



ANALYTICAL LAB  
10040 Lickinghole Road | Ashland, Virginia 23005  
(804) 935-2418 | www.chemtreat.com

## Certificate of Analysis

Oct 30, 2019

**Laboratory No.** W-191017-014  
**Company** CAERUS OIL AND GAS  
**Address** NORTH PARACHUTE RANCH GUARD GATE, 10652 COUNTY ROAD 215,  
PARACHUTE, CO, 81635, USA  
**Account Manager** Gary Zolnosky  
**Request Date** Oct 17, 2019  
**Sample Class** Water

Analysis	E-1 INJECTION
	Oct 15, 2019
Lab pH	7.20
Total Dissolved Solids	12118 mg/L
Conductivity	23280 umho
P-Alkalinity, as CaCO <sub>3</sub>	<1 mg/L
M-Alkalinity, as CaCO <sub>3</sub>	660 mg/L
Iron, as Fe	2.0 mg/L
Filtered Iron, as Fe	0.06 mg/L
Total Iron, as Fe	22 mg/L
Copper, as Cu	<0.5 mg/L
Zinc, as Zn	<0.5 mg/L
Sodium, as Na	4571 mg/L
Potassium, as K	5.5 mg/L
Chloride, as Cl	7022 mg/L
Sulfate, as SO <sub>4</sub>	5.9 mg/L
Nitrate, as NO <sub>3</sub>	2.5 mg/L
Total Phosphate, as PO <sub>4</sub>	<25 mg/L
Fluoride, as F	79 mg/L
Nitrite, as NO <sub>2</sub>	<12.5 mg/L
Specific Gravity @ 70F	1.0098

### Comments

Respectfully Submitted,

Joel Phillips

Manager Applied Technology Analytical Lab  
ChemTreat International, Inc.



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Analysis	E-1 INJECTION
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Ammonia, as NH <sub>3</sub>	13 mg/L
Calcium, as Ca	59 mg/L
Magnesium, as Mg	9.0 mg/L
Boron, as B	5.3 mg/L
Barium, as Ba	14 mg/L
Manganese, as Mn	<0.5 mg/L
TOC	346 mg/L
Total Suspended Solids with DI Rinse	61 mg/L
Volatile Organic Carbon	+

**Comments**

Respectfully Submitted,

Joel Phillips

Manager Applied Technology Analytical Lab  
ChemTreat International, Inc.