**Drill with Certainty**

**Technical Specifications**

- **Range of Accuracy**: ±10% of distance to target
- **Tool Face Direction**: 15 Degrees
- **Data Requirements**: 10-15 MWD check shots - full set of sensor values (check shot spacing dependent upon distance to target)
- **MWD Ranging Time**: Results are typically available 15-30 min after our specialists obtain the data (preliminary results usually less than 15 min)
- **Detection Range**: Dependent on a variety of factors. Please ask for details
- **Ranging Basis**: Magnetic (not electrical) therefore independent on formation type, fluid type, and fracture density
- **Dependent Factors**: Casing weight, casing condition (corrosion), MWD System
- **Additional Influencing Factors**: High Magnetic Interference in final stages intercept may require gyroMWD surveys for accurate directional corrections. EM gyroMWD significantly reduces rig time requirement for data acquisition. SDI’s Electronic Mutifish (EMS) tool improves detection capability with its higher sensitivity; recommended for near bit ranging.

**MagTrac MWD Ranging™**

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*MagTrac MWD RANGING™*

Introducing the Ultimate Wellbore Separation and Intercept Solution
**MagTraC MWD RANGING™**

**DRILL WITH CERTAINTY**

Scientific Drilling’s MagTraC MWD Ranging is the preeminent solution to the industry’s toughest Wellbore Separation and Intercept challenges.

By isolating the earth’s naturally occurring magnetic field from its magnetic interference signature, the distance and direction to the target well or casing, is determined. MagTraC utilizes raw data obtained from MWD telemetry ensuring there are no disruptions to your operation.

**DELIVERING THE ULTIMATE VALUE**

MagTraC delivers the ultimate value by targeting what’s important to you, as it:

- Improves operational efficiency by pairing with all industry’s survey, steering and MWD systems capable of deriving raw data
- Provides remote ranging capabilities enabling data transfer without operational shutdown
- Supports SDI’s proprietary Continuous Btotal™ measurement for real-time magnetic monitoring for early detection
- Mitigates risk and improves safety by reducing the need for on-site personnel

**PROVEN PERFORMANCE**

MagTraC’s extensive resume of proven performance spreads across the globe. It has delivered customer successes in over 450 successful jobs, with nearly 60% being completed in just the past 5 years.

To view our recent successes, or to learn more, go to scientificdrilling.com/MagTraC.

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**CLOSE PROXIMITY**

- Twining
- Handdrilling
- Frac Recovery
- Multipad Drilling

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**WELLBORE SEPARATION**

- Collision Avoidance
- Ghost-Hole Detection
- Close Proximity Drilling
- Kickoff Assurance

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**WELLBORE INTERCEPT**

- Fish Bypass
- Relief Well
- Production Recovery
- Plug and Abandon

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**CONTINUOUS Btotal™**

Utilize Scientific Drilling’s MWD technology for real-time magnetic monitoring.

All For Safety.

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*The Ultimate Partner in Wellbore Placement*