

MAGNETIC RANGING SOLUTIONS | ACCESS-DEPENDENT RANGING

RangeStar™ Rotating Magnet Well Positioning Service

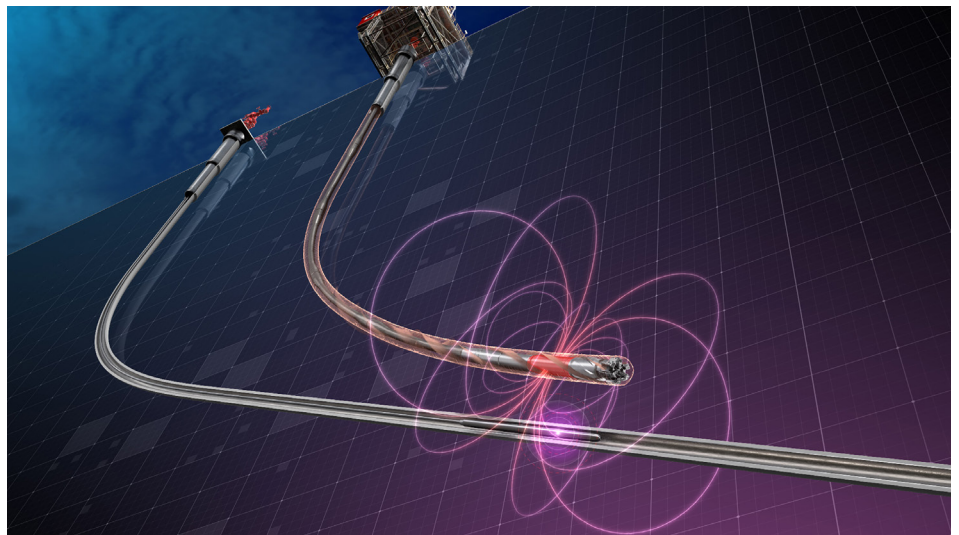
Access-dependent active magnetic-ranging systems

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)



RangeStar™ Rotating Magnet Well Positioning Service

Overview

The RangeStar™ Rotating Magnet Well Positioning Service 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 RangeStar Rotating Magnet Well Positioning Service works with well-to-well separation distances up to 262 ft (80 m), which 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 RangeStar™ Rotating Magnet Well Positioning Service provides proven results on applications including drilling stacked horizontal well pairs, infill drilling, collision avoidance, and more.

Steam-Assisted Gravity Drainage (SAGD) wells require a stacked horizontal well pair drilled at the optimal distance. The RMRS system offers a range of up to 262 ft (80 m) for the correct spacing.

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.

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

Technical 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)

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

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

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