

IOWA GEOLOGICAL SURVEY
Water Analysis Report
Iowa City, Iowa

County Linn Date Sampled November 24, 1959
 Town Fairfax Sampled by L. L. Steele
 Location of well NWNE Sec. 16, T. 22 N., R. 2 Twp.
 Owner Town of Fairfax Well No. 1 Depth 410 ft.
 Type of well Cable tool Static water level (below surface) 21.92 ft. Elevation of well 770 ft. (ground)
 Producing Formation(s) Silurian Depth Range 216' to 410'

Notes on condition of well, casing, or formations:

Well pumped $7\frac{1}{2}$ hours at 105 gpm. Collected at end of 50' of 6" aluminum pipe.
 Casing record: 10" pipe from 0-124'; 8" pipe from 117' 8" - 216'

Dissolved constituents and properties (in parts per million except as indicated):

Silica (SiO ₂)	<u>15</u>	Dissolved solids	<u>875</u>
Iron (Fe)	<u>0.36</u>	Hardness (calc. as CaCO ₃)	
Manganese (Mn)	<u>0.05</u>	Total	<u>389</u>
Calcium (Ca)	<u>100</u>	(as grains per gallon)	<u>22.7</u>
Magnesium (Mg)	<u>34</u>	Carbonate	<u>310</u>
Potassium (K)	<u>5.1</u>	Noncarbonate	<u>79</u>
Sodium (NA)	<u>30</u>	Alkalinity (as CaCO ₃)	<u>310</u>
Carbonate (CO ₃)	<u>2222</u>	pH	<u>7.7</u>
Bicarbonate (HCO ₃)	<u>378</u>	Specific Conductance	<u>820</u>
Sulfate (SO ₄)	<u>135</u>	(Microinches at 25°C.)	
Chloride (Cl)	<u>16</u>	Temperature (°F.)	<u>51</u>
Fluoride (F)	<u>0.4</u>	*****	
Nitrate (NO ₃)	<u>17</u>	Analysis No.	<u>1310 (1750)</u>
		Date analyzed	<u>1-7-60</u>
		I. G. S. Well No.	<u> </u>

Remarks: