

EL PASO FIELD SERVICES
DEPUTY OIL CON. DIV. PRODUCTION PIT CLOSURE

DEC 2 1998

GALLEGOS CANYON UNIT 152
Meter/Line ID - 73931

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

SITE DETAILS

Legals - Twn: 29 Rng: 12

Sec: 21

Unit: M

NMOCD Hazard Ranking: 10

Land Type: 2 - Federal

Operator: AMOCO PRODUCTION COMPANY

Pit Closure Date: 05/02/94

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:

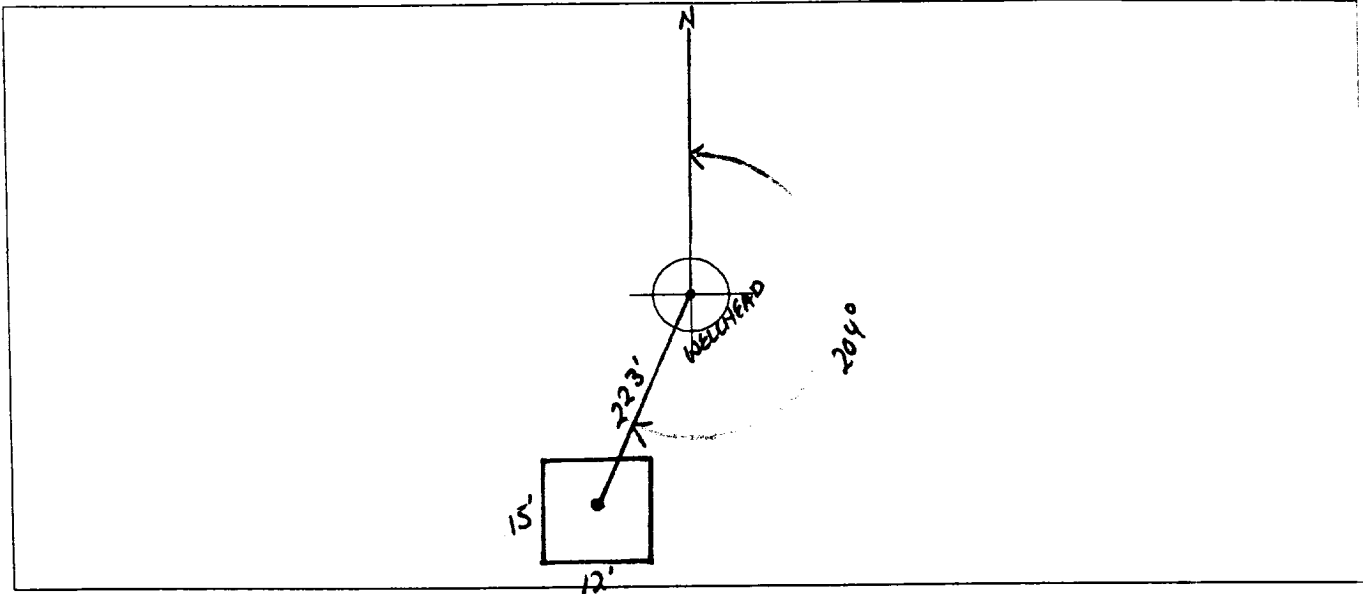
- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All 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	<p>Meter: <u>73931</u> Location: <u>GALLEGOS CANYON UNIT #152</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>KURTZ</u></p> <p>Coordinates: Letter: <u>M</u> Section <u>21</u> Township: <u>29</u> Range: <u>12</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Visit Date: <u>4.5.94</u> Run: <u>02</u> <u>33</u></p>
	<p>NMOCD Zone: Inside _____ Land Type: BLM <input checked="" type="checkbox"/> (From NMOCD Vulnerable _____ State <input type="checkbox"/> Maps) Zone <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Outside <input type="checkbox"/> Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/></p> <p>50 Ft to 99 Ft (10 points) <input type="checkbox"/></p> <p>Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/></p> <p>Wellhead Protection Area :</p> <p>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"/> YES (20 points) <input checked="" type="checkbox"/> NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/></p> <p>200 Ft to 1000 Ft (10 points) <input type="checkbox"/></p> <p>Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/></p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>TOTAL HAZARD RANKING SCORE: <u>0</u> POINTS</p>
REMARKS	<p>Remarks : <u>THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS UP ON A HILL JUST NORTH OF HWY. 64.</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 204° Footage to Wellhead 223'
 b) Degrees from North _____ Footage to Dogleg _____
 Dogleg Name _____
 c) Length : 15' Width : 12' Depth : 3'



REMARKS :

STARTED TAKING PICTURES AT 11:52 A.M.
END DUMP

Completed By:

Robert Thompson
 Signature

4.5.94
 Date

4-24-94
RT

GENERAL

SITE ASSESSMENT

EMARKS

PHASE I EXCAVATION

FIELD T REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>73931</u> Location: <u>GALLEGOS CANYON UNIT #152</u></p> <p>Coordinates: Letter: <u>M</u> Section <u>21</u> Township: <u>29</u> Range: <u>12</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>5-2-94</u> Area: <u>02</u> Run: <u>33</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): ⁹⁴⁵⁰⁵⁸<u>KP 11</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>446</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 <u>12</u> Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>30</u></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 type="checkbox"/> (1) <input checked="" type="checkbox"/> (3) Tierra</p> <p>Other Facility <input type="checkbox"/> (2) Name: _____</p> <p>Pit Closure Date: <u>5-2-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>NO LINE MARKER'S SOIL LOOKS A LITTLE BLACK</u></p> <p><u>BUT DOESN'T SMELL BAD</u></p>
	<p>Signature of Specialist: <u>Kelly Padilla</u></p>

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

Split with ATI

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KPII	94 5858
MTR CODE SITE NAME:	73931	N/A
SAMPLE DATE TIME (Hrs):	5/2/94	0935
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5/5/94	5/5/94
DATE OF BTEX EXT. ANAL.:	5/16/94	5/21/94
TYPE DESCRIPTION:	VC	Brown Sand delay

ATI 5/9/94 / 5/13/94

REMARKS: BTEX at 5g soil / 30 ml meth *Split*

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI RESULTS
			DF	Q	M(g)	V(ml)	
BENZENE	0.257	MG/KG					17
TOLUENE	7865	MG/KG		D			420
ETHYL BENZENE	151	MG/KG					66
TOTAL XYLENES	71000	MG/KG		D			690
TOTAL BTEX	> 2020	MG/KG	0.005769		5.20	30	1190
TPH (418.1)	6274 9570	MG/KG			2.75	28	20,000
HEADSPACE PID	446	PPM					
PERCENT SOLIDS	84.8	%					

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

The Surrogate Recovery was at 185 % for this sample All QA/QC was acceptable. *ATI SR = 160*

Narrative: Surrogate recovery was outside EPA QC limits due to matrix interference. ATI Results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.

Approved By: John Fambri Date: 7/14/94

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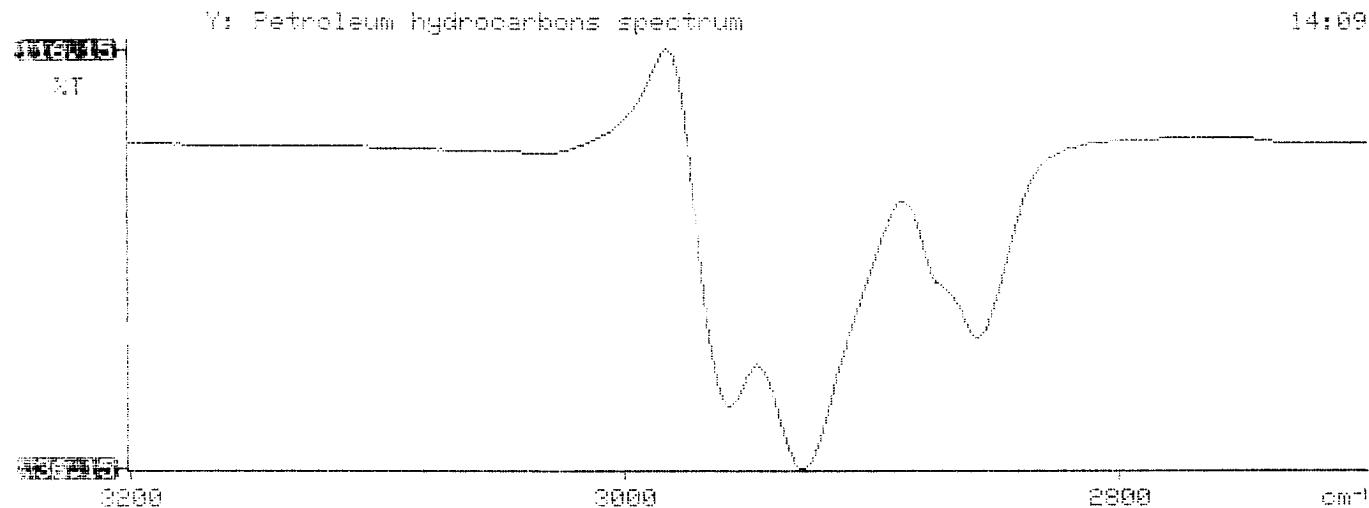
*****
*                                     *
*      Test Method for               *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil             *
*                                     *
*      Perkin-Elmer Model 1600 FT-IR      *
*      Analysis Report              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

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94/05/05  14:09
*
* Sample identification
945058
*
* Initial mass of sample, g
0.750
*
* Volume of sample after extraction, ml
25.000
*
* Petroleum hydrocarbons, ppm
9509.523
* Net absorbance of hydrocarbons (2930 cm-1)
0.433
*
*
*

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File: BETX_20.201

945058 1/200

John Lambdin
Type: Sample

Run: 1.01

File: 20.201.D

Collection: 16:26:00 May 21 1994 Meth(A): BETX [09:15:25 May 18 1994]
Integration: 16:26:00 May 21 1994 Meth(A): BETX [09:15:25 May 18 1994]
Report: 16:52:09 May 21 1994 Meth(A): BETX [09:15:25 May 18 1994]

Sample Amt: 1.00000e+0

Dilution: 2.00000e+2

EXTERNAL STANDARD (AREA)

RT	Area	SC	ExpRT	RF	ug/L	Name
10.006	42588	T		0.00000e+0	0.0000	Unknown
10.710	3151299	T		0.00000e+0	0.0000	Unknown
10.903	2404391	T		0.00000e+0	0.0000	Unknown
11.098	3422473	T		0.00000e+0	0.0000	Unknown
11.433	3571430	T	11.411	7.58423e-5	44.53 8906.0566	Benzene
11.595	479695	T		0.00000e+0	0.0000	Unknown
11.745	441665	T		0.00000e+0	0.0000	Unknown
11.908	1376603	T		0.00000e+0	0.0000	Unknown
12.218	3194880			0.00000e+0	0.0000	Unknown
13.575	42674504	T		0.00000e+0	0.0000	Unknown
13.797	24300710	T	13.797	1.69134e-4	822013.0625	R a,a,a TPT
14.275	1187521			0.00000e+0	0.0000	Unknown
15.120	322732	T		0.00000e+0	0.0000	Unknown
15.320	6073254	T		0.00000e+0	0.0000	Unknown
15.700	5410933	T		0.00000e+0	0.0000	Unknown
15.917	82370	V		0.00000e+0	0.0000	Unknown
16.212	23224580	T	16.502	7.57032e-5	748.1 35163.4844	Toluene $\times 200 = 150,000$
16.483	98172944	V		0.00000e+0	0.0000	Unknown
16.945	3143465			0.00000e+0	0.0000	Unknown
19.153	130240	V		0.00000e+0	0.0000	Unknown
19.470	7365234	T		0.00000e+0	0.0000	Unknown
19.620	6150234	V		0.00000e+0	0.0000	Unknown
19.811	5373908	V		0.00000e+0	0.0000	Unknown
20.006	386521	T	20.235	3.63303e-5	130.3 55.7854	Ethylbenzene $\times 200 = 26,10$
20.098	15757154		20.111	7.58233e-5	37.77 25860.4144	m & p-Xylenes $\times 200 = 118,0$
20.303	63889804	T		0.00000e+0	0.0000	Unknown
20.352	8237737	T		0.00000e+0	0.0000	Unknown
20.500	963687	T	20.552	5.11022e-5	278.69 986.4734	o-Xylenes $\times 200 = 55,700$
20.730	33446412	T		0.00000e+0	0.0000	Unknown
20.907	5822404	T		0.00000e+0	0.0000	Unknown
21.002	10417894	T		0.00000e+0	0.0000	Unknown
21.113	2985862	T	21.084	3.27684e-5	185.2 6151.1350	BFB $\times 10$
21.253	34063804	T		0.00000e+0	0.0000	Unknown
21.400	5720166	T		0.00000e+0	0.0000	Unknown
21.488	3026214	T		0.00000e+0	0.0000	Unknown
21.568	16311342	T		0.00000e+0	0.0000	Unknown
21.637	19382686	T		0.00000e+0	0.0000	Unknown
21.800	4978153	T		0.00000e+0	0.0000	Unknown
21.927	18025320	T		0.00000e+0	0.0000	Unknown
22.045	2813548	T		0.00000e+0	0.0000	Unknown
22.111	5803468	T		0.00000e+0	0.0000	Unknown
22.226	3652507	T		0.00000e+0	0.0000	Unknown
22.298	1012281	T		0.00000e+0	0.0000	Unknown
22.390	2604630	T		0.00000e+0	0.0000	Unknown
22.440	4661117	T		0.00000e+0	0.0000	Unknown
22.520	2915405	T		0.00000e+0	0.0000	Unknown
22.576	1050942	T		0.00000e+0	0.0000	Unknown
22.655	1739762	T		0.00000e+0	0.0000	Unknown
22.698	938841	V		0.00000e+0	0.0000	Unknown
22.797	730334	T		0.00000e+0	0.0000	Unknown

120.000

119.900

119.800

119.700 benzene

119.600

119.500

119.400

119.300

119.200

119.100

119.000

118.900

118.800

118.700

118.600

118.500

118.400

118.300

118.200

118.100

118.000

117.900

117.800

117.700

117.600

117.500

117.400

117.300

117.200

117.100

117.000

116.900

116.800

116.700

116.600

116.500

File: BETX_20.001

945058 1/200

John Lambdin
Type: Sample

File: 01

Path: C:\MSDCHEM

Collection: 16:26:00 May 21 1994 Meth(A): BETX 09:15:25 May 18 1994 1
Integration: 16:26:00 May 21 1994 Meth(A): BETX 09:15:25 May 18 1994 1
Report: 16:22:09 May 21 1994 Meth(A): BETX 09:15:25 May 18 1994 1

Sample Amt: 1.000000e+0

Dilution: 2.000000e+2

EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
10.306	42583	T		0.000000e+0	0.0000	Unknown
10.710	3151299	T		0.000000e+0	0.0000	Unknown
10.903	2404391	T		0.000000e+0	0.0000	Unknown
11.098	3422473	T		0.000000e+0	0.0000	Unknown
11.403	3371430	T	11.411	7.53423e-6	44.53 8906.0566	Benzene
11.595	479695	T		0.000000e+0	0.0000	Unknown
11.745	441666	T		0.000000e+0	0.0000	Unknown
11.908	1376603	T		0.000000e+0	0.0000	Unknown
12.215	3194890	T		0.000000e+0	0.0000	Unknown
13.575	42674504	T		0.000000e+0	0.0000	Unknown
13.797	24300710	T	13.797	1.69134e-4	822013.062E	R a,a,a TFT
14.275	1137521	T		0.000000e+0	0.0000	Unknown
15.120	322732	T		0.000000e+0	0.0000	Unknown
15.320	6073254	T		0.000000e+0	0.0000	Unknown
15.700	5410933	T		0.000000e+0	0.0000	Unknown
15.917	82370	V		0.000000e+0	0.0000	Unknown
16.212	23224580	T	16.302	7.57032e-6	748.1 35163.1844	Toluene x200 = 150,000
16.483	98172944	V		0.000000e+0	0.0000	Unknown
16.945	3143485	T		0.000000e+0	0.0000	Unknown
19.153	130240	V		0.000000e+0	0.0000	Unknown
19.473	7365234	T		0.000000e+0	0.0000	Unknown
19.620	5150234	V		0.000000e+0	0.0000	Unknown
19.811	3373908	V		0.000000e+0	0.0000	Unknown
20.006	386521	T	19.833	3.63902e-6	130.3 33.7254	Ethylbenzene x200 = 26,10
20.008	18757134	T	20.111	7.13213e-6	57.77 33363.1144	m & p-Xylenes x200 = 118,0
20.308	63889804	T		0.000000e+0	0.0000	Unknown
20.352	3237737	T		0.000000e+0	0.0000	Unknown
20.500	963687	T	20.352	5.11822e-6	278.69 385.4731	o-Xylenes x200 = 55,700
20.720	33446412	T		0.000000e+0	0.0000	Unknown
20.907	5822404	T		0.000000e+0	0.0000	Unknown
21.002	10417894	T		0.000000e+0	0.0000	Unknown
21.113	2985362	T	21.084	1.27634e-6	185.2 3151.1360	BFB x10
21.253	34063804	T		0.000000e+0	0.0000	Unknown
21.400	5720166	T		0.000000e+0	0.0000	Unknown
21.488	3026214	T		0.000000e+0	0.0000	Unknown
21.568	16311342	T		0.000000e+0	0.0000	Unknown
21.637	19382688	T		0.000000e+0	0.0000	Unknown
21.800	4978153	T		0.000000e+0	0.0000	Unknown
21.927	18025320	T		0.000000e+0	0.0000	Unknown
22.045	2813548	T		0.000000e+0	0.0000	Unknown
22.111	5803468	T		0.000000e+0	0.0000	Unknown
22.226	3652507	T		0.000000e+0	0.0000	Unknown
22.298	1012281	T		0.000000e+0	0.0000	Unknown
22.390	2604650	T		0.000000e+0	0.0000	Unknown
22.440	4661117	T		0.000000e+0	0.0000	Unknown
22.520	2915405	T		0.000000e+0	0.0000	Unknown
22.576	1050942	T		0.000000e+0	0.0000	Unknown
22.655	1739762	T		0.000000e+0	0.0000	Unknown
22.698	938841	V		0.000000e+0	0.0000	Unknown
22.797	730334	T		0.000000e+0	0.0000	Unknown

Handwritten signature
5/23/94



Analytical **Technologies, Inc.**

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

ATI I.D. 405331

May 19, 1994

El Paso Natural Gas Company
770 W. Navajo
Farmington, NM 87401

Project Name/Number: PIT PROJECT 24324

Attention: John Lambdin

On 05/06/94, 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.

Upon arrival, it was noted that sample 945055 contained headspace. The client was notified and the sample was analyzed "as is."

The laboratory was instructed to correct the sampling data for sample 945075 to 05/04/94.

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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405331
PROJECT # : 24324
PROJECT NAME : PIT PROJECT

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
08	945056	NON-AQ	05/02/94	05/09/94	05/13/94	25
09	945057	NON-AQ	05/02/94	05/09/94	05/12/94	50
10	945058	NON-AQ	05/02/94	05/09/94	05/13/94	50
PARAMETER			UNITS	08	09	10
BENZENE			MG/KG	<0.62	<1.2	17
TOLUENE			MG/KG	<0.62	<1.2	420
ETHYLBENZENE			MG/KG	3.1	4.2	66
TOTAL XYLENES			MG/KG	36	64	690

SURROGATE:

BROMOFLUOROBENZENE (%) 103 50* 160*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

Split sample



Analytical Technologies, Inc.

EPNG. Sample # 945058

GENERAL CHEMISTRY RESULTS

CLIENT	: EL PASO NATURAL GAS CO.	ATI I.D.	: 405331
PROJECT #	: 24324	DATE RECEIVED	: 05/06/94
PROJECT NAME	: PIT PROJECT	DATE ANALYZED	: 05/17/94

PARAMETER	UNITS	10
PETROLEUM HYDROCARBONS, IR	MG/KG	20000



PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

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

Borehole # BH-1

Well #

Page 1 of 2

Project Name

EPNG PITS

Project Number

14509

Phase

6000 77

Project Location

Gallegos Canyon Unit #152 739.3

Elevation

Borehole Location QM-S21-T29-R12

GWL Depth

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 10/31/95-0800

Date/Time Completed 10/31/95-1015

Well Logged By

CM Chance

Personnel On-Site

K Padilla, F. Rivera, D. Charlip

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			Drilling Conditions & Blow Counts
							BZ	BH	HS	
0				Backfill to 12'						
15	1	15-17	4"	Gry SAND, vF-F sand, med dense, dry		18	130	265	0807h	
20	2	20-22	5"	Gry SAND, vF-F sand, med dense, w/ gravel & cobble fragments, dry		4	459	395	0816	cobbles @ ~19'
25	3	25-27	8	Grn sandy CLAY, vF-F sand, stiff, low plastic, dry		8	360	925	0827	hard dring incobbles
30	4	30-31	4	Gry SAND, vF-F sand, tr med, tr cementation, dense, dry		4	380	852	0836	-out of cobbles @ ~23'
35	5	35-36	4	Br SAND, vF-F sand, tr med, tr cementation, dense, dry		19	368	757	0847	-cobbles @ ~27'
40	6	40-40.5	3	Br SAND, F-med sand, tr cementation, dense, dry		8	450	857	0900	

Comments:

Geologist Signature

CM Chance

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

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

Borehole # BH-1

Well #

Page 2 of 2

Project Name EPNG PITS

Project Number 14509 Phase 6000 77

Project Location Gallegos Canyon Unit #152 73921

Well Logged By CM Chance

Personnel On-Site K Padilla, F. Rivera, D. Charles

Contractors On-Site

Client Personnel On-Site

Elevation

Borehole Location QM-S31-T29-R12

GWL Depth

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 10/21/95-0800

Date/Time Completed 10/21/95-1015

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			Drilling Conditions & Blow Counts
							BZ	BH	HS	
40										
45	7	45-45.5	4"	Br/Reddish Br SAND, F-med sand, w. dense, tr cementation, dry TDB 45.5'			8	339	475 177	-V hard drilling -0922 -Refusal @ 45' w/ auger
50										
55										
60										
65										
70										
75										
80										

Comments:

Refusal @ 45' w/ auger CM (171 (45-45.5') sent to lab (BTEX/TH) BH grouted to surface

Geologist Signature

Camy Charles



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CNC171	947714
MTR CODE SITE NAME:	73931	Gallegos Canyon Unit #152
SAMPLE DATE TIME (Hrs):	10-31-95	0922
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	11/1/95	
DATE OF BTEX EXT. ANAL.:	11/1/95	11/1/95
TYPE DESCRIPTION:	V6	Brown fine sand

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)	47	MG/KG			2.0	28
HEADSPACE PID	177	PPM				
PERCENT SOLIDS	91.7	%				

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

The Surrogate Recovery was at 84% for this sample All QA/QC was acceptable.

Narrative:

ATI Results for 8015 attached (<5).

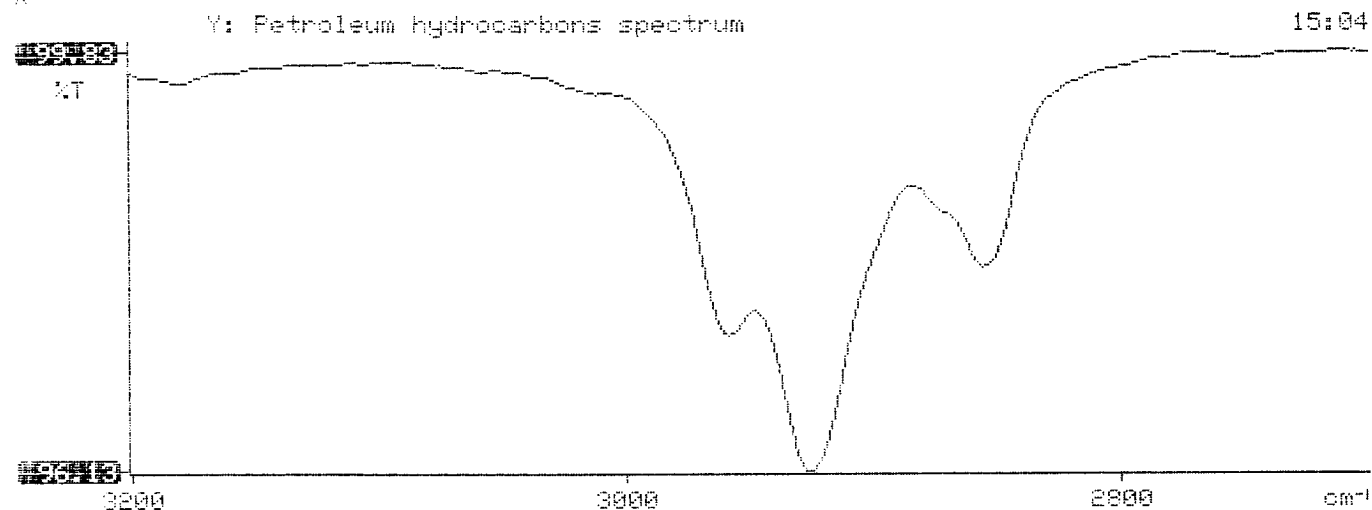
DF = Dilution Factor Used

Approved By: JP.

Date: 11/3/95

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

* 95/11/01 15:03
 * Sample identification
 * 947714
 * Initial mass of sample, g
 * 2.000
 * Volume of sample after extraction, ml
 * 28.000
 * Petroleum hydrocarbons, ppm
 * 46.700
 * Net absorbance of hydrocarbons (2930 cm⁻¹)
 * 0.016
 *
 *
 *



BTEX SOIL SAMPLE WORKSHEET

File	:	947714	Date Printed	:	11/3/95
Soil Mass (g)	:	4.96	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report):	:	0.20161

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	0.21	Benzene (mg/Kg):	0.042 0.504
Toluene (ug/L)	:	0.83	Toluene (mg/Kg):	0.167 0.504
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.504
p & m-xylene (ug/L)	:	1.09	p & m-xylene (mg/Kg):	0.220 1.008
o-xylene (ug/L)	:	0.26	o-xylene (mg/Kg):	0.052 0.504
			Total xylenes (mg/Kg):	0.272 1.512
			Total BTEX (mg/Kg):	0.482



Analytical**Technologies**, Inc.

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

ATI I.D. 511319

November 14, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On 11/08/95, 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



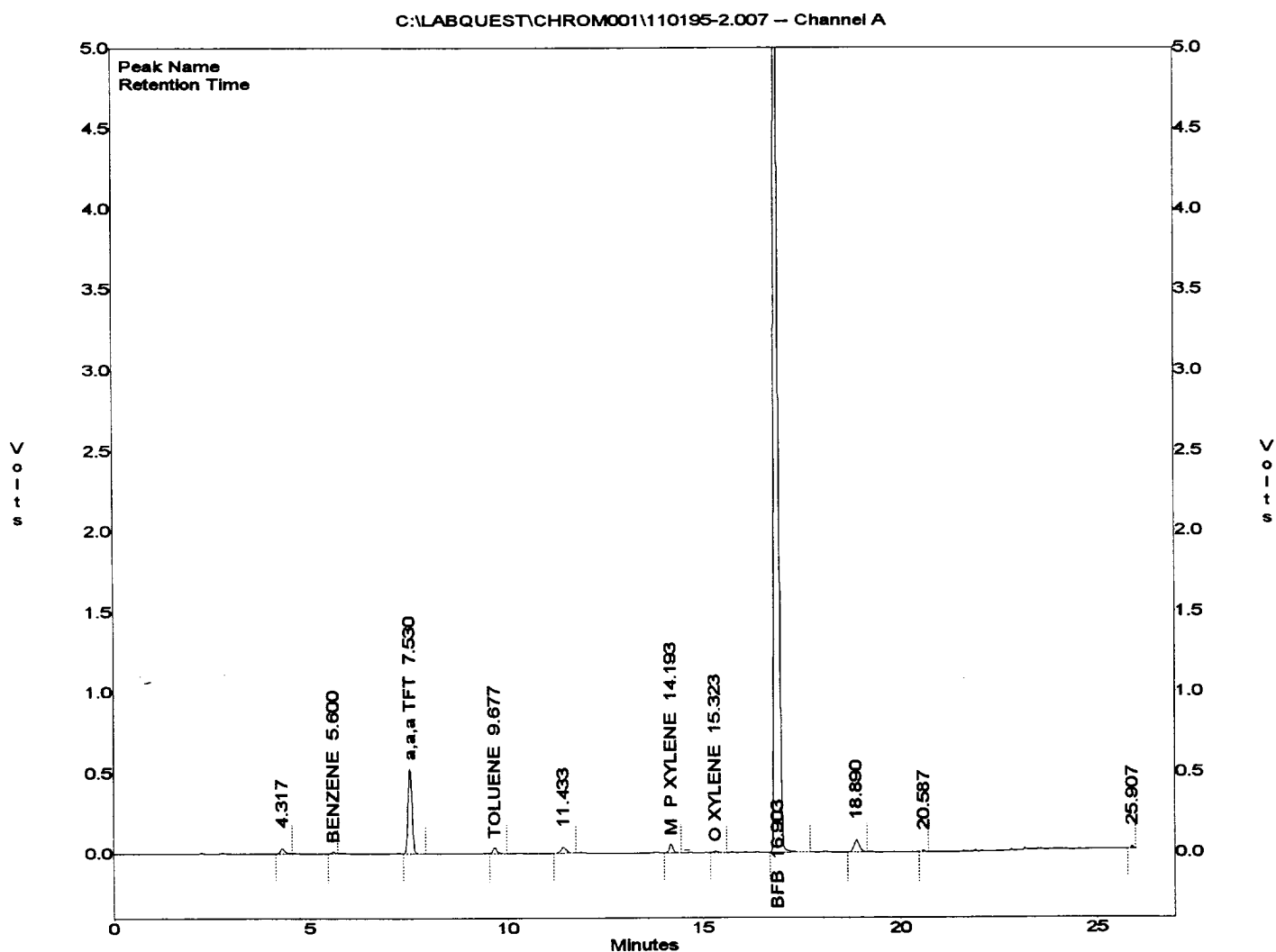
EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\110195-2.007
 Method : C:\LABQUEST\METHODS\1-102795.MET
 Sample ID : 947714,4.96G,50U
 Acquired : Nov 01, 1995 20:34:13
 Printed : Nov 02, 1995 08:23:27
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	5.600	72235	0.2092
a,a,a TFT	7.530	3651712	81.6647
TOLUENE	9.677	275376	0.8294
ETHYLBENZENE	13.777	0	0.0000
M & P XYLENE	14.193	381283	1.0871
O XYLENE	15.323	71485	0.2594
BFB	16.903	51068896	84.1173



GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED
 CLIENT : EL PASO NATURAL GAS ATI I.D.: 511319
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947714	NON-AQ	10/31/95	11/09/95	11/09/95	1
02	947715	NON-AQ	10/31/95	11/09/95	11/09/95	1
03	947720	NON-AQ	11/01/95	11/09/95	11/11/95	5
PARAMETER			UNITS	01	02	03
FUEL HYDROCARBONS			MG/KG	<5	150	2700
HYDROCARBON RANGE				-	C7-C28	C7-C16
HYDROCARBONS QUANTITATED USING				-	GASOLINE	GASOLINE

SURROGATE:

O-TERPHENYL (%)	103	115	108
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