Denny Foust
DEPUTY OIL & GAS INSPECTOR

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 21 1998

RECEIVED
JUL 1998
OIL CON. DIV.
DIST. 3

FEDERAL #E2
Meter/Line ID - 87383

SITE DETAILS

Legals - Twn: 27 **Rng:** 08 **Sec:** 23 **Unit:** G
NMOCD Hazard Ranking: 40 **Land Type:** 2 - Federal
Operator: BLEDSOE PETRO CORP **Pit Closure Date: 06/09/94**

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.

J: 18954\rbc

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72383 Location: Federal #E2

Operator #: _____ Operator Name: Wynn Oil Co P/L District: Blanco

Coordinates: Letter: G Section 23 Township: 27 Range: 8

Or Latitude _____ Longitude _____

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

Site Assessment Date: 5/27/94 Area: 13 Run: 31

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 Swith 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 Wtln - Inside

2 pits. Closed. Pit Dry

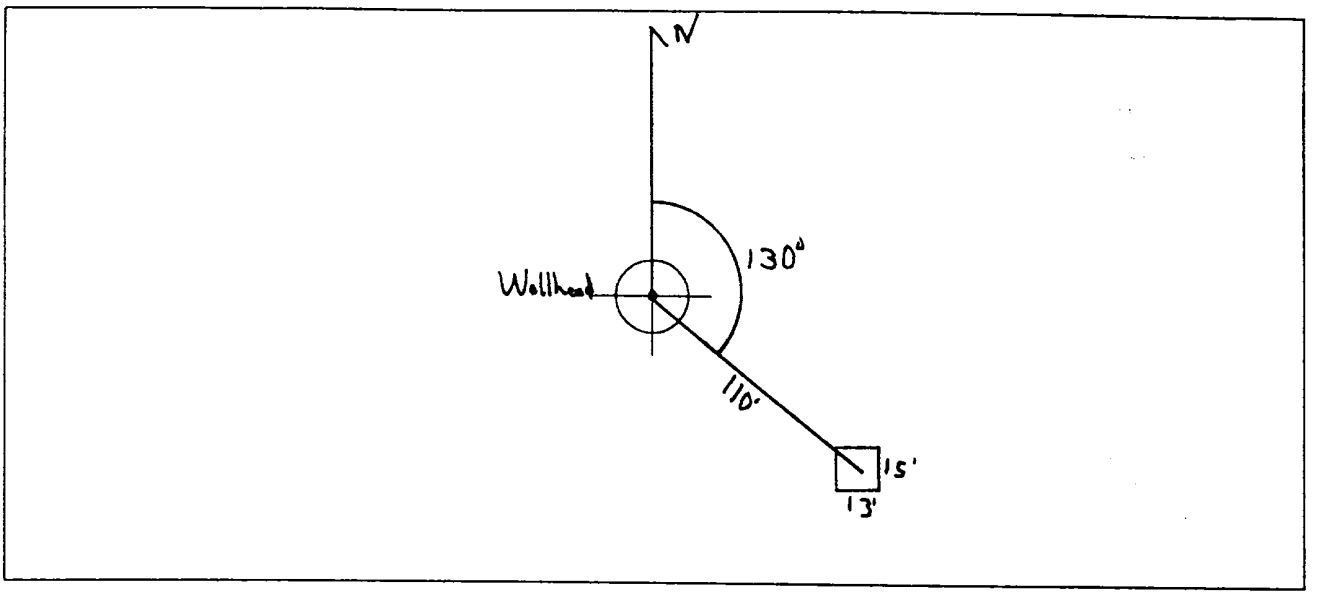
DIG+HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 130° Footage from Wellhead 110'

b) Length : 15' Width : 13' Depth : 3'



REMARKS

Remarks :

Pictures @ 1046 (5-8)

Dump Truck

Completed By:

Cory Chase
Signature

5/27/94
Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 87383 Location: Federal # E 2

Coordinates: Letter: G Section 23 Township: 27 Range: 8

Or Latitude _____ Longitude _____

Date Started : 6/9/94 Area: 13 Run: 31

FIELD OBSERVATIONS

Sample Number(s): 4P27 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 599 PID Reading Depth 12 Fe

	Yes	No	
Groundwater Encountered	☐ (1)	☒ (2)	Approximate Depth _____ Fe

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 50
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

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

Pit Closure Date: 6/9/94 Pit Closed By: BEI

REMARKS

Remarks : Remediated pit to 12' took VC Sample meter reading was 599ppm at 76° closed pit

Signature of Specialist: James F Lewis

(SP3191)

40

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JP 27	945407
MTR CODE | SITE NAME:	87383	N/A
SAMPLE DATE | TIME (Hrs):	6-9-94	1045
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6/10/94	6/10/94
DATE OF BTEX EXT. | ANAL.:	6/15/94	6/17/94
TYPE | DESCRIPTION:	VC	Brown Fine Sand / Clay

REMARKS: ______

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
BENZENE	<0.12	MG/KG	5			
TOLUENE	<0.12	MG/KG	5			
ETHYL BENZENE	2.3	MG/KG	5			
TOTAL XYLENES	18	MG/KG	5			
TOTAL BTEX	21	MG/KG				
TPH (418.1)	2990	MG/KG			2.07	28
HEADSPACE PID	599	PPM				
PERCENT SOLIDS	~~95.3~~ 88.1	%				

[initials] 6/12/94

– 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:
ATI results attached.

DF = Dilution Factor Used

Approved By: [signature]

Date: 7/7/94

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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                       *
**********************************************************
*
 94/06/10  13:52
*
*  Sample identification
 945407
*
*  Initial mass of sample, g
 2.070
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 2992.942
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.388
*
*
*
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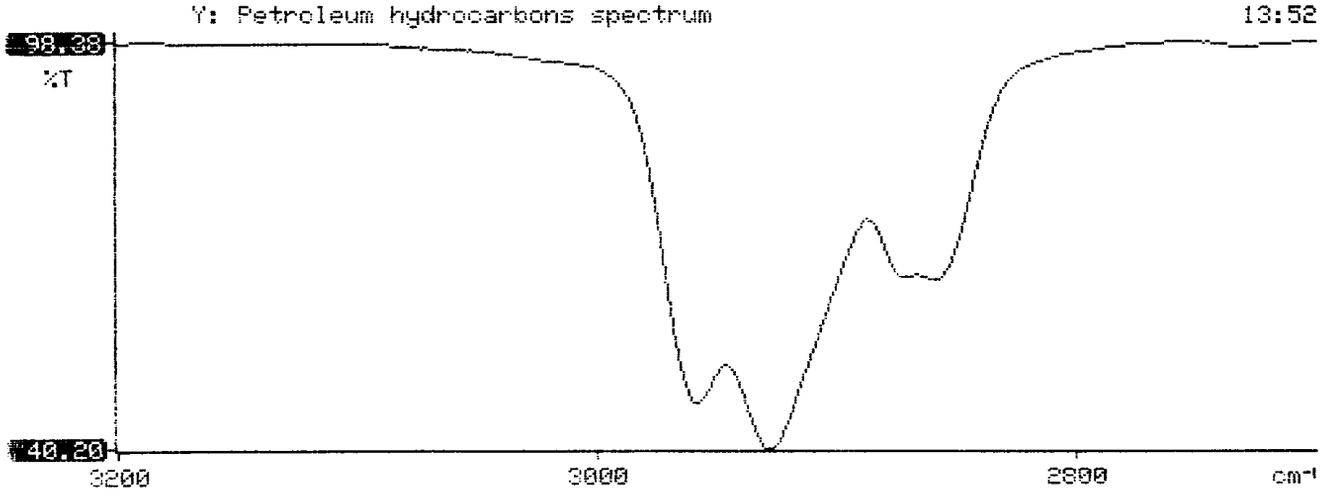
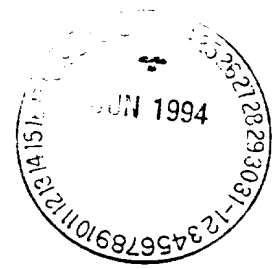


Analytical **Technologies,** Inc.

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
19	945406	NON-AQ	06/09/94	06/15/94	06/17/94	1
20	945407	NON-AQ	06/09/94	06/15/94	06/17/94	5
21	945408	NON-AQ	06/09/94	06/15/94	06/17/94	1

PARAMETER	UNITS	19	20	21
BENZENE	MG/KG	<0.025	<0.12	<0.025
TOLUENE	MG/KG	0.051	<0.12	<0.025
ETHYLBENZENE	MG/KG	<0.025	2.3	<0.025
TOTAL XYLENES	MG/KG	0.097	18	0.026
SURROGATE:				
BROMOFLUOROBENZENE (%)		92	87	98

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 Federal E #2 87383

Elevation
Borehole Location QG-S23-T27-R8
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 8/25/95 - 1115
Date/Time Completed 8/25/95 - 1145

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, D. Gurley
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'						
5										
10										
15	1	15-17	6"	Br CLAY, tr silt, v. soft, nonplastic dry			0	0	0/3	1119 lbs
				TDB 17'						
20										
25										
30										
35										
40										

Comments: CMC 93 (15-17) 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
SAMPLE NUMBER:	CMC93	947339
MTR CODE | SITE NAME:	87383	Federal E #2
SAMPLE DATE | TIME (Hrs):	08-25-95	1119
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/28/95	
DATE OF BTEX EXT. | ANAL.:	8/28/95	8/31/95
TYPE | DESCRIPTION:	VG	Light brown sand & clay

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)	RD 9/5/95 ~~59~~ 58.6	MG/KG			2.21	28
HEADSPACE PID	3	PPM				
PERCENT SOLIDS	88.1	%				

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

The Surrogate Recovery was at 97% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: JD Date: 9-5-95

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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                     *
**********************************************************
*
 95/03/28  14:54
*
*  Sample identification
 947339
*
*  Initial mass of sample, g
 2.210
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 58.578
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.018
*
*
*
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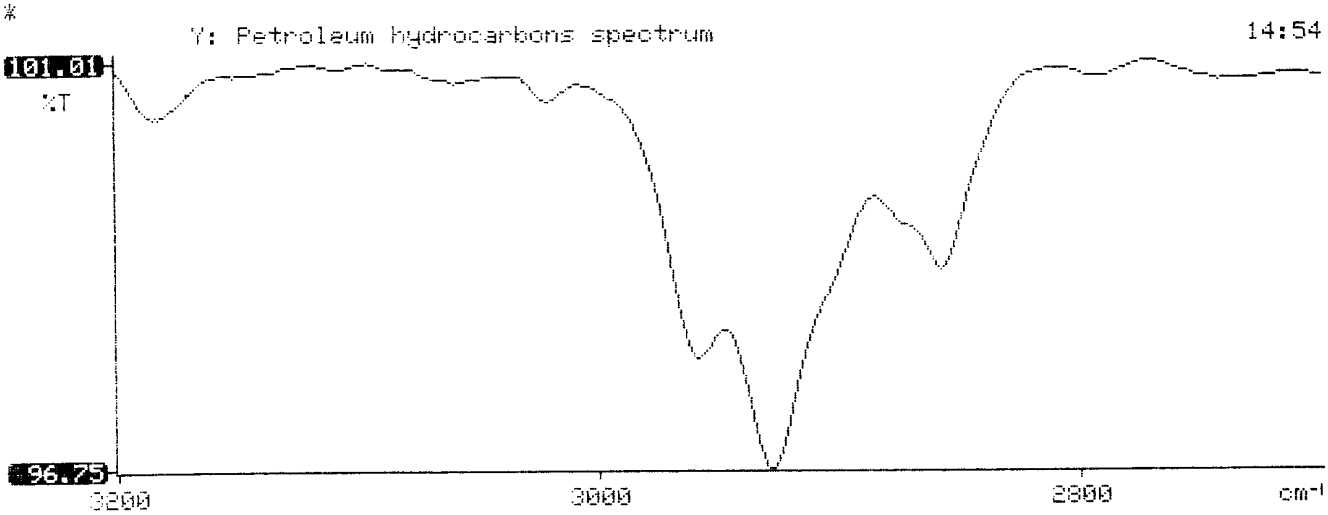

BTEX SOIL SAMPLE WORKSHEET

File	947339	**Date Printed**	9/1/95
Soil Mass (g)	5.04	**Multiplier (L/g)**	0.00099
Extraction vol. (mL)	20	**DF (Analytical)**	200
Shot Volume (uL)	100	**DF (Report)**	0.19841

				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.496
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.496
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.496
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	0.992
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.496
		Total xylenes (mg/Kg):	**0.000**	1.488
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\083195-1.008
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947339,5.04G,100U
Acquired : Aug 31, 1995 21:48:38
Printed : Sep 01, 1995 07:16:49
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.257	0	0.0000
a,a,a TFT	4.857	2312113	97.1513
TOLUENE	6.667	54518	-1.1560
ETHYLBENZENE	10.160	0	0.0000
M & P XYLENE	10.473	0	0.0000
O XYLENE	11.567	0	0.0000
BFB	13.237	34079224	97.0235