

Denny E. Foust
DEPUTY EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE
DEC 2 1998

FEDERAL GAS COM E#1
Meter/Line ID - 73859

RECEIVED
IV JUL 2 1998

SITE DETAILS

Legals - Twn: 30 Rng: 12 Sec: 30
NMOCD Hazard Ranking: 20
Operator: AMOCO PRODUCTION COMPANY

Unit: L
Land Type: 4 - Fee

OIL CON. DIV.
DIST. 8

Pit Closure Date: 05/04/94

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:

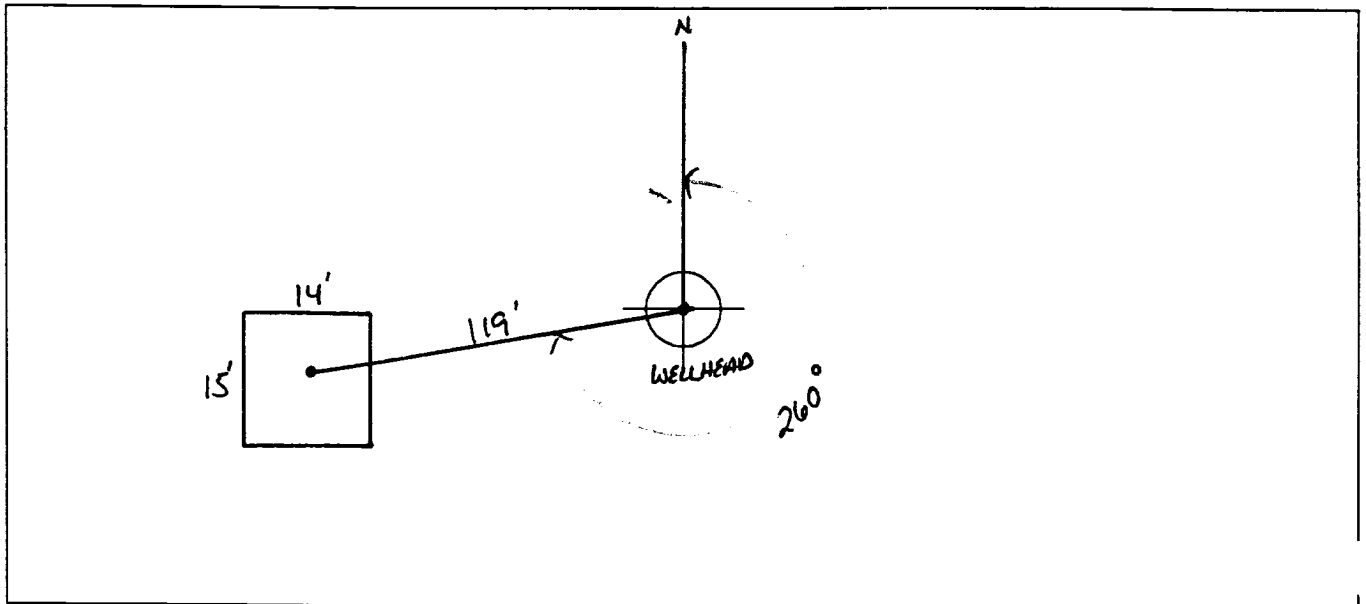
- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All 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>73859</u> Location: <u>FEDERAL GAS COM E #1</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>KUTZ</u></p> <p>Coordinates: Letter: <u>L</u> Section: <u>30</u> Township: <u>30</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>3-22-94</u> Run: <u>02</u> <u>22</u></p>	
	<p>NMOCD Zone: Inside <input type="checkbox"/> Land Type: BLM <input type="checkbox"/> (From NMOCD Vulnerable <input type="checkbox"/> Maps) Zone <input checked="" type="checkbox"/> State <input type="checkbox"/> Outside <input type="checkbox"/> Fee <input checked="" type="checkbox"/> Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> 50 Ft to 99 Ft (10 points) <input type="checkbox"/> 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"/> 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> 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>TWO PITS ON LOCATION. WILL CLOSE ONLY ONE.</u> <u>LOCATION IS FENCED AND SURROUNDED BY HOUSING. PIT IS DRY.</u></p>	

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 260° Footage to Wellhead 119'
 b) Degrees from North _____ Footage to Dogleg _____
 Dogleg Name _____
 c) Length : 15' Width : 14' Depth : 3'



REMARKS :

STARTED TAKING PICTURES AT 1:42 P.M.
END DUMP

Completed By:

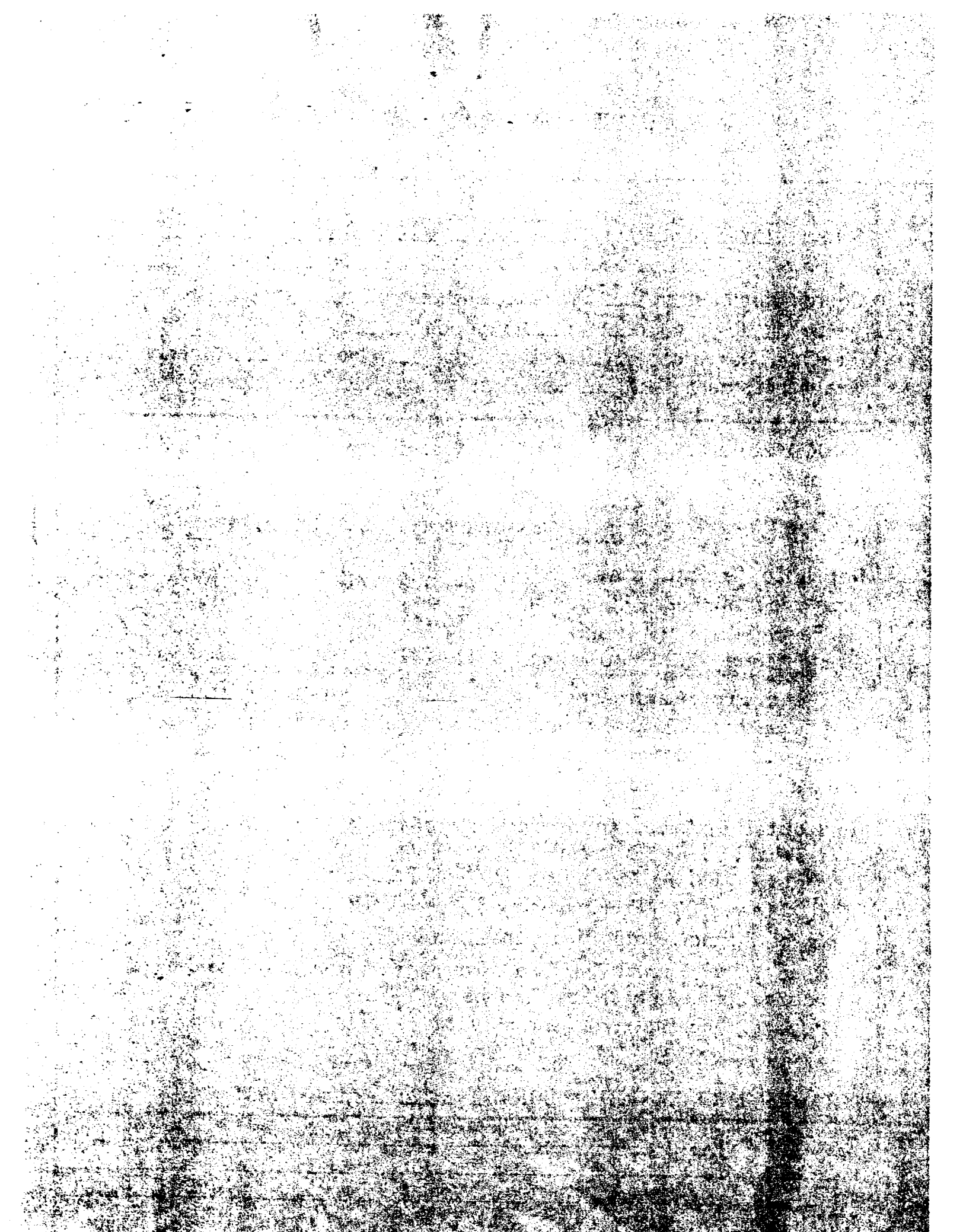
Robert Thompson
 Signature

3.22.94
 Date

4.22.95
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>73859</u> Location: <u>FEDERAL GAS Com E #1</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: _____ Section: _____ Township: _____ Range: _____ Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: _____ Area: <u>02</u> Run: <u>22</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps) Inside <input type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input 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 type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>HOOD ARROYO</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>20</u> POINTS</p>
REMARKS	<p>Remarks _____</p>



PHASE I EXCAVATION

FIELD 'T REMEDIATION/CLOSURE' FORM

GENERAL	<p>Meter: <u>73859</u> Location: <u>Federal Gas Com E #1</u></p> <p>Coordinates: Letter: <u>L</u> Section <u>30</u> Township: <u>30</u> Range: <u>12</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>5-4-94</u> Area: <u>02</u> Run: <u>22</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): ⁹⁴⁵⁰⁷¹ <u>K P 17</u></p> <p>Sample Depth: <u>3'</u> Feet</p> <p>Final PID Reading <u>147</u> PID Reading Depth <u>3'</u> Feet</p> <p>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>10</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>5-4-94</u> Pit Closed By: <u>B.E.I.</u></p>
REMARKS	<p>Remarks : <u>No LINE markers Pit's got some dark soil in it</u></p> <p><u>Started Remediating 12', Hit SAND stone 3' TOOK ABOUT 4 yds</u></p> <p><u>off END DUMP to CAP Pit. used on other LOCATION.</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:

MTR CODE SITE NAME:

SAMPLE DATE TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. ANAL.:

DATE OF BTEX EXT. ANAL.:

TYPE DESCRIPTION:

KL17	945071
73859	N/A
5/4/94	1010
N/A	
5/5/94	5/5/94
5/9/94	5/13/94
VC	Brown Very Coarse Sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	17	MG/KG	50			
TOLUENE	280	MG/KG	50			
ETHYL BENZENE	35	MG/KG	50			
TOTAL XYLENES	370	MG/KG	50			
TOTAL BTEX	702	MG/KG				
TPH (418.1) 4220	4222 4220 ^{du} 5/14/94	MG/KG			2.20	28
HEADSPACE PID	147	PPM				
PERCENT SOLIDS	88.0	%				

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

The Surrogate Recovery was at 113 % for this sample All QA/QC was acceptable.

Narrative:

ATZ results attached.

DF = Dilution Factor Used

Approved By:

John Lard

Date:

7/14/94


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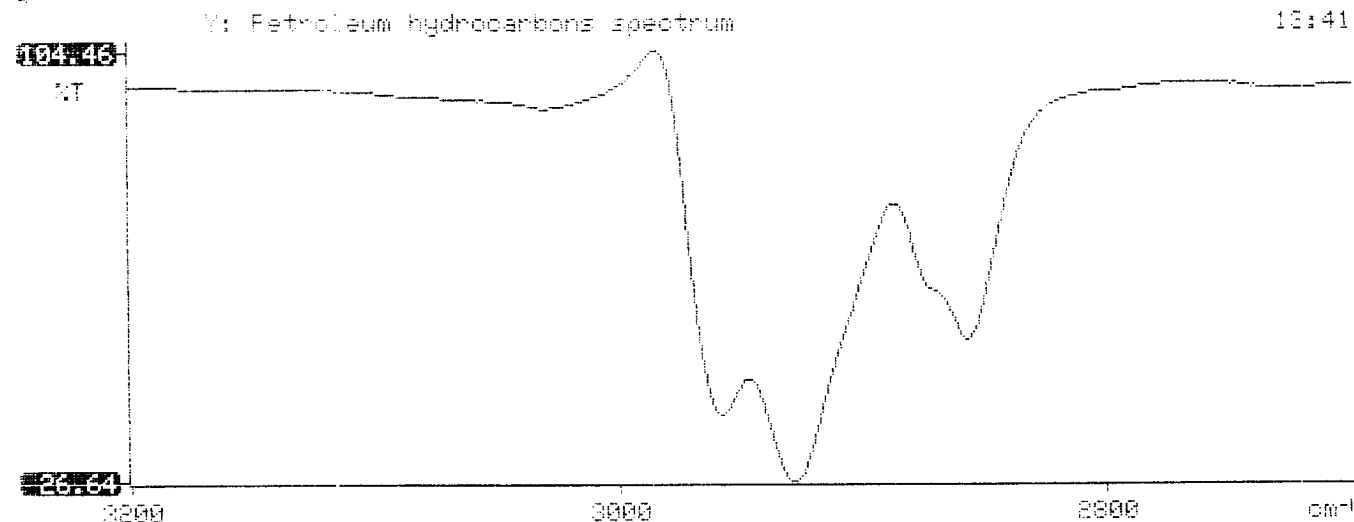
*****
Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil
*****
Perkin-Elmer Model 1600 FT-IR
Analysis Report
*****

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74/03/03 13:41
Sample Identification
61071 945071 hu5 5/6/94
Initial mass of sample, g
2.200
Volume of sample after extraction, ml
28.000
Petroleum hydrocarbons, ppm
4222.032
Net absorbance of hydrocarbons (2930 cm-1)
0.566

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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. 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
20	945069	NON-AQ	05/04/94	05/09/94	05/13/94	100
21	945070	NON-AQ	05/04/94	05/09/94	05/13/94	1
22	945071	NON-AQ	05/04/94	05/09/94	05/13/94	50
PARAMETER			UNITS	20	21	22
BENZENE			MG/KG	18	<0.025	17
TOLUENE			MG/KG	270	<0.025	280
ETHYLBENZENE			MG/KG	37	0.11	35
TOTAL XYLENES			MG/KG	540	1.0	370

SURROGATE:
 BROMOFLUOROBENZENE (%) NA* 74 113

*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 323-2388

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

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location Federal Gas Corp. E#1 7385

Elevation _____
Borehole Location T30, R12, S30, L
GWL Depth _____
Logged By Jeff W. Kindley
Drilled By S. Swisher
Date/Time Started 09/25/95 1130
Date/Time Completed 09/25/95 1309

Well Logged By Jeff W. Kindley
Personnel On-Site D. Roberts, S. Swisher, D. Cho
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	S	
0				Backfill material to 12'						
10	1	10-12	1.4 2.0	SW, BR SAND, COARSE- GRAINED, dense, hydrous carbon clay, dry						68/72 1147 39 blows per foot
15	2	15-17	1.4 2.0	S.A.A						1153 59 blows per foot
20	3	20-22	1.7 2.0	SW, GR SAND, coarse-grained, dry, dense, hydrous carbon clay						1200 61 blows per foot
25	4	25-27	1.5 2.0	S.A.A						1208 60 blows per foot
30	5	30-32	1.4 2.0	S.A.A Boring terminated at 32'						1235 71 blows per foot
35										
40										

Comments:

Boring grouted. Sample collected from 30-32 feet (TWK 84)
Sample analyzed for BTEX, TPH

Geologist Signature

Jeff W. Kindley



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK84	947542
MTR CODE SITE NAME:	73859	Federal Gas Com E#1
SAMPLE DATE TIME (Hrs):	09-26-95	1235
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-27-95	
DATE OF BTEX EXT. ANAL.:	9/27/95	9/27/95
TYPE DESCRIPTION:	VG	Brown Sand & Clay

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)	21.2 17	MG/KG			1.96	28
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	93.4	%				

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

The Surrogate Recovery was at 98% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

Date:

9-29-95

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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                   *
*                                     *
*****

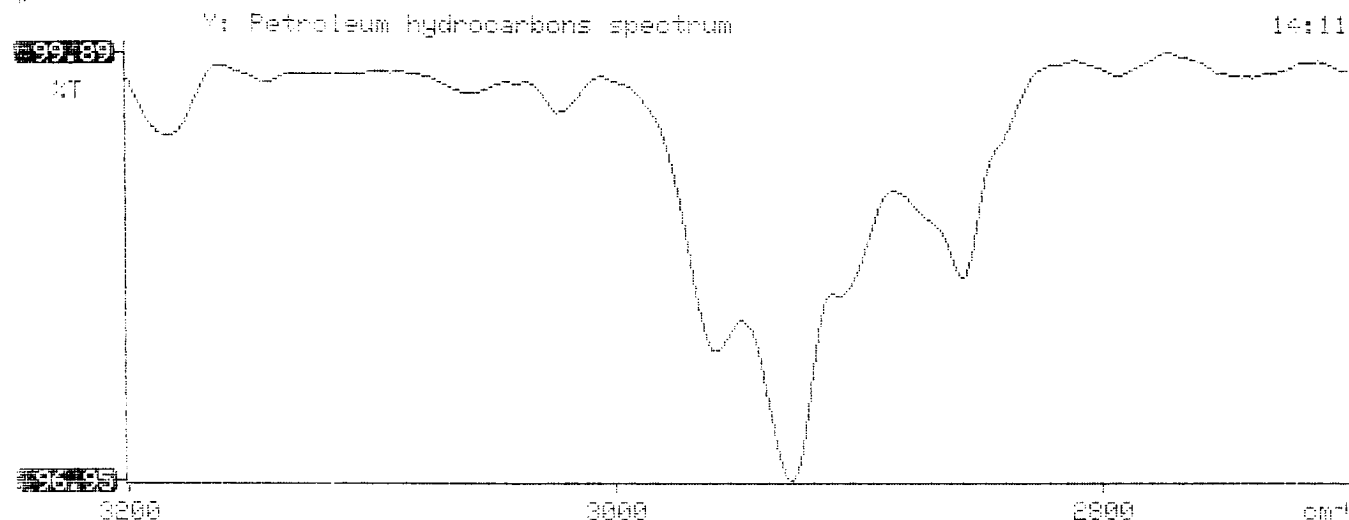
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95/09/27 14:11

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*
* Sample identification
* 947542
*
* Initial mass of sample, g
* 1.960
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 16.663
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.012
*
*
*

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BTEX SOIL SAMPLE WORKSHEET

File	:	947542	Date Printed	:	9/28/95
Soil Mass (g)	:	5.03	Multiplier (L/g)	:	0.00099
Extraction vol. (mL)	:	10	DF (Analytical)	:	200
Shot Volume (uL)	:	50	DF (Report)	:	0.19881

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.497
Toluene (ug/L)	:	0.63	Toluene (mg/Kg):	0.125 0.497
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.497
p & m-xylene (ug/L)	:	0.71	p & m-xylene (mg/Kg):	0.141 0.994
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.497
			Total xylenes (mg/Kg):	0.141 1.491
			Total BTEX (mg/Kg):	0.266

**EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS**

File : C:\LAEQUEST\CHROM001\092795-1.022
Method : C:\LAEQUEST\METHODS\9001.MET
Sample ID : 947542,5.03G,50U
Acquired : Sep 27, 1995 18:07:37
Printed : Sep 27, 1995 18:34:00
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.917	0	0.0000
a,a,a TFT	6.670	4566487	98.9117
TOLUENE	8.703	176196	0.6344
ETHYLBENZENE	12.710	0	0.0000
M & P XYLENE	13.077	236514	0.7138
O XYLENE	14.208	0	0.0000
BFB	15.753	71145576	98.1465

