

## Tolteq Hellfire iSeries MWD Tool



Tolteq™ Hellfire iSeries MWD successfully run in Hot-Hole 200°C, 5447m deep Geothermal well in France

### Technology

Our Tolteq™ iSeries tools are the leading independent probe-based MWD tools available to the directional drilling market, with more than 600 tools sold and operated on all 6 active continents of the globe. The iSeries is the ideal tool for geothermal applications with its maximum operating temperature of 175°C and survival temperature of 185°C. In the retrievable configuration, the iSeries MWD tools offer the ability to recover the tools in the event of a stuck pipe situation.

### Challenge

A geothermal operator in France identified the opportunity to minimize drilling costs by performing their own directional drilling, but given the wells were deep with static temperatures above 200°C and vibration was commonly experienced, a proven and reliable MWD tool was required. Additionally, given COVID-19 travel restrictions an easy-to-use system with remote support capabilities would be needed.

### Results

NOV offers the iSeries MWD tools under both sales and rental models and was able to quickly mobilize a set of tools for the operator to meet their drilling schedule. The well drilled reached a measured depth of 5447m and the iSeries MWD tools were able to deliver reliable and decodable pulses despite high temperatures and difficult drilling conditions. The combination of the reliable iSeries MWD technology, comprehensive training and remote support enabled the customer to successfully directionally drill the well to TD themselves and help reduce their total well cost.

