

TABLE 1
ACCUTEST ANALYTICAL RESULTS
13017 County Road 30, Permit #68535
Platteville, Colorado
Sample ID: Barclay 68535

Analyte, Units	2/5/2019 Result	5/13/2019 Result	8/19/2019 Result	10/31/2019 Result
Alkalinity, Bicarbonate, mg/L	454	443	443	404
Alkalinity, Carbonate, mg/L	23.9	19.1	20.1	10.1
Alkalinity, Total, mg/L	478	462	463	414
Bacteria, Iron Reducing, CFU/mL	35,000	9,000	35,000	9,000
Bacteria, Slime Forming, CFU/mL	2,500	2,500	ND	13,000
Bacteria, Sulfate Reducing, CFU/mL	27,000	115,000	325	115,000
Barium, mg/L	0.0350	0.0365	0.0367	0.0461
Benzene, ug/L	ND	ND	ND	ND
Boron, mg/L	0.161	0.185	0.185	0.170
Bromide, mg/L	0.57	0.56	0.59	0.58
Calcium, mg/L	2.31	2.28	2.13	2.75
Chloride, mg/L	54.9	56.1	61.6	54.1
Diesel Range Organics, mg/L	ND	ND	ND	ND
Ethane, mg/L	0.433	0.0026	0.110	0.294
Ethylbenzene, ug/L	ND	ND	ND	ND
Fluoride, mg/L	1.8	1.9	1.9	1.8
Gasoline Range Organics, mg/L	ND	ND	ND	ND
Iron, mg/L	0.0319	0.0243	0.0101	0.0257
Magnesium, mg/L	0.397	0.461	0.410	0.457
Manganese, mg/L	0.0077	0.0070	0.0057	0.0060
Methane, mg/L	6.94	5.80	4.84	9.77
Nitrogen, Nitrate, mg/L	ND	ND	ND	ND
Nitrogen, Nitrite, mg/L	ND	ND	ND	ND
pH, Standard Units	8.69	8.68	8.69	8.67
Phosphorus, Total, mg/L	0.036	0.035	0.045	0.029
Propane, mg/L	0.186	ND	0.0424	0.125
Potassium, mg/L	1.31	1.26	1.31	1.44
Selenium, mg/L	ND	ND	ND	0.00099
Sodium, mg/L	237	241	224	244
Specific Conductivity, µmhos/cm	1,010	945	836	1,030
Strontium, mg/L	0.0684	0.0675	0.0678	0.0677
Sulfate, mg/L	ND	ND	ND	ND
Toluene, ug/L	2.6	0.80	ND	ND
Total Dissolved Solids, mg/L	603	611	621	603
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
13017 County Road 30, Permit #68535
Platteville, Colorado
Sample ID: Barclay 68535

Analyte, Units	2/5/2019 Result	5/13/2019 Result	8/19/2019 Result	10/31/2019 Result
dD of water, ‰ relative to VSMOW	-107.0	-106.8	-106.1	-107.3
d18O of water, ‰ relative to VSMOW	-14.15	-14.02	-14.01	-14.10
Tritium content of water, ‰	na	na	na	na
d13C of DIC, ‰ relative to VPDB	-10.8	-10.6	-10.5	-10.5
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
13017 County Road 30, Permit #68535
Platteville, Colorado
Sample ID: Barclay 68535

Analyte, Units	2/5/2019 Result	5/13/2019 Result	8/19/2019 Result	10/31/2019 Result
Carbon Monoxide, mol %	nd	nd	nd	nd
Helium, mol %	na	na	na	na
Hydrogen, mol %	nd	nd	nd	nd
Argon, mol %	0.794 (0.72 mg/L)	0.764 (0.68 mg/L)	0.810 (0.73 mg/L)	0.773 (0.72 mg/L)
Oxygen, mol %	0.71	1.22	1.54	1.19
Nitrogen, mol %	39.43 (22 mg/L)	41.52 (22 mg/L)	44.90 (25 mg/L)	43.16 (25 mg/L)
Carbon Dioxide, mol %	0.51	0.41	0.41	0.41
Methane, mol %	56.61 (21 mg/L)	54.89 (20 mg/L)	51.75 (19 mg/L)	53.42 (20 mg/L)
Ethane, mol %	1.35 (0.99 mg/L)	0.851 (0.62 mg/L)	0.424 (0.31 mg/L)	0.740 (0.57 mg/L)
Ethylene, mol %	nd	nd	nd	nd
Propane, mol %	0.412 (0.42 mg/L)	0.246 (0.25 mg/L)	0.112 (0.11 mg/L)	0.219 (0.23 mg/L)
Propylene, mol %	nd	nd	nd	nd
Iso-butane, mol %	0.0697	0.0395	0.0184	0.0349
N-butane, mol %	0.0786	0.0427	0.0218	0.0403
Iso-pentane, mol %	0.0187	0.0099	0.0058	0.0093
N-pentane, mol %	0.0098	0.0052	0.0029	0.0049
Hexanes + , mol %	0.0037	0.0017	0.0010	0.0017

Notes:

Isotopic analysis conducted at Isotech Laboratories, Inc.

^a Chemical compositions are normalized to 100% (Mol. %)

nd = not detected

na = not analyzed