

Attachment A

Chemical Analysis of Recycled Water

Job Information

| | | | | | |
|---------------------|------------------|-----------------|------------------------|-------------|-------------|
| Request ID | 2006514 | Rig Name | | Date | 12/JUN/2014 |
| Submitted By | Nathan Barnum | Job Type | Fracturing/Stimulation | Well | Ryan Gulch |
| Customer | WPX Energy, Inc. | Location | | | |

Well Information

| | | | | | |
|------------------|---------|------------------|--|------------------------------|--|
| Formation | Unknown | Depth MD | | BHST | |
| Pressure | | Depth TVD | | Cool Down Temperature | |

Results For Request ID 2006514

Water Analysis

| Tank Number/Source | Specific Gravity | pH | Chlorides (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Dissolved Iron (mg/L) | Potassium (mg/L) |
|---------------------------|-------------------------|-----------|-------------------------|-----------------------|-------------------------|------------------------------|-------------------------|
| W262 | 1.008 | 7.48 | 5073 | 230 | 50 | 3.4 | 50 |

| Bicarbonates (mg/L) | Carbonates (mg/L) | Hydroxides (mg/L) | Sulfates (mg/L) | Sodium (mg/L) | TDS (mg/L) | Rw Resistivity (Ohms-Meter) | Temperature (°F) |
|----------------------------|--------------------------|--------------------------|------------------------|----------------------|-------------------|------------------------------------|-------------------------|
| 1520 | 0 | 0 | 0 | 3470 | 10100 | 0.689 | 65 |

Conductivity - 17.81 mS

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Job Information

| | | | | | |
|---------------------|------------------|-----------------|------------------------|-------------|-------------|
| Request ID | 2004477 | Rig Name | | Date | 25/MAR/2014 |
| Submitted By | Nathan Barnum | Job Type | Fracturing/Stimulation | Well | |
| Customer | WPX Energy, Inc. | Location | | | |

Well Information

| | | | | | |
|------------------|---------|------------------|--|------------------------------|--|
| Formation | Unknown | Depth MD | | BHST | |
| Pressure | | Depth TVD | | Cool Down Temperature | |

Results For Request ID 2004477

| Water Analysis | | | | | | |
|-----------------------------|--------|--------|--------|-------|-------|-------|
| Tank Number/Source | W136 | W137 | W138 | W139 | W140 | W141 |
| Specific Gravity | 1.0065 | 1.0095 | 1.0095 | 1.012 | 1.006 | 1.011 |
| pH | 7.54 | 7.59 | 7.76 | 8.12 | 7.92 | 7.59 |
| Chlorides (mg/L) | 4479 | 5250 | 6180 | 8187 | 4206 | 8187 |
| Calcium (mg/L) | 120 | 150 | 380 | 920 | 150 | 690 |
| Magnesium (mg/L) | 60 | 10 | 60 | 200 | 50 | 90 |
| Dissolved Iron (mg/L) | 4.2 | 1.6 | 8.1 | 6.8 | 4.3 | 11.6 |
| Potassium (mg/L) | 39 | 58 | 58 | 94 | 37 | 77 |
| Bicarbonates (mg/L) | 1380 | 2070 | 1870 | 1000 | 1400 | 760 |
| Carbonates (mg/L) | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydroxides (mg/L) | 0 | 0 | 0 | 0 | 0 | 0 |
| Sulfates (mg/L) | 0 | 20 | 0 | 10 | 0 | 10 |
| Sodium (mg/L) | 3150 | 3967 | 4118 | 4192 | 2961 | 4578 |
| TDS (mg/L) | 9850 | 12600 | 12000 | 14500 | 9300 | 13400 |
| Rw Resistivity (Ohms-Meter) | 0.798 | 0.654 | 0.617 | 0.464 | 0.782 | 0.519 |
| Temperature (°F) | 64 | 62 | 62 | 62 | 62 | 62 |

W136 - 27-5 Injection W137 - Fed 299-26-1 W138 - Kokopelli Field W139 - Rulison Field W140 - Ryan's Gulch W141 - Parachute Field

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

HALLIBURTON

Rockies Lab Water Analysis Report

District: Grand Junction

Tested By

Jason Martinez

Reported By

Jason Martinez

Customer and Well Information

| | | | |
|-----------|-----------|------------------|-------------------------|
| Company | WPX | Well/Sample Name | RG Injection Field W358 |
| Report To | Mark Mayo | Date Received | 12/22/2013 |
| | | Date Tested | 12/22/2013 |

Sample Physical Characteristics

| | | | | |
|------------------|-------|-----|---------------------|----------------|
| Sample 1 | W358 | | | |
| Temperature | 68.3 | °F | Resistivity | 0.8 Ω m |
| Specific Gravity | 1.008 | | Conductivity | 18.3 mS/cm |
| pH | 6.9 | | TDS | 10500.0 mg/L |
| Turbidity | 616.0 | FNU | Color (observation) | Light Yellow |

Sample Chemical Characteristics

Anions

| | | | | | |
|-------------|------|------|---------------------|------|------|
| Chloride | 6255 | mg/L | Total Iron | 2.07 | mg/L |
| Sulfate | 2 | mg/L | Ferrous Iron | 0.4 | mg/L |
| Carbonate | 0 | mg/L | Potassium | 700 | mg/L |
| Bicarbonate | 945 | mg/L | Calcium | 205 | mg/L |
| Hydroxide | 0 | mg/L | Magnesium | 60 | mg/L |
| | | | Sodium (calculated) | 3651 | mg/L |

Cations

General Comments

0

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

HALLIBURTON

Rockies Lab Water Analysis Report
District: Grand Junction

Tested By Jason Martinez
Reported By Nathan Barnum

Customer and Well Information

| | | | |
|-----------|-----------|------------------|-----------------|
| Company | WPX | Well/Sample Name | Ryans Gulch Pit |
| Report To | Mark Mayo | Date Received | 9/16/2013 |
| | | Date Tested | 9/17/2013 |

Sample Physical Characteristics

| | | | | |
|------------------|-------|-----|---------------------|-------------|
| Sample 1 | W229 | | | |
| Temperature | 67.0 | °F | Resistivity | 0.9 Ω·m |
| Specific Gravity | 1.007 | | Conductivity | 21.6 mS/cm |
| pH | 7.6 | | TDS | 7008.0 mg/L |
| Turbidity | 33.9 | FNU | Color (observation) | Black |

Sample Chemical Characteristics

Anions

| | | | | | |
|-------------|------|------|---------------------|------|------|
| Chloride | 3459 | mg/L | Total Iron | 10.9 | mg/L |
| Sulfate | 10 | mg/L | Ferrous Iron | 5.3 | mg/L |
| Carbonate | 0 | mg/L | Potassium | 36 | mg/L |
| Bicarbonate | 1136 | mg/L | Calcium | 140 | mg/L |
| Hydroxide | 0 | mg/L | Magnesium | 140 | mg/L |
| | | | Sodium (calculated) | 2219 | mg/L |

Cations

General Comments

0

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.