



November 16, 2010

Noble Energy Inc.

Todd Cullum

804 Grand Avenue

Platteville

CO

80651

Project Name- Dillard AB 10-7

Project Number- [none]

Attached are your analytical results for Dillard AB 10-7 received by Origins Laboratory, Inc. November 12, 2010 10:30 am. This project is associated with Origins project number X011082-01 .

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all,

Origins Laboratory, Inc.

303.433.1322

o-squad@oelabinc.com

Page 1 of 10



Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled | Date Received |
|-----------|---------------|--------|-----------------------|------------------|
| SS-2A | X011082-01 | Soil | 11/11/2010 10:20:00AM | 11/12/2010 10:30 |
| SS-4A | X011082-02 | Soil | 11/11/2010 10:35:00AM | 11/12/2010 10:30 |
| SS-7A | X011082-03 | Soil | 11/11/2010 10:50:00AM | 11/12/2010 10:30 |
| SS-12A | X011082-04 | Soil | 11/11/2010 11:20:00AM | 11/12/2010 10:30 |

Origins Laboratory, Inc.



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Noelle E Doyle,

Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

28011082
page 1 of 1



originslaboratory.com

Client: Noble Energy Inc.
Address: 804 Grand Ave.
Platteville CO 80651
Telephone Number: 970-785-5000
E-Mail Address: tcullum@nobleenergyinc.com

Project Manager: Todd Cullum
Project Name: Dillard AB 10-7
Project Number:
Samples Collected by: Todd C.

| Sample ID - Description | Date Sampled | Time Sampled | Preservative | | | | Matrix | | | Analysis | Sample Instructions |
|-------------------------------------|----------------|----------------|---------------------------------|-----|------------------|---------|----------------|------|------------------------|-------------|---------------------------|
| | | | Unpreserved | HCl | HNO ₃ | Other - | Groundwater | Soil | Air - Summa Canister # | | |
| 55-2A | 11-11-10 | 10:20 AM | | | | | X | | | TPH BTEX | 1 |
| 55-4A | 11-11-10 | 10:35 AM | | | | | X | | | | 2 |
| 55-7A | 11-11-10 | 10:50 AM | | | | | X | | | | 3 |
| 55-12A | 11-11-10 | 11:20 AM | | | | | X | | | | 4 |
| | | | | | | | | | | | 5 |
| | | | | | | | | | | | 6 |
| | | | | | | | | | | | 7 |
| | | | | | | | | | | | 8 |
| | | | | | | | | | | | 9 |
| | | | | | | | | | | | 10 |
| Relinquished by: <i>Todd Cullum</i> | Date: 11-12-10 | Time: 10:30 AM | Received by: <i>[Signature]</i> | | | | Date: 11-12-10 | | | Time: 1030 | Temperature Upon Receipt: |
| Relinquished by: | Date: | Time: | Received by: | | | | Date: | | | Time: | Turn Around Time: |
| | | | | | | | | | | | Same Day |
| | | | | | | | | | | | 48-hr |
| | | | | | | | | | | | 72-hr |
| | | | | | | | | | | | Standard |

4640 North Pecos Street | Unit C | Denver, Colorado 80211 | Laboratory - 303.433.1322 | Fax - 303.265.9645

Origins Laboratory, Inc.

Noelle E Doyle

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Noelle E Doyle,

Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

SS-2A

11/11/2010 10:20:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.
X011082-01 (Soil)

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|----|---------|-------|---|---------|------------|------------|--|
| Benzene | ND | 0.00400 | mg/kg | 1 | OK15002 | 11/15/2010 | 11/15/2010 | |
| Toluene | ND | 0.00400 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00400 | " | " | " | " | " | |
| m,p-Xylene | ND | 0.00800 | " | " | " | " | " | |
| o-Xylene | ND | 0.00400 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 114 % | 77.6-134 | | | " | " | " | |
| Surrogate: Toluene-d8 | 99.7 % | 81.4-121 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 94.5 % | 74.7-123 | | | " | " | " | |

TPH-Carbon Chain by EPA Method 8015M

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | OK15003 | 11/15/2010 | 11/15/2010 | |
| Diesel (C10-C28) | ND | 50.0 | " | " | " | " | " | |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " | |
| TPH - Carbon Chain Total | ND | 50.0 | " | " | " | " | " | |

| | | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 97.5 % | 65-140 | | | " | " | " | |
|------------------------|--------|--------|--|--|---|---|---|--|

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Noelle E Doyle,

Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

SS-4A

11/11/2010 10:35:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.
X011082-02 (Soil)

BTEX by EPA 8260B

| | | | | | | | |
|--------------|----|---------|-------|---|---------|------------|------------|
| Benzene | ND | 0.00400 | mg/kg | 1 | OK15002 | 11/15/2010 | 11/15/2010 |
| Toluene | ND | 0.00400 | " | " | " | " | " |
| Ethylbenzene | ND | 0.00400 | " | " | " | " | " |
| m,p-Xylene | ND | 0.00800 | " | " | " | " | " |
| o-Xylene | ND | 0.00400 | " | " | " | " | " |

| | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 113 % | 77.6-134 | | | " | " | " |
| Surrogate: Toluene-d8 | 99.1 % | 81.4-121 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 95.1 % | 74.7-123 | | | " | " | " |

TPH-Carbon Chain by EPA Method 8015M

| | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | OK15003 | 11/15/2010 | 11/15/2010 |
| Diesel (C10-C28) | ND | 50.0 | " | " | " | " | " |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " |
| TPH - Carbon Chain Total | ND | 50.0 | " | " | " | " | " |

| | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 92.8 % | 65-140 | | | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|

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Noelle E Doyle,

Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

SS-7A

11/11/2010 10:50:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.
X011082-03 (Soil)

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|----|---------|-------|---|---------|------------|------------|--|
| Benzene | ND | 0.00400 | mg/kg | 1 | OK15002 | 11/15/2010 | 11/15/2010 | |
| Toluene | ND | 0.00400 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00400 | " | " | " | " | " | |
| m,p-Xylene | ND | 0.00800 | " | " | " | " | " | |
| o-Xylene | ND | 0.00400 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 115 % | 77.6-134 | | | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 81.4-121 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 95.2 % | 74.7-123 | | | " | " | " | |

TPH-Carbon Chain by EPA Method 8015M

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | OK15003 | 11/15/2010 | 11/15/2010 | |
| Diesel (C10-C28) | ND | 50.0 | " | " | " | " | " | |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " | |
| TPH - Carbon Chain Total | ND | 50.0 | " | " | " | " | " | |

| | | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 93.5 % | 65-140 | | | " | " | " | |
|------------------------|--------|--------|--|--|---|---|---|--|

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Noelle E Doyle,

Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

SS-12A

11/11/2010 11:20:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.
X011082-04 (Soil)

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|----|---------|-------|---|---------|------------|------------|--|
| Benzene | ND | 0.00400 | mg/kg | 1 | OK15002 | 11/15/2010 | 11/15/2010 | |
| Toluene | ND | 0.00400 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00400 | " | " | " | " | " | |
| m,p-Xylene | ND | 0.00800 | " | " | " | " | " | |
| o-Xylene | ND | 0.00400 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 114 % | 77.6-134 | | | " | " | " | |
| Surrogate: Toluene-d8 | 100 % | 81.4-121 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 96.3 % | 74.7-123 | | | " | " | " | |

TPH-Carbon Chain by EPA Method 8015M

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | OK15003 | 11/15/2010 | 11/15/2010 | |
| Diesel (C10-C28) | ND | 50.0 | " | " | " | " | " | |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " | |
| TPH - Carbon Chain Total | ND | 50.0 | " | " | " | " | " | |

| | | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 94.8 % | 65-140 | | | " | " | " | |
|------------------------|--------|--------|--|--|---|---|---|--|

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Noelle E Doyle,

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804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|-------------|-----------------|----------|-------------|---|---|---------------|------|-----------|-------|
| Batch OK15003 - Default Prep GC-Semi | | | | | | | | | | |
| Blank (OK15003-BLK1) | | | | | Prepared: 11/15/2010 Analyzed: 11/15/2010 | | | | | |
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | | | | | | | |
| Diesel (C10-C28) | ND | 50.0 | " | | | | | | | |
| Residual Range Organics (C28-C36) | ND | 200 | " | | | | | | | |
| TPH - Carbon Chain Total | ND | 50.0 | " | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | <i>46.8</i> | | <i>g</i> | <i>50.0</i> | | <i>93.6</i> | <i>65-140</i> | | | |
| LCS (OK15003-BSI) | | | | | Prepared: 11/15/2010 Analyzed: 11/15/2010 | | | | | |
| Gasoline (C6-C10) | 59.2 | 50.0 | mg/kg | | | | 65-140 | | | |
| Diesel (C10-C28) | 423 | 50.0 | " | 500 | | 84.6 | 60-140 | | | |
| <i>Surrogate: o-Terphenyl</i> | <i>48.9</i> | | <i>g</i> | <i>50.0</i> | | <i>97.8</i> | <i>65-140</i> | | | |
| Matrix Spike (OK15003-MS1) | | | | | Source: X011082-01 | Prepared: 11/15/2010 Analyzed: 11/15/2010 | | | | |
| Gasoline (C6-C10) | 64.2 | 50.0 | mg/kg | | ND | | 65-130 | | | |
| Diesel (C10-C28) | 465 | 50.0 | " | 500 | ND | 93.0 | 60-140 | | | |
| <i>Surrogate: o-Terphenyl</i> | <i>49.8</i> | | <i>g</i> | <i>50.0</i> | | <i>99.6</i> | <i>65-140</i> | | | |
| Matrix Spike Dup (OK15003-MSD1) | | | | | Source: X011082-01 | Prepared: 11/15/2010 Analyzed: 11/15/2010 | | | | |
| Gasoline (C6-C10) | 66.4 | 50.0 | mg/kg | | ND | | 65-130 | 3.42 | 20 | |
| Diesel (C10-C28) | 486 | 50.0 | " | 500 | ND | 97.2 | 60-140 | 4.41 | 25 | |
| <i>Surrogate: o-Terphenyl</i> | <i>51.4</i> | | <i>g</i> | <i>50.0</i> | | <i>103</i> | <i>65-140</i> | | | |

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Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

Volatile Organic Compounds by EPA Method 8260B - Quality Control Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch OK15002 - EPA 5030B

Blank (OK15002-BLK1)

Prepared: 11/15/2010 Analyzed: 11/15/2010

| | | | |
|--------------|----|-------|-------|
| Benzene | ND | 0.004 | mg/kg |
| Toluene | ND | 0.004 | " |
| Ethylbenzene | ND | 0.004 | " |
| m,p-Xylene | ND | 0.008 | " |
| o-Xylene | ND | 0.004 | " |

| | | | | | |
|----------------------------------|------|------|------|------|----------|
| Surrogate: 1,2-Dichloroethane-d4 | 66.9 | ug/L | 62.5 | 107 | 77.6-134 |
| Surrogate: Toluene-d8 | 62.4 | " | 62.5 | 99.9 | 81.4-121 |
| Surrogate: 4-Bromofluorobenzene | 59.1 | " | 62.5 | 94.6 | 74.7-123 |

LCS (OK15002-BSI)

Prepared: 11/15/2010 Analyzed: 11/15/2010

| | | | | | | |
|---------|------|-------|-------|-------|-----|----------|
| Benzene | 0.21 | 0.004 | mg/kg | 0.200 | 104 | 75.2-128 |
| Toluene | 0.22 | 0.004 | " | 0.200 | 110 | 76.3-130 |

| | | | | | |
|----------------------------------|------|------|------|------|----------|
| Surrogate: 1,2-Dichloroethane-d4 | 64.8 | ug/L | 62.5 | 104 | 77.6-134 |
| Surrogate: Toluene-d8 | 61.4 | " | 62.5 | 98.3 | 81.4-121 |
| Surrogate: 4-Bromofluorobenzene | 58.9 | " | 62.5 | 94.2 | 74.7-123 |

Matrix Spike (OK15002-MSI)

Source: X011079-01

Prepared: 11/15/2010 Analyzed: 11/15/2010

| | | | | | | | |
|---------|------|-------|-------|-------|----|-----|----------|
| Benzene | 0.21 | 0.004 | mg/kg | 0.200 | ND | 104 | 77.6-132 |
| Toluene | 0.21 | 0.004 | " | 0.200 | ND | 107 | 74-136 |

| | | | | | |
|----------------------------------|------|------|------|------|----------|
| Surrogate: 1,2-Dichloroethane-d4 | 66.4 | ug/L | 62.5 | 106 | 77.6-134 |
| Surrogate: Toluene-d8 | 62.0 | " | 62.5 | 99.2 | 81.4-121 |
| Surrogate: 4-Bromofluorobenzene | 57.3 | " | 62.5 | 91.7 | 74.7-123 |

Matrix Spike Dup (OK15002-MSD1)

Source: X011079-01

Prepared: 11/15/2010 Analyzed: 11/15/2010

| | | | | | | | | | |
|---------|------|-------|-------|-------|----|-----|----------|-------|------|
| Benzene | 0.21 | 0.004 | mg/kg | 0.200 | ND | 103 | 77.6-132 | 0.737 | 13.1 |
| Toluene | 0.21 | 0.004 | " | 0.200 | ND | 106 | 74-136 | 0.904 | 20.9 |

| | | | | | |
|----------------------------------|------|------|------|------|----------|
| Surrogate: 1,2-Dichloroethane-d4 | 66.8 | ug/L | 62.5 | 107 | 77.6-134 |
| Surrogate: Toluene-d8 | 61.3 | " | 62.5 | 98.1 | 81.4-121 |
| Surrogate: 4-Bromofluorobenzene | 57.6 | " | 62.5 | 92.2 | 74.7-123 |

Origins Laboratory, Inc.



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Noelle E Doyle,

Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Todd Cullum
Project Number: [none]
Project: Dillard AB 10-7

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

Origins Laboratory, Inc.



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