

Eagle Drilling Services, LLC

We are the core of your success...SM



GROUND SOURCE HEAT EXCHANGE

With the purchase of a Sonic Drill rig, Eagle now has the capability to install Geo Loops for Ground Source Heat Exchange (GSHE) systems.

GSHE systems take advantage of the stability of underground temperatures. A GSHE system differs from conventional heating and air conditioning systems by transferring earth's stored energy. As energy costs continue to rise and pollution concerns continue to be a hot topic, GSHE systems hold a solution to both of these concerns.

GSHE offers high efficiency and low operating cost. According to the EPA, GSHE systems can save building owners 30 to 70 percent on heating and 20 to 50 percent on cooling costs over conventional systems.

Installing a GSHE system is environmentally responsible. Since a GSHE system merely transfers heat from the ground into your building in winter and reverses the process in the summer, you reduce the need to burn fossil fuels or run your AC compressor to create a comfortable interior environment.

Sonic Drill Rig - SDC550-18

Why use a Sonic Drill Rig?

The sonic drilling technology combines harmonics (vibration) and rotation as the basis for tool advancement. Sonic drilling uses water as the fluid medium as opposed to mud rotary, which uses mud.

Sonic drilling reduces Investigation Derived Waste by approximately 70% in most formations as compared to mud rotary methods. Core recovery from sonic drilling is greater than 90% on average. Sonic drilling saves time. Core recovery rates are consistently high without loss of time. The core is collected in 5 to 10 foot sections.

Eagle's Sonic Drill Rig is:

- Track mounted making it very robust with all terrain capabilities
- 400 feet of 5½" Drill casing, 100 feet of 3 ½" drill rod, 1 – 3 ¼" x 11' single wall (soil) core barrel and 1 – 3 ¼" x 11' double wall (rock) core barrel equipped for:
 - Geotechnical/environmental drilling with continuous sampling to 100 feet of depth
 - Installing 2" monitoring wells up to 400' deep. Larger diameter wells (up to 4") could be installed by purchasing 8" diameter pipe, and up to 6" wells could be installed by purchasing larger diameter pipe and a larger breakout table. These types of investments would be considered for larger projects.
- Automatic SPT hammer installed allowing SPT and California samples to be obtained with blow counts for geotechnical and/or environmental applications.

**For more information on Sonic Drilling or Ground Source Heat Exchange, e-mail Eagle Drilling Services, LLC.
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