

586743

County St. Louis
Quad Boulder
Quad ID 267C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031

Entry Date 12/22/1998
Update Date 06/14/2017
Received Date

Well Name THORSEN,	Township 52	Range 14	Dir Section W 5	Subsection ACDCBA	Well Depth 114 ft.	Depth Completed 114 ft.	Date Well Completed 00/00/1989
Elevation 1401	Elev. Method LiDAR 1m DEM (MNDNR)					Drill Method Air Rotary	Drill Fluid
Address Well 4385 VAN RD DULUTH MN 55803					Use domestic	Status Active	
Stratigraphy Information Geological Material From To (ft.) Color Hardness ASSORTED GLACIAL 0 114 BROWN MEDIUM					Well Hydrofractured? Yes ☐ No ☐ From To		
					Casing Type Single casing Joint		
					Drive Shoe? Yes ☐ No ☐ Above/Below		
					Casing Diameter 6 in. To 110 ft. 18.97 lbs./ft.		
					Weight 6 in. To 110 ft.		
					Hole Diameter 6 in. To 110 ft.		
					Open Hole From ft. To ft.		
					Screen? ☒ Type stainless Make JOHNSON		
					Diameter Slot/Gauze Length Set		
					3 in. 12 5 ft. 110 ft. 114 ft.		
Static Water Level 30 ft. land surface Measure 00/00/1989							
Pumping Level (below land surface) 100 ft. 2 hrs. Pumping at 4 g.p.m.							
Wellhead Completion Pitless adapter manufacturer MAASS Model 6J1 ☐ Casing Protection ☒ 12 in. above grade ☐ At-grade (Environmental Wells and Borings ONLY)							
Grouting Information Well Grouted? ☒ Yes ☐ No ☐ Not Specified Material Amount From To bentonite 10 Sacks 0 ft. 30 ft.							
Nearest Known Source of Contamination feet Direction Type Well disinfected upon completion? ☐ Yes ☐ No							
Pump ☒ Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ							
Abandoned Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No							
Variance Was a variance granted from the MDH for this well? ☐ Yes ☒ No							
Miscellaneous First Bedrock Aquifer Quaternary Last Strat Quat. deposit-brown Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 565375 Y 5207593 Unique Number Verification Address verification Input Date 05/01/2017							
Angled Drill Hole							
Well Contractor Aqua Systems 69438 MADISON, J. Licensee Business Lic. or Reg. No. Name of Driller							

Remarks