

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 21 1998

SHEETS #3A
Meter/Line ID - 74482

RECEIVED
JUL 2 1998

SITE DETAILS

Approved
Legals - Twn: 25 Rng: 08
NMOCD Hazard Ranking: 30
Operator: MERIDIAN OIL INC

Sec: 01 **Unit: D**
Land Type: 2 - Federal
Pit Closure Date: 07/13/94

CON. DIV

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.

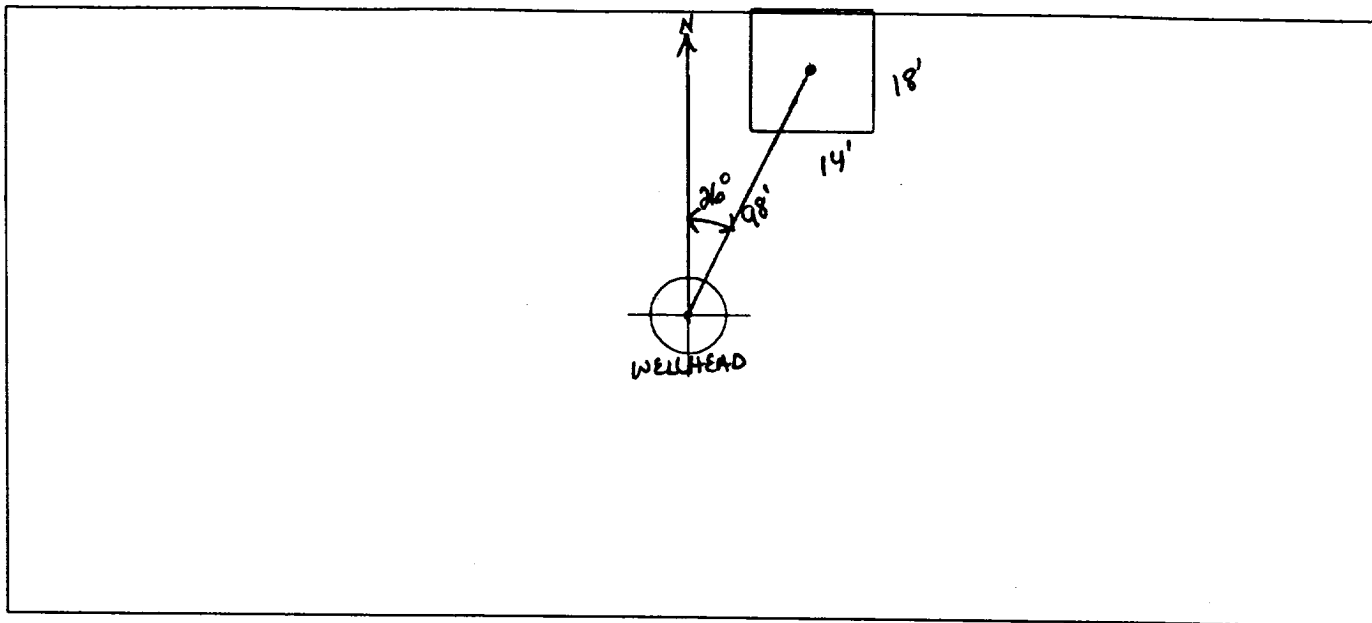
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>74482</u> Location: <u>SHEETS # 3 A</u></p> <p>Operator #: <u>2999</u> Operator Name: <u>MERIDIAN</u> P/L District: <u>BALLARD</u></p> <p>Coordinates: Letter: <u>D</u> Section <u>1</u> Township: <u>25</u> Range: <u>8</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>6.20.94</u> Area: <u>07</u> Run: <u>41</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>BIG RINCON CANYON</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>30</u> POINTS</p>
REMARKS	<p>Remarks : <u>ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS IN BIG RINCON CANYON ON A HILL. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.</u></p> <p><u>DIG & HAIL</u></p>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 26° Footage from Wellhead 98'
b) Length : 18' Width : 14' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 3:30 P.M.

ENA DUMP

Completed By:

Robert Thompson
Signature

6.20.94
Date

PHASE I EXCAVATION

FD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>74482</u> Location: <u>SHEETS #3A</u></p> <p>Coordinates: Letter: <u>D</u> Section: <u>1</u> Township: <u>25</u> Range: <u>8</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>7-13-94</u> Area: <u>07</u> Run: <u>41</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KP130</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>312</u> PID Reading Depth <u>12</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>50</u> <u>60</u> ^{KP} ₇₋₁₃₋₉₄</p> <p>Onsite Bioremediation <input type="checkbox"/> (2)</p> <p>Backfill Pit Without Excavation <input type="checkbox"/> (3)</p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> (1) <input type="checkbox"/> (3) Tierra</p> <p>Other Facility <input type="checkbox"/> (2) Name: _____</p> <p>Pit Closure Date: <u>7-13-94</u> Pit Closed By: <u>B.E.T</u></p>
REMARKS	<p>Remarks : <u>SOME LINE MARKERS STARTED REMEDIATING</u> <u>TO 12" SOIL TURNED DARK GRAY. AT 12" SOIL STILL THE SAME</u> <u>CLOSED PIT.</u></p>
	<p>Signature of Specialist: <u>Kelly Padilla</u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP130	945660
MTR CODE SITE NAME:	74482	N/A
SAMPLE DATE TIME (Hrs):	7-13-94	1422
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	7/14/94	7/14/94
DATE OF BTEX EXT. ANAL.:	7/17/94	7/20/94
TYPE DESCRIPTION:	VC	Fine Brown Sand/Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.5	MG/KG	20			
TOLUENE	25	MG/KG	20			
ETHYL BENZENE	1.9	MG/KG	20			
TOTAL XYLENES	49	MG/KG	20			
TOTAL BTEX	76	MG/KG				
TPH (418.1)	2230	MG/KG			2.21	28
HEADSPACE PID	312	PPM				
PERCENT SOLIDS	92.9	%				

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

The Surrogate Recovery was at 230 % for this sample All QA/QC was acceptable.

Narrative:

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

DF = Dilution Factor Used

Approved By:

J.P.

Date:

8/12/94

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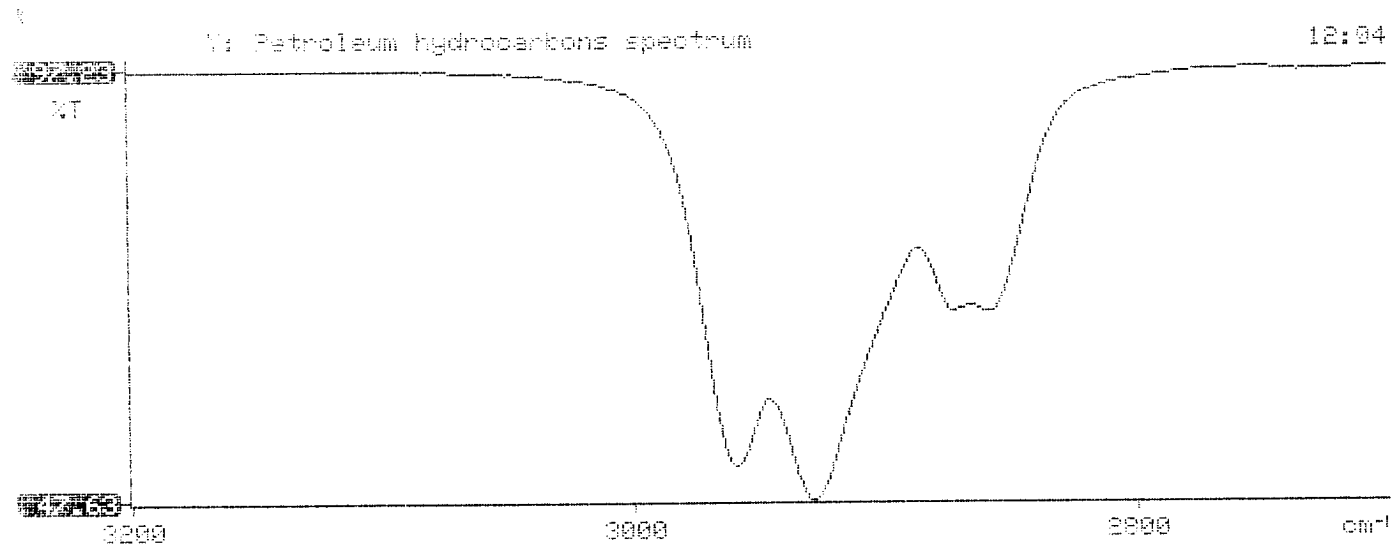
*****
*                               *
*      Test Method for          *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil       *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                    *
*      Analysis Report      *
*                               *
*****

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94/07/14 12:04
#
# Sample identification
# 945660
#
# Initial mass of sample, g
# 0.210
#
# Volume of sample after extraction, ml
# 25.000
#
# Petroleum hydrocarbons, ppm
# 2231.338
# Net absorbance of hydrocarbons (2930 cm-1)
# 0.710
#
#
#

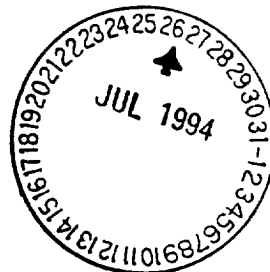
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Analytical **Technologies**, Inc.

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



ATI I.D. 407359

July 25, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 07/15/94, 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



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407359
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	945659	NON-AQ	07/13/94	07/17/94	07/20/94	1
14	945660	NON-AQ	07/13/94	07/17/94	07/20/94	20
PARAMETER			UNITS	13	14	
BENZENE			MG/KG	<0.025	<0.5	
TOLUENE			MG/KG	<0.025	25	
ETHYLBENZENE			MG/KG	<0.025	1.9	
TOTAL XYLENES			MG/KG	<0.025	49	

SURROGATE:

BROMOFLUOROBENZENE (%) 93 230*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2282 FAX (505) 326-2388

Borehole # BH-
Well # 1
Page 1 of 1

Project Name EPNG PITS
Project Number 14509 Phase 7
Project Location Shots #3A 82

Elevation _____
Borehole Location Letter D-S1-T25-88
GWL Depth _____
Logged By J.F. LaBarbera
Drilled By K. Padilla
Date/Time Started 8/1/95 - 1041
Date/Time Completed - 1220

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 <u>15</u> BZ BH S			Drilling Conditions & Blow Counts
0										
5										
10										
15	1	15- 14.25	15	Lt Olive, med. dense, v. fn. SANDY, SILT, damp, odor. tr clay at 14'	ML		3.1	34	$\frac{689}{579}$	1055
20	2	20-21	11	Olive, med. dense, silt, v fn to fn SAND, tr. clay, dry, odor.	SM		14	278	$\frac{533}{525}$	1125
25	3	25- 24.30	16	25-25.5' Brown, med. dense fn. SAND, tr silt, damp 25.5-26' Black, v fn sandy SILT, strong odor 26' Brown, silty CLAY, tr vfn sand, non plastic Brown, v fn sandy, SILT, dry, odor, dense. sl.	SF ML CL ML		8.3	410	$\frac{65}{614}$ → in Clay	1124
30	4	30- 31	11				2	146	$\frac{24}{66}$	1135
35										
40										

Comments:

Sample JFL 38 from 30-31' sent to lab for BTEX/TPH analysis

Geologist Signature

J.F. LaBarbera

FIELD SERVICES LABORATORY
ANALYTICAL REPORT**PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone**Phase II Drill
Sheets #3A
(30-31')**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	JFL 38	947126
MTR CODE SITE NAME:	74482	N/A
SAMPLE DATE TIME (Hrs):	8/1/95	11:35
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:	VG	Brown 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)	81.5	MG/KG			2.0	28
HEADSPACE PID	24	PPM				
PERCENT SOLIDS	92.5	%				

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

The Surrogate Recovery was at 94 % for this sample All QA/QC was acceptable.

Narrative:

AT 1 Results attached

DF = Dilution Factor Used

Approved By: J.F.Date: 8/22/95

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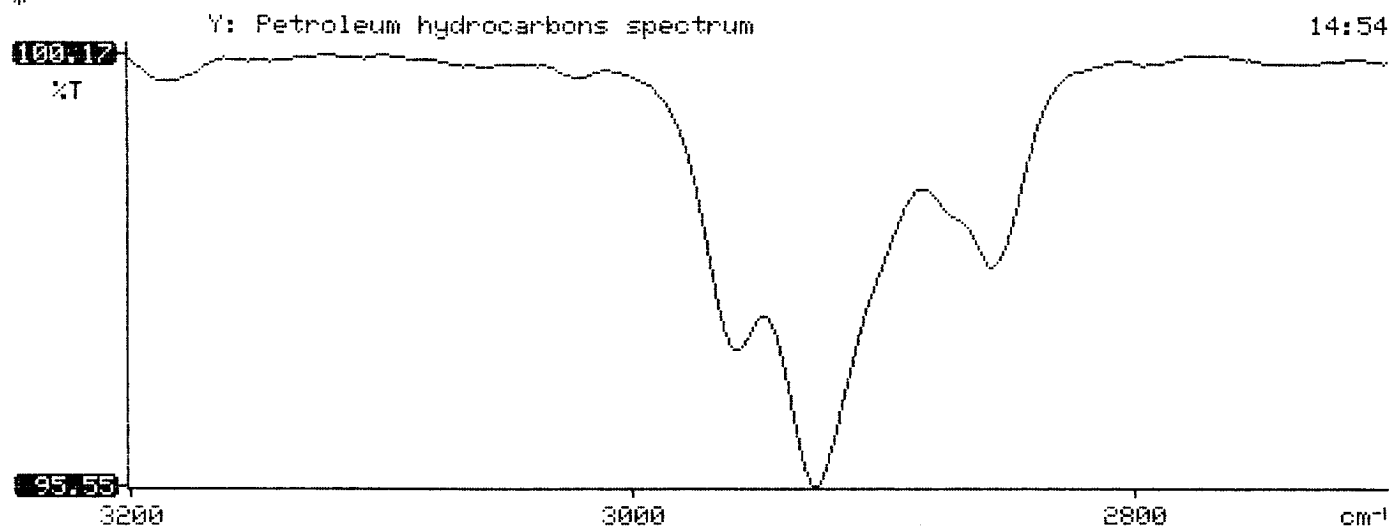
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil       *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                  *
*      Analysis Report                               *
*****

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* 95/08/02 14:53
*
* Sample identification
* 947126
*
* Initial mass of sample, g
* 2.000
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 81.463
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.020
*
*
*

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Analytical**Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, N
Phone (505) 344-3777 FAX (505) 3

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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.

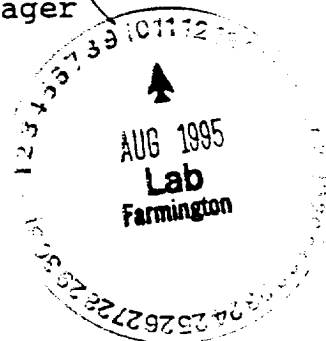
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager





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	*
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*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION