

LABORATORY No. S 161—Mineral water sent July 23, 1915, by N. L. Holeman, Hotel Arcadia, Dawson Springs.

ANALYSIS—	Grams per liter.	Grains per gallon.
Ferrous carbonate, $\text{FeCO}_3$ .....	.0576	3.36
Calcium carbonate, $\text{CaCO}_3$ .....	.3467	20.21
Magnesium carbonate $\text{MgCO}_3$ .....	.0410	2.39
Calcium sulfate, anhydrous, $\text{CaSO}_4$ .....	1.2772	74.46
Magnesium sulfate, anhydrous, $\text{MgSO}_4$ .....	2.8967	168.88
Potassium sulfate, $\text{K}_2\text{SO}_4$ .....	.0316	1.84
Sodium sulfate, anhydrous, $\text{Na}_2\text{SO}_4$ .....	.4490	26.18
Sodium chlorid, $\text{NaCl}$ .....	.1870	10.90
Silica, $\text{SiO}_2$ .....	.0334	1.95
Lithium and strontium .....	traces	traces
	5.3202	310.17
Total solids, dried at $100^\circ \text{C}$ . .....	5.855	341.35
Ignited solids .....	5.025	292.95

This is a good magnesium sulfate water. It is distinctly alkaline from the presence of calcium carbonate and magnesium carbonate.

LABORATORY No. S 162—Mineral water sent August 16, 1915, by N. L. Holeman & Company, Dawson Springs, from a well recently dug on their property.

ANALYSIS—	Grams per liter.	Grains per gallon.
Ferrous carbonate, $\text{FeCO}_3$ .....	.0200	1.17
Calcium carbonate, $\text{CaCO}_3$ .....	.4381	25.54
Magnesium carbonate, $\text{MgCO}_3$ .....	.0174	1.01
Calcium sulfate, anhydrous, $\text{CaSO}_4$ .....	1.1726	68.36
Magnesium sulfate, anhydrous, $\text{MgSO}_4$ .....	2.5000	145.75
Potassium sulfate, $\text{K}_2\text{SO}_4$ .....	.0436	2.54
Sodium sulfate, anhydrous, $\text{Na}_2\text{SO}_4$ .....	.4834	28.18
Sodium chlorid, $\text{NaCl}$ .....	.0912	5.32