

**TABLE 1**  
**ACCUTEST ANALYTICAL RESULTS**  
**12999 County Road 30, Permit #220643**  
**Platteville, Colorado**  
**Sample ID: Hoffman 220643**

<b>Analyte, Units</b>	<b>2/20/2019 Result</b>	<b>5/14/2019 Result</b>	<b>8/20/2019 Result</b>	<b>12/5/2019 Result</b>
Alkalinity, Bicarbonate, mg/L	175	168	162	152
Alkalinity, Carbonate, mg/L	9.7	14.1	15.3	16.2
Alkalinity, Total, mg/L	185	182	178	168
Bacteria, Iron Reducing, CFU/mL	9,000	140,000	35,000	9,000
Bacteria, Slime Forming, CFU/mL	500	13,000	500	2,500
Bacteria, Sulfate Reducing, CFU/mL	27,000	115,000	6,000	27,000
Barium, mg/L	0.0192	0.0195	0.0228	0.0211
Benzene, ug/L	ND	ND	ND	ND
Boron, mg/L	ND	ND	ND	ND
Bromide, mg/L	0.18	0.19	0.20	0.19
Calcium, mg/L	4.63	5.31	5.65	5.86
Chloride, mg/L	18.6	19.5	19.9	18.8
Diesel Range Organics, mg/L	ND	ND	ND	ND
Ethane, mg/L	0.387	0.524	0.502	0.340
Ethylbenzene, ug/L	ND	ND	ND	ND
Fluoride, mg/L	0.57	0.59	0.59	0.53
Gasoline Range Organics, mg/L	ND	ND	ND	ND
Iron, mg/L	ND	ND	ND	ND
Magnesium, mg/L	0.686	0.841	0.922	0.886
Manganese, mg/L	0.0136	0.0147	0.0167	0.0161
Methane, mg/L	1.64	2.68	2.29	1.60
Nitrogen, Nitrate, mg/L	ND	ND	ND	ND
Nitrogen, Nitrite, mg/L	ND	ND	ND	ND
pH, Standard Units	8.67	8.94	8.78	8.57
Phosphorus, Total, mg/L	0.049	0.050	0.055	0.046
Propane, mg/L	0.116	0.148	0.150	0.0932
Potassium, mg/L	ND	ND	1.20	1.18
Selenium, mg/L	ND	ND	ND	ND
Sodium, mg/L	171	177	196	185
Specific Conductivity, $\mu$ mhos/cm	782	814	711	880
Strontium, mg/L	0.107	0.121	0.132	0.134
Sulfate, mg/L	192	212	249	210
Toluene, ug/L	ND	ND	ND	ND
Total Dissolved Solids, mg/L	253	543	557	556
Xylene, Total, ug/L	ND	ND	ND	ND

Notes:

ND (RL) = Non-detect (reporting limit)

Lab qualifiers (i.e. letters next to result) are defined in the lab report

**TABLE 2**  
**ISOTECH SIW RESULTS**  
**12999 County Road 30, Permit #220643**  
**Platteville, Colorado**  
**Sample ID: Hoffman 220643**

<b>Analyte, Units</b>	<b>2/20/2019 Result</b>	<b>5/14/2019 Result</b>	<b>8/20/2019 Result</b>	<b>12/5/2019 Result</b>
dD of water, ‰ relative to VSMOW	-103.6	-105.2	-106.4	-106.2
d18O of water, ‰ relative to VSMOW	-13.68	-13.78	-13.85	-13.86
Tritium content of water, ‰	na	na	na	na
d13C of DIC, ‰ relative to VPDB	-11.1	-11.2	-11.6	-11.3
14C content of DIC, ‰	na	na	na	na
d15N of nitrate, ‰	na	na	na	na
d18O of nitrate, ‰	na	na	na	na
d34S of sulfate, ‰	na	na	na	na
d18O of sulfate, ‰	na	na	na	na

**Notes:**

Isotopic analysis conducted at Isotech Laboratories Inc.

na = not analyzed

**TABLE 3**  
**ISOTECH NG4 RESULTS**  
**12999 County Road 30, Permit #220643**  
**Platteville, Colorado**  
**Sample ID: Hoffman 220643**

<b>Analyte, Units</b>	<b>2/20/2019 Result</b>	<b>5/14/2019 Result</b>	<b>8/20/2019 Result</b>	<b>12/5/2019 Result</b>
Carbon Monoxide, mol %	nd	nd	nd	nd
Helium, mol %	na	na	na	na
Hydrogen, mol %	nd	nd	nd	nd
Argon, mol %	1.37 (0.69 mg/L)	1.23 (0.70 mg/L)	1.26 (0.63 mg/L)	1.28 (0.61 mg/L)
Oxygen, mol %	0.95	3.84	3.03	2.62
Nitrogen, mol %	63.17 (20 mg/L)	64.93 (23 mg/L)	64.03 (19 mg/L)	62.53 (18 mg/L)
Carbon Dioxide, mol %	0.15	0.14	0.16	0.18
Methane, mol %	31.16 (6.4 mg/L)	27.08 (6.2 mg/L)	28.70 (5.7 mg/L)	30.32 (5.8 mg/L)
Ethane, mol %	2.61 (1.1 mg/L)	2.28 (1.1 mg/L)	2.33 (0.95 mg/L)	2.52 (0.97 mg/L)
Ethylene, mol %	nd	nd	nd	nd
Propane, mol %	0.472 (0.27 mg/L)	0.402 (0.26 mg/L)	0.394 (0.22 mg/L)	0.441 (0.24 mg/L)
Propylene, mol %	nd	nd	nd	nd
Iso-butane, mol %	0.0553	0.0459	0.0436	0.0503
N-butane, mol %	0.0505	0.0399	0.0378	0.0439
Iso-pentane, mol %	0.0110	0.0085	0.0077	0.0094
N-pentane, mol %	0.0043	0.0030	0.0029	0.0035
Hexanes + , mol %	0.0019	0.0013	0.0015	0.0010

**Notes:**

Isotopic analysis conducted at Isotech Laboratories, Inc.

<sup>a</sup> Chemical compositions are  
normalized to 100% (Mol. %)

nd = not detected

na = not analyzed