EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

Jenny L. Harp
DEPUTY OIL & GAS INSPECTOR
DEC 2 0 1996

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

Approved

FLORANCE #85
Meter/Line ID - 75796

SITE DETAILS

Legals - Twn: 29 **Rng:** 09 **Sec:** 23 **Unit:** B
NMOCD Hazard Ranking: 20 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/24/94**

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: 75796 Location: FLORANCE #85
Operator #: 0203 Operator Name: AMOCO P/L District: BLANCO
Coordinates: Letter: B Section 23 Township: 29 Range: 9
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 5.13.94 Area: 13 Run: 22

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 MEDINA 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: 20 **POINTS**

REMARKS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS IN MEDINA CANYON. REDLINE AND TOPO CONFIRM LOCATION IS IN V.Z.

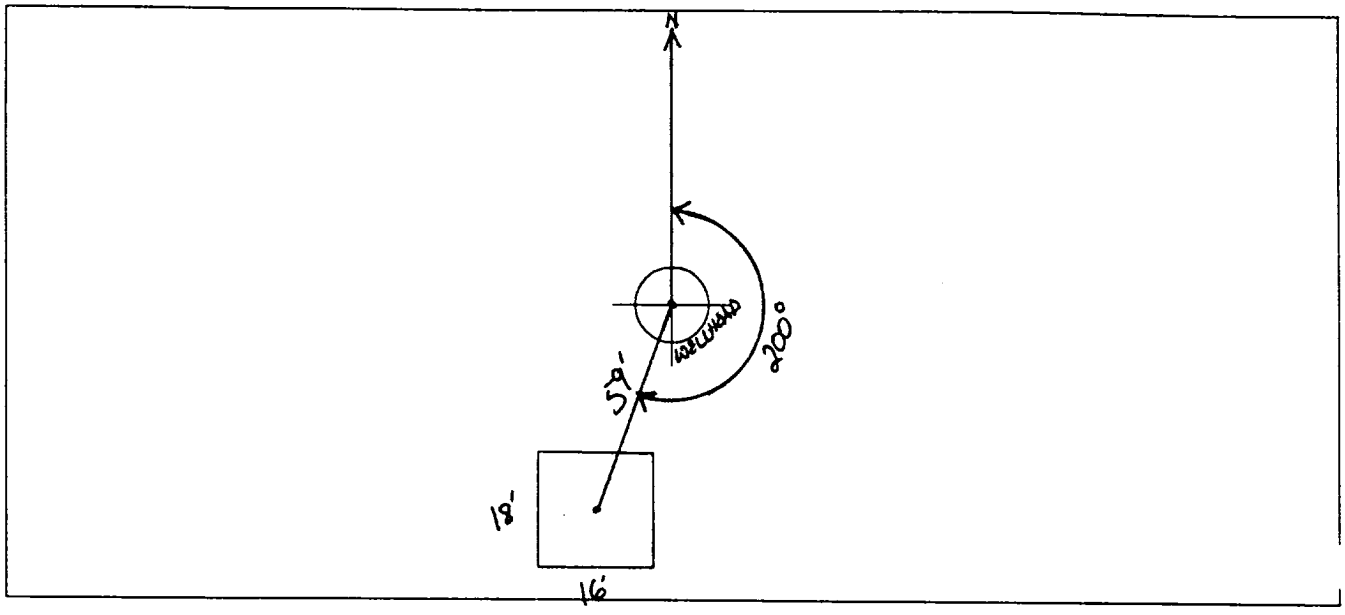
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 200° Footage from Wellhead 59'

b) Length : 18' Width : 16' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 11:50 A.M.

END DUMP

Completed By:

Robert Thompson

Signature

5-13-94

Date

PHASE I
EXCAVATION

FIEI PIT REMEDIATION/CLOSU FORM

GENERAL

Meter: 75796 Location: FIORANCE #85

Coordinates: Letter: B Section 23 Township: 29 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-24-94 Area: 13 Run: 22

FIELD OBSERVATIONS

Sample Number(s): KP#68 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 1328 PID Reading Depth 12' Feet

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

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 30
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

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

Pit Closure Date: 5-24-94 Pit Closed By: Kelly Padilla

REMARKS

Remarks : Some LINE markers. Soil started getting Black when he started digging. Soil stil Black At 12'

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP68	945286
MTR CODE | SITE NAME:	75796	N/A
SAMPLE DATE | TIME (Hrs):	5-24-94	0900
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5/26/94	5/26/94
DATE OF BTEX EXT. | ANAL.:	5/31/94	6/1/94
TYPE | DESCRIPTION:	VC	Grey Course sand & clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.2	MG/KG	50			
TOLUENE	<1.2	MG/KG	50			
ETHYL BENZENE	<1.2	MG/KG	50			
TOTAL XYLENES	270	MG/KG	50			
TOTAL BTEX	274	MG/KG				
TPH (418.1)	4260	MG/KG			2.00	28
HEADSPACE PID	1328	PPM				
PERCENT SOLIDS	84.9	%				

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

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

Narrative:
ATI Results attached. Surrogate recovery was not obtainable due to sample dilution.

DF = Dilution Factor Used

Approved By: John Saunders Date: 7/14/94

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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

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[illegible]

Sample Identification

[illegible]

Initial mass of sample, g

1.000

Volume of sample after extraction, ml

12.000

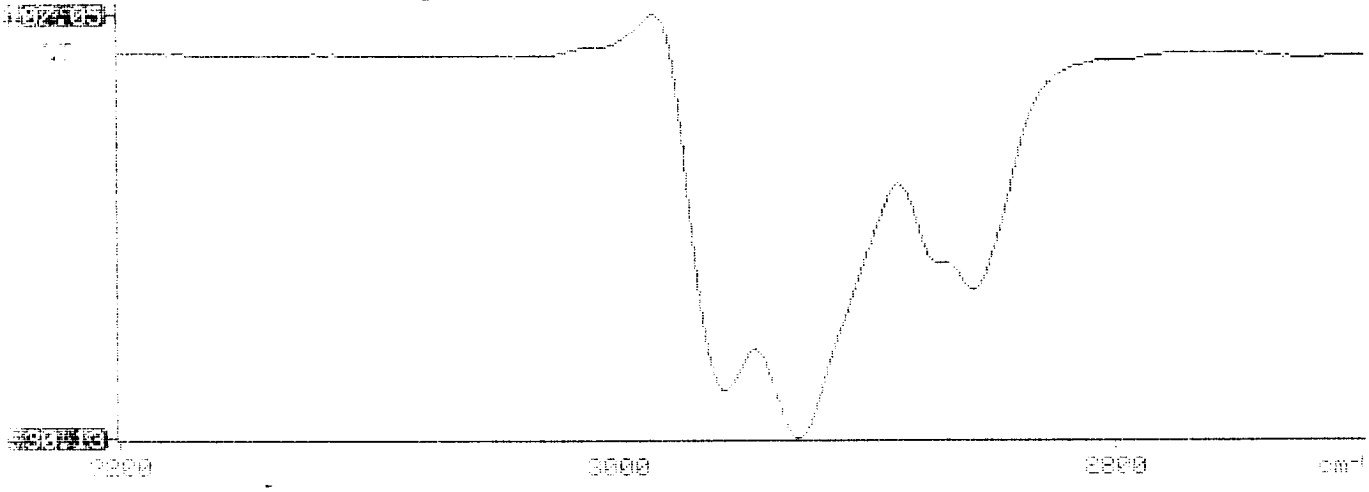
Petroleum hydrocarbons, ppm

[illegible]

Net absorbance of hydrocarbons (2930 cm-1)

0.519

V: Petroleum hydrocarbons spectrum 13:30



Analytical **Technologies,** Inc.

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

ATI I.D. **405420**

June 8, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/27/94**, 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.: 405420
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	945286	NON-AQ	05/24/94	05/31/94	06/01/94	50
05	945287	NON-AQ	05/24/94	05/31/94	06/02/94	50
06	945288	NON-AQ	05/24/94	05/31/94	06/02/94	5

PARAMETER	UNITS	04	05	06
BENZENE	MG/KG	<1.2	2.6	9.7
TOLUENE	MG/KG	<1.2	1.5	43
ETHYLBENZENE	MG/KG	<1.2	5.8	2.5
TOTAL XYLENES	MG/KG	270	63	24
SURROGATE:				
BROMOFLUOROBENZENE (%)		NA**	NA**	77

**SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

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 Florance #85 75796

Elevation
Borehole Location QB-S23-T29-R9
GWL Depth
Logged By CM CHANCE
Drilled By ~~K Padilla~~ F. Rivera
Date/Time Started 8/21/95 - 1005
Date/Time Completed 8/21/95 - 1130

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, D. Charlie
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				Back Fill to 12'						
15	1	15-17	15"	lt br SAND, vf-f sand, med dense, sl moist, odor			0	32	129/127	-1017 hr
20	2	20-22	18"	lt br/reddish br SAND, vf-f sand loose - med dense, sl moist			0	28	50/59	-1023
25	3	25-27	8"	AA			0	61	28/58	-1032
30	4	30-32	18	lt br/reddish br SAND, vf-f sand, loose, moist, tr clay parting			1	52	3/1	-1040
				TDB 32'						
35										
40										

Comments: CMC 84 (30-32') sent to lab (BTEX, TPH) CMC 85 is Duplicate of CMC 84. CMC 86 is Field blank. Product odor in air while sampling. 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:	CMC 84	947292
MTR CODE | SITE NAME:	75796	Florance #85
SAMPLE DATE | TIME (Hrs):	08/21/95	10:40
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/22/95	8/22/95
DATE OF BTEX EXT. | ANAL.:	8/24/95	
TYPE | DESCRIPTION:	VG	Jay/Sand, J Sand Stones

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)	RBS/24/95 ~~13~~ 12.8	MG/KG			2.04	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	94.0	%				

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

The Surrogate Recovery was at 107 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

RB

5/28/95

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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                     *
**********************************************************
*
 95/08/22  13:57
*
*  Sample identification
 947292
*
*  Initial mass of sample, g
 2.040
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 12.790
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.012
*
*
*
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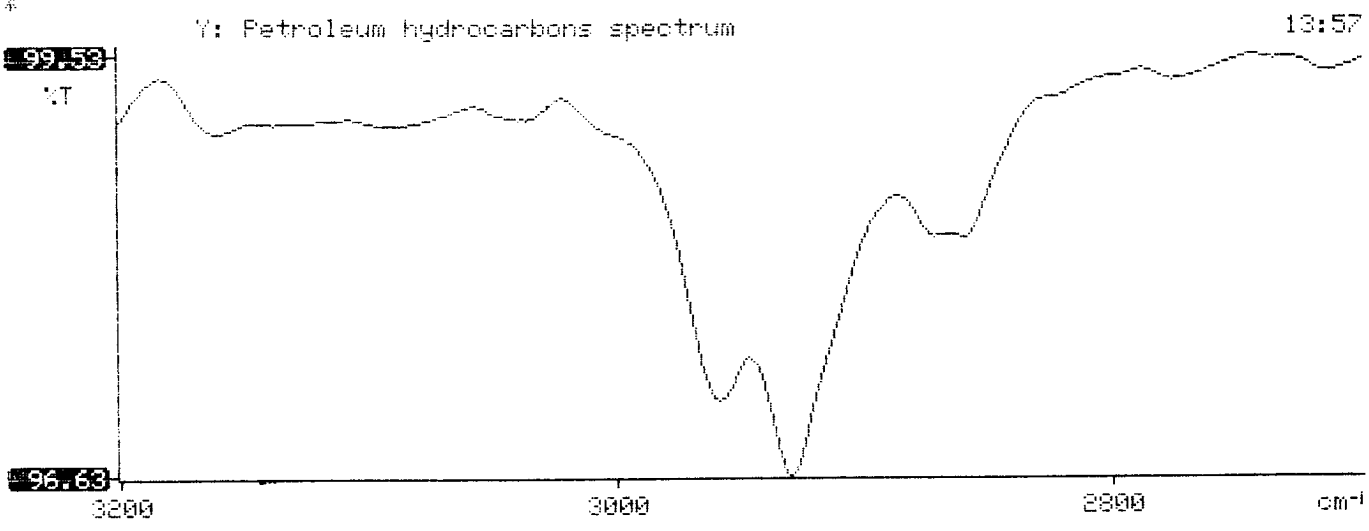

BTEX SOIL SAMPLE WORKSHEET

File	947292	**Date Printed**	8/26/95
Soil Mass (g)	5.03	**Multiplier (L/g)**	0.00099
Extraction vol. (mL)	20	**DF (Analytical)**	200
Shot Volume (uL)	100	**DF (Report)**	0.19881

				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.497
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.497
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.497
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	0.994
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.497
		Total xylenes (mg/Kg):	**0.000**	1.491
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082495-1.008
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947292,5.03G,100U
Acquired : Aug 24, 1995 19:14:44
Printed : Aug 24, 1995 19:41:06
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.450	0	0.0000
a,a,a TFT	4.973	4911615	94.4365
TOLUENE	6.803	203344	-0.1844
ETHYLBENZENE	10.560	68399	-0.3244
M & P XYLENE	10.913	242397	-4.4578
O XYLENE	11.970	70400	-0.1612
BFB	13.457	77024544	106.9285