

TABLE 2
WATER QUALITY ANALYTICAL RESULTS

C16OU
GARFIELD AND MESA COUNTIES, COLORADO
CAERUS OIL GAS, LLC

Analyte	20191230 - C16OU - KEINATH WELL #1	20191230 - C16OU - KEINATH WELL #2	20191230 - C16OU - ALKALI CK SPG	20191230 - C16OU - VANHOOSE/KEINATH SPRING	20191230 - C16OU - RED BAN ROOF SPRING	Drinking Water Standards	
						Primary Standard	Secondary Standard
Hydrocarbons							
Benzene	ND	ND	ND	ND	ND	0.005	--
Toluene	ND	ND	ND	ND	ND	0.56	--
Ethylbenzene	ND	ND	ND	ND	ND	0.7	--
Total Xylenes	ND	ND	ND	ND	ND	1.4	--
TPH - GRO (C6-C10)	ND	ND	ND	ND	ND	--	--
TPH - DRO (C10-C28)	ND	ND	ND	ND	ND	--	--
Dissolved Gasses							
Dissolved Methane	ND	ND	ND	ND	ND	--	--
Dissolved Ethane	ND	ND	ND	ND	ND	--	--
Dissolved Propane	ND	ND	ND	ND	ND	--	--
Bacteria (CFU/mL)							
Iron Reducing Bacteria	Present	Present	Present	Present	Present	--	--
Slime Forming Bacteria	Present	Present	Present	Absent	Present	--	--
Sulfate Reducing Bacteria	Present	Present	Present	Absent	Present	--	--
General Water Quality Parameters							
Barium, Dissolved	0.013	0.00919	0.0170	0.0295	0.0301	2.0	--
Boron, Dissolved	0.206	ND	ND	0.221	0.272	--	--
Calcium, Dissolved	276	225	189	73.9	82.5	--	--
Iron, Dissolved	5.01	0.414	0.153	ND	ND	--	0.3
Magnesium, Dissolved	207	178	136	52.3	59.3	--	--
Manganese, Dissolved	ND	0.144	ND	ND	ND	--	0.05
Phosphorus, Dissolved	0.101	ND	ND	ND	ND	--	--
Potassium, Dissolved	5.99	7.05	4.64	4.08	2.70	--	--
Selenium, Dissolved	0.0346	0.0110	0.0117	ND	0.0107	0.05	--
Sodium, Dissolved	397	365	287	98.4	115	--	--
Strontium, Dissolved	6.90	5.60	4.44	0.801	0.750	--	--
Bicarbonate	393	374	451	393	468	--	--
Carbonate	ND	ND	ND	ND	ND	--	--
pH (SU)	7.24	7.38	7.35	7.55	7.41	--	6.5 - 8.5
Specific Conductance (µmhos/cm)	3760	3290	2490	995	1120	--	--
TDS	3340	2870	1960	658	701	--	500
Bromide	ND	ND	ND	ND	ND	--	--
Chloride	64.6	50.6	10.4	9.26	12.9	--	250
Fluoride	0.555	0.472	0.657	0.317	0.312	4.0	2.0
Nitrate - Nitrite as N	1.11	ND	ND	0.834	0.507	10.0	--
Sulfate	2000	1770	1220	220	215	--	250

Notes:

All results in milligrams per liter (mg/L) unless noted otherwise

-- No standard for the selected analyte

µmhos/cm - micromhos per centimeter

SU - Standard Units

TDS - Total Dissolved Solids

TPH - Total Petroleum Hydrocarbons

DRO - Diesel Range Organics

GRO - Gasoline Range Organics

CFU/mL - Colony Forming Units per milliliter

N- Nitrogen

Primary Standards are maximum contaminant levels (MCLs) for public water systems. They do not apply to private wells, but are presented as a guide to water quality.

Secondary Standards are guidelines for contaminants that may cause cosmetic effect or aesthetic effects in drinking water.

The source of drinking water standards is the Colorado Department of Public Health and Environment.

There is no drinking water standard for dissolved methane. The threshold limit established by the Colorado Oil and Gas Conservation Commission for additional analysis is 1 mg/L.