



Permit No.: VL_____

Bored Geothermal Heat Exchanger (BGHE) Construction Record

BGHE Location

County		Township Name		Property Identification No.	
Township No.	Range No.	Section No.	Qtr	Qtr	Qtr
Street Address		City	State	ZIP Code	

Provide GPS coordinates for the location where each pipe loop enters the drilled hole or GPS coordinates marking the corners or perimeter of the loop field. Attach additional pages if needed.

Coordinate Type: ☐ Decimal Degrees (provide 6 digits after decimal) ☐ Degrees, Minutes, Seconds

1. ☐ Pipe Loop ☐ Corner	Latitude _____	Longitude _____
2. ☐ Pipe Loop ☐ Corner	Latitude _____	Longitude _____
3. ☐ Pipe Loop ☐ Corner	Latitude _____	Longitude _____
4. ☐ Pipe Loop ☐ Corner	Latitude _____	Longitude _____

Property Owner (If BGHE Owner is different, provide their name and address on an attached sheet.)

Property Owner Name			
Street Address	City	State	ZIP Code

BGHE Construction Detail

Date Work Completed _____	Total Depth (feet) _____
☐ Vertical Bore Hole(s)	☐ Directionally Drilled Bore Hole(s)
Drilling Method: ☐ Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____	
Drilling Fluid _____	
Number of Bore Holes _____	Number of Pipe Loops per Hole _____
Bore Hole Depth(s) _____	Hole Diameter(s) _____
Bore Hole Length(s) (For directionally drilled bore hole[s].) _____	
Static Water Level _____	☐ Above ☐ Below Land Surface Date Measured _____

BORED GEOTHERMAL HEAT EXCHANGER (BGHE) CONSTRUCTION RECORD

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Geological Material	Color	Hardness of Formation	From	To

Piping: ☐ High Density Polyethylene ☐ PEXa ASTM Standard _____ Diameter(s) _____

If HDPE pipe used, piping joints: ☐ Butt Fusion ☐ Socket Fusion ☐ Electrofusion

Grout: ☐ Neat Cement ☐ Cement Sand ☐ Thermally Enhanced Bentonite ☐ Bentonite

Grout Interval(s) (feet) _____

Bentonite or Thermally Enhanced Bentonite Product Name _____

Enhancement Material (for Thermally Enhanced Bentonite): ☐ Sand ☐ Graphite

Marking Method: ☐ Tracer Wire ☐ Underground Marking Tape ☐ Ferromagnetic Metal Markers

Heat Transfer Fluid: ☐ Potable Water ☐ Propylene Glycol ☐ Ethanol-Water Solution (<=20% ethanol)

☐ Propylene Glycol with Additives (Must be NSF HT1 Certified.)

Product Name (if not potable water) _____

Heating/Cooling Capacity (tons) _____ **System Operating Pressure** (psi) _____

Test Pressure (psi) _____ **Test Duration** (minutes) _____

BGHE Maps

Attach a scaled map that shows the location where each BGHE pipe loop exits the drilled hole and directions relative to surveyed property corners, a permanent benchmark, or the corner of a permanent structure. For directionally drilled bore holes, also attach a scaled map showing the location of the entire length of each pipe loop and a cross-sectional profile showing the depth profile of the pipe loops.

Contractor Certification

This BGHE was constructed under my jurisdiction and this report is true to the best of my knowledge and belief.

Company Name Company License No.

Certified Representative Signature Certified Representative No. Date

Name of Driller Name of Heat Pump Installer (if different)

Information provided on this form is classified as public information under Minnesota Statutes, chapter 13.

To obtain this information in a different format call 651-201-4600.

Wells\BGHE Construction Record 03/24/2021R