

3R - 369

**GENERAL
CORRESPONDENCE**

YEAR(S):

2000

MERRION

Oil & Gas

November 13, 2000

Denny Foust
NMOCD
1000 Rio Brazos
Aztec, NM 87410



RE: U-Da-Well No. 1, Addendum to C-141 Report

2-31W-08V

ART 30-045-29906

Dear Mr. Foust

Enclosed please find laboratory analyses for soil samples collected by Carl Merilatt and I near the U-Da-Well on October 10, 2000. We did not observe any soil staining or salts on the surface of the ground. The samples were tested for BTEX, Gasoline Range Organics and Diesel Range Organics. All samples showed a non-detect level for all constituents in question.

The attached map shows the sample collection locations. The first sample, labeled Drainage No. 1 was collected directly downstream of the release about 30 yards from the edge of location. The sample labeled Drainage No. 2 was collected about 200 yards downslope from the location just before a larger wash joins the drainage from the location. There were some black flecks on the soil indicating that the water from the location had traveled to this point. The control sample was taken in the wash about a quarter of a mile downstream. There was no sign that any water from the location had traveled to this point.

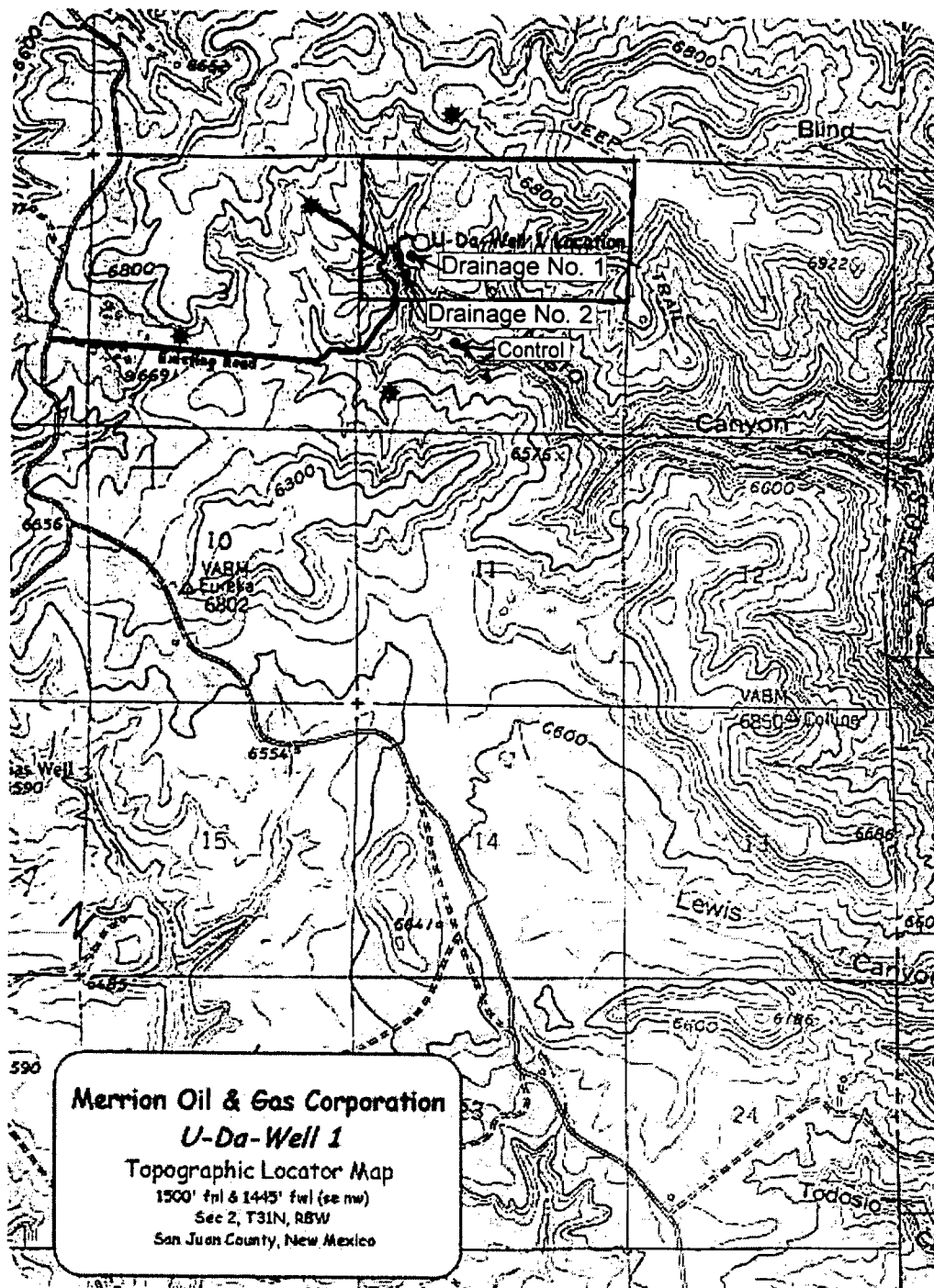
If you need further information, please call me at 327-9801 ext. 126.

Sincerely

Connie Dinning
Engineer

NDGF0026242496

9/18/2000





MERRION OIL & GAS

On October 10, 2000, three soil samples were submitted to Inter-Mountain Laboratories Farmington for analysis. The samples were received intact. Total Petroleum Hydrocarbons as Diesel Range Organics (8015AZ DRO) and Gasoline Range Organics (8015AZ GRO) and BTEX (8021B) were performed on the samples as per the accompanying Chain of Custody form. The samples were analyzed within the required holding times.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analyses of the samples reported herein are found in: DRO – USEPA: "Test Method for the Determination of Diesel Range Organics", Revision 2, February 1992. GRO – USEPA: "Test Method for the Determination of Gasoline Range Organics", Revision 5, February 1992. BTEX analysis were performed by EPA Method 5030, Purge and Trap and EPA Method 8021B, Aromatic Volatile Hydrocarbons, using a Tekmar ALS 2016 and a Hewlett Packard 5890 Gas Chromatograph, equipped with a photoionization detector.

If there any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,

Sharon Williams
Organic Analyst/IML-Farmington



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Merrlon Oil & Gas
Project: U-DA-Well #1
Sample ID: Control
Lab ID: 0300W04431
Matrix: Soil
Condition: Intact

Date Reported: 11/08/00
Date Sampled: 10/10/00
Date Received: 10/10/00

| Parameter | Analytical Result | PQL | Units |
|---------------------|-------------------|-----|-------|
| BTEX - 8021B | | | |
| Benzene | <1 | 1 | ug/Kg |
| Toluene | <1 | 1 | ug/Kg |
| Ethylbenzene | <1 | 1 | ug/Kg |
| Xylenes (total) | <3 | 3 | ug/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|----|-----------|
| a,a,a-Trifluorotoluene(SUR-8021B) | 76 | 70 - 130 |
| 4-Bromofluorobenzene(SUR-8021B) | 77 | 70 - 130 |

Reference: Method 8021, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB, December 1987.

Reviewed By: 

William Lipps



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Merrion Oil & Gas
Project: U-DA-Well #1
Sample ID: Control
Lab ID: 0300W04431
Matrix: Soil
Condition: Intact

Date Reported: 11/08/00
Date Sampled: 10/10/00
Date Received: 10/10/00

| Parameter | Analytical Result | PQL | Units |
|-----------------------------------|-------------------|-----|-------|
| DRO - Method 8015AZ | | | |
| Diesel Range Organics (C10 - C22) | <20 | 20 | mg/Kg |
| Diesel Range Organics as Diesel | <20 | 20 | mg/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|----|-----------|
| o-Terphenyl(SUR-8015) | 74 | 70 - 130 |

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By: 

William Lipps



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2506 West Main Street, Farmington, NM 87401

Client: Merrion Oil & Gas

Project: U-DA-Well #1

Sample ID: Control

Lab ID: 0300W04431

Matrix: Soil

Condition: Intact

Date Reported: 11/08/00

Date Sampled: 10/10/00

Date Received: 10/10/00

| Parameter | Analytical Result | PQL | Units |
|---|-------------------|------------------|-------|
| GRO - Method 8015AZ | | | |
| Gasoline Range Organics(C6-C10) | <5 | 5 | mg/Kg |
| Gasoline Range Organics as Gasoline | <5 | 5 | mg/Kg |
| Quality Control - Surrogate Recovery | | | |
| | % | QC Limits | |
| 4-Bromofluorobenzene(SUR-8015B) | 77 | 70 - 130 | |

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

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2506 West Main Street, Farmington, NM 87401

Client: Merrion Oil & Gas
Project: U-DA-Well #1
Sample ID: Drainage #1
Lab ID: 0300W04432
Matrix: Soil
Condition: Intact

Date Reported: 11/08/00

Date Sampled: 10/10/00

Date Received: 10/10/00

| Parameter | Analytical Result | PQL | Units |
|---------------------|-------------------|-----|-------|
| BTEX - 8021B | | | |
| Benzene | <1 | 1 | ug/Kg |
| Toluene | <1 | 1 | ug/Kg |
| Ethylbenzene | <1 | 1 | ug/Kg |
| Xylenes (total) | <3 | 3 | ug/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|-----|-----------|
| a,a,a-Trifluorotoluene(SUR-8021B) | 103 | 70 - 130 |
| 4-Bromofluorobenzene(SUR-8021B) | 83 | 70 - 130 |

Reference: Method 8021, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB, December 1987.

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2506 West Main Street, Farmington, NM 87401

Client: Merrion Oil & Gas
Project: U-DA-Well #1
Sample ID: Drainage #1
Lab ID: 0300W04432
Matrix: Soil
Condition: Intact

Date Reported: 11/08/00
Date Sampled: 10/10/00
Date Received: 10/10/00

| Parameter | Analytical Result | PQL | Units |
|-----------------------------------|-------------------|-----|-------|
| DRO - Method 8015AZ | | | |
| Diesel Range Organics (C10 - C22) | <20 | 20 | mg/Kg |
| Diesel Range Organics as Diesel | <20 | 20 | mg/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|----|-----------|
| o-Terphenyl(SUR-8015) | 77 | 70 - 130 |

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

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Project: U-DA-Well #1
Sample ID: Drainage #1
Lab ID: 0300W04432
Matrix: Soil
Condition: Intact

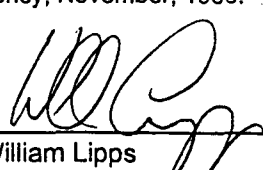
Date Reported: 11/08/00
Date Sampled: 10/10/00
Date Received: 10/10/00

| Parameter | Analytical Result | PQL | Units |
|-------------------------------------|-------------------|-----|-------|
| GRO - Method 8015AZ | | | |
| Gasoline Range Organics(C6-C10) | <5 | 5 | mg/Kg |
| Gasoline Range Organics as Gasoline | <5 | 5 | mg/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|----|-----------|
| 4-Bromofluorobenzene(SUR-8015B) | 82 | 70 - 130 |

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:


William Lipps



Client: Merrion Oil & Gas
Project: U-DA-Well #1
Sample ID: Drainage #2
Lab ID: 0300W04433
Matrix: Soil
Condition: Intact

Date Reported: 11/08/00

Date Sampled: 10/10/00

Date Received: 10/10/00

| Parameter | Analytical Result | PQL | Units |
|---------------------|-------------------|-----|-------|
| BTEX - 8021B | | | |
| Benzene | <1 | 1 | ug/Kg |
| Toluene | <1 | 1 | ug/Kg |
| Ethylbenzene | <1 | 1 | ug/Kg |
| Xylenes (total) | <3 | 3 | ug/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|-----|-----------|
| a,a,a-Trifluorotoluene(SUR-8021B) | 125 | 70 - 130 |
| 4-Bromofluorobenzene(SUR-8021B) | 96 | 70 - 130 |

Reference: Method 8021, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB, December 1987.

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2506 West Main Street, Farmington, NM 87401

Client: Merrion Oil & Gas
Project: U-DA-Well #1
Sample ID: Drainage #2
Lab ID: 0300W04433
Matrix: Soil
Condition: Intact

Date Reported: 11/08/00
Date Sampled: 10/10/00
Date Received: 10/10/00

| Parameter | Analytical Result | PQL | Units |
|-----------------------------------|-------------------|-----|-------|
| DRO - Method 8015AZ | | | |
| Diesel Range Organics (C10 - C22) | <20 | 20 | mg/Kg |
| Diesel Range Organics as Diesel | <20 | 20 | mg/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|----|-----------|
| o-Terphenyl(SUR-8015) | 70 | 70 - 130 |

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986

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2506 West Main Street, Farmington, NM 87401

Client: Merrion Oil & Gas

Project: U-DA-Well #1

Sample ID: Drainage #2

Lab ID: 0300W04433

Matrix: Soil

Condition: Intact

Date Reported: 11/08/00

Date Sampled: 10/10/00

Date Received: 10/10/00

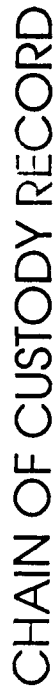
| Parameter | Analytical Result | PQL | Units |
|-------------------------------------|-------------------|-----|-------|
| GRO - Method 8015AZ | | | |
| Gasoline Range Organics(C6-C10) | <5 | 5 | mg/Kg |
| Gasoline Range Organics as Gasoline | <5 | 5 | mg/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|----|-----------|
| 4-Bromofluorobenzene(SUR-8015B) | 96 | 70 - 130 |

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By: 

William Lipps



Merion D. 1

CHAIN OF CUSTODY RECORD

| Client/Project Name | | Project Location | | Analyses / Parameters | |
|---|----------|---|------------|-------------------------------------|-------------------|
| U - DA - WELL | | U - DA - WELL | | | |
| Sampler: (Signature) | | Chain of Custody Tape No. | | Remarks | |
| Sample No./ Identification | Date | Time | Lab Number | Matrix | No. of Containers |
| CONTROL | 10/10/00 | 11:20 | 4431 | SOIL | 1 |
| DRAINAGE 1 | 10/10/00 | 11:35 | 4432 | SOIL | 1 |
| DRAINAGE 2 | 10/10/00 | 11:25 | 4433 | SOIL | 1 |
| <div style="display: flex; justify-content: space-between;"> <div> <p>RELINQUISHED BY: (Signature)</p> <p>RELINQUISHED BY: (Signature)</p> <p>RELINQUISHED BY: (Signature)</p> </div> <div> <p>RECEIVED BY: (Signature)</p> <p>RECEIVED BY: (Signature)</p> <p>RECEIVED BY: (Signature)</p> </div> </div> | | | | | |
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7062