DATA SHEET

HALLIBURTON

MAGNETIC RANGING SOLUTIONS | ACCESS-DEPENDENT RANGING SYSTEMS

Rotary Magnet Ranging System (RMRS™)

Access-dependent active magnetic-ranging systems

BENEFITS

- Extensive global experience in Anti-Collision and interception
- Provides greater survey accuracy than conventional surveying technology
- Allows tighter well spacing, including perpendicular approach angles

FEATURES

- Determines well placement with accuracy
- Improves collision avoidance with look-ahead capabilities
- Eliminates influence from outside magnetic sources
- Works at larger separation distances
- Rated to 392°F (200°C)

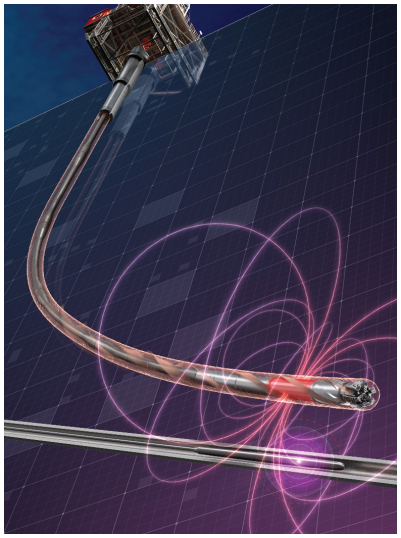
APPLICATIONS

- Stacked horizontal well pairs for steam-assisted gravity design (SAGD)
- Infill drilling and collision avoidance
- Wellbore intersections for well control
- Pipeline Crossings
- Observation well placement
- Coalbed methane degasification wells

The RMRS™ rotary magnet ranging system provides active magnetic ranging to more accurately determine the position of nearby wellbores and reduce survey errors. The RMRS system uses a magnetic bit sub in combination with a wireline receiver to determine the distance and direction between wellbores.

Reliable results with greater well-to-well separation

The RMRS system operates with well-to-well separation distances up to 262 ft (80 m). From the reference or target wellbore, the RMRS sensors detect the magnetic field generated by magnets embedded in the specially equipped extended-gauge bit or bit sub in the drilling or pursuit well.



The RMRS system provides proven results on applications including drilling stacked horizontal well pairs, infill drilling, collision avoidance, and more.

Drilling stacked horizontal well pairs for steam-assisted gravity design (SAGD) offers the range of distance up to 262 ft (80 m) to help drill the wells at the optimal distance from the SAGD pair.

Infill drilling and collision avoidance help operators to place wells at the desired spacing and target placement while mitigating collision risk present with traditional survey methods.

Wellbore intersections for well control are used extensively to successfully drill and intersect two wells from one or more surface locations. Sperry Drilling has deployed RMRS in more than 1000 runs globally.

RMRS™ Specifications

SAMPLE	STANDARD TEMPERATURE EQUIPMENT	HIGH TEMPERATURE EQUIPMENT*
Nominal Tool OD	1.75 in. (44.5 mm)	2.00 in. (50.1 mm)
Minimum Tubing ID	2-7/8 in. (73 mm)	2-7/8 in. (73 mm)
Maximum Tubing ID	NA	NA
Length	48 in. (1.2 m)	91 in. (2.3 m)
Pressure	15,000 PSI (102 kPa)	25,000 PSI (172 kPa)
WL Connection	1-3/16 in. - 12 GO-Head	1-3/16 in. - 12 GO-Head
Maximum Operating Temperature*	257°F (125°C)	392°F (200°C)
Accuracy 0 to 82 ft (0 to 25m)	5%	5%
Accuracy Beyond 82 ft (25 m)	10%	10%
Maximum Range**	Up to 262 ft (80 m)	Up to 262 ft (80 m)
BHA COMPONENTS		
Hole Size Range	3-7/8 in. (98.4 cm) and Larger	
BHA Connection	2-3/8 in. Reg and Up	
Nominal Length	1.5 ft (0.45m)	

***For temperatures beyond 257°F (125°C) higher temperature options are available upon special request, usage beyond 392°F (200°C) is common**

****Extended ranges over 426 ft (130 m) are available upon special request**

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

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