EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

RECEIVED
JUL 2 1996

SAN JUAN 28-6 #115
Meter/Line ID - 75069

SITE DETAILS

Legals - Twn: 27 **Rng:** 06 **Sec:** 03 **Unit:** N
NMOCD Hazard Ranking: 40 **Land Type:** 2 - Federal
Operator: MERIDIAN OIL INC **Pit Closure Date:** 03/30/95

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: 75069 Location: San Juan 28-6 # 115
Operator #: _____ Operator Name: Meridian P/L District: Bloomfield
Coordinates: Letter: N Section 03 Township: 27 Range: 06
Or Latitude _____ Longitude _____
Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: _____
Site Assessment Date: 3/9/95 Area: 10 Run: 52

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 Munoz Creek
(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**

REMARK

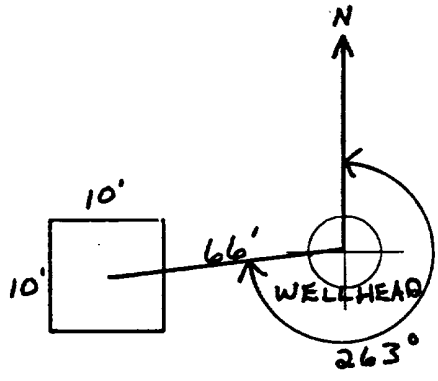
Remarks : Red Line shows Inside Topo shows Inside VZ 3 pits on Loc One Looks Like old blow pit, One has Dehy in service, Old Dehy pit belongs to EPNG Will close old Dehy pit Dig + Haul

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 263° Footage from Wellhead 66'

b) Length : 10' Width : 10' Depth : 2'



REMARKS

Remarks :

Photos: 13:11

Completed By:

James F Pennock

Signature

3/9/95

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75069 Location: San Juan 28-6 #115

Coordinates: Letter: N Section 3 Township: 27 Range: 6

Or Latitude _____ Longitude _____

Date Started : 3/30/95 Run: 10 52

FIELD OBSERVATIONS

Sample Number(s): KD 400 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 893 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 40

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☐ ☒ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 3/30/95 Pit Closed By: BEI

REMARKS

Remarks : EXCAVATED pit to 12', TOOK PID Sample, Closed pit.

Signature of Specialist: Kelly Dean

(SP3181) 03/16/9

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:	KD 400	9467666
MTR CODE | SITE NAME:	75069	N/A
SAMPLE DATE | TIME (Hrs):	3/30/95	1005
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	4/4/95	4/4/95
DATE OF BTEX EXT. | ANAL.:	4/4/95	4/5/95
TYPE | DESCRIPTION:	VC	Grey Sand & Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<4.10	MG/KG	1.63934		2.44	20
TOLUENE	117	MG/KG	↓		↓	↓
ETHYL BENZENE	25.8	MG/KG				
TOTAL XYLENES	377	MG/KG	↓		↓	↓
TOTAL BTEX	520	MG/KG				
TPH (418.1)	9190	MG/KG			1.03	28
HEADSPACE PID	893	PPM				
PERCENT SOLIDS	90.4	%				

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

The Surrogate Recovery was at 97.8 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: AD. Date: 4/18/95

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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                      *
**********************************************************
*
 95/04/04  13:34
*
*  Sample identification
 946766
*
*  Initial mass of sample, g
 1.030
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 9193.207
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.583
*
*
*
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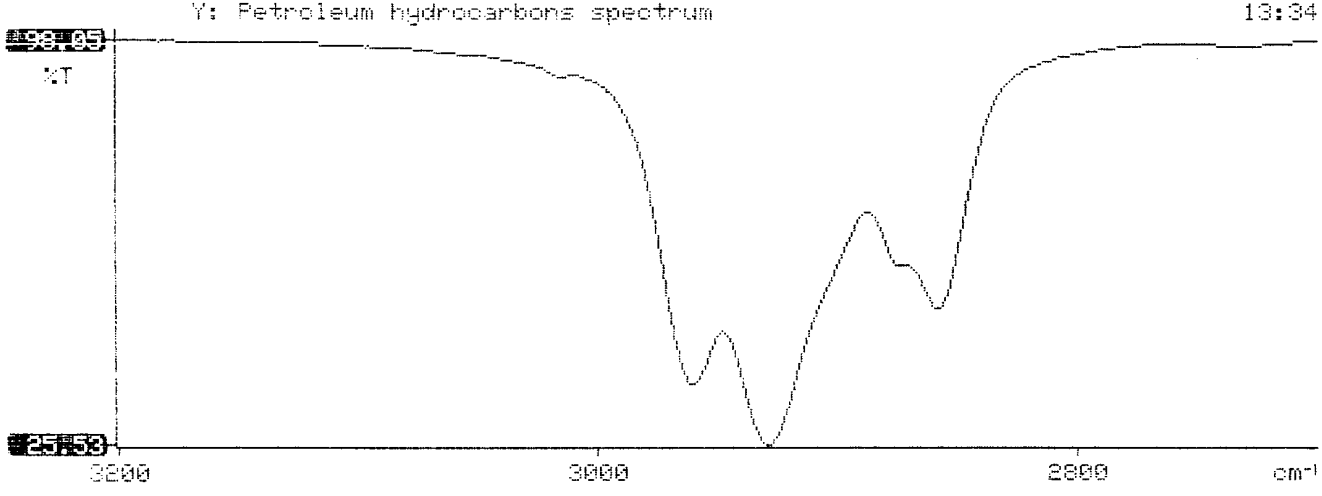


BTEX SOIL SAMPLE WORKSHEET

File	946766A	**Date Printed**	4/7/95
Soil Mass (g)	2.44	**Multiplier (L/g)**	0.00205
Extraction vol. (mL)	20	**DF (Analytical)**	800
Shot Volume (uL)	25	**DF (Report)**	1.63934

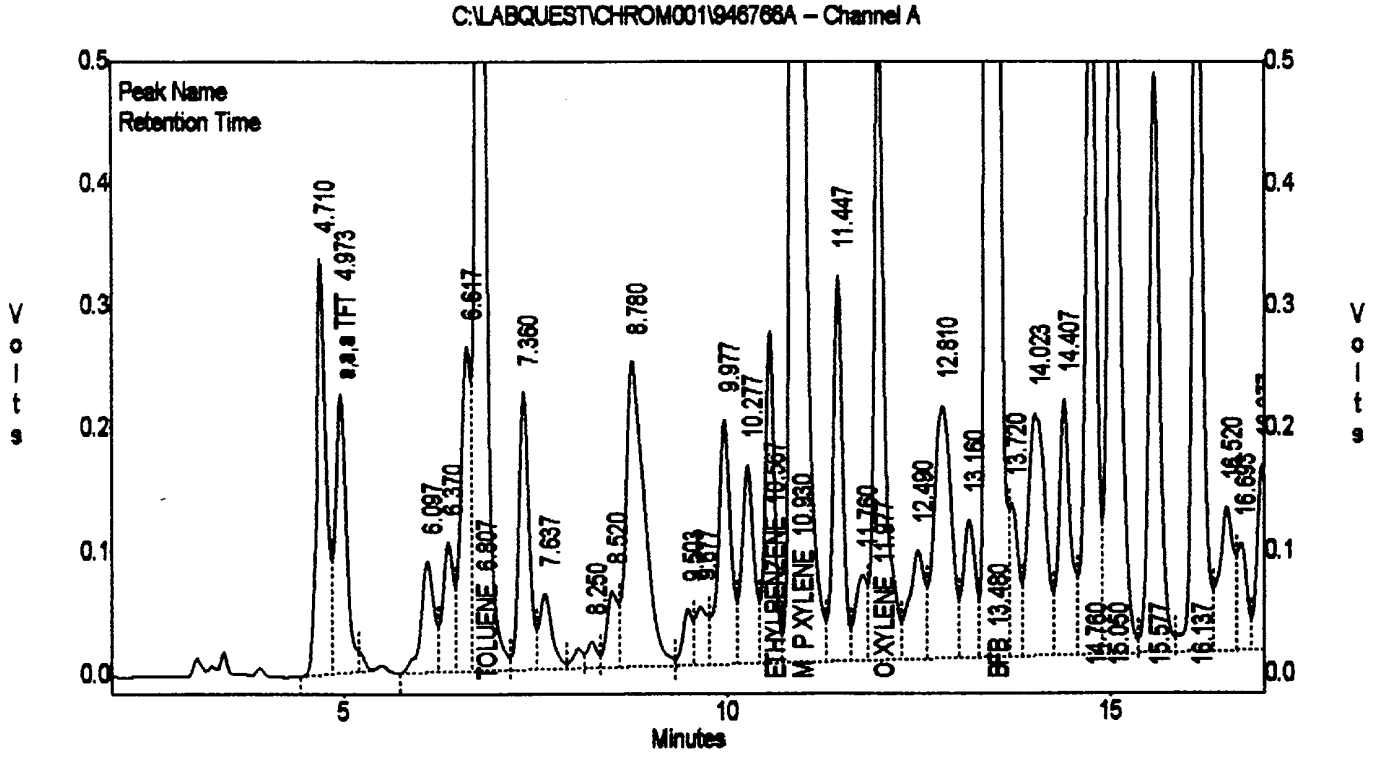
				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	4.098
Toluene (ug/L)	71.42	**Toluene (mg/Kg):**	**117.082**	4.098
Ethylbenzene (ug/L)	15.72	**Ethylbenzene (mg/Kg):**	**25.770**	4.098
p & m-xylene (ug/L)	192.91	p & m-xylene (mg/Kg):	316.246	8.197
o-xylene (ug/L)	37.02	o-xylene (mg/Kg):	60.689	4.098
		Total xylenes (mg/Kg):	**376.934**	12.295
		Total BTEX (mg/Kg):	**519.787**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946766A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946766,2.44/25uL
Acquired : Apr 05, 1995 15:19:18
Printed : Apr 05, 1995 15:45:34
User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.427	0	0.00000	0.0000
a,a,a TFT	4.973	2221416	17915.06641	121.5760
TOLUENE	6.807	11327102	152782.21875	71.4168
ETHYLBENZENE	10.567	2278778	137111.50000	15.7161
M & P XYLENE	10.930	31511188	163191.95313	192.9066
O XYLENE	11.977	5252118	131788.42188	37.0211
BFB	13.480	55455356	563092.56250	97.7532
Totals :		108045952		536.3898

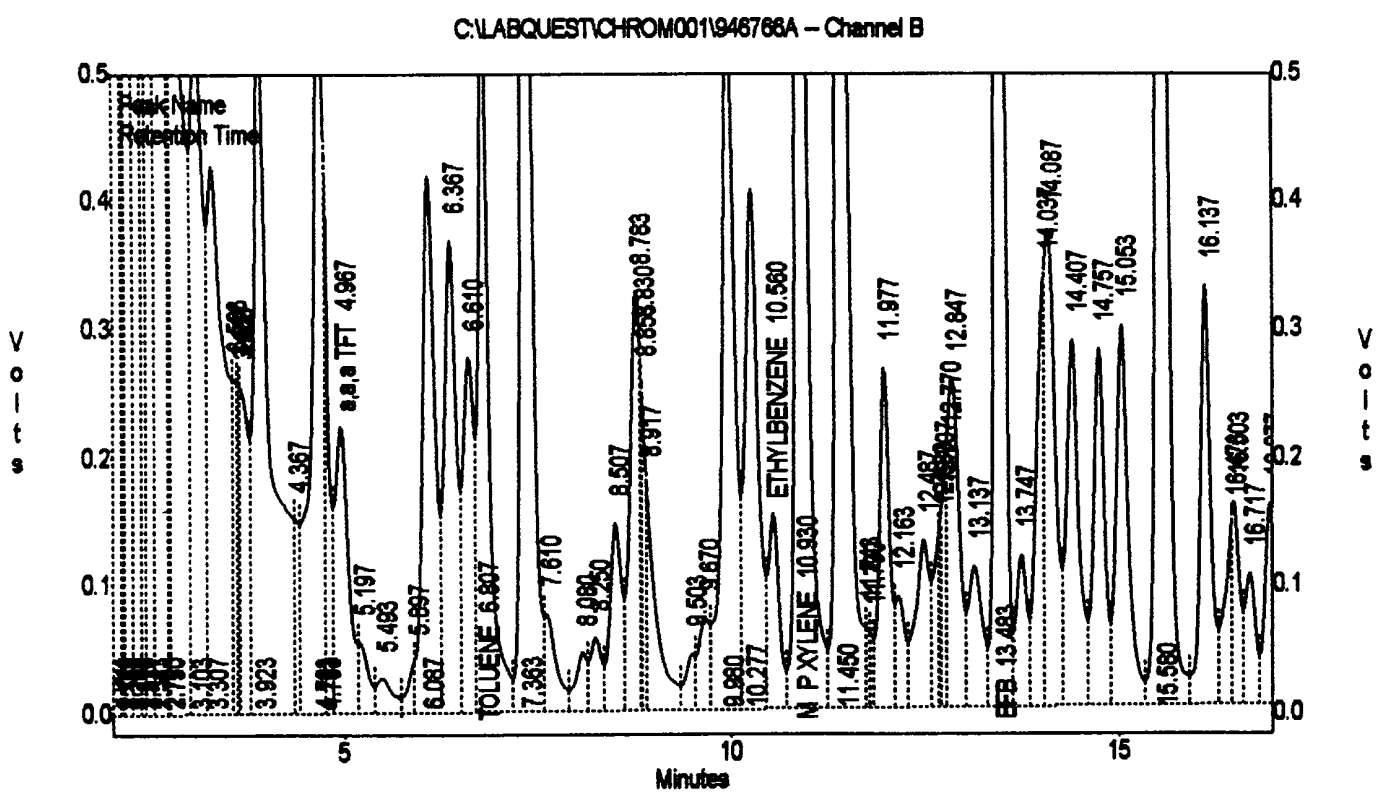


EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946766A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946766,2.44/25uL
Acquired : Apr 05, 1995 15:19:18
Printed : Apr 05, 1995 15:45:41
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.413	0	0.00000	0.0000
a,a,a TFT	4.967	2688771	9297.03906	275.9520
TOLUENE	6.807	5497079	47965.40234	107.3698
ETHYLBENZENE	10.560	1443167	46856.76953	28.7675
M & P XYLENE	10.930	12915143	48130.08203	254.7803
O XYLENE	12.063	0	0.00000	0.0000
BFB	13.483	13843721	96504.81250	141.5275
Totals :		36387880		808.3971



PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH1
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 San Juan 28-6 #115 7500'S

Elevation
Borehole Location Letter H-S3-T27-R6
GWL Depth
Logged By John LaBarbera
Drilled By Kelly Padilla
Date/Time Started 7/13/95 - 1105
Date/Time Completed - 1215

Well Logged By John LaBarbera
Personnel On-Site K Padilla, D Charley, F Rivera, C Chavez
Contractors On-Site
Client Personnel On-Site

Drilling Method 4.25" ID HSA
Air Monitoring Method PID & OVA

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	Air Monitoring Units: PPM BH	Air Monitoring Units: PPM HS	Drilling Conditions & Blow Counts
0				FILL						
5										
10										
15	1	14.5 15-17 SAB	17	Gray, loose, silty, fine, SAND, moist, odor	SM				1081 / 674	
20	2	20-21.5	18	AA - little clay	SM		9	2	1217 / 854	
25	3	25-26	18	Gray, med. dense, clayey, SILT, dry, odor	ML		13	127	2332 / 1773	11:58 Hand drilling - Brown, v.fn, Sandstone 11:41
	4	27.5-27.75 SAB	2	Brown, BRB v. dense, silty, v.fn. SANDSTONE, dry	X		2.7	156	N/A / 23	
30										
35				TOB at 27.75'						
40										

Comments: JFL 2 (27.5 - 27.75) sent to lab for BTEX / TPH analysis. Insufficient recovery for QA sample & headspace

Geologist Signature John LaBarbera

Phase II Drill -

San Juan 28-6 #11

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:	JFL2	946992
MTR CODE | SITE NAME:	75069	N/A
SAMPLE DATE | TIME (Hrs):	7/13/95	11:41
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7/14/95	7/14/95
DATE OF BTEX EXT. | ANAL.:	7/19/95	7/19/95
TYPE | DESCRIPTION:	VG	clumpy silty sand

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	0.42	MG/KG	1			
TOTAL BTEX	0.42	MG/KG				
TPH (418.1)	567	MG/KG			2.20	28
HEADSPACE PID	22	PPM				
PERCENT SOLIDS	96.8	%				

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

The Surrogate Recovery was at 123 % for this sample All QA/QC was acceptable.

Narrative: ATI Results for BTEX and modified 8015 attached. Surrogate Recovery outside ATI QC limits due to matrix interference

DF = Dilution Factor Used

Approved By: _____ Date: 8/3/95

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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                     *
**********************************************************
*
 95/07/14  13:54
*
*  Sample identification
 946992
*
*  Initial mass of sample, g
 2.200
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 567.196
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.086
*
*
*
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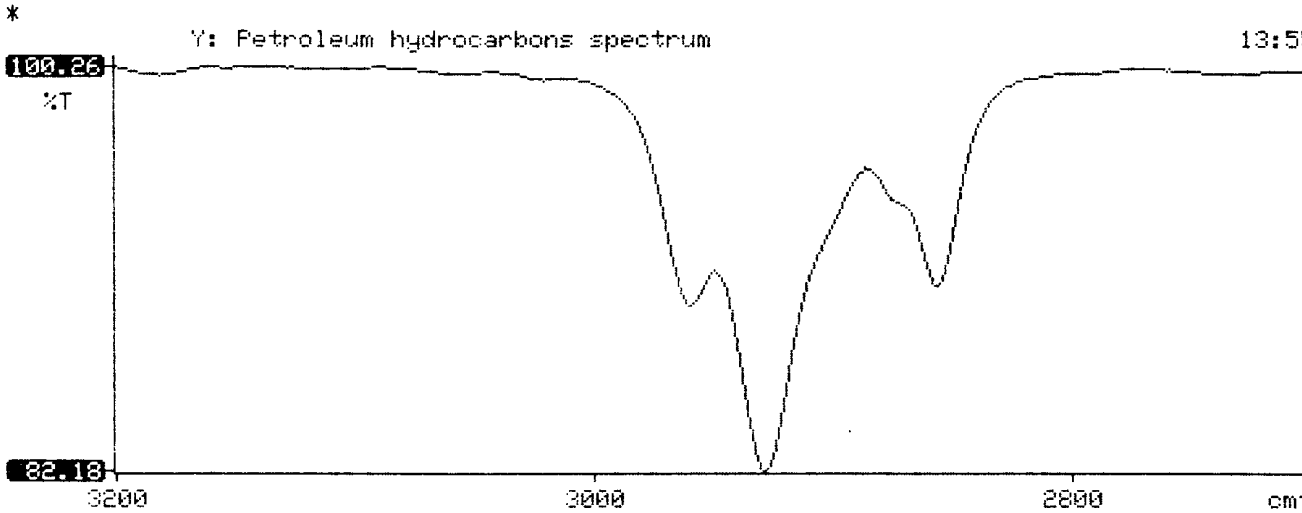


Analytical Technologies, Inc.

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

ATI I.D. **507358**

July 25, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II DRIL M/W 24324

Attention: John Lambdin

On **07/19/95**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous and 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.

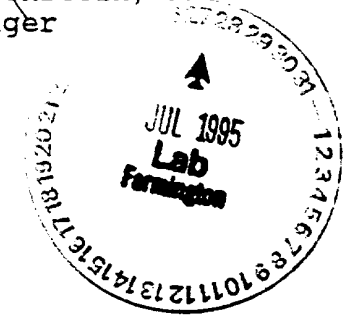
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 507358

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II DRIL

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946991	NON-AQ	07/13/95	07/19/95	07/20/95	1
02	946992	NON-AQ	07/13/95	07/19/95	07/20/95	1
03	946993	NON-AQ	07/13/95	07/19/95	07/21/95	50

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	1.9
TOLUENE	MG/KG	<0.025	<0.025	67
ETHYLBENZENE	MG/KG	<0.025	<0.025	13
TOTAL XYLENES	MG/KG	<0.025	0.42	190
SURROGATE:				
BROMOFLUOROBENZENE (%)		105	123*	**NA

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE
**SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 507358

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II DRIL

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
02	946992	NON-AQ	07/13/95	07/20/95	07/22/95	1
03	946993	NON-AQ	07/13/95	07/20/95	07/24/95	10
04	946994	NON-AQ	07/13/95	07/20/95	07/24/95	1

PARAMETER	UNITS	02	03	04
FUEL HYDROCARBONS	MG/KG	71	5300	4800
HYDROCARBON RANGE		C9-C32	C6-C14	C6-C14
HYDROCARBONS QUANTITATED USING		DIESEL	GASOLINE	GASOLINE
SURROGATE:				
O-TERPHENYL (%)		118	103	96