EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

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

SAN JUAN 28-7 UNIT #86 MV
Meter/Line ID - 72268

SITE DETAILS

Legals - Twn: 27 **Rng:** 07 **Sec:** 07 **Unit:** K
NMOCD Hazard Ranking: 40 **Land Type:** 2 - Federal
Operator: CONOCO - MESA OPERATING L **Pit Closure Date:** 07/08/94

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.

J:\18954\rbc

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72268 Location: San Juan 28-7 Unit 86 (MV)
Operator #: 0203 Operator Name: Amoco P/L District: Blanco
Coordinates: Letter: K Section 7 Township: 27 Range: 7
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: ✓ Line Drip: ___ Other: _____
Site Assessment Date: 6/4/94 Area: 03 Run: 32

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 Smith 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

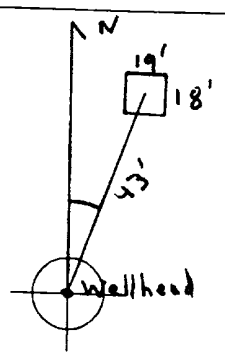
Remarks : Redline - Inside; Vuln. - Inside
6 pits. Close 2 (1 MV + 1 PC) MV has liquid in it
D16 + Haul

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 20° Footage from Wellhead 43'

b) Length : 19' Width : 18' Depth : 4'



REMARKS

Remarks :

Pictures @ 1455 (17-21)
Dump Truck

Completed By:

Cory Chase
Signature

6/4/94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72268 Location: San Juan 28-7 Unit 86 (MV)

Coordinates: Letter: K Section 7 Township: 27 Range: 7

Or Latitude _____ Longitude _____

Date Started : 7/8/94 Run: 03 32

FIELD OBSERVATIONS

Sample Number(s): KD 137 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 327 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 100

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☐ ☒ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 7/8/94 Pit Closed By: BEI

REMARKS

Remarks : Excavated pit to 12', Took PID Sample, closed pit.

Signature of Specialist: Kenny Dean

(SP3191) 03/16/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 137	945618
MTR CODE | SITE NAME:	72268	N/A
SAMPLE DATE | TIME (Hrs):	7-8-94	1330
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7-12-94	7/12/94
DATE OF BTEX EXT. | ANAL.:	7/14/94	7/16/94
TYPE | DESCRIPTION:	VC	Brown Clay & Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.13	MG/KG	5			
TOLUENE	11	MG/KG	5			
ETHYL BENZENE	3.9	MG/KG	5			
TOTAL XYLENES	63	MG/KG	5			
TOTAL BTEX	78	MG/KG				
TPH (418.1)	4590	MG/KG			2.23	28
HEADSPACE PID	327	PPM				
PERCENT SOLIDS	85.2	%				

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

The Surrogate Recovery was at 72 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 8/8/94

Test Method for
Oil and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

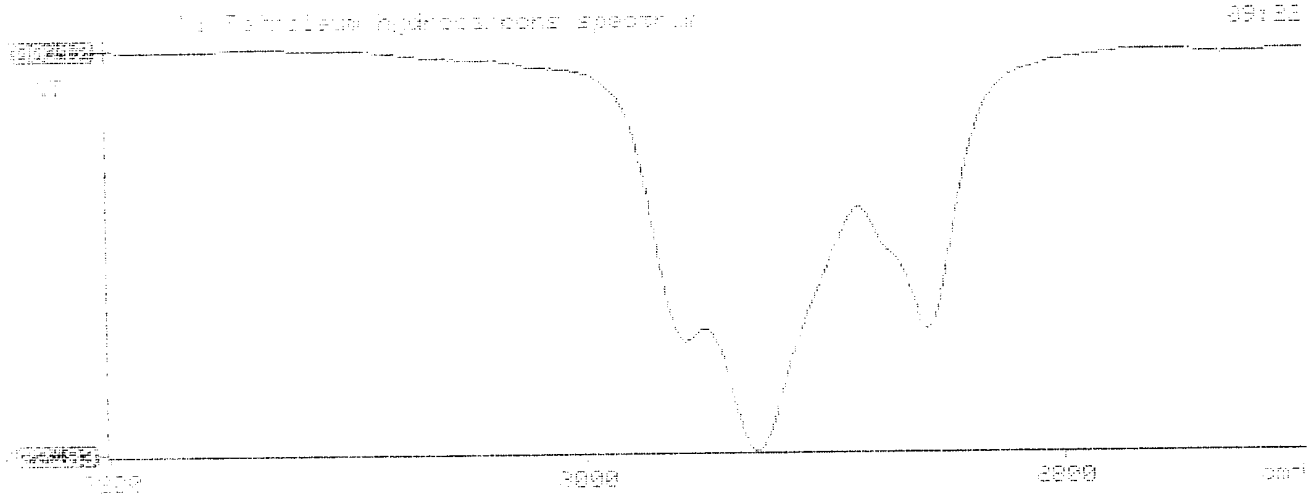
09:22

Sample Identification
494.0

Initial mass of sample, g
1.000

Volume of sample after extraction, ml
28.000

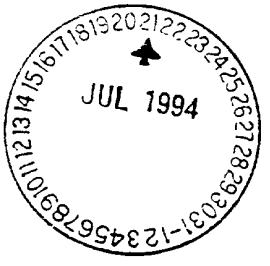
Petroleum hydrocarbons, ppm
4536.324
Net absorbance of hydrocarbons (2930 cm-1)
1.436



Analytical **Technologies,** Inc.

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

ATI I.D. **407346**



July 20, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **07/13/94**, 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.

Samples were run by either internal or external surrogate method. The following samples were run by internal surrogate method: 02, 03, 05, 08, 09 10, and 12.

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

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407346

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945616	NON-AQ	07/08/94	07/14/94	07/16/94	1
08	945617	NON-AQ	07/08/94	07/14/94	07/16/94	2
09	945618	NON-AQ	07/08/94	07/14/94	07/16/94	5

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.025	<0.05	<0.13
TOLUENE	MG/KG	1.6	0.11	11
ETHYLBENZENE	MG/KG	<0.025	0.14	3.9
TOTAL XYLENES	MG/KG	16	1.3	63
SURROGATE:				
BROMOFLUOROBENZENE (%)		103	118*	72

*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 San Juan 28-7 Unit 86 72268

Elevation
Borehole Location QK - S7 - T27 - R7
GWL Depth
Logged By CM CHANCE
Drilled By cmc 9/7/95 ~~K Padilla~~ S. Snider
Date/Time Started 9/7/95 - 1010
Date/Time Completed 9/7/95 - 1050

Well Logged By CM Chance
Personnel On-Site cmc 9/7/95 ~~K Padilla~~ D. Roberts, 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	6"	Br sandy CLAY, vf sand, soft, dry			0	28	228/1508	1017 hr
20	2	20-22	14"	AA			0	18	420/1089	1021
25	3	25-27	6"	AA lt br SANDSTONE, vf-f sand, poorly cemented			0	49	9/9	1026
				TOB 27'						
30										
35										
40										

Comments: CMC 103 (25-27') sent to lab (BTEX, TPH). Sample bagged & iced prior to containerization. BH grouted to surface

Geologist Signature Cory C 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 103	947412
MTR CODE | SITE NAME:	72268	San Juan 28-7 Unit 86
SAMPLE DATE | TIME (Hrs):	09/07/95	1026
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-8-95	
DATE OF BTEX EXT. ANAL.:	9/8/95	9/11/95
TYPE | DESCRIPTION:	VG	LIGHT BROWN SAND + SANDSTONE

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)	36.5	MG/KG			2.00	28
HEADSPACE PID	9	PPM				
PERCENT SOLIDS	91.7	%				

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

The Surrogate Recovery was at 82% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: [signature]

Date: 9-13-95

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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                *
*****************************************************
*
 95/09/08  15:47
*
*  Sample identification
 947412
*
*  Initial mass of sample, g
 2.000
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 36.455
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.015
*
*
*
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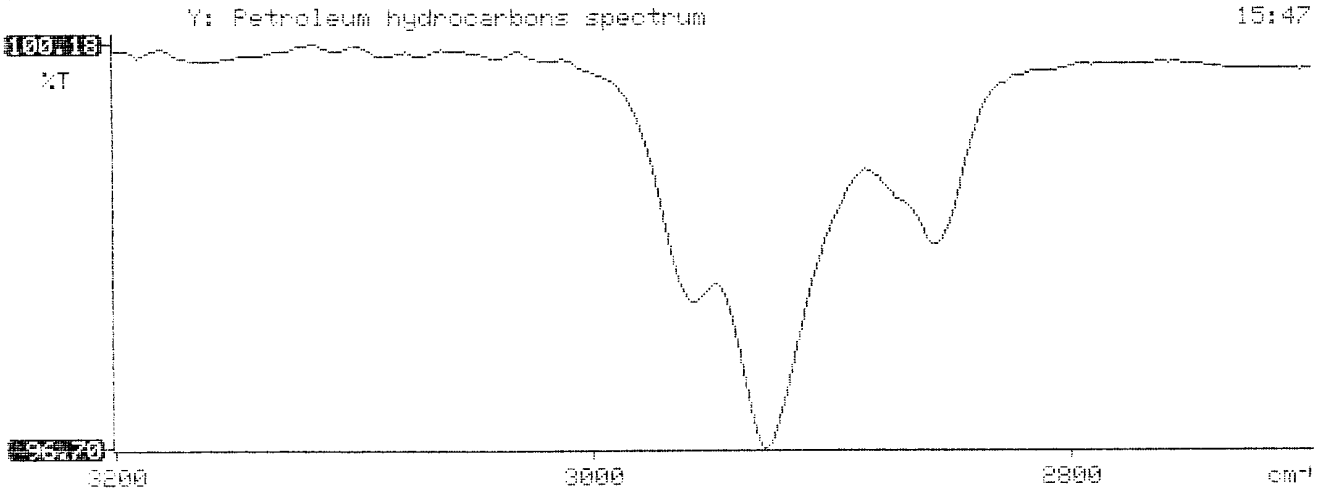

BTEX SOIL SAMPLE WORKSHEET

File :	947412	**Date Printed** :	9/12/95
Soil Mass (g) :	5.00	**Multiplier (L/g)** :	0.00100
Extraction vol. (mL) :	20	**DF (Analytical)** :	200
Shot Volume (uL) :	100	**DF (Report)** :	0.20000

				Det. Limit
Benzene (ug/L) :	0.00	**Benzene (mg/Kg):**	**0.000**	0.500
Toluene (ug/L) :	0.00	**Toluene (mg/Kg):**	**0.000**	0.500
Ethylbenzene (ug/L) :	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.500
p & m-xylene (ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000	1.000
o-xylene (ug/L) :	0.00	o-xylene (mg/Kg):	0.000	0.500
		Total xylenes (mg/Kg):	**0.000**	1.500
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\091195-1.014
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947412,5.00G,100U
Acquired : Sep 12, 1995 01:57:16
Printed : Sep 12, 1995 02:23:36
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.410	0	0.0000
a,a,a TFT	4.890	2872345	83.1771
TOLUENE	6.720	142382	-0.2989
ETHYLBENZENE	10.513	0	0.0000
M & P XYLENE	10.870	0	0.0000
O XYLENE	11.927	0	0.0000
BFB	13.403	48972760	81.7231