



Drilling with Green Sonic Technology

Modern sonic drilling technology was first patented by Canadian engineer, Ray Roussy.

Today, this patented technology is only available in drilling rigs built by the Sonic Drill Corporation.

The Sonic Drill Corporation recently won a prestigious award for “best new drilling technology” from the Canadian GeoExchange Coalition.

Sonic rigs:

- Drill 3-5X faster than other rigs
- Drill using only water or air.
- Don't require drilling mud.
- Produce 70% less mess on-site.
- Reduce on-site clean up costs.
- Drill to 300 ft. and beyond.



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Sonic rigs have become known around the world for their ability to “buzz” easily through mixed soils without jamming.

However, if you compare a sonic rig to a conventional air rotary rig, you'll also notice a big difference that makes this technology both "green" and cost-effective.

- Sonic rigs use 50% less horsepower while still drilling faster. This means that fuel consumption, on a hole to hole basis, is considerably less.
- Sonic rigs engines are physically smaller and lighter, further reducing fuel consumption when moving the rig around.
- Sonic rig engines never exceed 1850 rpm, keeping noise relatively low and the engine running in an efficient rpm range.
- Sonic rigs can use “green” hydraulic oil that will not harm the environment.

A recent geothermal drilling project produced this boulder which the sonic drill easily “buzzed” through.



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Sonic drill rigs are in use in South America, Europe, Africa, Asia and across North America. Without question, they have become **the perfect tool for geothermal installations.**

In 2006, a geothermal installation at Langara community college in Vancouver, Canada, became the setting for **a duel between old and new technology.** After encountering difficult soil conditions, the sonic was brought in as the “rescue rig” for the project. The numbers below explain why.

Conventional rig:

- *Three rigs on site*
- *Two months drilling*
- *18 holes installed*



Sonic rig:

- *One rig on site*
- *Two weeks drilling*
- *23 holes installed*