Well Siting The Basics

Presented by Chris Miller Thursday November 2, 2017



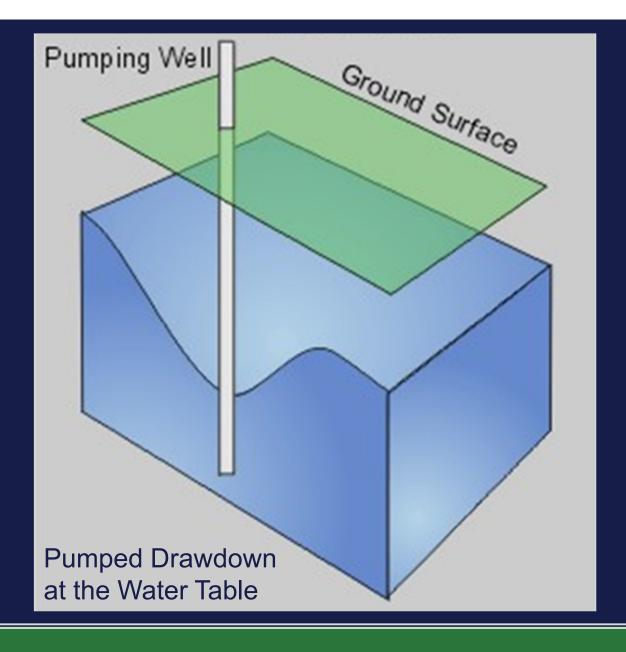


Reasons for A New Well

- Failure/Replacement
- Additional Quantity
- Water Quality

 Finding a well to meet your needs is becoming harder and harder....



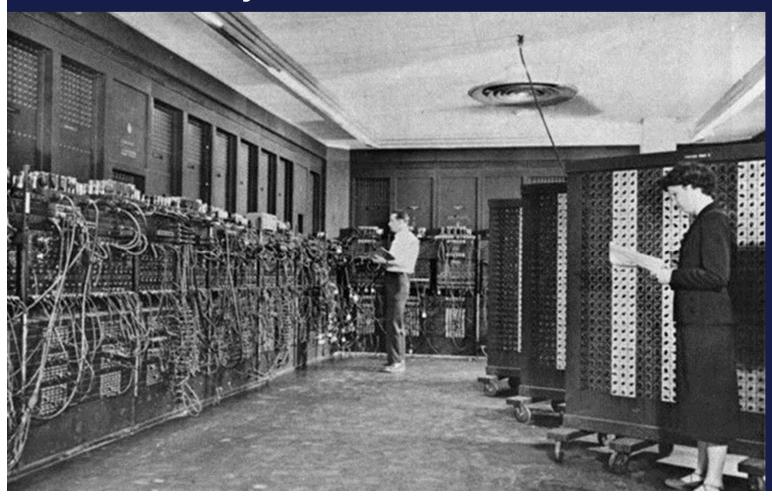


Vertical Well System



Tools Can Assist Us!

 Geographical Information System (GIS) has made our job a little easier





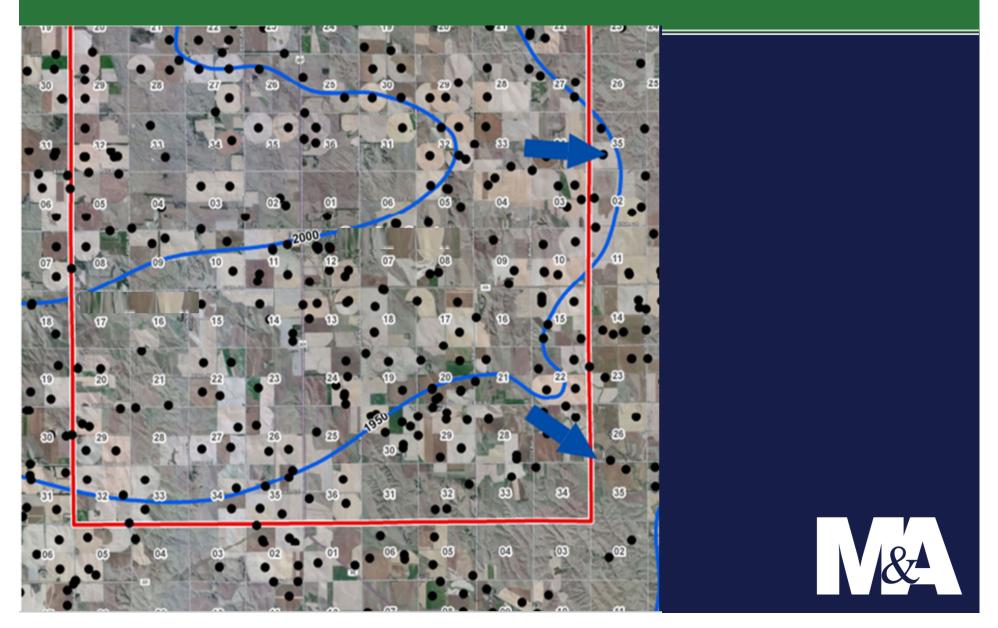
We are going to walk through an example of a project where the community has an existing WTP and needs to renovate it completely. The community wanted to evaluate the cost for a new source –VS-renovations.



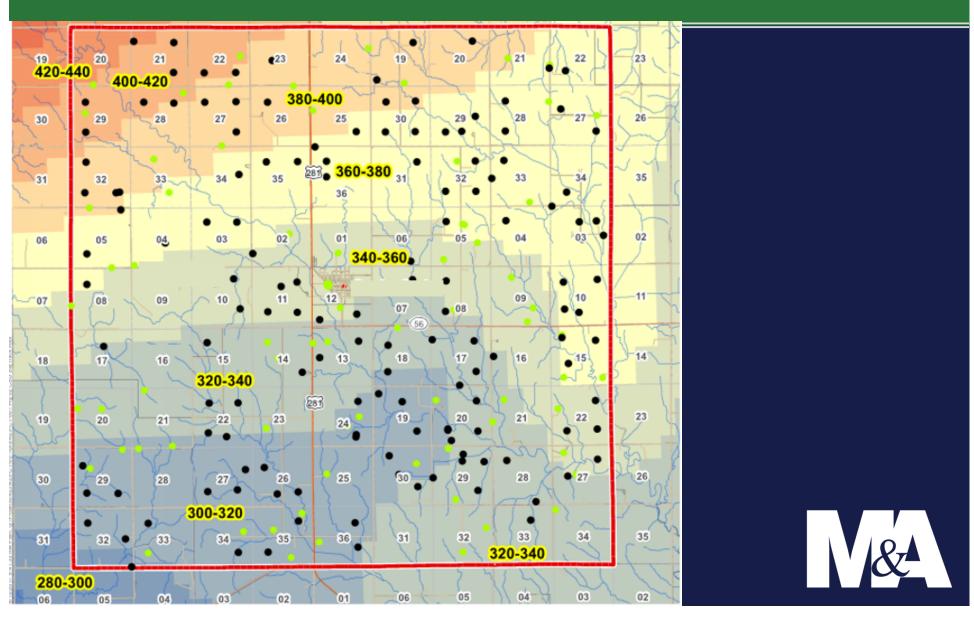
Example

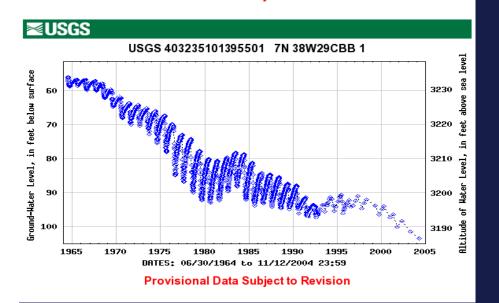


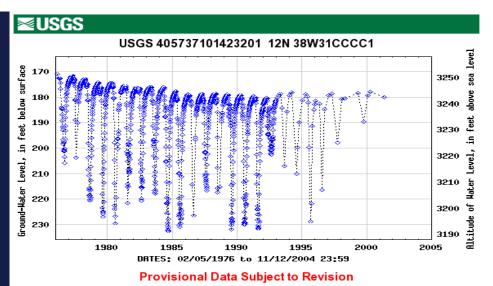
Well and GW Flow Direction

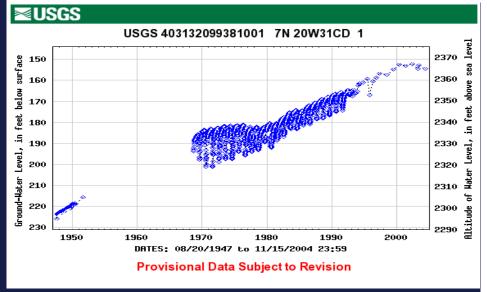


Saturated Thickness



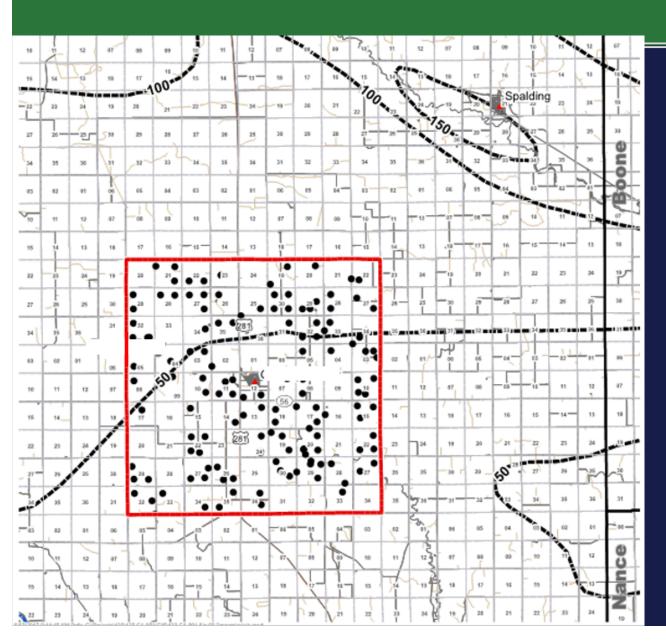






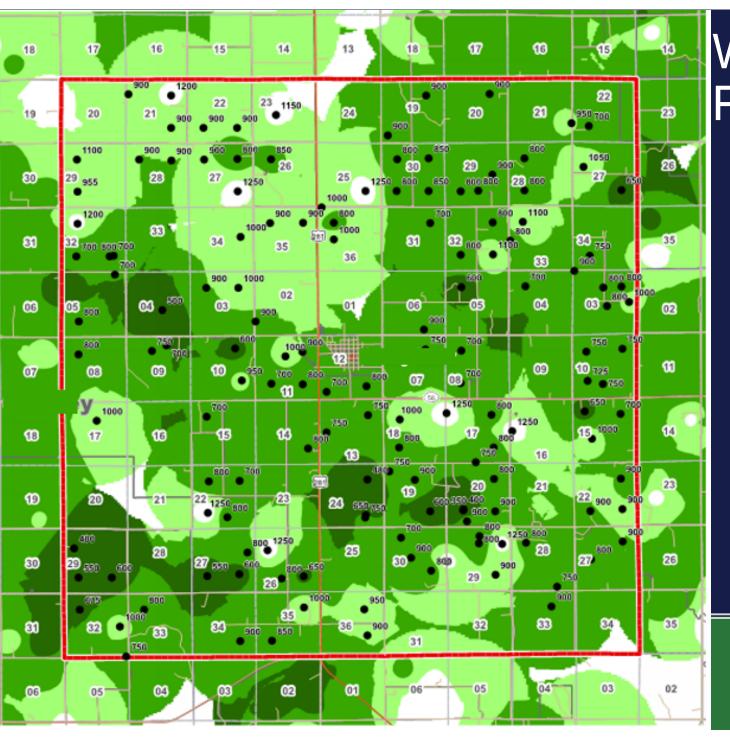
Historical Water Level Records





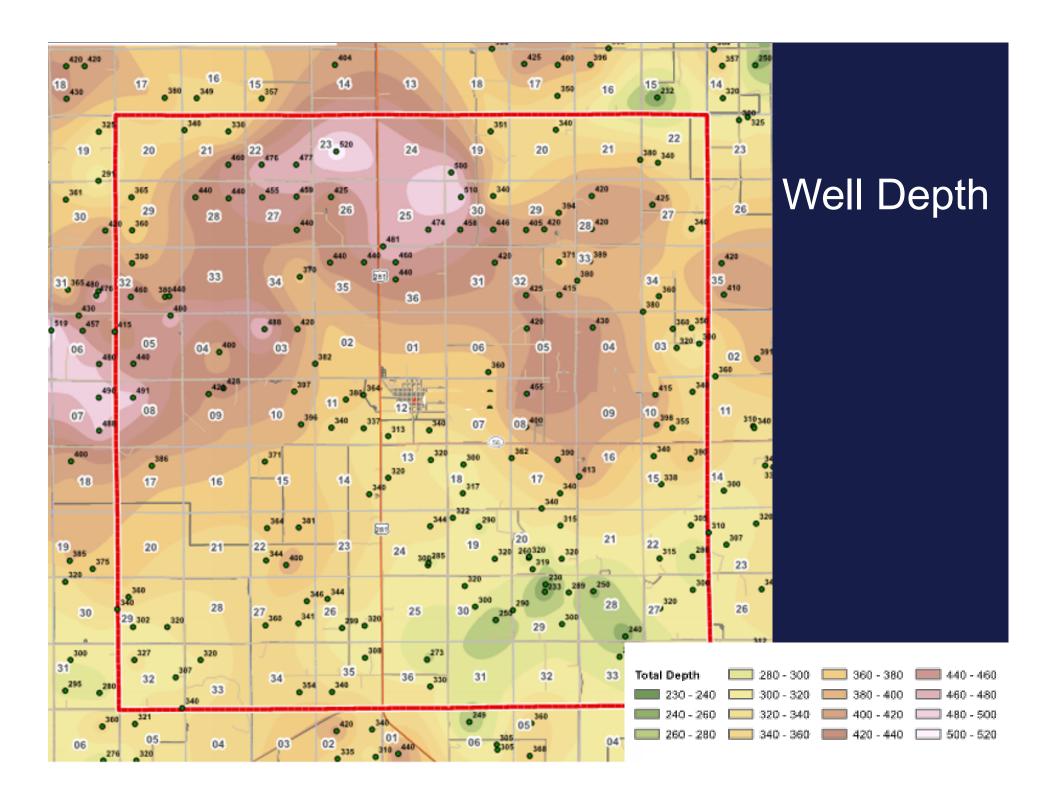
Transmissivity (water movement)



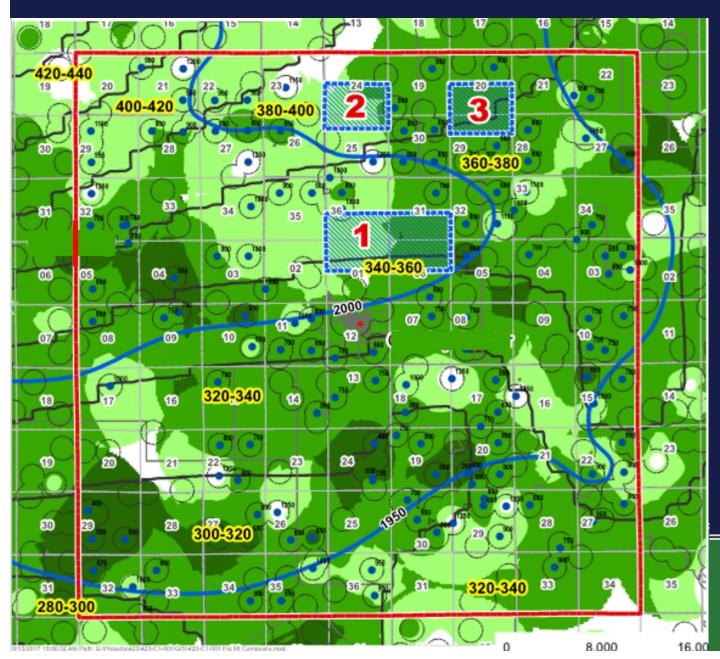


Well Production

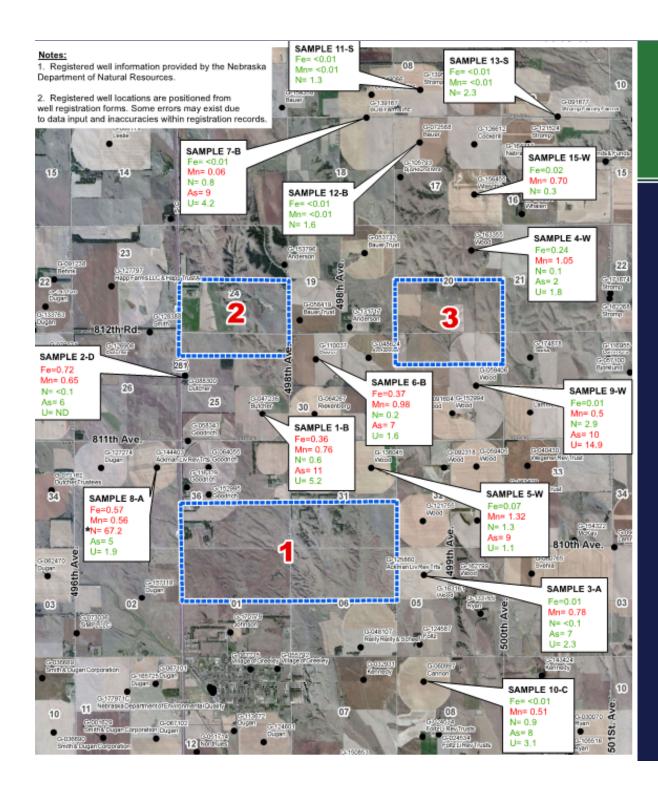




Composite Map







Quality – Sample Collection



