

2RP-1158



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 11, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: BOYD X STATE COM #12 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/07/12 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

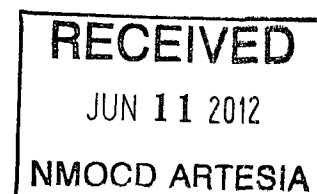
This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Hope S. Moreno". The signature is written in a cursive, flowing style.

Hope Moreno

Inorganic Technical Director





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/07/2012
Reported: 06/11/2012
Project Name: BOYD X STATE COM #12 BATTERY
Project Number: 30-015-28738
Project Location: EDDY COUNTY, NM

Sampling Date: 06/06/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 2' (H201271-01)

| BTX 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 139 | 10.0 | 06/08/2012 | ND | 1.71 | 85.3 | 2.00 | 4.32 | |
| Toluene* | 345 | 10.0 | 06/08/2012 | ND | 1.71 | 85.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 192 | 10.0 | 06/08/2012 | ND | 1.74 | 86.8 | 2.00 | 3.06 | |
| Total Xylenes* | 207 | 30.0 | 06/08/2012 | ND | 5.25 | 87.6 | 6.00 | 2.52 | |

Surrogate 4-Bromofluorobenzene (PIE) 102 % 89.4-126

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8130 | 16.0 | 06/07/2012 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | S-06 |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 13000 | 100 | 06/07/2012 | ND | 187 | 93.3 | 200 | 3.69 | | |
| DRO >C10-C28 | 14700 | 100 | 06/07/2012 | ND | 188 | 93.8 | 200 | 4.29 | | |

Surrogate 1-Chlorooctane 473 % 63.2-140

Surrogate 1-Chlorooctadecane 430 % 63.6-154

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Hope Moreno, Inorganic Technical Director



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Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

| | | | |
|-------------------|------------------------------|---------------------|---------------|
| Received: | 06/07/2012 | Sampling Date: | 06/06/2012 |
| Reported: | 06/11/2012 | Sampling Type: | Soil |
| Project Name: | BOYD X STATE COM #12 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 30-015-28738 | Sample Received By: | Jodi Henson |
| Project Location: | EDDY COUNTY, NM | | |

Sample ID: S1 4' (H201271-02)

| BTEX 8021B | | mg/kg | Analyzed By: ZZZ | | | | | | |
|----------------|--------|-----------------|------------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 128 | 5.00 | 06/08/2012 | ND | 1.71 | 85.3 | 2.00 | 4.32 | |
| Toluene* | 312 | 5.00 | 06/08/2012 | ND | 1.71 | 85.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 170 | 5.00 | 06/08/2012 | ND | 1.74 | 86.8 | 2.00 | 3.06 | |
| Total Xylenes* | 187 | 15.0 | 06/08/2012 | ND | 5.25 | 87.6 | 6.00 | 2.52 | |

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89 4-126

| Chloride, SM4500CI-B | | mg/kg | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9860 | 16.0 | 06/07/2012 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | | S-06 |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 6960 | 50.0 | 06/07/2012 | ND | 187 | 93.3 | 200 | 3.69 | | |
| DRO >C10-C28 | 8110 | 50.0 | 06/07/2012 | ND | 188 | 93.8 | 200 | 4.29 | | |

Surrogate 1-Chlorooctane 155 % 65 2-140

Surrogate: 1-Chlorooctadecane 226 % 63 6-154

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

 Yates Energy Petroleum Corp
 JEREMY HAASS
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 06/07/2012
 Reported: 06/11/2012
 Project Name: BOYD X STATE COM #12 BATTERY
 Project Number: 30-015-28738
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/06/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 6' (H201271-03)

| BTX 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | |
|-----------------------|-------------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 78.6 | 5.00 | 06/08/2012 | ND | 1.71 | 85.3 | 2.00 | 4.32 | |
| Toluene* | 235 | 5.00 | 06/08/2012 | ND | 1.71 | 85.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 147 | 5.00 | 06/08/2012 | ND | 1.74 | 86.8 | 2.00 | 3.06 | |
| Total Xylenes* | 167 | 15.0 | 06/08/2012 | ND | 5.25 | 87.6 | 6.00 | 2.52 | |

Surrogate 4-Bromofluorobenzene (PIL) 117 % 89 4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3160 | 16.0 | 06/07/2012 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | S-06 |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 4260 | 50.0 | 06/07/2012 | ND | 187 | 93.3 | 200 | 3.69 | | |
| DRO >C10-C28 | 5200 | 50.0 | 06/07/2012 | ND | 188 | 93.8 | 200 | 4.29 | | |

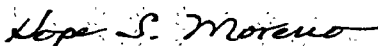
Surrogate 1-Chlorooctane 229 % 65 2-140

Surrogate 1-Chlorooctadecane 146 % 63 6-154

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Hope Moreno, Inorganic Technical Director



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Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/07/2012
Reported: 06/11/2012
Project Name: BOYD X STATE COM #12 BATTERY
Project Number: 30-015-28738
Project Location: EDDY COUNTY, NM

Sampling Date: 06/06/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 8' (H201271-04)

| BTEx 8021B | | mg/kg | | Analyzed By: ZZZ | | | | S-04 | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 55.6 | 2.50 | 06/07/2012 | ND | 1.71 | 85.3 | 2.00 | 4.32 | |
| Toluene* | 225 | 2.50 | 06/07/2012 | ND | 1.71 | 85.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 148 | 2.50 | 06/07/2012 | ND | 1.74 | 86.8 | 2.00 | 3.06 | |
| Total Xylenes* | 176 | 7.50 | 06/07/2012 | ND | 5.25 | 87.6 | 6.00 | 2.52 | |

Surrogate 4-Bromofluorobenzene (PIE) 129 % 89 4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4320 | 16.0 | 06/07/2012 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 3870 | 100 | 06/07/2012 | ND | 187 | 93.3 | 200 | 3.69 | |
| DRO >C10-C28 | 6440 | 100 | 06/07/2012 | ND | 188 | 93.8 | 200 | 4.29 | |

Surrogate 1-Chlorooctane 250 % 65 2-140

Surrogate 1-Chlorooctadecane 195 % 63 6-154

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Hope S. Moreno

Hope Moreno, Inorganic Technical Director



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Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/07/2012
Reported: 06/11/2012
Project Name: BOYD X STATE COM #12 BATTERY
Project Number: 30-015-28738
Project Location: EDDY COUNTY, NM

Sampling Date: 06/06/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 10' (H201271-05)

| BTX 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 108 | 5.00 | 06/08/2012 | ND | 1.71 | 85.3 | 2.00 | 4.32 | |
| Toluene* | 399 | 5.00 | 06/08/2012 | ND | 1.71 | 85.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 259 | 5.00 | 06/08/2012 | ND | 1.74 | 86.8 | 2.00 | 3.06 | |
| Total Xylenes* | 289 | 15.0 | 06/08/2012 | ND | 5.25 | 87.6 | 6.00 | 2.52 | |

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 89.4-126.

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5520 | 16.0 | 06/07/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| | | | | S-06 | | | | | |

Surrogate: 1-Chlorooctane 171 % 65 2-140

Surrogate: 1-Chlorooctadecane 265 % 63 6-154

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

 Yates Energy Petroleum Corp
 JEREMY HAASS
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

| | | | |
|-------------------|------------------------------|---------------------|---------------|
| Received: | 06/07/2012 | Sampling Date: | 06/06/2012 |
| Reported: | 06/11/2012 | Sampling Type: | Soil |
| Project Name: | BOYD X STATE COM #12 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 30-015-28738 | Sample Received By: | Jodi Henson |
| Project Location: | EDDY COUNTY, NM | | |

Sample ID: S1 12' (H201271-06)

| BTEX 8021B | | mg/kg | | Analyzed By: ZZZ | | | | | |
|-----------------------|-------------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 92.2 | 5.00 | 06/08/2012 | ND | 1.71 | 85.3 | 2.00 | 4.32 | |
| Toluene* | 344 | 5.00 | 06/08/2012 | ND | 1.71 | 85.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 217 | 5.00 | 06/08/2012 | ND | 1.74 | 86.8 | 2.00 | 3.06 | |
| Total Xylenes* | 242 | 15.0 | 06/08/2012 | ND | 5.25 | 87.6 | 6.00 | 2.52 | |

Surrogate 4-Bromofluorobenzene (PIE) 116 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3040 | 16.0 | 06/07/2012 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | S-06 |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 5190 | 100 | 06/07/2012 | ND | 187 | 93.3 | 200 | 3.69 | | |
| DRO >C10-C28 | 7260 | 100 | 06/07/2012 | ND | 188 | 93.8 | 200 | 4.29 | | |

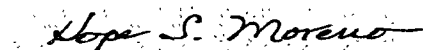
Surrogate 1-Chlorooctane 276 % 65.2-140

Surrogate 1-Chlorooctadecane 213 % 63 6-154

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

Yates Energy Petroleum Corp
 JEREMY HAASS
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

| | | | |
|-------------------|------------------------------|---------------------|---------------|
| Received: | 06/07/2012 | Sampling Date: | 06/06/2012 |
| Reported: | 06/11/2012 | Sampling Type: | Soil |
| Project Name: | BOYD X STATE COM #12 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 30-015-28738 | Sample Received By: | Jodi Henson |
| Project Location: | EDDY COUNTY, NM | | |

Sample ID: S1 14' (H201271-07)

| BTEX 80218 | | mg/kg | | Analyzed By: ZZZ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 45.9 | 5.00 | 06/09/2012 | ND | 1.71 | 85.3 | 2.00 | 4.32 | |
| Toluene* | 224 | 5.00 | 06/09/2012 | ND | 1.71 | 85.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 160 | 5.00 | 06/09/2012 | ND | 1.74 | 86.8 | 2.00 | 3.06 | |
| Total Xylenes* | 185 | 15.0 | 06/09/2012 | ND | 5.25 | 87.6 | 6.00 | 2.52 | |

Surrogate 4-Bromofluorobenzene (PIC) 112 % 89 4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 06/07/2012 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 4870 | 100 | 06/07/2012 | ND | 187 | 93.3 | 200 | 3.69 | |
| DRO >C10-C28 | 8090 | 100 | 06/07/2012 | ND | 188 | 93.8 | 200 | 4.29 | |

Surrogate 1-Chlorooctane 305 % 65.2-140

Surrogate 1-Chlorooctadecane 231 % 63.6-154

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Hope S. Moreno
 Hope Moreno, Inorganic Technical Director

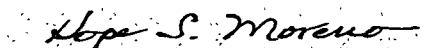
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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| | | | |
|--|---|---|--|
| <small>Failure or success in making out or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small> | | | |
| Relinquished By: <i>[Signature]</i> | Date: <i>6/1</i> Time: <i>10:00 am</i> | Received By: <i>Jodi Benson</i> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: <i>Bush III</i> |
| Relinquished By: _____ | Date: _____ Time: _____ | Received By: _____ | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>1-c</i> | | Sample Condition: Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | CHECKED BY: <i>[Signature]</i> (Initials) |

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326