

GW Rockwell City G.O.
Calhoun Co.

25 July 1973

Mr. Frank H. Flores
Otto Engineering Company, P.C.
1405 West Main Street
Sac City, Iowa 50583

Dear Frank:

Nice to hear from you and to receive the information about the proposed new Rockwell City well. I believe you know we don't send out the colored log reproductions anymore as copying them is too time-consuming. I can have a computer printout made of well No. 4 if you wish, but it will probably be next week before I can get this for you. In the meantime I am pleased to send you the formation tops from our sample study of Rockwell City well No. 4 (1970). The samples generally were very poor, so that our subsurface man had difficulty in picking precise stratigraphic points. The various geologic units and depths follow:

<u>Formation</u>	<u>Depth to top (ft)</u>
Pleistocene Series (drift)	0
Pennsylvanian System (shale) (the interval at 300-345 feet might belong to the Meramec Series because it contains much carbonate with shale, siltstone and sandstone)	175
Mississippian System Keokuk-Burlington Formations (dolomite)	345
GiGilmore City Limestone	430
Hampton Formation (limestone and dolomite, some chert)	512
Chapin (dolomite and chert) (may include Aplington dolomite)	610

Devonian System	
Sheffield Shale	636
Lime Creek Formation (dolomite)	670
Cedar Valley Dolomite	815
Wapsipinicon Formation (dolomite, sandy and cherty at base)	1040
Ordovician System	
Maquoketa Formation (dolomite, minor chert)	1155
Galena Dolomite, minor chert	1255
Decorah-Platteville Formations (lime- stone and dolomite, minor shale)	1376
St. Peter Sandstone	1495
Prairie du Chien Formation (dolomite, very sandy in upper 2/3's)	1520
Cambrian System	
Jordan Sandstone	1800
St. Lawrence Dolomite, silty	1863
Franconia Formation (dolomite and siltstone, glauconitic)	1915

I hope this information will aid you in selecting casing points for the new well. I appreciate the good cooperation you've given us on these projects in the past and look forward to receiving the pertinent data and samples on this new construction. If any questions remain or if I can be of additional assistance in this matter, please let me know.

Sincerely yours,

Paul J. Horick
Chief, Groundwater Geology

PJH:rg