Tommy L. Faust
DEPUTY OIL & GAS INSPECTOR

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 21 1998

RECEIVED
JUL 2 1998
OIL CON. DIV.

Approved

DRYDEN 1 E
Meter/Line ID - 94800

SITE DETAILS

Legals - Twn: 28 **Rng:** 08 **Sec:** 28 **Unit:** I
NMOCD Hazard Ranking: 40 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 06/08/94**

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: 94800 Location: Dryden 1-E
Operator #: 0203 Operator Name: Amoco P/L District: Blanco
Coordinates: Letter: I Section 28 Township: 28 Range: 8
Or Latitude ________ Longitude ________
Pit Type: Dehydrator ✓ Location Drip: ____ Line Drip: ____ Other: ________
Site Assessment Date: 5/23/94 Area: 13 Run: 31

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
- Inside [X] (1)
- Outside [ ] (2)

Land Type:
- BLM [X] (1)
- State [ ] (2)
- Fee [ ] (3)
- Indian ________

Depth to Groundwater
- Less Than 50 Feet (20 points) [X] (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) [X] (2) NO (0 points)

Horizontal Distance to Surface Water Body
- Less Than 200 Ft (20 points) [X] (1)
- 200 Ft to 1000 Ft (10 points) [ ] (2)
- Greater Than 1000 Ft (0 points) [ ] (3)

Name of Surface Water Body Largo 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)
[ ] (2) > 100'

TOTAL HAZARD RANKING SCORE: 40 **POINTS**

REMARKS

Remarks : Redline & Vole - Inside
3 pits Closed. ~~Pending~~ CMC. Liquid in pit. Called Blanco to have pulled

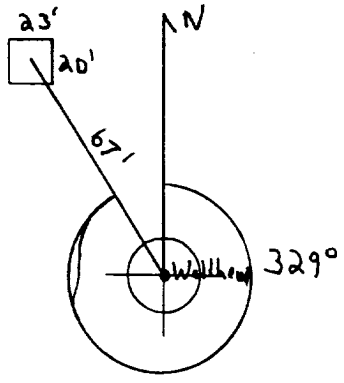
DI6 & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 329° Footage from Wellhead 67'

b) Length : 23' Width : 20' Depth : 5'



REMARKS

Remarks :

Pictures @ 1337 (19-23)
Dump Truck

Completed By:

Cory Chase
Signature

5/23/94
Date

PHASE I
EXCAVATION

FIEI PIT REMEDIATION/CLOSU FORM

GENERAL

Meter: 94800 Location: Dryden 1-E

Coordinates: Letter: I Section 28 Township: 28 Range: 8

Or Latitude _____ Longitude _____

Date Started : 6-8-94 Area: 13 Run: 31

FIELD OBSERVATIONS

Sample Number(s): KP-6954 KP# 93 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 236 PID Reading Depth 12 Feet

	Yes	No
Groundwater Encountered	☐ (1)	☒ (2)

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 100
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

Envirotech	☐ (1)	☒ (3)	Tierra
Other Facility	☐ (2)	Name:	_____

Pit Closure Date: 6-8-94 Pit Closed By: BEI

REMARKS

Remarks : Some Line marker. Pit HAS some Slugs in it started Remediating 12' soil Turned BLACK. Smelled BAD At 12 Soil Still same on Four walls and Bottom of Pit.

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

40

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP93	945398
MTR CODE | SITE NAME:	94800	N/A
SAMPLE DATE | TIME (Hrs):	6-8-94	1224
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6/10/94	6/10/94
DATE OF BTEX EXT. | ANAL.:	6/14/94	6/16/94
TYPE | DESCRIPTION:	VC	Red/Grey Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	2.3	MG/KG	20			
TOLUENE	55	MG/KG	20			
ETHYL BENZENE	15	MG/KG	20			
TOTAL XYLENES	250	MG/KG	20			
TOTAL BTEX	322	MG/KG				
TPH (418.1)	5320	MG/KG			2.04	28
HEADSPACE PID	236	PPM				
PERCENT SOLIDS	86.2	%				

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

The Surrogate Recovery was at 192 % for this sample All QA/QC was acceptable.

Narrative:
ATI results attached. Surrogate recovery was outside ATI QC limits due matrix interference.

DF = Dilution Factor Used

Date: 7/7/94

Test Method for
[illegible] and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

[illegible] 12:57

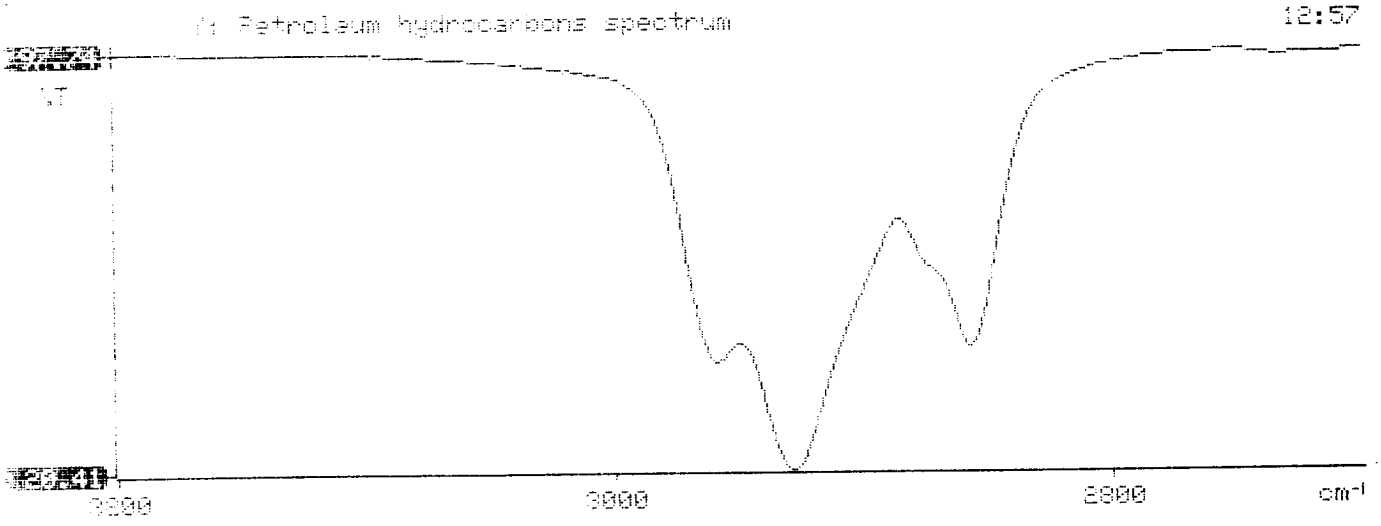
Freon Extraction

Initial mass of sample, g
0.440

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
8232.297

Net absorbance of hydrocarbons (2930 cm-1)
0.278

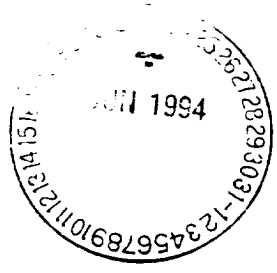


Analytical **Technologies,** Inc.

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

ATI I.D. **406351**

June 21, 1994



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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/14/94**, 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.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 406351
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
16	945397	NON-AQ	06/08/94	06/14/94	06/16/94	1
17	945398	NON-AQ	06/08/94	06/14/94	06/16/94	20
18	945405	NON-AQ	06/09/94	06/14/94	06/16/94	5

PARAMETER	UNITS	16	17	18
BENZENE	MG/KG	<0.025	2.3	<0.12
TOLUENE	MG/KG	0.043	55	0.26
ETHYLBENZENE	MG/KG	<0.025	15	0.13
TOTAL XYLENES	MG/KG	0.032	250	1.6
SURROGATE:				
BROMOFLUOROBENZENE (%)		96	192*	126*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

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 Dryden 1-E 94800

Elevation
Borehole Location QI-S28-T28R8
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 8/23/95-0935
Date/Time Completed 8/23/95 - 1100

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, H. Keil
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 12'						
15	1	15-17	4"	Grey silty CLAY, hard, non plastic, dry			0	2	1218/2657	-0948 hr
20	2	20-22	8"	Grn silty CLAY, v. stiff, non plastic tr Oxidation staining			0	1	6/8	-0955
25	3	25-26	3"	lt br. SAND, f sand, v. dense, dry			0	3	3/0	-1012
				TOB 26'						
30										
35										
40										

Comments: CMC 89 (25-26') sent to lab (BTEX, TPH). BH grouted to surface

Geologist Signature Cory Chance

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 RB 8/24/95
SAMPLE NUMBER:	CMC89	9473~~6~~ 317
MTR CODE | SITE NAME:	94800	Dryden 1-E
SAMPLE DATE | TIME (Hrs):	08/23/95	10:12
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/24/95	
DATE OF BTEX EXT. | ANAL.:	8/25/95	8/29/95
TYPE | DESCRIPTION:	VG	Light brown sand & sandstones

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	77.1 RB 8/29/95	MG/KG			2.01	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	94.4	%				

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

The Surrogate Recovery was at 87% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

AP

8-30-95

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

95/08/24 13:21

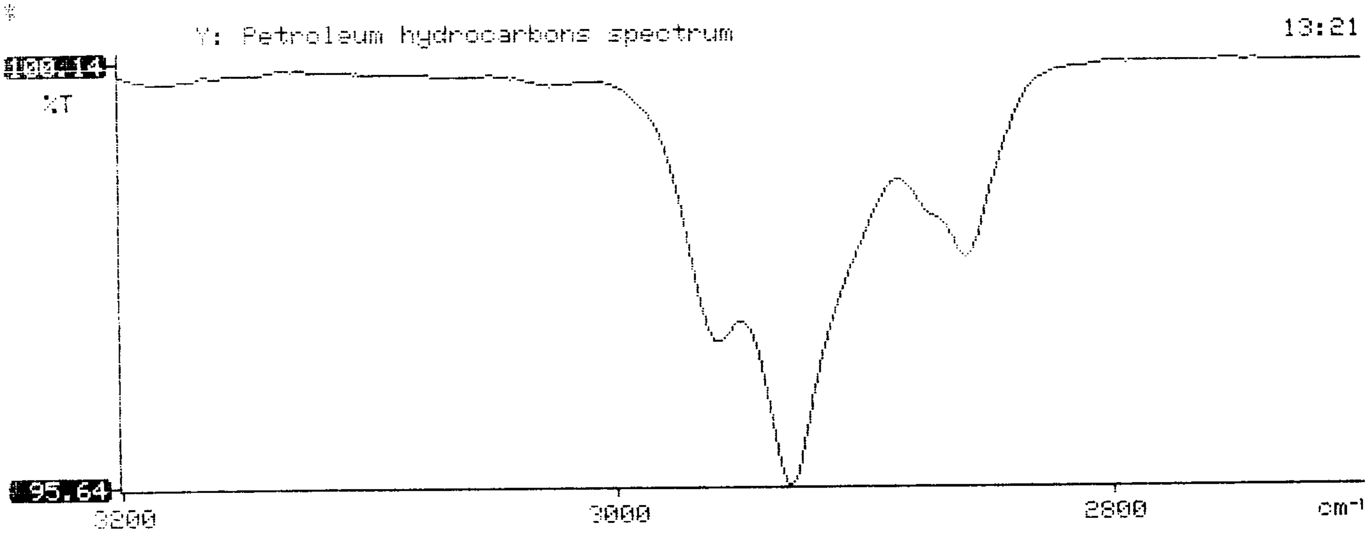
Sample identification
947317

Initial mass of sample, g
2.010

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
77.090

Net absorbance of hydrocarbons (2930 cm-1)
0.020



BTEX SOIL SAMPLE WORKSHEET

File	947317	**Date Printed**	8/31/95
Soil Mass (g)	4.98	**Multiplier (L/g)**	0.00100
Extraction vol. (mL)	20	**DF (Analytical)**	200
Shot Volume (uL)	100	**DF (Report)**	0.20080

				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.502
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.502
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.502
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	1.004
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.502
		Total xylenes (mg/Kg):	**0.000**	1.506
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082595-1.026
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947317,4.98G,100U
Acquired : Aug 30, 1995 02:26:48
Printed : Aug 30, 1995 02:53:09
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.367	0	0.0000
a,a,a TFT	4.917	2562967	86.1091
TOLUENE	6.737	0	0.0000
ETHYLBENZENE	10.430	0	0.0000
M & P XYLENE	10.840	0	0.0000
O XYLENE	11.900	0	0.0000
BFB	13.393	38589552	86.8666