

3R - 39

**GENERAL  
CORRESPONDENCE**

**YEAR(S):**  
1998-1998

**BLAGG ENGINEERING INC.**

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

August 27, 1998

Mr. William C. Olson, Hydrologist  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, New Mexico 87505

Re: Notice of Groundwater Impact  
Amoco Production Company - McCoy GC D1  
SE/4 NE/4 Sec. 28 - T30N - R12W, San Juan County, NM

Dear Mr. Olson:

On behalf of Amoco Production Company, Blagg Engineering, Inc. (BEI) has conducted environmental monitoring at the subject location. A release of hydrocarbons to the environment was discovered by a private landowner during preparations for a residential home construction. The site was subsequently investigated and remediated by Amoco using excavation techniques. Following site reclamation groundwater monitoring points were installed to document residual water quality.

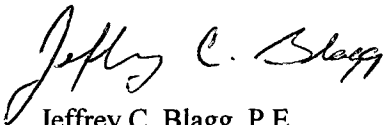
Please note that the original source of contamination is speculative. No known earthen pits or other releases have been identified in the areas that were remediated. However, contaminated media has been removed from the site and transported to Amoco's Crouch Mesa landfarm/compost facility. This site will be placed on Amoco's scheduled groundwater monitoring program to quantify water quality.

Attached, please find site diagrams indicating the areas remediated, contaminated soil thickness, area of engineered backfill (to accommodate the private landowner), groundwater gradient and groundwater quality. Also attached are laboratory water quality reports.

If you have questions or need additional information, please contact myself at (505)632-1199.

Respectfully:

**Blagg Engineering, Inc.**



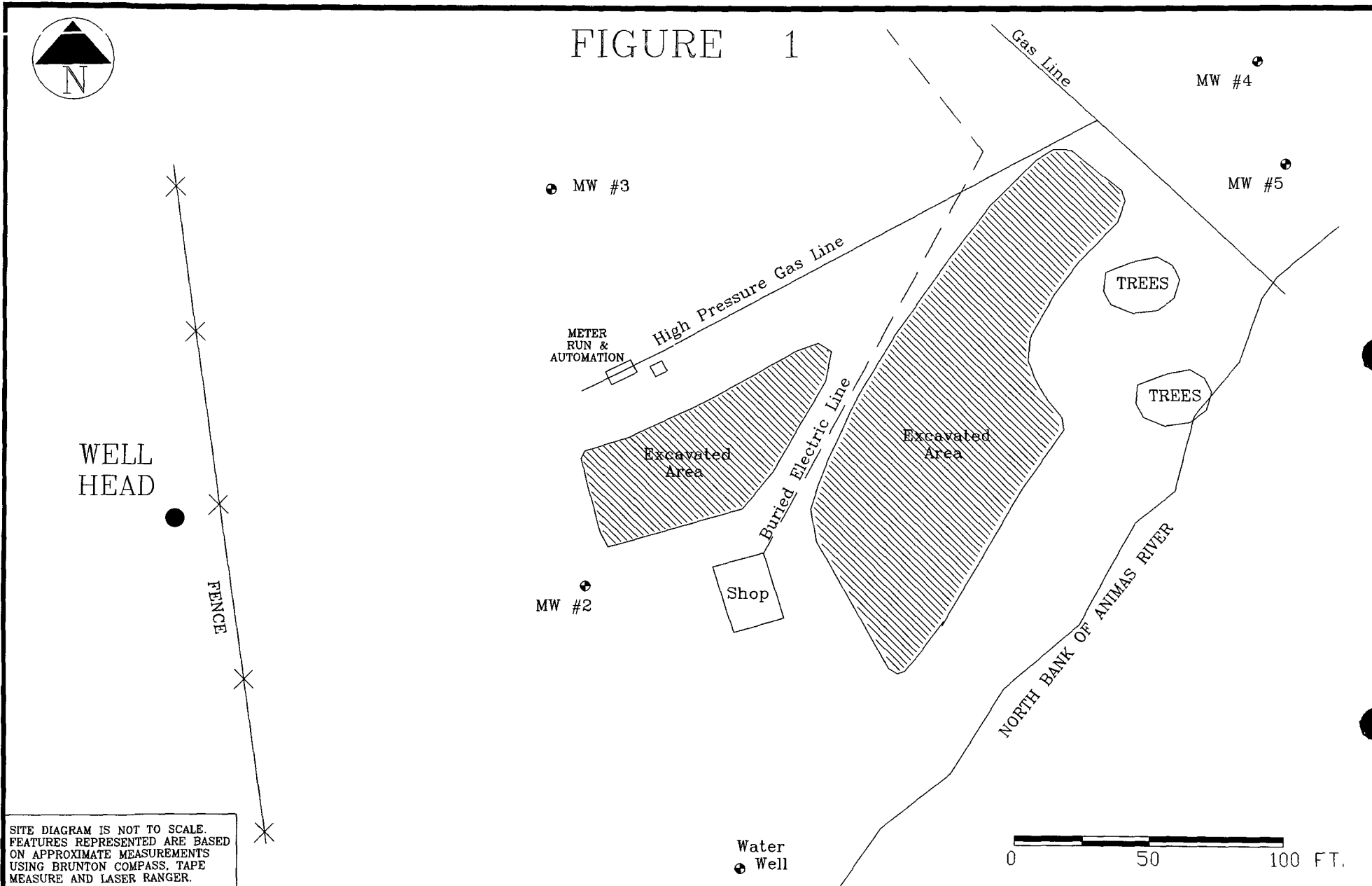
Jeffrey C. Blagg, P.E.  
President

Attachments: Site Diagrams  
Lab Reports

cc: B.D.Shaw - Amoco SJ Op Center  
Denny Foust - NMOCD Aztec

File: GWrelease.wpd

# FIGURE 1



AMOCO PRODUCTION COMPANY

McCOY GC D # 1

SE/4 NE/4 SEC.285, T30N, R12W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: SITE REMED.

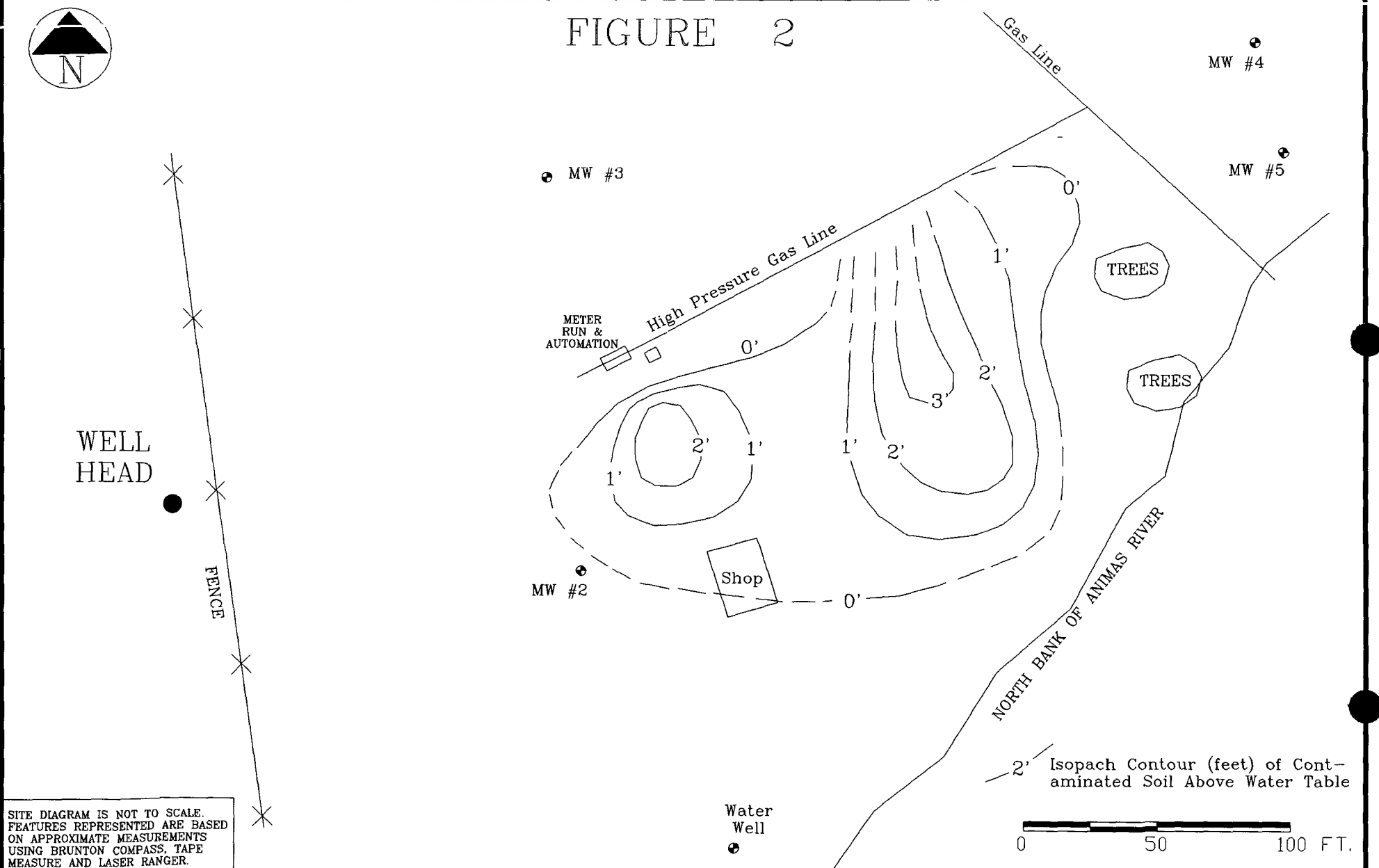
DRAWN BY: JCB

FILENAME: McCOY8

SITE  
DIAGRAM

6/98

# FIGURE 2



SITE DIAGRAM IS NOT TO SCALE.  
FEATURES REPRESENTED ARE BASED  
ON APPROXIMATE MEASUREMENTS  
USING BRUNTON COMPASS, TAPE  
MEASURE AND LASER RANGER.

AMOCO PRODUCTION COMPANY

McCOY GC D # 1

SE/4 NE/4 SEC.285, T30N, R12W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: SITE REMED.

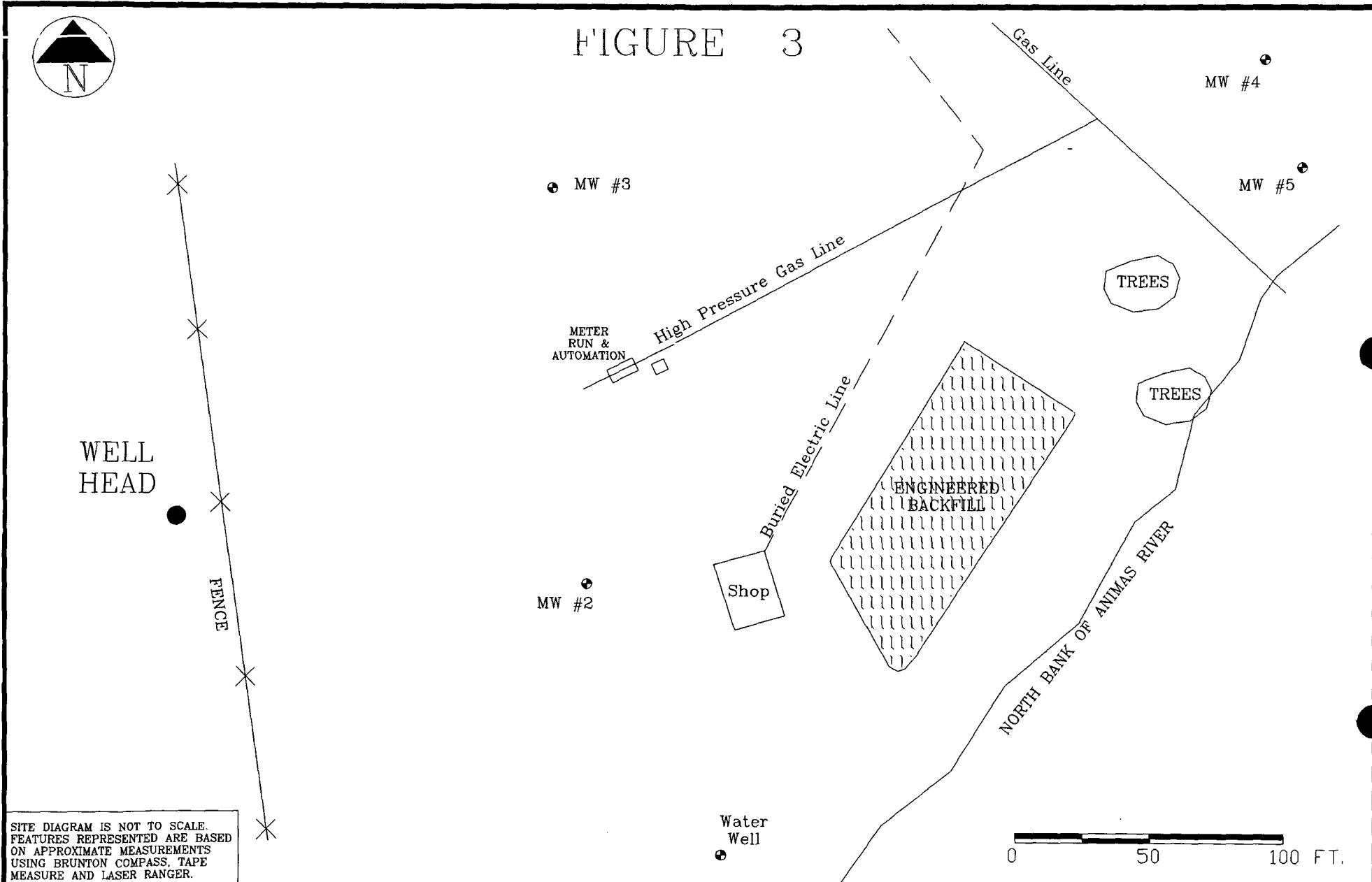
DRAWN BY: JCB

FILENAME: MCCOY9

CONTAMINATED  
SOIL ISOPACH

6/98

# FIGURE 3



SITE DIAGRAM IS NOT TO SCALE.  
FEATURES REPRESENTED ARE BASED  
ON APPROXIMATE MEASUREMENTS  
USING BRUNTON COMPASS, TAPE  
MEASURE AND LASER RANGER.

AMOCO PRODUCTION COMPANY

McCOY GC D # 1

SE/4 NE/4 SEC.285, T30N, R12W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: SITE REMED.

DRAWN BY: JCB

FILENAME: MCCOY10

ENGINEERED  
BACKFILL

6/98

FIGURE 4



WELL  
HEAD

FENCE

MW #3  
(97.41)

MW #2  
(96.88)

Water  
Well  
(96.70)

98.0  
MW #4  
(97.98)

MW #5  
(97.91)

TREES

TREES

GROUNDWATER FLOW  
DIRECTION

97.0

Shop

NORTH BANK OF ANIMAS RIVER

97.0

GW Gradient Line

0 50 100 FT.

SITE DIAGRAM IS NOT TO SCALE.  
FEATURES REPRESENTED ARE BASED  
ON APPROXIMATE MEASUREMENTS  
USING BRUNTON COMPASS, TAPE  
MEASURE AND LASER RANGER.

AMOCO PRODUCTION COMPANY

McCOY GC D # 1

SE/4 NE/4 SEC.285, T30N, R12W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: SITE REMED.

DRAWN BY: JCB

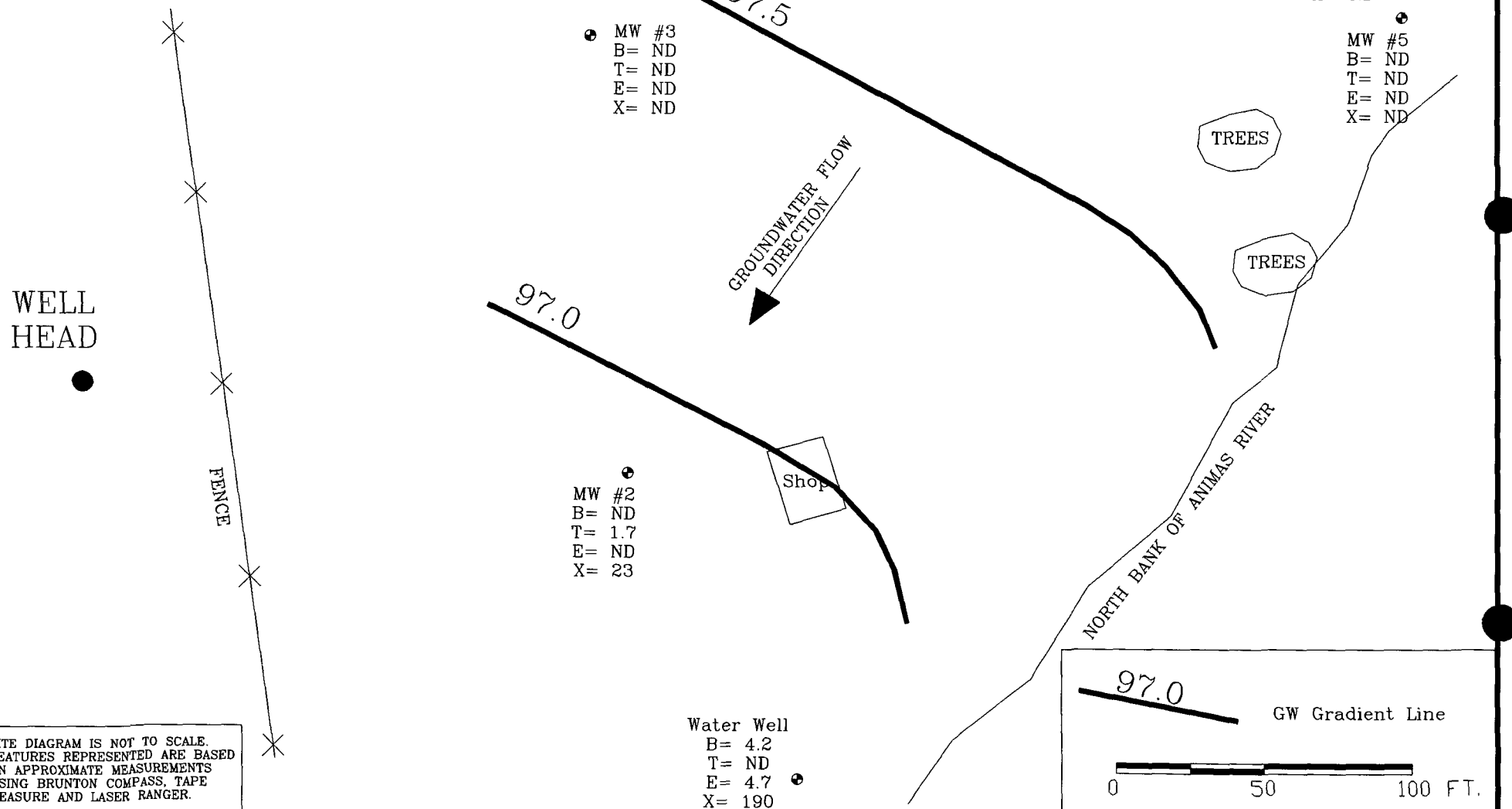
FILENAME: McCOY12

GROUNDWATER  
GRADIENT

7/98



FIGURE 5



SITE DIAGRAM IS NOT TO SCALE.  
FEATURES REPRESENTED ARE BASED  
ON APPROXIMATE MEASUREMENTS  
USING BRUNTON COMPASS, TAPE  
MEASURE AND LASER RANGER.

AMOCO PRODUCTION COMPANY

McCOY GC D # 1

SE/4 NE/4 SEC.285, T30N, R12W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: SITE REMED.

DRAWN BY: JCB

FILENAME: McCOY13

GROUNDWATER

BTEX  
QUALITY

7/98



Certificate of Analysis No. 9807073-05

## FARMINGTON LABORATORY

807 S. CARLTON  
FARMINGTON, NM 87499-1289  
(505) 326-2588Blagg Engineering, Inc.  
PO Box 87  
Bloomfield, NM 87413  
Attn: Jeff Blagg

Date: 07/28/98

Project: McCoy GC D#1  
Site: Farmington  
Sampled By: J. Blagg  
Sample ID: Water WellProject No:  
Matrix: Water  
Date Sampled: 07/15/98  
Date Received: 07/15/98

## Analytical Data

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Benzene	4.2	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	4.7	1.0	µg/L
Total Xylene	190	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	198.9		µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	123
4-Bromofluorobenzene	130

Method 8020A\*\*\*  
Analyzed by: TB  
Date: 07/18/98

ND-Not Detected

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

  
Danica Carman, Lab Director





Certificate of Analysis No. 9807073-01

## FARMINGTON LABORATORY

807 S. CARLTON  
FARMINGTON, NM 87499-1289  
(505) 326-2588Blagg Engineering, Inc.  
PO Box 87  
Bloomfield, NM 87413  
Attn: Jeff Blagg

Date: 07/28/98

Project: McCoy GC D#1  
Site: Farmington  
Sampled By: J. Blagg  
Sample ID: MW #2Project No:  
Matrix: Water  
Date Sampled: 07/15/98  
Date Received: 07/15/98

## Analytical Data

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Benzene	ND	1.0	µg/L
Toluene	1.7	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	23.0	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	24.7		µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	100

Method 8020A\*\*\*  
Analyzed by: TB  
Date: 07/18/98

ND-Not Detected

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

  
Danica Carman, Lab Director



Certificate of Analysis No. 9807073-02

**FARMINGTON LABORATORY**

807 S. CARLTON  
FARMINGTON, NM 87499-1289  
(505) 326-2588

Blagg Engineering, Inc.  
PO Box 87  
Bloomfield, NM 87413  
Attn: Jeff Blagg

Date: 07/28/98

Project: McCoy GC D#1  
Site: Farmington  
Sampled By: J. Blagg  
Sample ID: MW #3

Project No:  
Matrix: Water  
Date Sampled: 07/15/98  
Date Received: 07/15/98

**Analytical Data**

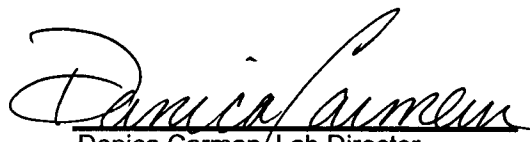
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

<b>Surrogate</b>	<b>% Recovery</b>
1,4-Difluorobenzene	97
4-Bromofluorobenzene	97

Method 8020A\*\*\*  
Analyzed by: TB  
Date: 07/18/98

ND-Not Detected

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

  
Danica Carman / Lab Director



Certificate of Analysis No. 9807073-03

## FARMINGTON LABORATORY

807 S. CARLTON  
FARMINGTON, NM 87499-1289  
(505) 326-2588Blagg Engineering, Inc.  
PO Box 87  
Bloomfield, NM 87413  
Attn: Jeff Blagg

Date: 07/28/98

Project: McCoy GC D#1  
Site: Farmington  
Sampled By: J. Blagg  
Sample ID: MW #4Project No:  
Matrix: Water  
Date Sampled: 07/15/98  
Date Received: 07/15/98

## Analytical Data

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Benzene	ND	5.0	µg/L
Toluene	ND	5.0	µg/L
Ethylbenzene	ND	5.0	µg/L
Total Xylene	ND	5.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	100

Method 8020A\*\*\*  
Analyzed by: TB  
Date: 07/18/98

ND-Not Detected

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

  
Danica Carman, Lab Director



Certificate of Analysis No. 9807073-04

## FARMINGTON LABORATORY

807 S. CARLTON  
FARMINGTON, NM 87499-1289  
(505) 326-2588Blagg Engineering, Inc.  
PO Box 87  
Bloomfield, NM 87413  
Attn: Jeff Blagg

Date: 07/28/98

Project: McCoy GC D#1  
Site: Farmington  
Sampled By: J. Blagg  
Sample ID: MW #5Project No:  
Matrix: Water  
Date Sampled: 07/15/98  
Date Received: 07/15/98

## Analytical Data

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	97
4-Bromofluorobenzene	97

Method 8020A\*\*\*  
Analyzed by: TB  
Date: 07/18/98

ND-Not Detected

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

  
Danica Carman, Lab Director





Lake Luther Estate  
Groundwater Contamination  
1998 Spring





Lake Luther Estate

Groundwater Contamination

Spring 1998



Lake Lotter Estates

May 27, 1998

Groundwater Contamination



Lake Luther Estates

May 27 1998

Groundwater Contamination



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Lake Luther Estates

May 27 1998

Groundwater Contamination









Lake Luther Estates

Groundwater Contamination

May 27 1998



Lake Lothar Estate

May 27, 1958



Luke Luther Estate

May 27, 1998



Lake Luther Estate

May, 27 1998







Lake Luther Estate

May<sup>27</sup>, 1998



Lake Luther Estate  
May 27, 1898



Lake Lotter Estates

May 27, 1998



Lake Luther Estates

May 27, ~~200~~ 1998





Lake Luther Estate  
May 27, 1958



Lake Luther Estates

May 27, 1998



Lake Luther Estate

May 27, 1998



Lake Luther Estate

May 27, 1998





Lake Luther Estate

May 27, 1998



Lake Luther Estate

May 27, 1998



1  
Lake Butler Estate

May 1958



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**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 1:** Contaminated soil from backhoe pit northeast of garage  
Future home site position.







---

**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 1:** Contaminated soil from backhoe pit northeast of garage  
Future home site position.



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**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 2:** Contaminated soil and ground water approximately 6 feet bgs.  
backhoe pit north of garage  
between garage and Well in Unit H of Section 28, T 30 N, R 12 W.



---

Location: Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

Date: April 22, 1998

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**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 3 :** Contaminated soil from backhoe pits from north of garage looking East (up river)  
Future home site position near OCD trucks and people.





---

Location: Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

Date: April 22, 1998

Time : 8:00 Am

OCD Personnel: Roger Anderson, Denny Foust, Martyne Kieling

Picture 3 : Contaminated soil from backhoe pits from north of garage looking East (up river)  
Future home site position near OCD trucks and people.



---

**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 4 :** Contaminated soil from backhoe pits looking southwest  
Future home site position near OCD trucks.  
Yellow poles mark buried pipe lines.



---

**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 4 :** Contaminated soil from backhoe pits looking southwest  
Future home site position near OCD trucks.  
Yellow poles mark buried pipe lines.



---

Location: Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

Date: April 22, 1998

Time : 8:00 Am

OCD Personnel: Roger Anderson, Denny Foust, Martyne Kielling

Picture 5 : Contaminated soil from backhoe pit furthest East and nearest the River  
Future home site position.







---

Location: Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

Date: April 22, 1998

Time : 8:00 Am

OCD Personnel: Roger Anderson, Denny Foust, Martyne Kieling

Picture 5 : Contaminated soil from backhoe pit furthest East and nearest the River  
Future home site position.



---

**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 6:** Contaminated soil from backhoe pit furthest East and nearest the River  
Pits to the West along river bank show visual contamination.



---

**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 6:** Contaminated soil from backhoe pit furthest East and nearest the River  
Pits to the West along river bank show visual contamination.



---

Location: Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

Date: April 22, 1998

Time : 8:00 Am

OCD Personnel: Roger Anderson, Denny Foust, Martyne Kieling

Picture 7 : Yellow pipe line markers and Well in Unit H of Section 28, T 30 N, R 12 W.  
North of future home site.







---

Location: Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

Date: April 22, 1998

Time : 8:00 Am

OCD Personnel: Roger Anderson, Denny Foust, Martyne Kieling

Picture 7 : Yellow pipe line markers and Well in Unit H of Section 28, T 30 N, R 12 W.  
North of future home site.



---

**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 8 :** Looking north; Yellow pipe line markers;  
And old Beeline Refinery (tanks on hill side through the trees right center of photo)



**Location:** Lake Luther Estates  
New Home Site North bank of Animas River  
South of Old Beeline Refinery

**Date:** April 22, 1998

**Time :** 8:00 Am

**OCD Personnel:** Roger Anderson, Denny Foust, Martyne Kieling

**Picture 8 :** Looking north; Yellow pipe line markers;  
And old Beeline Refinery (tanks on hill side through the trees right center of photo)



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
AZTEC NM 87410  
(505) 334-6178 FAX: (505) 334-6170  
[http://nemnr.state.nm.us/ocd/District III/District.htm](http://nemnr.state.nm.us/ocd/District%20III/District.htm)

GARY E. JOHNSON  
GOVERNOR

Jennifer A. Salisbury  
CABINET SECRETARY

Certified Receipt #P 471 215 210

April 14, 1998

Ms Nina Hutton  
Cross Timbers Operating Company  
810 Houston St Ste 2000  
Fort Worth, TX 76102-6298

RE: Hydrocarbon Contamination Associated with McCoy Gas Com D #1, H-28-30N-12W, 30-045-09218

Dear Ms. Hutton:

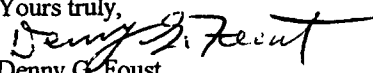
During tests for installation of a septic tank by the landowner Gaylon Fox and New Mexico Environmental Department Representative, Tom Welt, hydrocarbon contamination was discovered at approximately 6 foot depth. This contamination is apparently associated with surface installations for production of the McCoy Gas Com D #1.

Initial sampling was done by Jeff Blagg of Blagg Engineering on February 20, 1998. Mr. Blagg was representing Amoco. The sample confirmed hydrocarbon contamination. On March 10, 1998, Nelson Velez of Blagg Engineering, representing Amoco, dug a series of test holes and installed some temporary sampling points to gather information on the location of soil contamination, groundwater impacts and establish a tentative groundwater gradient. These results confirmed both soil contamination and groundwater impacts. The contamination may be related to either production or transportation activities.

I met with Buddy Shaw of Amoco (former operator) and Sandra Miller of El Paso Field Services (transporter) on April 13, 1998. Both parties have agreed to cooperatively and aggressively address this contamination before May 1, 1998, barring obstacles with landowner permission or locating utility lines.

This letter is addressed to Cross Timbers as the operator of record an ultimately responsible party. Cross Timbers may want to access the information available to date. NMOCD is working closely with Amoco and EPFS to resolve this problem. Should enforcement issues arise Cross Timbers will be responsible for compliance with any violations directed toward the operator.

Please feel free to contact me at 505-334-6178 ext 15 if you have questions.

Yours truly,  
  
Denny G. Foust  
Environmental Geologist

XC: Environmental Bureau - Santa Fe  
Gary Markestad - Cross Timbers  
Sandra Miller - EPFS  
Buddy Shaw - Amoco  
DGF File  
Environmental File



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
AZTEC NM 87410  
(505) 334-6178 FAX: (505) 334-6170  
[http://nemrd.state.nm.us/ocd/District IU3/district.htm](http://nemrd.state.nm.us/ocd/District%20IU3/district.htm)

GARY E. JOHNSON  
GOVERNOR

Jennifer A. Salisbury  
CABINET SECRETARY

Certified Receipt #P 471 215 210

April 14, 1998

Ms Nina Hutton  
Cross Timbers Operating Company  
810 Houston St Ste 2000  
Fort Worth, TX 76102-6298

Post-It™ brand fax transmittal memo 7671		# of pages > 1
To	Bill Olson	From
Co.	NMOCD	Co.
Dept.		Phone #
Fax #		Fax #
		334-6178 Ext 15
		334-6170

RE: Hydrocarbon Contamination Associated with McCoy Gas Com D #1, H-28-30N-12W, 30-045-09218

Dear Ms. Hutton:

During tests for installation of a septic tank by the landowner Gaylon Fox and New Mexico Environmental Department Representative, Tom Welt, hydrocarbon contamination was discovered at approximately 6 foot depth. This contamination is apparently associated with surface installations for production of the McCoy Gas Com D #1.

Initial sampling was done by Jeff Blagg of Blagg Engineering on February 20, 1998. Mr. Blagg was representing Amoco. The sample confirmed hydrocarbon contamination. On March 10, 1998, Nelson Velez of Blagg Engineering, representing Amoco, dug a series of test holes and installed some temporary sampling points to gather information on the location of soil contamination, groundwater impacts and establish a tentative groundwater gradient. These results confirmed both soil contamination and groundwater impacts. The contamination may be related to either production or transportation activities.

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Please feel free to contact me at 505-334-6178 ext 15 if you have questions.

Yours truly,

*Denny G. Foust*  
Denny G. Foust  
Environmental Geologist

XC: Environmental Bureau - Santa Fe  
Gary Markestad - Cross Timbers  
Sandra Miller - EPFS  
Buddy Shaw - Amoco  
~~Environmental File~~  
Environmental File