

Well placement and drilling optimization measurements

FEATURES

- Faster survey and ranging determination
- Downhole power generation with no batteries
- Extended detection distance
- Single BHA run with no additional trips
- Definitive-grade pumps-off static surveys, continuous inclination, and azimuth measurements
- Real-time and recorded data processing
- High-resolution survey sampling (10 ft in real time, 1 ft in recorded mode)
- Real-time survey correction and QC processing

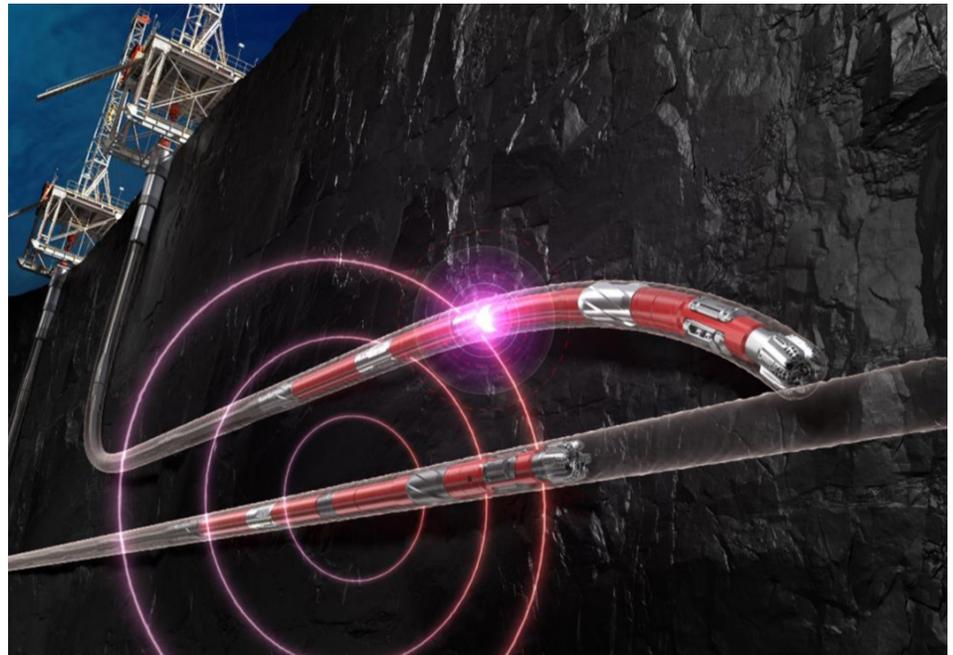
BENEFITS

- Detection distance >120 m
- High radial accuracy
- No RMS subs for improved steerability
- Ranging data acquisition during rig connections in receiver BHA
- 3-minute pumps-off period reduces electronics exposure to heat
- No intercept BHAs or reconfigurations
- Integrated into rotary steerable system (<3 m from bit)
- Turbine-powered transmitter
- High-definition ultrasonic imaging
- Advanced pressure-while-drilling capabilities
- Real time downhole drilling dynamics (WOB/TOB)

ISTAR® DRILLING AND LOGGING PLATFORM

RangeStar™ geothermal well spacing and intercept service

Fast, reliable ranging determination backed by field-proven technology.



Overview

The RangeStar™ Geothermal Well Spacing and Intercept Service, a part of the family of RangeStar™ magnetic ranging goods and services, helps operators unlock geothermal energy potential with fast, reliable, and fully integrated ranging detection that supports current operations and aligns with automation workflows.

Speed, distance, and accuracy

The RangeStar Geothermal Well Spacing and Intercept Service supports efficient decision making with a detection range up to 130 m and reduces ranging determination time from hours to minutes. The system detects the target within feet of the bit and helps operators optimize well placement as it maintains consistent accuracy in any formation. Its magnetic signal remains stable and unaffected by depth or distance, and avoids signal bleed off.

The ability to rotate during GuideStar® continuous definitive survey measurements improves hole cleaning efficiency and provides high quality data faster and under improved downhole conditions.

Integrated, reliable, and simplified operations

The RangeStar Geothermal Well Spacing and Intercept Service is an all-inclusive bottomhole assembly solution that removes the need for multiple tools and provides both short- and long-distance detection in one system. Its downhole power generation system removes the need for batteries, supports reliability in harsh environments, and simplifies logistics compared with battery-dependent alternatives.

Built on proven concepts from the Magnetic Guidance Tool (MGT™) and the BaseStar® integrated drilling optimization service, the RangeStar service combines operational efficiency and directional performance in a system that operators can rely on, and offers flexibility to add survey functions through the GuideStar continuous definitive survey measurements service.

Seamless integration and automation

The RangeStar™ Geothermal Well Spacing and Intercept Service operates as a comprehensive solution from a single provider. Data integrates across rigs and survey systems through Data Exchange (DEX™ computer software) and a unified common database, which supports streamlined operations and consistent survey efficiency. The system's forward-looking design supports automation-enabled ranging detection and workflows. LOGIX™ automation and remote operations platform can trigger surveys, power on, capture measurements, and return instantly to drilling without manual intervention.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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