

MAGNETIC RANGING SOLUTIONS | ACCESS-DEPENDENT RANGING SYSTEMS

Magnetic Guidance Tool (MGT™)

The industry standard for paralleling wellbores

BENEFITS

- Extensive global experience on SAGD wells
- Provides greater survey accuracy than conventional surveying technology
- Improves collision avoidance while allowing tight well spacing

FEATURES

- Accuracy of less than 5 percent of the separation distance
- Eliminates outside magnetic influences
- Works with smaller separation distances
- No trip of the BHA is required

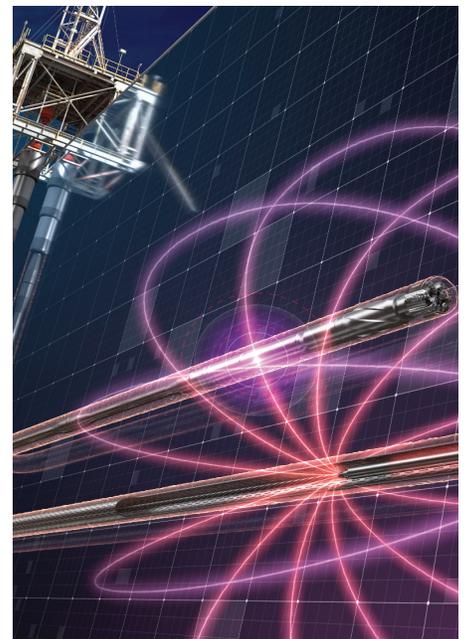
The MGT™ Magnetic Guidance Tool is an active magnetic ranging solution that allows parallel wells to be drilled within highly accurate separation tolerances. The greater survey accuracy enhances safe and efficient placement of two or more wellbores within tight separation tolerances.

Greater confidence in congested conditions

The MGT service, comprising a downhole electromagnetic source and an MWD service, generates a known magnetic field that is read by the MWD service with an accuracy of less than 5 percent of the separation distance. In a SAGD application, this equates to a wellbore position accuracy of less than a foot at 5-m radial distance from the target and results in well pairs that are vertically aligned and at a fixed distance apart. For infill drilling and collision avoidance, operators can place wells in tighter proximities to one another with greater certainty than traditional survey methods.

Advanced technology and experience to stay on course

The MGT service and additional Sperry Drilling active magnetic ranging systems are used to drill the majority of SAGD pairs worldwide, equating to over 3,000 well pairs. The MGT coil containing the electromagnet is conveyed into the well and positioned to align with the adjacent well. Once the electromagnet is energized in the first well, the generated known magnetic field is measured by the MWD sensor in the adjacent well. Outside magnetic influences become negligible, and the data is pulsed to the surface by the MWD sensor in real time to be processed and the distance and directions between wellbores calculated.



MGT™ System Specifications

SAMPLE	VALUES
Nominal Tool OD	2.0 in. (50.8 mm)
Hole Size Range	NA
Minimum Tubing ID	2-7/8 in. (73 mm)
Maximum Tubing ID	NA
Length	16.1 ft (4.9 m)
Weight	120 lb (54.4 kg)
WL Connection	1-3/16 in.-12 GO-Head
BHA Connection	NA
Maximum Operating Temperature*	392°F (200°C)
Maximum Operating Pressure	15,000 psi (103.42 MPa)
Accuracy 0 to 82 ft (0 to 25 m)	5%
Accuracy Beyond 82 ft (25 m)	10%
Maximum Range*	115 ft (35 m)

* Temperature and range can be configured/customized to customer needs.

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

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