CASE HISTORY
MagTraC UTILIZED FOR GEOTHERMAL RELIEF WELL

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<td>Geothermal Relief Well</td>
<td>MagTraC MWD Ranging™ and Electromagnetic (EM) gyroMWD</td>
<td>Japan</td>
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CUSTOMER CHALLENGE
The customer’s well was venting acidic steam and H₂S gases at surface. It is known that this shallow zone is acidic; containing gases and fluids, but the lower zone contains natural steam.

The customer’s objective was to drill a relief well with a targeted interception near the bottom of the zone at approximately 700 m TVD, thereby bypassing the acidic zone and tapping directly back into the natural steam.

SCIENTIFIC SOLUTION
Scientific Drilling’s office provided 24/7 support with a truly international team from the Philippines, Norway, Thailand, Canada, US and UK. After the 17 1/2” hole section was completed within 21 hours, SDI used our EM gyroMWD technology in the high angle mode along with our proprietary MagTraC MWD Ranging™ service, to confirm the position of the target well and complete the 12 1/4” hole section to 618 m. The 8 ½” hole section was successfully intercepted at 714 m. After additional magnetic ranging, the customer was confident the relief well was successful.

CUSTOMER VALUE
MagTraC MWD Ranging™ service successfully detected the target wellbore and provided accurate positional data enabling the planned interception. The customer’s successful relief well eliminated the risk of additional gas leaks and safely resumed production from the steam reservoir.