

April 02, 2015

ZACK THOMAS
MEWBOURNE OIL COMPANY
P. O. BOX 5270
HOBBS, NM 88240

RE: MIRAGE 30 PM STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 03/27/15 15:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 03/27/2015 Sampling Date: 03/27/2015

Reported: 04/02/2015 Sampling Type: Soil

Project Name: MIRAGE 30 PM STATE COM #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: BS 1 (H500833-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.83 | 91.5 | 2.00 | 13.1 | |
| Toluene* | 0.052 | 0.050 | 04/01/2015 | ND | 1.67 | 83.4 | 2.00 | 13.0 | |
| Ethylbenzene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.65 | 82.4 | 2.00 | 13.7 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2015 | ND | 5.04 | 84.0 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 % | 61-154 | ! | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 03/30/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/30/2015 | ND | 201 | 100 | 200 | 2.68 | |
| DRO >C10-C28 | 1130 | 10.0 | 03/30/2015 | ND | 215 | 108 | 200 | 2.04 | |
| Surrogate: 1-Chlorooctane | 108 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 9 | 6 52.1-17 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 03/27/2015 Sampling Date: 03/27/2015

Reported: 04/02/2015 Sampling Type: Soil

Project Name: MIRAGE 30 PM STATE COM #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: BS 2 (H500833-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.83 | 91.5 | 2.00 | 13.1 | |
| Toluene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.67 | 83.4 | 2.00 | 13.0 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.65 | 82.4 | 2.00 | 13.7 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2015 | ND | 5.04 | 84.0 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 % | 61-154 | ! | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 03/30/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/30/2015 | ND | 201 | 100 | 200 | 2.68 | |
| DRO >C10-C28 | 368 | 10.0 | 03/30/2015 | ND | 215 | 108 | 200 | 2.04 | |
| Surrogate: 1-Chlorooctane | 108 % | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 106 % | 6 52.1-17 | 6 | | | | | | |

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MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 03/27/2015 Sampling Date: 03/27/2015

Reported: 04/02/2015 Sampling Type: Soil

Project Name: MIRAGE 30 PM STATE COM #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: me

Project Location: NOT GIVEN

ma/ka

Sample ID: BS 3 (H500833-03)

RTFY 8021R

| BIEX 8051R | mg/ | кд | Anaiyze | a By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.83 | 91.5 | 2.00 | 13.1 | |
| Toluene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.67 | 83.4 | 2.00 | 13.0 | |
| Ethylbenzene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.65 | 82.4 | 2.00 | 13.7 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2015 | ND | 5.04 | 84.0 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 % | 61-154 | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 03/30/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/30/2015 | ND | 201 | 100 | 200 | 2.68 | |
| DRO >C10-C28 | 964 | 10.0 | 03/30/2015 | ND | 215 | 108 | 200 | 2.04 | |
| Surrogate: 1-Chlorooctane | 108 % | 6 47.2-15 | 7 | | | | | | |

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 03/27/2015 Sampling Date: 03/27/2015

Reported: 04/02/2015 Sampling Type: Soil

Project Name: MIRAGE 30 PM STATE COM #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: BS 4 (H500833-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.83 | 91.5 | 2.00 | 13.1 | |
| Toluene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.67 | 83.4 | 2.00 | 13.0 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.65 | 82.4 | 2.00 | 13.7 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2015 | ND | 5.04 | 84.0 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 9 | 61-154 | ! | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 03/30/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/30/2015 | ND | 201 | 100 | 200 | 2.68 | |
| DRO >C10-C28 | 325 | 10.0 | 03/30/2015 | ND | 215 | 108 | 200 | 2.04 | |
| Surrogate: 1-Chlorooctane | 103 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 99.3 | % 52.1-17 | 6 | | | | | | |

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MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 03/27/2015 Sampling Date: 03/27/2015

Reported: 04/02/2015 Sampling Type: Soil

Project Name: MIRAGE 30 PM STATE COM #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: BS 5 (H500833-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.83 | 91.5 | 2.00 | 13.1 | |
| Toluene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.67 | 83.4 | 2.00 | 13.0 | |
| Ethylbenzene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.65 | 82.4 | 2.00 | 13.7 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2015 | ND | 5.04 | 84.0 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 % | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 03/30/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/31/2015 | ND | 195 | 97.6 | 200 | 1.27 | |
| DRO >C10-C28 | 547 | 10.0 | 03/31/2015 | ND | 198 | 99.2 | 200 | 4.70 | |
| Surrogate: 1-Chlorooctane | 102 % | 6 47.2-15 | 7 | | | | | | |

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

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MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 03/27/2015 Sampling Date: 03/27/2015

Reported: 04/02/2015 Sampling Type: Soil

Project Name: MIRAGE 30 PM STATE COM #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: BS 6 (H500833-06)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.100 | 0.100 | 04/01/2015 | ND | 1.83 | 91.5 | 2.00 | 13.1 | |
| Toluene* | 0.144 | 0.100 | 04/01/2015 | ND | 1.67 | 83.4 | 2.00 | 13.0 | |
| Ethylbenzene* | 0.331 | 0.100 | 04/01/2015 | ND | 1.65 | 82.4 | 2.00 | 13.7 | |
| Total Xylenes* | 1.48 | 0.300 | 04/01/2015 | ND | 5.04 | 84.0 | 6.00 | 14.1 | |
| Total BTEX | 1.96 | 0.600 | 04/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 119 9 | % 61-154 | ! | | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 03/30/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 99.9 | 10.0 | 03/31/2015 | ND | 195 | 97.6 | 200 | 1.27 | |
| DRO >C10-C28 | 3120 | 10.0 | 03/31/2015 | ND | 198 | 99.2 | 200 | 4.70 | |
| Surrogate: 1-Chlorooctane | 127 9 | % 47.2-15 | 7 | | | | | | |

Surrogate: 1-Chlorooctadecane 142 % 52.1-176

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Fax To: (575) 937-6252

Received: 03/27/2015 Sampling Date: 03/27/2015

Reported: 04/02/2015 Sampling Type: Soil

Project Name: MIRAGE 30 PM STATE COM #1H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: BS 7 (H500833-07)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.83 | 91.5 | 2.00 | 13.1 | |
| Toluene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.67 | 83.4 | 2.00 | 13.0 | |
| Ethylbenzene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.65 | 82.4 | 2.00 | 13.7 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2015 | ND | 5.04 | 84.0 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 % | 61-154 | ! | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 03/30/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/31/2015 | ND | 195 | 97.6 | 200 | 1.27 | |
| DRO >C10-C28 | 398 | 10.0 | 03/31/2015 | ND | 198 | 99.2 | 200 | 4.70 | |
| Surrogate: 1-Chlorooctane | 92.3 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 106 9 | 6 52.1-17 | 6 | | | | | | |

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MEWBOURNE OIL COMPANY **ZACK THOMAS** P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 03/27/2015 Sampling Date: 03/27/2015

Reported: 04/02/2015 Sampling Type: Soil

Project Name: MIRAGE 30 PM STATE COM #1H Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: BS 8 (H500833-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2015 | ND | 1.83 | 91.5 | 2.00 | 13.1 | |
| Toluene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.67 | 83.4 | 2.00 | 13.0 | |
| Ethylbenzene* | < 0.050 | 0.050 | 04/01/2015 | ND | 1.65 | 82.4 | 2.00 | 13.7 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2015 | ND | 5.04 | 84.0 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 9 | 61-154 | ! | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 03/30/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/31/2015 | ND | 195 | 97.6 | 200 | 1.27 | |
| DRO >C10-C28 | 1090 | 10.0 | 03/31/2015 | ND | 198 | 99.2 | 200 | 4.70 | |
| Surrogate: 1-Chlorooctane | 103 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 % | 6 52.1-17 | 6 | | | | | | |

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Notes and Definitions

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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| Company Maine. MEWBOULNE | | BILL TO | | ANALYSIS REQUEST |
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| Project Manager: MIKE burton | | P.O. #: | | |
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