

MAGNETIC RANGING SOLUTIONS | ACCESS-INDEPENDENT RANGING SYSTEMS

Passive Magnetic Ranging Service

Locating wells from remnant magnetic fields

BENEFITS

- Save time by running passive and active magnetic ranging on a single wireline run
- Lower the cost of implementation
- Mitigate uncertainty from compounding measurement-while-drilling (MWD) errors
- When run with the GuideStar™ service:
 - Enhance the resolution of MWD surveys
 - Increase precision of magnetic pole detection

FEATURES

- Run in conjunction with active magnetic ranging solutions
- Can run with the WellSpot™ service, MWD tools, or wireline
- Perform all of the analysis remotely

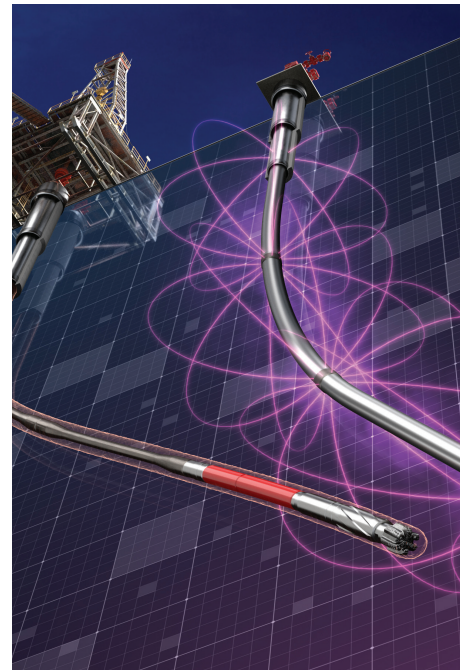
The Passive Magnetic Ranging (PMR) service utilizes the remnant magnetic fields on target well tubulars in order to provide a distance and direction between wellbores. The service provides a less invasive solution compared to alternative Active Magnetic Ranging techniques.

The service can be run with a standard measurement while drilling (MWD) tools, or with GuideStar™ the definitive survey measurement service from Halliburton, to ensure the drilling does not stop. If higher density data is required, a dedicated wireline logging run can also be preformed.

The Passive Magnetic Ranging service does not require access to the target well, can be used in conjunction with Active Magnetic Ranging systems or as a stand-alone system, and can be preformed either onsite or remotely.

APPLICATIONS

- Anti-collision
- Extend distances between active magnetic ranging runs
- Ranging in applications not feasible for active ranging technologies
- Steering around a fish



PMR System Specifications

DATA ACQUISITION METHOD*	WELLSPOT	MWD/GUIDESTAR
Nominal Tool OD	2.0 in. (50.8 mm)	For details, see Sperry Drilling services or third-party MWD documentation
Maximum Temperature	392°F (200°C)	
Pressure	25,000 psi (132.37 MPa)	
Detection Range	Varies based on the target pipe or casing condition, length, weight, and the geometry of the wellbores	

* PMR data is also available with wireline runs.

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

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