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|-------------------------|------------------------------------|
| To: Magna Energy | Lab #: 43984 |
| Lease: N/A | Sample Date: N/A |
| Well No.: Name | Sample Analyzed: 05/25/16 |
| Location: N/A | Analyzed By: V.W./D.M./G.R. |

| Analysis | |
|---|-------------|
| Specific Gravity (74°F) | 1.0230 |
| pH, Lab Measure | 6.79 |
| Calcium Carbonate S.I. @ 80°F (Stiff-Davis) | -0.82 |
| Calcium Carbonate S.I. @ 140°F (Stiff-Davis) | 0.03 |
| Calcium Sulfate Scaling Tendency | no |
| Barium Sulfate Scaling Tendency | yes |
| Dissolved Gases | |
| | mg/l |
| Hydrogen Sulfide (H ₂ S) | 1.27 |
| Carbon Dioxide (CO ₂), Calculated | 73.92 |
| Dissolved Oxygen (O ₂) | N.D. |

| Probable Mineral Comp. | mg/l |
|------------------------------------|-------------|
| Ca(HCO ₃) ₂ | 378.35 |
| CaSO ₄ | 53.91 |
| CaCl ₂ | 0.00 |
| Mg(HCO ₃) ₂ | 0.00 |
| MgSO ₄ | 298.87 |
| MgCl ₂ | 0.00 |
| NaHCO ₃ | 0.00 |
| NaSO ₄ | 3284.55 |
| NaCl | 46082.07 |
| | |
| | |

| Cations | mg/l | meq/l | Anions | mg/l | meq/l |
|----------------|-------------|--------------|---------------------------------|-------------|--------------|
| Sodium (Na) | 15295.95 | 665.33 | Chloride (Cl) | 27946.42 | 786.34 |
| Calcium (Ca) | 441.26 | 21.95 | Bicarbonate (HCO ₃) | 284.87 | 4.67 |
| Magnesium (Mg) | 103.21 | 8.49 | Carbonate (CO ₃) | 0.00 | 0.00 |
| Potassium (K) | 139.79 | 3.58 | Hydroxyl (OH) | 0.00 | 0.00 |
| Iron (Fe) | 34.29 | 1.23 | Sulfate (SO ₄) | 3484.42 | 72.55 |
| Barium (Ba) | 31.72 | 0.46 | | | |
| Manganese (Mn) | 0.80 | 0.03 | | | |
| Strontium (Sr) | 76.64 | 1.75 | | | |

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|---|-------|
| Total Dissolved Solids, Calculated (mg/l) | 47763 |
| Total Hardness as mg/l CaCO ₃ | 1526 |
| Resistivity (Ω/m) @ 75°F | 0.178 |

