

EPFS PIT CLOSURE SUMMARY

Denny E. Fort
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Lindrith Unit B # 25
Meter/Line ID - 44242

Approved

Legals - Twn: 24 Rng: 3
NMOCD Hazard Ranking: 40
Operator: Mobil

SITE DETAILS

Sec: 9 Unit: O
Land Type: FEE

PREVIOUS ACTIVITIES

Site Assessment: 8/2/94 Excavation: 10/11/94 Soil Boring: 6/1/95
Monitor Well: N/A Re-Excavation: N/A Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 24 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be below standards at .529 mg/kg, and TPH was above standards at 227 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A brown sandy clay was encountered at 15 feet bgs and continued to the termination of the boring at 17 feet bgs. A soil sample was collected for BTEX and TPH analysis at 15-17 feet bgs. Laboratory analysis showed all BTEX compounds and TPH to be below laboratory detection limits.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 3 feet beneath the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

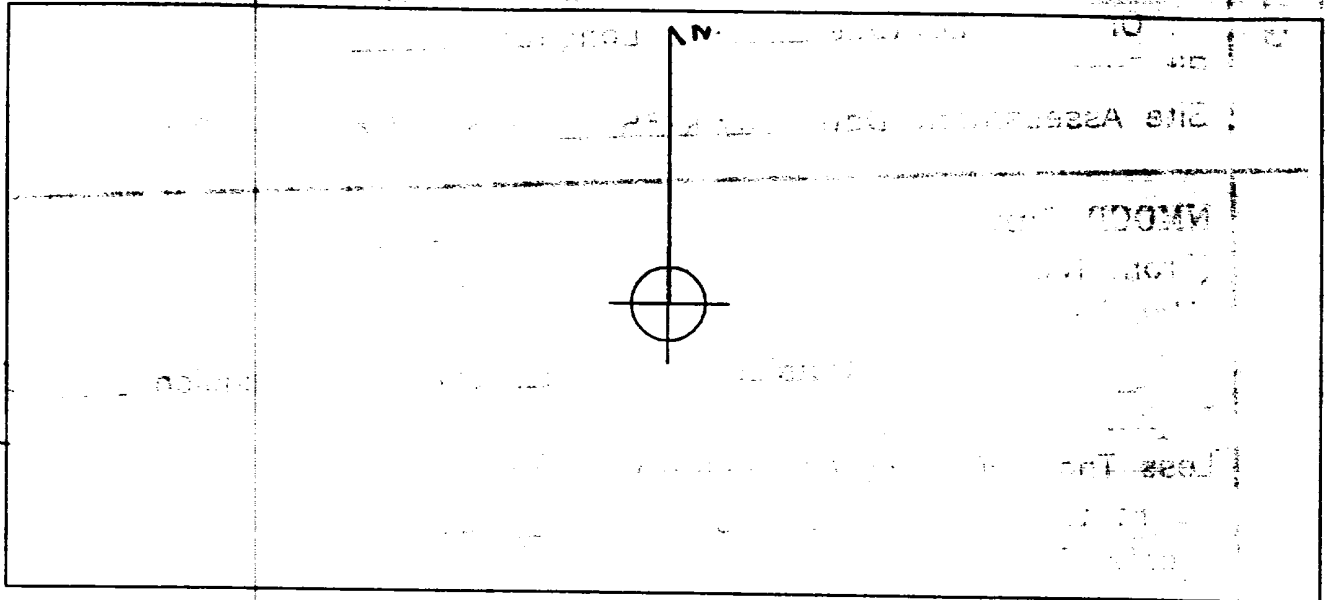
RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>44242</u> Location: <u>Lindbergh Unit B #25</u></p> <p>Operator #: <u>6098</u> Operator Name: <u>Mobi</u> P/L District: <u>OJITO</u></p> <p>Coordinates: Letter: <u>0</u> Section <u>9</u> Township: <u>24</u> Range: <u>3</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>8/2/94</u> Area: <u>08</u> Run: <u>83</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 type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input checked="" type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input 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>Canada Lery</u></p> <p>(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>40</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline Book - Inside</u> <u>Vulnerable Zone Type - Inside</u></p> <p><u>1 pit. Will close. Liquid in pit</u></p> <p style="text-align: right;"><u>DIG + HAU</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 304° Footage from Wellhead 186'
 b) Length : 21' Width : 21' Depth : 5'



REMARKS :

Pictures @ 0949

Bearing taken From Linkerth Unit 23 wellhead

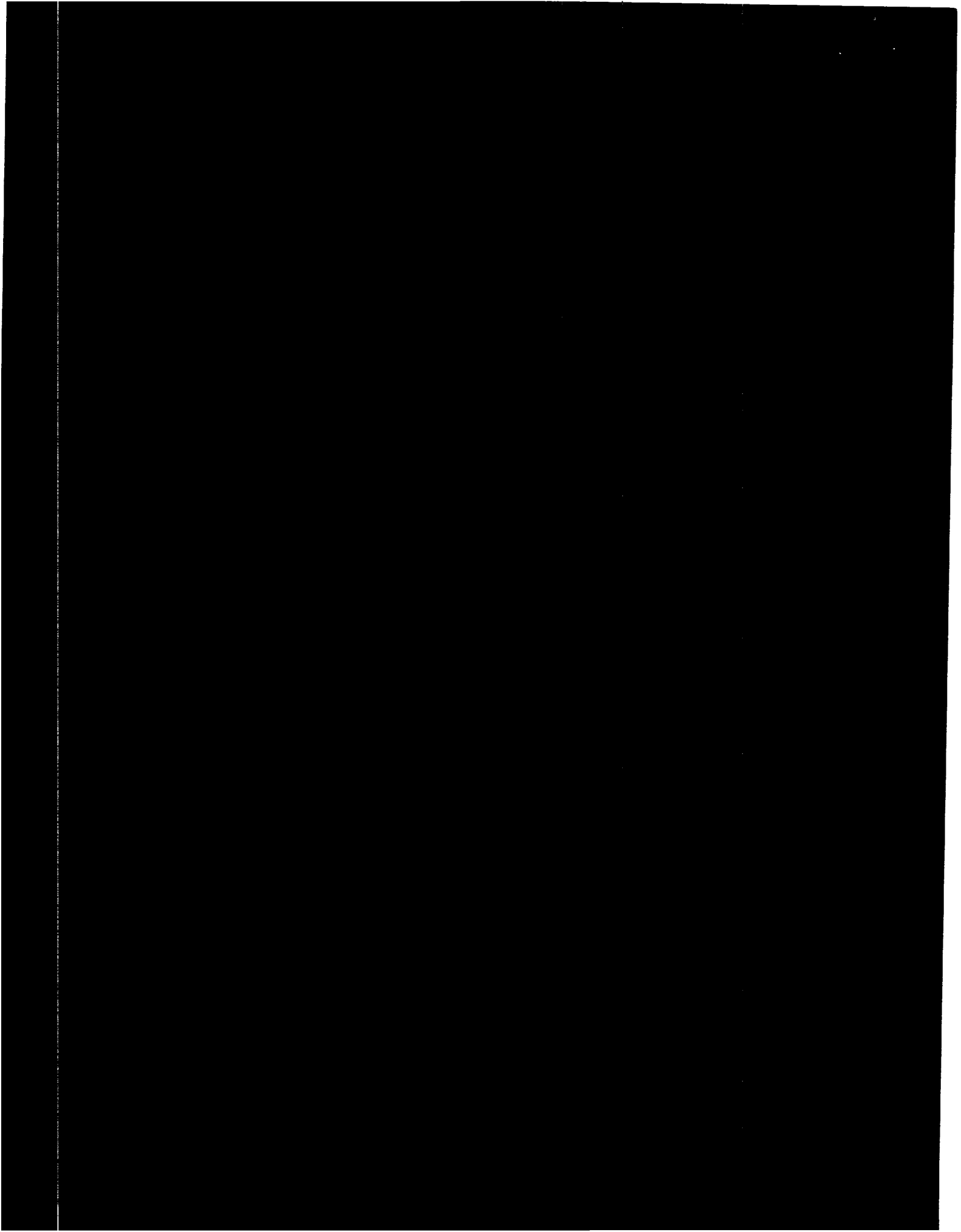
Completed By:

Cony Chase
 Signature

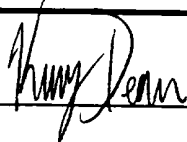
8/2/94

Date

PHASE I EXCAVATION



FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>44242</u> Location: <u>Lindwith B#25</u> Coordinates: Letter: <u>0</u> Section <u>9</u> Township: <u>24</u> Range: <u>3</u> Or Latitude _____ Longitude _____ Date Started : <u>10/11/94</u> Run: <u>08</u> <u>03</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KD 329</u> <u>KD 330</u> <u>KD 331</u> _____ Sample Depth: <u>12'</u> Feet Final PID Reading <u>24 ppm</u> PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet
CLOSURE	Remediation Method : <div style="display: flex; justify-content: space-between;"> <div> Excavation Onsite Bioremediation Backfill Pit Without Excavation </div> <div style="text-align: right;"> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> </div> Approx. Cubic Yards <u>70</u> Soil Disposition: <div style="display: flex; justify-content: space-between;"> <div> Envirotech Other Facility </div> <div style="text-align: right;"> <input checked="" type="checkbox"/> <input type="checkbox"/> </div> </div> Name: _____ Pit Closure Date: <u>10/11/94</u> Pit Closed By: <u>BEE</u>
REMARKS	Remarks : <u>Excavated pit to 12', Took PID Sample, closed pit.</u> _____ _____
	Signature of Specialist: <u></u>



**FIELD SERVICES LABORATORY
ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 329	946403
MTR CODE SITE NAME:	44242	N/A
SAMPLE DATE TIME (Hrs):	10-11-94	1545
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	10-17-94	10-17-94
DATE OF BTEX EXT. ANAL.:	10-19-94	10-20-94
TYPE DESCRIPTION:	VC	Brown clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.025	MG/KG	1			
TOLUENE	0.051	MG/KG	1			
ETHYL BENZENE	0.043	MG/KG	1			
TOTAL XYLENES	0.41	MG/KG	1			
TOTAL BTEX	0.529	MG/KG				
TPH (418.1)	227	MG/KG			1.96	28
HEADSPACE PID	24	PPM				
PERCENT SOLIDS	81.6	%				

-- 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:

AT 1 Results attached.

DF = Dilution Factor Used

DP

11/3/01


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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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* 94/10/17 11:06

* Sample identification
946403

* Initial mass of sample, g
1.960

* Volume of sample after extraction, ml
28.000

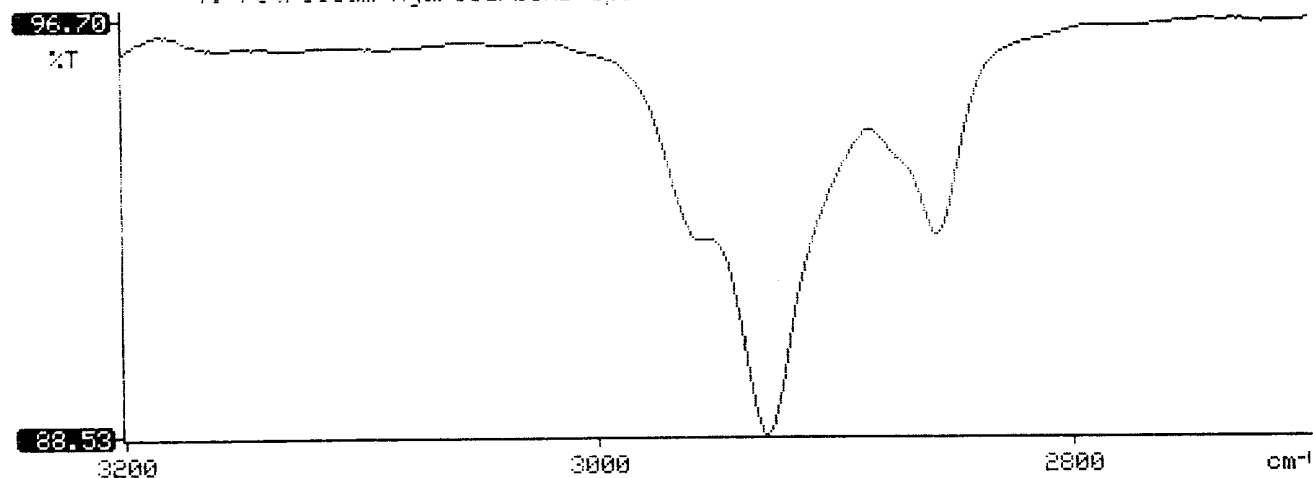
* Petroleum hydrocarbons, ppm
226.781

* Net absorbance of hydrocarbons (2930 cm⁻¹)
0.037

*
*
*

Y: Petroleum hydrocarbons spectrum

11:07





Analytical **Technologies, Inc.**

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

ATI I.D. 410405

October 26, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 10/18/94, 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

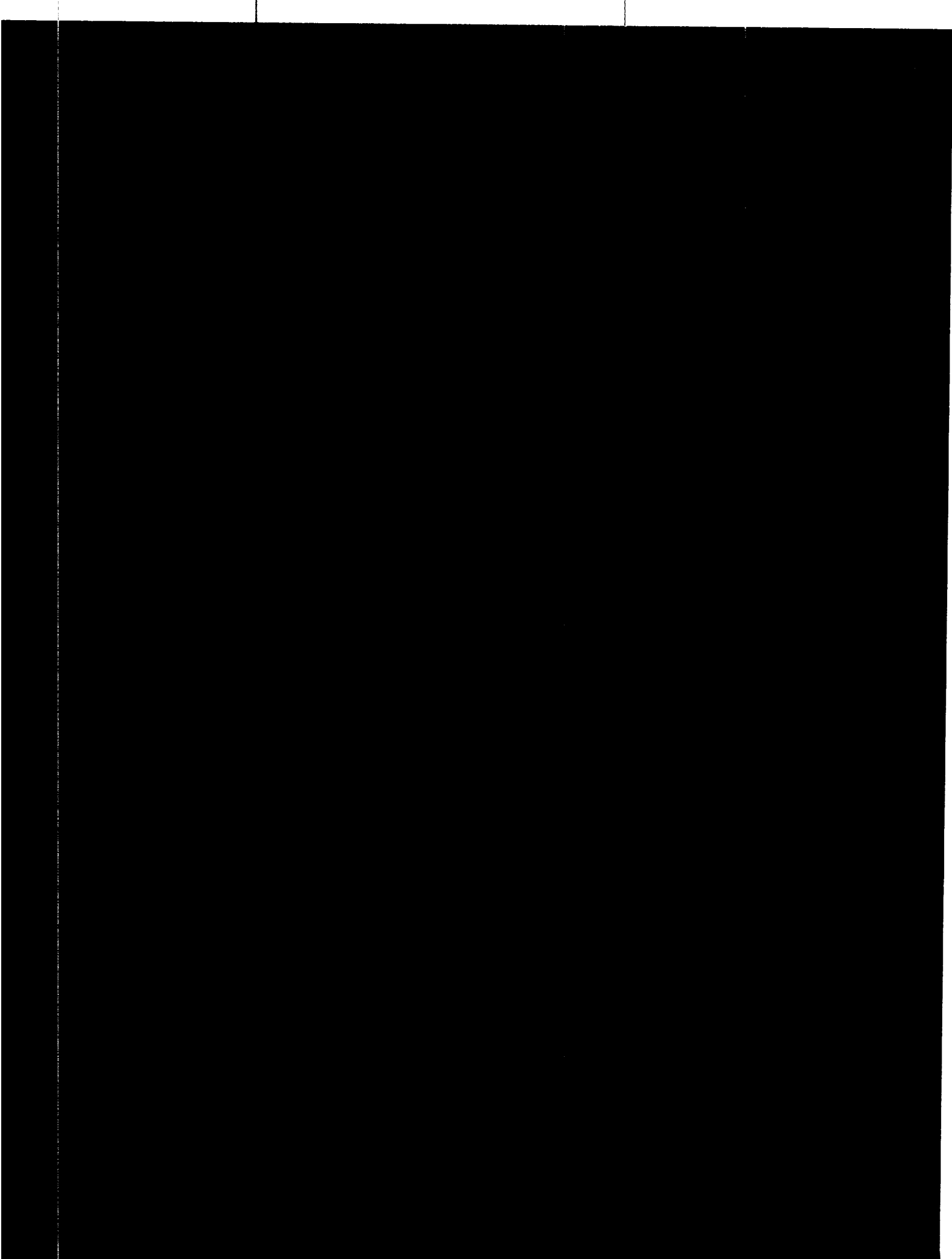


GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
 CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 410405
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	946401	NON-AQ	10/11/94	10/19/94	10/23/94	20
11	946402	NON-AQ	10/11/94	10/19/94	10/23/94	20
12	946403	NON-AQ	10/11/94	10/19/94	10/20/94	1
PARAMETER			UNITS	10	11	12
BENZENE			MG/KG	<0.5	<0.5	<0.025
TOLUENE			MG/KG	7.4	32	0.051
ETHYLBENZENE			MG/KG	1.1	<0.5	0.043
TOTAL XYLENES			MG/KG	4.1	6.3	0.41

SURROGATE:
 BROMOFLUOROBENZENE (%) 66 82 99



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 1

Project Name EPNG PITS
Project Number 14509 Phase 6000 / 77
Project Location Linderoth Unit B#25 44242

Elevation _____
Borehole Location _____
GWL Depth _____
Logged By CM CHANCE
Drilled By M. DONOHUE K. Padilla
Date/Time Started 6/1/95 - 0800
Date/Time Completed 6/1/95 - 0920

Well Logged By CM Chance
Personnel On-Site K. Padilla, E. Rivera
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			Drilling Conditions & Blow Counts
							Units: PPM	S	HS	
0				Backfill to 12'						
5										
10										
15	1	15-17	12"	Br sandy CLAY, vF sand, med stiff med plastic			0	0	1	0825
20				TOB 17'						
25										
30										
35										
40										

Comments: 15-17' sample submitted to lab CMC29 (BTEX, TPH)

Geologist Signature _____



Phase II

Landsith unit B#25

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 29	94/6860
MTR CODE SITE NAME:	44242	N/A
SAMPLE DATE TIME (Hrs):	6-1-95	0835
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	6-2-95	6-2-95
DATE OF BTEX EXT. ANAL.:	6-5-95	6-7-95
TYPE DESCRIPTION:	VG	Brown clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	10.025	MG/KG	1			
TOLUENE	10.025	MG/KG	1			
ETHYL BENZENE	10.025	MG/KG	1			
TOTAL XYLENES	10.025	MG/KG	1			
TOTAL BTEX	50.10	MG/KG				
TPH (418.1)	<10	MG/KG			2.07	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	82.1	%				

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

The Surrogate Recovery was at 89 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results attached

DF = Dilution Factor Used

Date:

6/28/95


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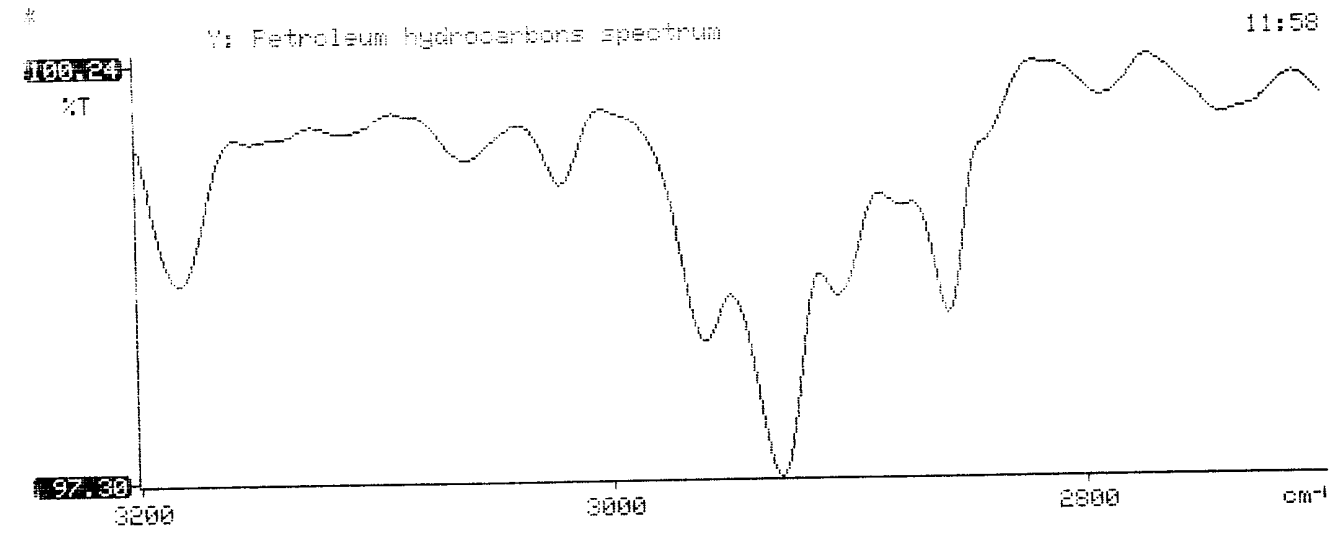
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*                               *
*   Test Method for             *
*   Oil and Grease and Petroleum Hydrocarbons *
*   in Water and Soil          *
*                               *
*   Perkin-Elmer Model 1600 FT-IR *
*   Analysis Report         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

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*
95/06/02  11:58
*
*   Sample identification
946860
*
*   Initial mass of sample, g
2.070
*
*   Volume of sample after extraction, ml
28.000
*
*   Petroleum hydrocarbons, ppm
6.214
*   Net absorbance of hydrocarbons (2930 cm-1)
0.011
*

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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. **506317**

June 9, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

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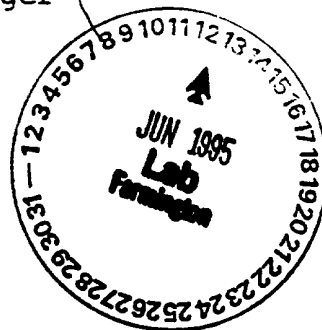
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Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager





Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS ATI I.D.: 506317
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	946860	NON-AQ	06/01/95	06/05/95	06/07/95	1
11	946861	NON-AQ	06/01/95	06/05/95	06/07/95	1
12	946862	NON-AQ	06/01/95	06/05/95	06/07/95	1
PARAMETER			UNITS	10	11	12
BENZENE			MG/KG	<0.025	<0.025	<0.025
TOLUENE			MG/KG	<0.025	<0.025	<0.025
ETHYLBENZENE			MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES			MG/KG	<0.025	<0.025	<0.025

SURROGATE:

BROMOFLUOROBENZENE (%)	89	97	92
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