

**TABLE 1**  
**ACCUTEST ANALYTICAL RESULTS**  
**13159 County Road 39, Permit #272956**  
**Platteville, Colorado**  
**Sample ID: Sierra 272956**

Analyte, Units	1/26/2017 Result	4/24/2017 Result	7/12/2017 Result	11/15/2017 Result
Alkalinity, Bicarbonate, mg/L	220	221	218	206
Alkalinity, Carbonate, mg/L	ND	ND	ND	ND
Alkalinity, Total, mg/L	220	221	218	206
Bacteria, Iron Reducing, CFU/mL	500	25	260	25
Bacteria, Slime Forming, CFU/mL	ND	ND	ND	ND
Bacteria, Sulfate Reducing, CFU/mL	ND	700	700	700
Barium, mg/L	0.0080	0.0075	0.0096	0.0073
Benzene, ug/L	ND	ND	ND	ND
Boron, mg/L	0.117	0.106	0.115	0.0997
Bromide, mg/L	1.4	1.5	1.4	1.6
Calcium, mg/L	63.7	76.7	69.9	65.4
Chloride, mg/L	173	182	176	197
Diesel Range Organics, mg/L	ND	ND	ND	ND
Ethane, mg/L	0.00096	0.00089	0.0092	ND
Ethylbenzene, ug/L	ND	ND	ND	ND
Fluoride, mg/L	0.52	0.51	ND	0.53
Gasoline Range Organics, mg/L	ND	ND	ND	ND
Iron, mg/L	0.0203	ND	0.201	0.0120
Magnesium, mg/L	13.2	12.2	12.5	13.5
Manganese, mg/L	0.0730	0.0796	0.0838	0.0620
Methane, mg/L	0.103	0.0205	0.535	ND
Nitrogen, Nitrate, mg/L	ND	ND	ND	ND
Nitrogen, Nitrite, mg/L	ND	ND	ND	ND
pH, Standard Units	7.65	7.67	7.70	8.17
Phosphorus, Total, mg/L	ND	ND	ND	ND
Propane, mg/L	0.0011	ND	ND	ND
Potassium, mg/L	6.02	6.92	5.52	6.01
Selenium, mg/L	ND	ND	ND	0.00093
Sodium, mg/L	809	882	850	819
Specific Conductivity, $\mu$ mhos/cm	3,570	3,710	3,810	4,170
Strontium, mg/L	1.56	1.42	1.56	1.62
Sulfate, mg/L	1,480	1,570	1,470	1,650
Toluene, ug/L	ND	ND	ND	ND
Total Dissolved Solids, mg/L	2,690	2,760	2,660	2,870
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**  
**13159 County Road 39, Permit #272956**  
**Platteville, Colorado**  
**Sample ID: Sierra 272956**

<b>Analyte, Units</b>	<b>1/26/2017 Result</b>	<b>4/24/2017 Result</b>	<b>7/12/2017 Result</b>	<b>11/15/2017 Result</b>
dD of water, ‰ relative to VSMOW	-108.7	-109.4	-109.1	-109.5
d18O of water, ‰ relative to VSMOW	-13.99	-13.97	-13.94	-13.98
Tritium content of water, ‰	na	na	na	na
d13C of DIC, ‰ relative to VPDB	-20.8	-20.0	-20.6	-17.9
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**  
**13159 County Road 39, Permit #272956**  
**Platteville, Colorado**  
**Sample ID: Sierra 272956**

<b>Analyte, Units</b>	<b>1/26/2017 Result</b>	<b>4/24/2017 Result</b>	<b>7/12/2017 Result</b>	<b>11/15/2017 Result</b>
Carbon Monoxide, mol %	nd	nd	nd	nd
Helium, mol %	na	na	na	na
Hydrogen, mol %	nd	nd	nd	nd
Argon, mol %	1.40 (1.1 mg/L)	1.76 (0.61 mg/L)	1.75 (0.56 mg/L)	1.77 (0.64 mg/L)
Oxygen, mol %	0.95	2.52	2.55	4.79
Nitrogen, mol %	93.57 (46 mg/L)	91.83 (19 mg/L)	84.21 (16 mg/L)	89.67 (19 mg/L)
Carbon Dioxide, mol %	2.09	3.40	3.71	3.69
Methane, mol %	1.98 (0.64 mg/L)	0.487 (0.069 mg/L)	7.71 (1.0 mg/L)	0.0838 (0.012 mg/L)
Ethane, mol %	0.0075 (0.0049 mg/L)	0.0079 (0.0023 mg/L)	0.0715 (0.019 mg/L)	nd
Ethylene, mol %	nd	nd	nd	nd
Propane, mol %	nd	nd	0.0006 (0.0002 mg/L)	nd
Propylene, mol %	nd	nd	nd	nd
Iso-butane, mol %	0.0003	nd	nd	nd
N-butane, mol %	nd	nd	nd	nd
Iso-pentane, mol %	nd	nd	nd	nd
N-pentane, mol %	nd	nd	nd	nd
Hexanes + , mol %	nd	nd	0.0012	nd

Notes:

Isotopic analysis conducted at Isotech Laboratories, Inc.

<sup>a</sup> Chemical compositions are normalized to 100% (Mol. % is approximately equal to Vol. %). Additional information

nd = not detected

na = not analyzed