

TABLE 1
ACCUTEST ANALYTICAL RESULTS
12735 County Road 34, Permit #15631
Platteville, Colorado
Sample ID: 7_3N_66W_Henrickson

Analyte, Units	9/17/2015 Result	11/10/2015 Result	1/6/2016 Result	3/9/2016 Result	5/5/2016 Result	7/7/2016 Result	8/24/2016 Result	11/16/2016 Result
Alkalinity, Bicarbonate, mg/L	430	393	396	403	398	417	416	406
Alkalinity, Carbonate, mg/L	ND	24	9.4	8.4	9.5	12.9	10.8	6.1
Alkalinity, Total, mg/L	430	417	405	411	407	430	426	412
Bacteria, Iron Reducing, CFU/mL	74,500	140,000	74,500	74,500	74,500	74,500	74,500	140,000
Bacteria, Slime Forming, CFU/mL	ND	12,500	66,500	66,500	66,500	ND	ND	350,000
Bacteria, Sulfate Reducing, CFU/mL	200	700	700	700	700	700	1,200	700,000
Barium, mg/L	0.0692	0.0731	0.0701	0.0657	0.0640	0.0689	0.0678	0.0755
Benzene, ug/L	0.8	0.95	1.3	1.5	1.5	1.3	1.6	2.4
Boron, mg/L	0.1250	0.119	0.114	0.121	0.113	0.113	0.11	0.121
Bromide, mg/L	0.49	0.51	0.51	0.52	0.49	0.5	0.45	0.56
Calcium, mg/L	3.46	4.2	4.11	4.45	3.68	3.56	3.37	4.38
Chloride, mg/L	48.3	49.7	49.9	55.2	49.4	49.7	51.5	54.0
Diesel Range Organics, mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Ethane, mg/L	4.37	0.727	1.03	0.719	1.93	3.64	3.14	0.935
Ethylbenzene, ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Fluoride, mg/L	1.7	1.8	1.8	1.7	1.8	1.8	1.8	1.7
Gasoline Range Organics, mg/L	1.05	0.103	0.131	0.232	0.555	1.03	1.01	0.283
Iron, mg/L	ND	0.0285	0.0308	0.0822	0.0234	0.016	0.0196	ND
Magnesium, mg/L	0.726	0.876	0.868	0.872	0.768	0.74	0.736	0.853
Manganese, mg/L	0.0087	0.0115	0.0104	0.0138	0.0125	0.0082	0.0076	0.0104
Methane, mg/L	12	6.63	7.2	3.99	7.89	10.1	8.37	5.2
Nitrogen, Nitrate, mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrogen, Nitrite, mg/L	ND	ND	ND	ND	ND	ND	ND	ND
pH, Standard Units	8.57	8.48	8.36	8.43	8.42	8.54	8.47	8.38
Phosphorus, Total, mg/L	ND	ND	ND	0.028	0.011	ND	ND	ND
Propane, mg/L	2.66	0.414	0.571	0.369	1.19	2.27	2.07	0.601
Potassium, mg/L	1.35	1.45	1.15	1.6	1.28	1.19	1.3	1.42
Selenium, mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, mg/L	228	223	201	223	203	211	214	218
Specific Conductivity, µmhos/cm	858	755	847	770	850	861	800	835
Strontium, mg/L	0.115	0.131	0.122	0.133	0.114	0.113	0.109	0.132
Sulfate, mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Toluene, ug/L	0.23	ND	0.95	1.9	ND	ND	ND	0.84
Total Dissolved Solids, mg/L	569	551	551	556	539	545	552	543
Xylene, Total, ug/L	ND	ND	ND	ND	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
12735 County Road 34, Permit #15631
Platteville, Colorado
Sample ID: 7_3N_66W_Henrickson

Analyte, Units	9/17/2015 Result	11/10/2015 Result	1/6/2016 Result	3/9/2016 Result	5/5/2016 Result	7/7/2016 Result	8/24/2016 Result	11/16/2016 Result
dD of water, ‰ relative to VSMOW	-105.9	-108.7	-108.7	-107.6	-109.0	-109.3	-109.0	-110.0
d18O of water, ‰ relative to VSMOW	-14.09	-14.51	-14.14	-14.48	-14.15	-14.29	-14.00	-14.22
Tritium content of water, ‰	na	na	na	na	na	na	na	na
d13C of DIC, ‰ relative to VPDB	-12.2	-12.0	-11.9	-12.0	-11.9	-12.1	-12.1	-11.9
14C content of DIC, ‰	na	na	na	na	na	na	na	na
d15N of nitrate, ‰	na	na	na	na	na	na	na	na
d18O of nitrate, ‰	na	na	na	na	na	na	na	na
d34S of sulfate, ‰	na	na	na	na	na	na	na	na
d18O of sulfate, ‰	na	na	na	na	na	na	na	na

Notes:

Isotopic analysis conducted at Isotech Laboratories Inc.

na = not analyzed

TABLE 3
ISOTECH NG4 RESULTS
12735 County Road 34, Permit #15631
Platteville, Colorado
Sample ID: 7_3N_66W_Henrickson

Analyte, Units	9/17/2015 Result	11/10/2015 Result	1/6/2016 Result	3/9/2016 Result	5/5/2016 Result	7/7/2016 Result	8/24/2016 Result	11/16/2016 Result
Carbon Monoxide, mol %	nd	nd	nd	nd	nd	nd	nd	nd
Helium, mol %	na	na	na	na	na	na	0.0212	na
Hydrogen, mol %	nd	nd	nd	nd	nd	nd	nd	nd
Argon, mol %	0.0757 (0.076 mg/L)	0.768 (0.56 mg/L)	0.717 (0.56 mg/L)	0.679 (0.52 mg/L)	0.345 (0.26 mg/L)	0.0724 (0.11 mg/L)	0.0951 (0.17 mg/L)	0.706 (0.48 mg/L)
Oxygen, mol %	1.23	1.13	1.010	1.780	1.54	1.40	1.470	1.540
Nitrogen, mol %	4.21 (2.5 mg/L)	44.65 (20 mg/L)	41.28 (20 mg/L)	39.19 (18 mg/L)	20.12 (9.3 mg/L)	4.09 (4.0 mg/L)	7.06 (7.2 mg/L)	38.87 (16 mg/L)
Carbon Dioxide, mol %	0.35	0.66	0.62	0.66	0.61	0.32	0.19	0.73
Methane, mol %	76.84 (31 mg/L)	49.08 (15 mg/L)	51.56 (16 mg/L)	52.13 (16 mg/L)	66.04 (20 mg/L)	76.58 (48 mg/L)	75.56 (54 mg/L)	52.12 (14 mg/L)
Ethane, mol %	11.45 (9.5 mg/L)	2.51 (1.5 mg/L)	3.19 (2.1 mg/L)	3.69 (2.3 mg/L)	7.29 (4.5 mg/L)	11.28 (14 mg/L)	9.97 (15 mg/L)	3.92 (2.2 mg/L)
Ethylene, mol %	0.0004	nd	nd	nd	nd	nd	nd	nd
Propane, mol %	4.60 (5.2 mg/L)	0.937 (0.78 mg/L)	1.24 (1.1 mg/L)	1.47 (1.3 mg/L)	3.14 (2.7 mg/L)	4.79 (8.4 mg/L)	4.31 (8.7 mg/L)	1.61 (1.2 mg/L)
Propylene, mol %	0.0002	nd	nd	nd	nd	0.0005	nd	nd
Iso-butane, mol %	0.383	0.0803	0.123	0.129	0.261	0.419	0.400	0.140
N-butane, mol %	0.709	0.146	0.21	0.217	0.524	0.833	0.725	0.277
Iso-pentane, mol %	0.0847	0.0186	0.0284	0.0276	0.0648	0.107	0.103	0.0402
N-pentane, mol %	0.0545	0.0128	0.0173	0.0175	0.0463	0.0816	0.0686	0.0307
Hexanes + , mol %	0.0152	0.0031	0.0042	0.0056	0.0148	0.0312	0.0229	0.0124

Notes:

Isotopic analysis conducted at Isotech Laboratories, Inc.

^a Chemical compositions are normalized to 100% (Mol. % is approximately equal to Vol. %). Additional information provided in attached lab report.

nd = not detected

na = not analyzed