

FEATURES

- 40-year history of well intersections
- Over 300 successful relief wells, abandonment, and complex completions projects
- Unmatched expertise with a typical crew having over 2500+ days of well intercept field experience
- Optimizes wellbore positioning to intersect without direct access
- Mitigates compounding error sources by providing a relative proximity measurement
- Provides accurate measurements at a greater distance than other “no-access” solutions

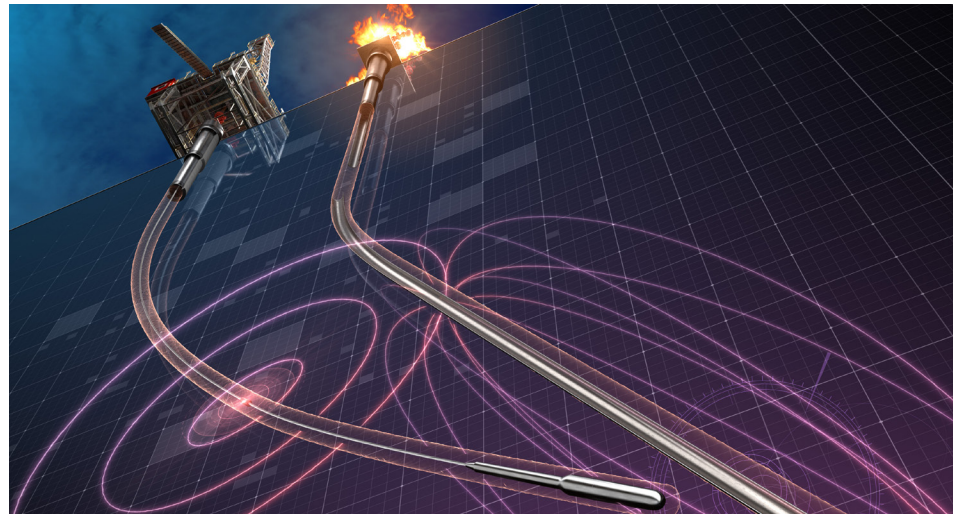
BENEFITS

- On bottom measurements improve directional control
- Works on steel and non-magnetic tubulars
- Detection range is not impacted by the target well tubular size
- Integrated gyro reference available for low-inclination intercepts
- Deployable in open hole or pipe
- Can be customized to work in most salt formations

MAGNETIC RANGING SOLUTIONS | ACCESS-INDEPENDENT RANGING

RangeStar™ Well Intercept Service

Unmatched expertise in well intercepts



RangeStar™ Well Intercept Service

Overview

With more than 300 well intercepts drilled over a four-decade track record of success globally, the RangeStar™ Well Intercept Service from Halliburton achieves the industry's highest success rate.

The RangeStar Well Intercept Service is used to more precisely position wellbores when access to the target wellbore is not available. The RangeStar service uses a wireline receiver and excitation source. A current is injected into the formation and a distinct magnetic field is produced on the target well. This magnetic field is then analyzed by the receiver providing a distance and direction (magnetic/gravity/gyro) to the target up to 200 ft (61 m) away.

The RangeStar Well Intercept Service provides a discrete ranging measurement that establishes the relative distance and direction between two wellbores. The system does not incur a cumulative surveying error allowing tighter proximities, physical intersections, and re-entries to be achieved.

Applications

- Relief well drilling
- Collision avoidance
- Ghost well detection
- Well abandonment
- Fish bypass
- Wellbore recovery
- Complex completions

Technical specifications*

TOOL	RGR-G III™ (INTEGRATED GYRO)	RGR IV™
Nominal tool OD	2 in. (50.8 mm)	4.5 in. (114.3 mm)
Maximum operating temperature	392°F (200°C)	
Maximum operating pressure	25,000 psi (172 Mpa)	20,000 psi (138 Mpa)
Detection range (20% accuracy)	Up to 200 ft. (61 m)	
Gradient detection (5% accuracy)	Up to 15 ft. (4.5 m)	Up to 30 ft. (9 m)

* Access-Independent Magnetic-Ranging system specifications for size, pressure, and temperature ratings are well defined. However, the detection ranges and accuracy specifications are not dependent as much on the sensitivity of the tool, but on the excitation method and the ability to get current flow on the target well. Usually, different systems are run in the different phases of a ranging well. The excitation method varies depending on the mud type, system used, depth, geometry and geology of the target, and access to the target well. These factors will determine any system's response and expected range limits for a particular relief, twinning, or anti-collision well. Our Magnetic Ranging Experts will determine what solutions are needed for any job or application based on wellbore geometry, mud type, and formation resistivity.

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

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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