

Dennis E. Faust
EL PASO FIELD SERVICES
DEPUTY OIL & GAS INSPECTOR
PRODUCTION PIT CLOSURE

DEC 21 1998

Pittman
FEUILLE A#2
Meter/Line ID - 72006

RECEIVED
JUL 2 1998

SITE DETAILS

Legals - Twn: 29 Rng: 10
NMOCD Hazard Ranking: 30
Operator: MERIDIAN OIL INC

Sec: 17 Unit: B
Land Type: 2 - Federal
Pit Closure Date: 09/09/94

OIL CON. DIV.
PORT. R

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

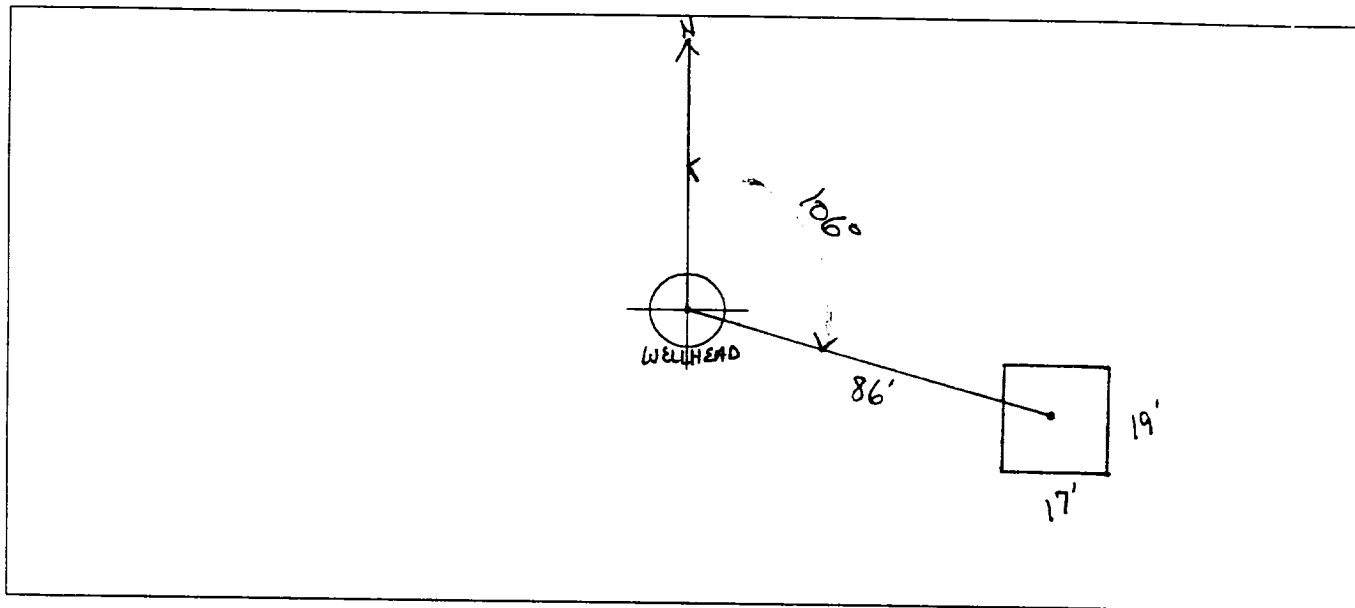
GENERAL	<p>Meter: <u>72000</u> Location: <u>Feuille A #2</u> Operator #: <u>2999</u> Operator Name: <u>MERIDIAN</u> P/L District: <u>BLOOMFIELD</u> Coordinates: Letter: <u>B</u> Section <u>17</u> Township: <u>29</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>5.20.94</u> Area: <u>10</u> Run: <u>93</u></p>												
	<table border="0"> <tr> <td data-bbox="207 697 467 732">NMOCD Zone:</td> <td data-bbox="899 697 1127 732">Land Type:</td> <td data-bbox="1185 697 1451 732">BLM <input checked="" type="checkbox"/> (1)</td> </tr> <tr> <td data-bbox="207 740 467 774">(From NMOCD</td> <td></td> <td data-bbox="1185 740 1451 774">State <input type="checkbox"/> (2)</td> </tr> <tr> <td data-bbox="207 783 467 817">Maps)</td> <td data-bbox="565 783 997 817">Inside <input checked="" type="checkbox"/> (1)</td> <td data-bbox="1185 783 1451 817">Fee <input type="checkbox"/> (3)</td> </tr> <tr> <td></td> <td data-bbox="565 825 997 859">Outside <input type="checkbox"/> (2)</td> <td data-bbox="1185 825 1451 859">Indian _____</td> </tr> </table> <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>VALDEZ CANYON</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) 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>		NMOCD Zone:	Land Type:	BLM <input checked="" type="checkbox"/> (1)	(From NMOCD		State <input type="checkbox"/> (2)	Maps)	Inside <input checked="" type="checkbox"/> (1)	Fee <input type="checkbox"/> (3)		Outside <input type="checkbox"/> (2)
NMOCD Zone:	Land Type:	BLM <input checked="" type="checkbox"/> (1)											
(From NMOCD		State <input type="checkbox"/> (2)											
Maps)	Inside <input checked="" type="checkbox"/> (1)	Fee <input type="checkbox"/> (3)											
	Outside <input type="checkbox"/> (2)	Indian _____											
REMARKS	<p>Remarks : <u>ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS IN VALDEZ CANYON. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.</u></p>												

DIG & HALL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 106° Footage from Wellhead 86'
b) Length : 19' Width : 17' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 1:49 P.M.

END DUMP

Completed By:

Robert Thompson

Signature

5.3.94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>72006</u> Location: <u>FEville # A-2</u></p> <p>Coordinates: Letter: <u>B</u> Section <u>17</u> Township: <u>29</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>9/9/94</u> Run: <u>10</u> <u>93</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 249</u></p> <p>Sample Depth: <u>10'</u> Feet</p> <p>Final PID Reading <u>351 ppm</u> PID Reading Depth <u>10'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>80</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> <input type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>9/9/94</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>Excavated pit to 10', Hit Rock ; Took PID Sample, closed pit.</u></p>
	<p>Signature of Specialist: <u><i>Kenny Pearson</i></u></p>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 249	946084
MTR CODE SITE NAME:	72006	N/A
SAMPLE DATE TIME (Hrs):	9-9-94	1510
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	9-13-94	9-13-94
DATE OF BTEX EXT. ANAL.:	9-14-94	9-16-94
TYPE DESCRIPTION:	VC	Brown/Gray Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	1.4	MG/KG	1			
TOLUENE	6.6	MG/KG	1			
ETHYL BENZENE	0.029	MG/KG	1			
TOTAL XYLENES	15	MG/KG	1			
TOTAL BTEX	23.0	MG/KG				
TPH (418.1)	1230 1231.4 9/16/94	MG/KG			2.10	28
HEADSPACE PID	351	PPM				
PERCENT SOLIDS	85.6	%				

-- 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: J.P.

Date: 10/23/94

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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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* 94/09/13 14:22

* Sample identification

* 946084

* Initial mass of sample, g

* 2.100

* Volume of sample after extraction, ml

* 28.000

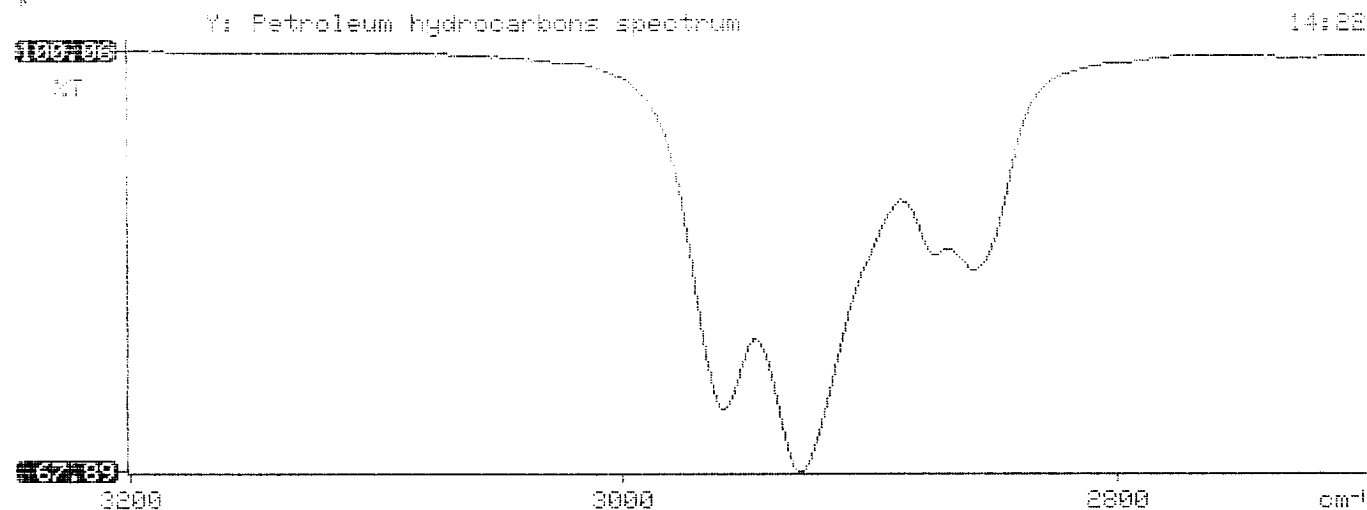
* Petroleum hydrocarbons, ppm

* 1231.351

* Net absorbance of hydrocarbons (2930 cm⁻¹)

* 0.168

*
*
*





Analytical **Technologies, Inc.**

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

ATI I.D. 409354

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

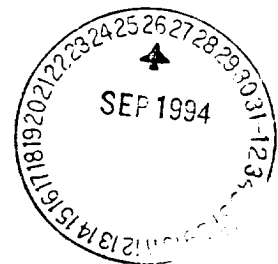
On 09/14/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

Letitia Krakowski, Ph.D.
Project Manager

MR:jt

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
 CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409354
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	946084	NON-AQ	09/09/94	09/14/94	09/16/94	1
11	946085	NON-AQ	09/09/94	09/14/94	09/17/94	1
12	946086	NON-AQ	09/09/94	09/14/94	09/15/94	1
PARAMETER			UNITS	10	11	12
BENZENE			MG/KG	1.4	<0.025	<0.025
TOLUENE			MG/KG	6.6	0.031	<0.025
ETHYLBENZENE			MG/KG	0.029	<0.025	<0.025
TOTAL XYLENES			MG/KG	15	<0.025	0.11

SURROGATE:

BROMOFLUOROBENZENE (%)	82	99	113
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PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # 1 of 1
Page 1

Project Name EPNG Pits
Project Number 14509 Phase 601 6000
Project Location Fernillo N.M. 2, 72006

Elevation _____
Borehole Location T29, R10, S17, B
GWL Depth _____
Logged By S.Kelly
Drilled By R. Padilla
Date/Time Started 7/11/95, 0715
Date/Time Completed _____

Well Logged By S.Kelly
Personnel On-Site R. Padilla, F. Rivera, D. Chaz
Contractors On-Site _____
Client Personnel On-Site _____
Drilling Method 4 1/2" ID HSA
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU <u>5/175</u> BZ BH S			Drilling Conditions & Blow Counts
0				Backfill to 10'						
5										
10				SILT, olive grey, hard dry			0	0		
15	1	15- 16.5	.75 1.5'				0	14	16 925	0810 - maybe weathered rock
20	2	20- 21.5	1.0' 1.5'	SAA					7 467	0830 slow drilling
25		25- 26.5	.1' 1.5'	SAA					0 NA	0845 stop RK 7/11/95
30				BoH- 26.5'						
35										
40										

Comments:

Anger refusal at 25'. Beat spoon, not enough recover
for a headspace analysis, so collected sample to
be sent to lab for BTEX & TPH. BH grouted to surface.

sample is SEK 33.

Geologist Signature

Sarah Kelly



Phase II

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK 33	946972
MTR CODE SITE NAME:	72006	N/A
SAMPLE DATE TIME (Hrs):	RB 7/12/95 7/11/95	08:45
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	7-12-95	7-12-95
DATE OF BTEX EXT. ANAL.:	07-17-95	07-18-95
TYPE DESCRIPTION:	VG	light gray sand + clay w/ pebbles

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	20.025	MG/KG	1			
TOLUENE	0.038	MG/KG	1			
ETHYL BENZENE	20.025	MG/KG	1			
TOTAL XYLENES	0.070	MG/KG	1			
TOTAL BTEX	0.158 0.108 ²⁰ _{12/8/95}	MG/KG				
TPH (418.1)	88.9	MG/KG			2.01	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	94.0%	%				

-- 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:

AT1 Results attached

DF = Dilution Factor Used

Approved By:

JP

Date:

8/3/95

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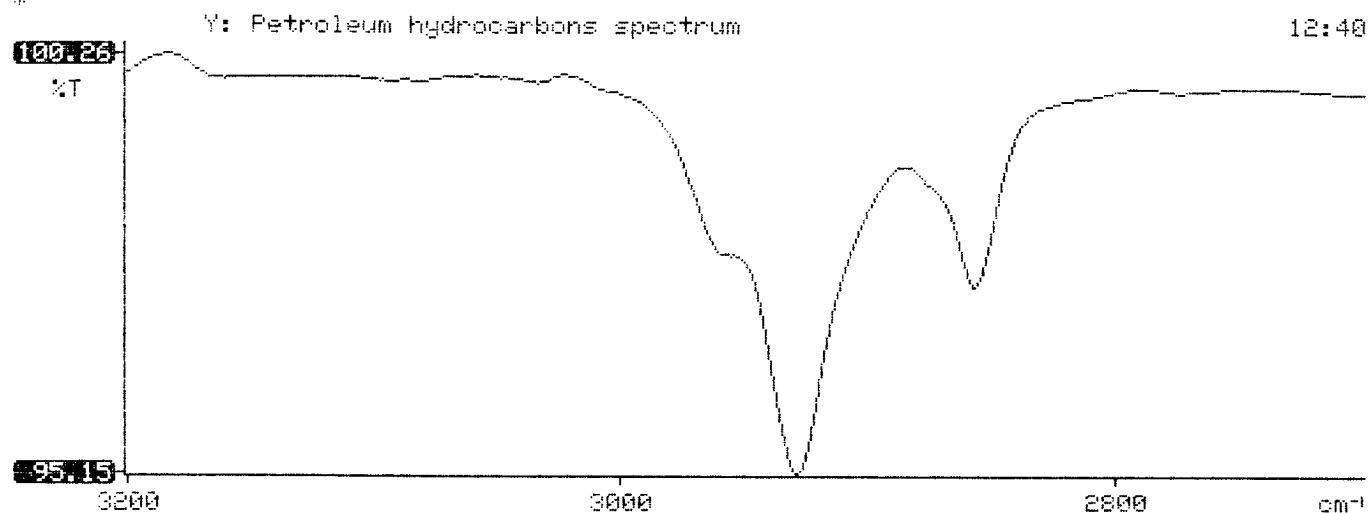
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*                                     *
*           Test Method for           *
*   Oil and Grease and Petroleum Hydrocarbons   *
*           in Water and Soil           *
*                                     *
*       Perkin-Elmer Model 1600 FT-IR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

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* 95/07/12 12:39
*
* Sample identification
* 946972
*
* Initial mass of sample, g
* 2.010
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 88.913
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.021
*
*
*

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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. 507340

July 20, 1995

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

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

Attention: John Lambdin

On 07/14/95, 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

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
 CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 507340
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE/PHASE I PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	946970	NON-AQ	07/10/95	07/17/95	07/17/95	1
08	946971	NON-AQ	07/10/95	07/17/95	07/18/95	1
09	946972	NON-AQ	07/11/95	07/17/95	07/18/95	1

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	0.038
ETHYLBENZENE	MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES	MG/KG	<0.025	<0.025	0.070

SURROGATE:

BROMOFLUOROBENZENE (%) 100 99 105