GEOTHERMAL Pump & Reinjection

High Capacity Wells

What You Need to Know...

Iowa DNR Water Use and Allocation
Water Supply Engineering
Wallace State Office Building
502 E 9th St
Des Moines, Iowa 50319

Are you considering Pump & Reinjection?

? WILL you be pumping at or above 500 Gallons per Minute (gpm)?
? ARE there nearby Private Wells, Other High Capacity Wells or Industrial Wells?

Know your well’s geology, aquifers & water-bearing formations:
- Bedrock - dolomite, limestone, sandstone
- Alluvial or Buried sands and gravel
- Protected aquifers such as:
  - Jordan Sandstone (Ordovician)
  - Devonian Limestone
  - Silurian Dolomite
  - Dakota Sandstone (Cretaceous)

WHY is this IMPORTANT?

... Protect your well
... Protect your neighbor’s well
... Protect Iowa’s Ground Water

To Obtain a Water Use Permit for a High Capacity Well

✓ Provide map of proposed irrigation well site
✓ Provide map inventory of wells and well construction details within a 1 mile radius
✓ Contact us prior or during construction for pump testing guidance based upon your geological setting
✓ Submit results of any required pump testing – including production well and observation well(s)
What Permits do you need?

County Private Well Construction Permit
 Your local Iowa Certified Well Driller

DNR Water Use & Allocation Permit
 DNR – Water Supply Engineering – Water Use & Allocation Team

Contact:

DNR Water Supply Engineering
Water Allocation & Use (WSE- WAT)
http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Water-Supply-Engineering/Water-Allocation-Use

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 (515) 725-0336

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 (515) 725-1644

DNR – Private Well Program
http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Private-Well-Program

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 (515) 725-0237

Additional Resources for
Well Mapping Resources
Iowa Geological Survey - GEOSAM
https://geosam.iuir.uiowa.edu/home

Iowa DNR - Technical Bulletin 23.1 – SD 0014