# EL PASO FIELD SERVICES
# PRODUCTION PIT CLOSURE

OIL & GAS INSPECTOR

DEC 2 1 1998

**SHEETS #5C**
**Meter/Line ID - 74374**

RECEIVED
JUL 2 1999
OIL CON. DIV.

## SITE DETAILS

**Legals - Twn:** 25 **Rng:** 08 **Sec:** 01 **Unit:** H
**NMOCD Hazard Ranking:** 40 **Land Type:** 2 - Federal
**Operator:** MERIDIAN OIL INC **Pit Closure Date:** 07/14/94

## 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: 74374 Location: SHEETS # S - C

Operator #: _____ Operator Name: _____ P/L District: BALLARD

Coordinates: Letter: H Section 1 Township: 25 Range: 8

Or Latitude _____ Longitude _____

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

Site Assessment Date: 6.20.94 Area: 07 Run: 41

## 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 BIG RINCON 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 : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS IN BIG RINCON CANYON. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.

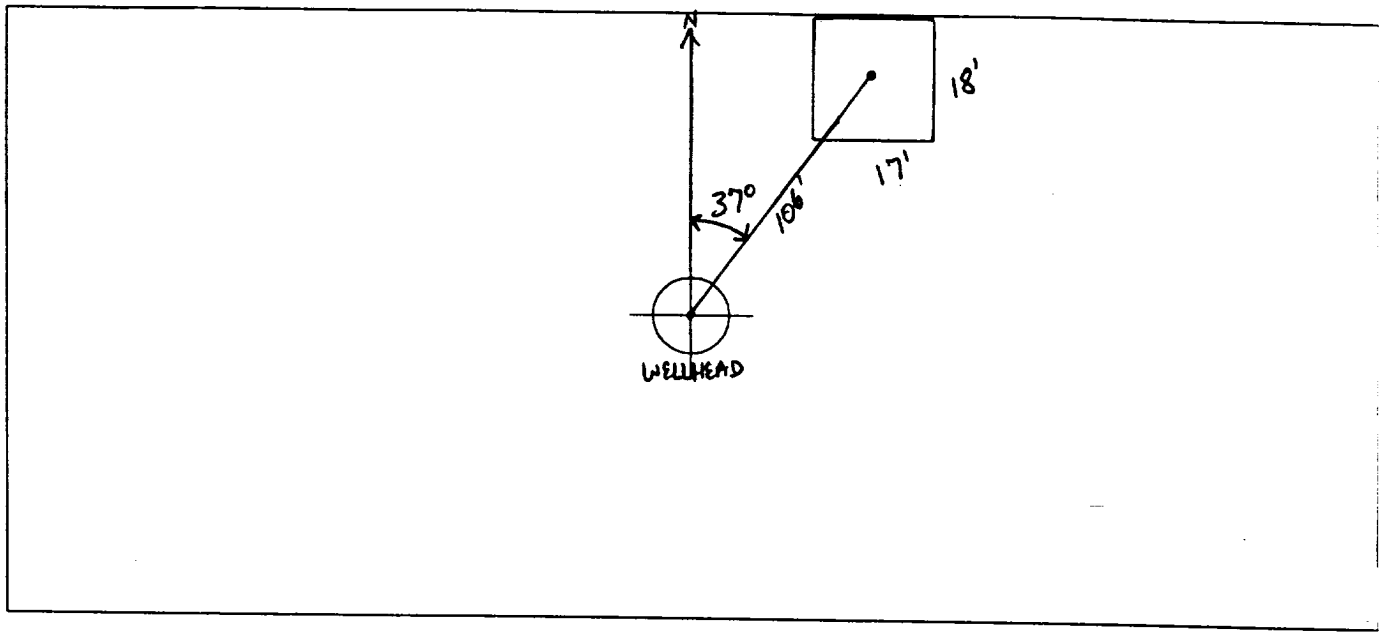
DIG & HAUL

ORIGINAL PIT LOCATION

## ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 37° Footage from Wellhead 106'

b) Length : 18' Width : 17' Depth : 2'




REMARKS

**Remarks :**

TOOK PICTURES AT 3:10 P.M.

END DUMP

Completed By:

Robert Thompson

Signature

6-20-94

Date

# PHASE I EXCAVATION

# FIELD PIT REMEDIATION/CLOSURE FORM

## GENERAL

Meter: 74374 Location: SHEET # 5-C

Coordinates: Letter: H Section 1 Township: 25 Range: 8

Or Latitude _____ Longitude _____

Date Started : 7-14-94 Area: 07 Run: 41

## FIELD OBSERVATIONS

Sample Number(s): KP 131 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 470 PID Reading Depth 12' Feet

| | Yes | No | |
|---|---|---|---|
| Groundwater Encountered | ☐ (1) | ☒ (2) | Approximate Depth _____ Feet |

## CLOSURE

Remediation Method :

| | | |
|---|---|---|
| Excavation | ☒ (1) | Approx. Cubic Yards 60 |
| Onsite Bioremediation | ☐ (2) | |
| Backfill Pit Without Excavation | ☐ (3) | |

Soil Disposition:

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

Pit Closure Date: 7-14-94 Pit Closed By: B.C.T

## REMARKS

Remarks : some line markers. Started Remediating to 12'. Soil turned DARK gray. Started to Hit SANDSTONE. 11½ + 12', Soil still the same.

Signature of Specialist: Kelly Padilla

(SP3191) 04/07

El Paso Natural Gas Company

# FIELD SERVICES LABORATORY
# ANALYTICAL REPORT
# PIT CLOSURE PROJECT - Soil

## SAMPLE IDENTIFICATION

| | Field ID | Lab ID |
|---|---|---|
| SAMPLE NUMBER: | KP 131 | 945465 |
| MTR CODE \| SITE NAME: | 74374 | N/A |
| SAMPLE DATE \| TIME (Hrs): | 7-14-94 | 1230 |
| SAMPLED BY: | N/A | |
| DATE OF TPH EXT. \| ANAL.: | 7/19/94 | 7/19/94 |
| DATE OF BTEX EXT. \| ANAL.: | 7/21/94 | 7/21/94 |
| TYPE \| DESCRIPTION: | VC | Brown Sand/Clay |

REMARKS: _____

## RESULTS

| PARAMETER | RESULT | UNITS | QUALIFIERS | | | |
|---|---|---|---|---|---|---|
| | | | DF | Q | M(g) | V(ml) |
| BENZENE | <0.13 | MG/KG | 5 | | | |
| TOLUENE | <0.13 | MG/KG | 5 | | | |
| ETHYL BENZENE | 0.17 | MG/KG | 5 | | | |
| TOTAL XYLENES | 1.5 | MG/KG | 5 | | | |
| TOTAL BTEX | 1.9 | MG/KG | | | | |
| TPH (418.1) | 1320 | MG/KG | | | 1.99 | 28 |
| HEADSPACE PID | NTO | PPM | | | | |
| PERCENT SOLIDS | ~~92.16~~ 92.2 | % | | | | |

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

The Surrogate Recovery was at 99 % for this sample All QA/QC was acceptable.

**Narrative:**

ATI results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 8/24/94

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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                  *
*****************************************************

 94/07/19  13:07

  Sample identification
 945668

  Initial mass of sample, g
 1.990

  Volume of sample after extraction, ml
 28.000

  Petroleum hydrocarbons, ppm
 1321.258
  Net absorbance of hydrocarbons (2930 cm-1)
 0.166
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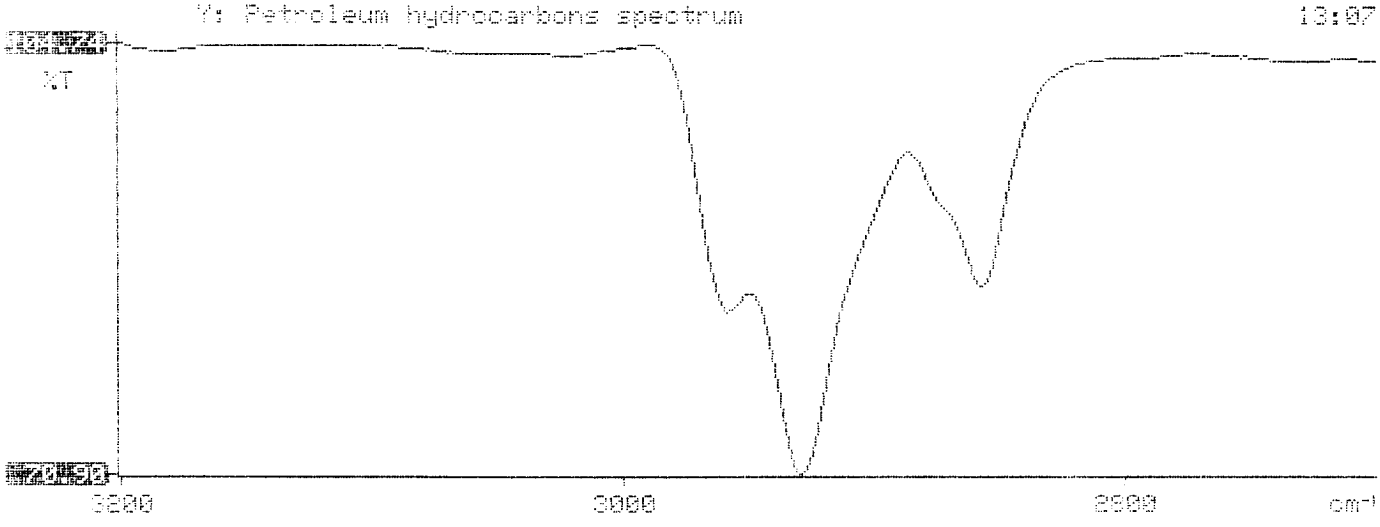
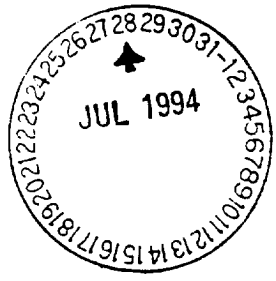


Analytical Technologies, Inc.

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

ATI I.D. **407376**




July 27, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **07/20/94**, 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:jt

Enclosure

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407376

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

| SAMPLE ID. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|---|---|---|---|---|---|---|
| 01 | 945665 | NON-AQ | 07/14/94 | 07/21/94 | 07/21/94 | 5 |
| 02 | 945666 | NON-AQ | 07/14/94 | 07/21/94 | 07/21/94 | 1 |
| 03 | 945667 | NON-AQ | 07/14/94 | 07/21/94 | 07/21/94 | 1 |

| PARAMETER | UNITS | 01 | 02 | 03 |
|---|---|---|---|---|
| BENZENE | MG/KG | <0.13 | <0.025 | <0.025 |
| TOLUENE | MG/KG | <0.13 | <0.025 | <0.025 |
| ETHYLBENZENE | MG/KG | 0.17 | <0.025 | <0.025 |
| TOTAL XYLENES | MG/KG | 1.5 | <0.025 | <0.025 |
| SURROGATE: | | | | |
| BROMOFLUOROBENZENE (%) | | 99 | 94 | 96 |

# PHASE II

## RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

**Burlington Environmental Inc.**
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 Sheet 25 #5-a 74374

Elevation
Borehole Location Letter H-S1-T25-R8
GWL Depth
Logged By J.F. LaBarbera
Drilled By K. Padilla
Date/Time Started 8/1/95 - 0832
Date/Time Completed - 1011

Well Logged By J.F. LaBarbera
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/10 | Drilling Conditions & Blow Counts |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | | | |
| 5 | | | | Fill | | | | | | |
| 10 | | | | | | | | | | |
| 15 | 1 | 15-16 | 12 | ½ Brown, hard, fn, SANDSTONE, dry, moderately cemented, no odor noted. | X | | 0 | 13 | 553/3 | 0848 |
| 20 | 2 | 23-23.75 | 9 | Gray, hard, SHALE, dry no odor noted, non-fissile. | | | 0.1 | 3 | 433/7.5 | 0911 |
| 25 | 3 | 25-25.5 | 5 | AA | | | 0.3 | 3 | 622/1.8 | Hard drilling 0937 Refusal at 25 |
| 30 | | | | TOB at 25.5' Refusal | | | | | | |
| 35 | | | | | | | | | | |
| 40 | | | | | | | | | | |

Comments: Sample JJL 37 from 25-25.5' sent to lab for BTEX/TPH analysis

Geologist Signature

El Paso Natural Gas Company

Phase II Drilling
Sheets #5-C
(25-25.5')

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

## SAMPLE IDENTIFICATION

| | Field ID | Lab ID |
|---|---|---|
| SAMPLE NUMBER: | JFL 37 | 947125 |
| MTR CODE \| SITE NAME: | 74374 | N/A |
| SAMPLE DATE \| TIME (Hrs): | 08/01/95 | 09:37 |
| SAMPLED BY: | N/A | |
| DATE OF TPH EXT. \| ANAL.: | 8-2-95 | 8-2-95 |
| DATE OF BTEX EXT. \| ANAL.: | 8-4-95 | 8-5-95 |
| TYPE \| DESCRIPTION: | V6 | light grey 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) | 26.3 | MG/KG | | | 2.11 | 28 |
| HEADSPACE PID | 2022 | PPM | | | | |
| PERCENT SOLIDS | 93.3 | % | | | | |

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

The Surrogate Recovery was at 105 % for this sample All QA/QC was acceptable.

Narrative: ATI Results attached

DF = Dilution Factor Used

Approved By: _____ Date: 8/24/95

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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                     *
**********************************************************
*
 95/08/02  14:56
*
*  Sample identification
 947125
*
*  Initial mass of sample, g
 2.110
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 26.304
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
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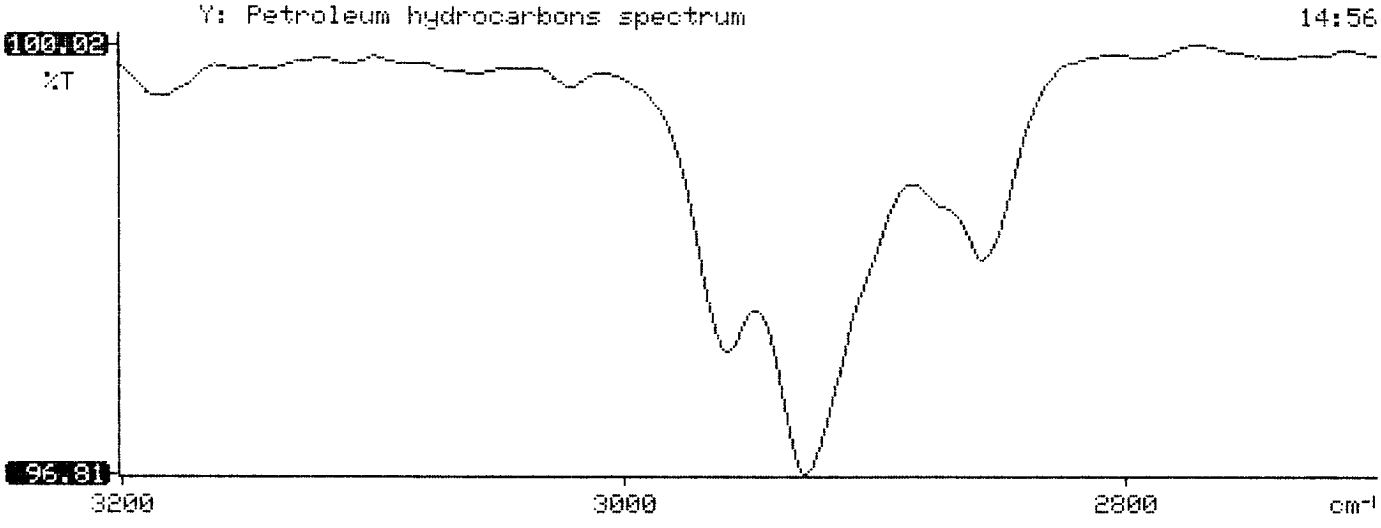


Analytical **Technologies,** Inc.

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

ATI I.D. **508327**

August 7, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II DRILLING 24324

Attention: John Lambdin

On **08/04/95**, 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.

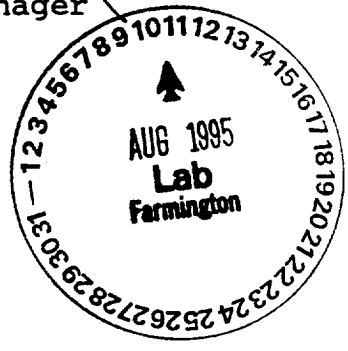
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

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.: 508327

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II DRILLING

| SAMPLE ID. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|---|---|---|---|---|---|---|
| 01 | 947125 | NON-AQ | 08/01/95 | 08/04/95 | 08/05/95 | 1 |
| 02 | 947126 | NON-AQ | 08/01/95 | 08/04/95 | 08/05/95 | 1 |
| 03 | 947127 | NON-AQ | 08/01/95 | 08/04/95 | 08/05/95 | 50 |

| PARAMETER | UNITS | 01 | 02 | 03 |
|---|---|---|---|---|
| BENZENE | MG/KG | <0.025 | <0.025 | <1.3 |
| TOLUENE | MG/KG | <0.025 | <0.025 | 60 |
| ETHYLBENZENE | MG/KG | <0.025 | <0.025 | 13 |
| TOTAL XYLENES | MG/KG | <0.025 | <0.025 | 110 |
| SURROGATE: | | | | |
| BROMOFLUOROBENZENE (%) | | 105 | 94 | * |

*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION