.E. OF BLOOMFIELD. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.

DIG & HAUL

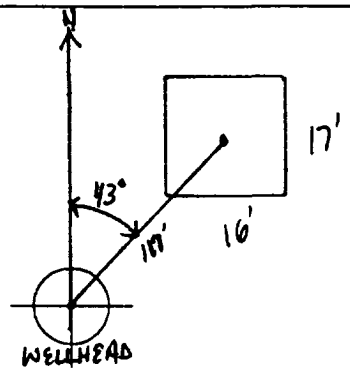
(SP3190) 04/08/94

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 43° Footage from Wellhead 117'

b) Length : 17' Width : 16' Depth : 3'



REMARKS

Remarks :

TOOK PICTURES AT 3:54 P.M.

DUMP TRUCK-BOBTAIL

Completed By:

Robert Thompson

Signature

6.7.94

Date

PHASE I
EXCAVATION

GENERAL

Meter: 90935 Location: Brunington # 1E

Coordinates: Letter: L Section 14 Township: 28 Range: 11

Or Latitude _____ Longitude _____

Date Started : 2-10-95 Run: 10 81

FIELD OBSERVATIONS

Sample Number(s): MK 376 _____ _____ _____

Sample Depth: 9' Feet

Final PID Reading 881 PID Reading Depth 9' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 40

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☐ ☒ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 2-10-95 Pit Closed By: BCI

REMARKS

Remarks : Arrived Dug sample Hole Pit Appeared to be clean after 3' soil turn black Hit Rock 9' Soil Blackish tan very strong Hydrocarbon odor

Signature of Specialist: Morgan Killion

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:	mk 376	946666
MTR CODE | SITE NAME:	90935	N/A
SAMPLE DATE | TIME (Hrs):	2-10-95	1615
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	2/17/95	2/17/95
DATE OF BTEX EXT. | ANAL.:	2/21/95	2/22/95
TYPE | DESCRIPTION:	VC	Gray sand and clay

REMARKS: BTEX/TPH at ATI

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.026	MG/KG	1			
TOLUENE	0.23	MG/KG	1			
ETHYL BENZENE	0.14	MG/KG	1			
TOTAL XYLENES	10	MG/KG	D(20)			
TOTAL BTEX	10.4	MG/KG				
TPH (418.1)	420	MG/KG				
HEADSPACE PID	881	PPM				
PERCENT SOLIDS	85.9	%				

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

The Surrogate Recovery was at 73 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results attached D(20) = Diluted 20x, Analyzed 02/22/95

DF = Dilution Factor Used

Approved By: _____ Date: 3-20-95

Analytical Technologies, Inc.

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

ATI I.D. **502381**

February 23, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **02/17/95**, 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.

EPA Method 8020 analyses were added on February 21, 1995 for samples 946659, 946660, 946661, 946662, 946663, 946664, 94666, 946667, 946668, 946669, 946680, 946682 per John Lambdin.

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:jt

Enclosure

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 502381

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
09	946666	NON-AQ	02/10/95	02/21/95	02/22/95	1
10	946667	NON-AQ	02/10/95	02/21/95	02/22/95	1
11	946668	NON-AQ	02/10/95	02/21/95	02/22/95	1

PARAMETER	UNITS	09	10	11
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	0.23	0.18	0.088
ETHYLBENZENE	MG/KG	0.14	0.037	<0.025
TOTAL XYLENES	MG/KG	10 D(20)	0.94	0.37
SURROGATE:				
TRIFLUOROTOLUENE (%)		73	86	90

D(20)=DILUTED 20X, ANALYZED 02/22/95

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: EL PASO NATURAL GAS CO.	ATI I.D.	: 502381
PROJECT #	: 24324	DATE RECEIVED	: 02/17/95
PROJECT NAME	: PIT CLOSURE	DATE ANALYZED	: 02/17/95

PARAMETER	UNITS	09	10	11	12
PETROLEUM HYDROCARBONS, IR	MG/KG	420	470	380	<20

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
Project Number 14509 Phase 6000 / 77
Project Location Bruington Gas Com 1E 90935

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By ~~M DONOHUE~~ K. Padilla
Date/Time Started 6/13/95 - 0635
Date/Time Completed 6/13/95 - 0850

Well Logged By CM Chance
Personnel On-Site K. Padilla, F. Rivera, D. Tsalate
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ	BH	S HS	Drilling Conditions & Blow Counts
0				Backfill to 9'						
5										
10										
15	1	15-17	6"	Lt Gry sandy CLAY, abnt vf-f sand, tr med sand, stiff, dry, odor med plastic			0	38	1364 / 933	0653 hr - hard drilling
20	2	20-22	8"	AA			0	450	1100 / 852	0711
25	3	25-26.5	8"	AA			6	380	130 / 101	0737
30	4	30-32	6"	lt Gry silty CLAY, v. stiff, low plastic, dry			0	300	141 / 103	0741
35	5	33-35	6"	AA			0	178	2 / 2	0744 Refusal @ 33' 0756
				TDB 35'						
40										

Comments: 33-35' sample (CM(49) sent to lab. (BTEX, TPH) BH grouted to surface

Geologist Signature

El Paso Natural Gas Company

Phase II

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 49	946891
MTR CODE | SITE NAME:	90935	N/A
SAMPLE DATE | TIME (Hrs):	6-13-95	0756
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-15-95	6-15-95
DATE OF BTEX EXT. | ANAL.:	6-16-95	6-16-95
TYPE | DESCRIPTION:	VG	Brown fine Sand & clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	<0.025	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	17.1	MG/KG			2.0	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	89.9	%				

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

The Surrogate Recovery was at 111 % for this sample All QA/QC was acceptable.

Narrative:

All Results attached.

DF = Dilution Factor Used

Approved By: J.P. Date: 6/28/95

****
* Test Method for *
* Oil and Grease and Petroleum Hydrocarbons *
* in Water and Soil *
* *
* Perkin-Elmer Model 1600 FT-IR *
* Analysis Report *
****

95/06/15 11:37

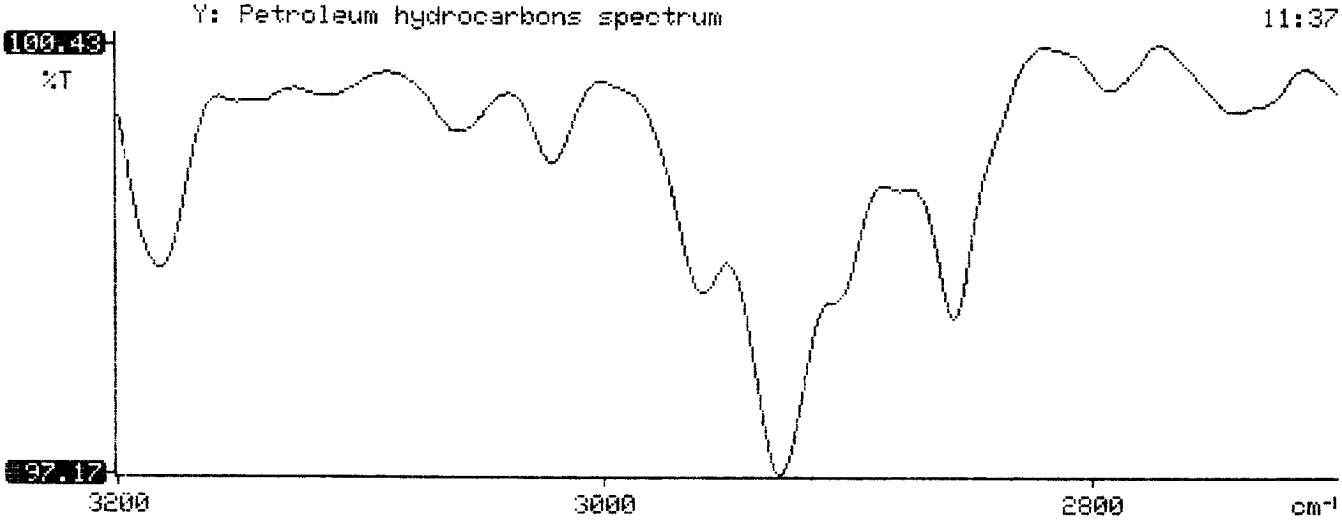
Sample identification
946891

Initial mass of sample, g
2.000

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
17.085

Net absorbance of hydrocarbons (2930 cm-1)
0.012



Analytical Technologies, Inc.

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

ATI I.D. **506376**

June 21, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On **06/16/95**, 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.

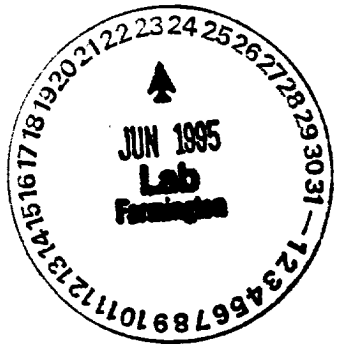
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506376

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946891	NON-AQ	06/13/95	06/16/95	06/16/95	1
02	946892	NON-AQ	06/13/95	06/16/95	06/16/95	1
03	946893	NON-AQ	06/13/95	06/16/95	06/16/95	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES	MG/KG	<0.025	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		111	97	97