

DANBURY, IOWA

October 25, 1939

PUBLIC WATER SUPPLY

F.W. PICKWORTH

On the above date the writer accompanied by Mr. Frank Palmer, operator conducted a sanitary resurvey of the Danbury Municipal Water Supply. At this time sample No.1., from a tap at the pump on the new drilled well and, No.2., from a tap at Mr. Canty's Oil Station were collected and submitted to the Woodbury County Hygienic Laboratory at Sioux City for bacteriological analysis. Samples were also collected on the new well and submitted to the State Hygienic Laboratories at Iowa City for complete mineral analysis.

Recently the City of Danbury has constructed a new drilled well located in the city park on the northwest edge of town. The area surrounding the well is free of any source of contamination. The well was drilled by the Kelly Well Company of Grand Island, Nebraska. The log of the well is as follows:

<u>FEET</u>	<u>MATERIAL</u>
0-30 -----	Clay
30-32 -----	Sandy clay
32-35 -----	Dirty sand and clay
35-37 -----	Dirty sand and small gravel
37-40 -----	Fine sand and some clay
40-42 -----	Fine sand and clay
42-44 -----	Sand and small gravel
44-46 -----	Sand and large gravel
46-48 -----	Sandy gravel
48-50 -----	Red sand
50-61.5 -----	Coarse gravel.

The well is 61.5 feet deep and has 12 feet of Kelly screen on the bottom. The casing terminates approximately 18 inches above the floor of the pump house and properly sealed. The Deming turbine pump was moved from the old drilled well and is set on a high concrete pedestal. The writer noticed no sanitary defects around the new supply.

The 67½ foot drilled well in the old pump house has been capped and is not used. The city still maintains the sand point supply to be used in emergencies. Sanitary conditions about this supply are the same as reported by Mr. E.J. Karzec.

In view of the finding of the survey of the old supply the writer has the following recommendations to offer: