Scientific Drilling International (SDI) is the largest independent service provider offering a complete high accuracy navigation and drilling solution. Globally positioned to support a wide range of markets including Oil & Gas, CBM/CSG, Geothermal, and Mining Industries, SDI is committed to delivering a customer experience that makes it Easy to Do Business.
THE ULTIMATE PARTNER
IN WELLBORE PLACEMENT

Directional Drilling
MWD Services
LWD Services
Drilling Motor Services
Wellbore Surveying
MagTraC MWD Ranging™
Cased Hole Solutions
Engineering Planning
Scientific Drilling's innovative LWD technology provides a reliable, fit-for-purpose, and cost effective solution for the industry's wellbore placement and geological challenges.

With an extensive portfolio of proven LWD technologies, Scientific Drilling can help you increase your production through optimal wellbore placement within the reservoir and significantly reduce well construction costs.

We are proud to design and manufacture all components down to the sensor level, ensuring product integrity and performance. Our commitment to consistently deliver an unparalleled customer experience makes it Easy to do Business.
Our suite of LWD technologies provide a wide range of solutions to target your most complex operations.

**SCI-GAMMA™**
API Natural Gamma Ray

**SCI-GAIN™**
API Natural Gamma Ray and Inclination

**SCI-GUIDE™**
Azimuthal Gamma and Inclination

**SCI-QUEST™**
Propagation Resistivity

**SCI-DRIVER™**
Near Bit Smart Motor
Scientific Drilling's Sci-Gamma is a probe-based, API calibrated sensor that detects naturally occurring gamma radiations from the formation. It has been designed to be fully compatible with SDI's MWD systems and supports all BHA configurations.

On the Bottom Hole Assembly (BHA), Sci-Gamma is placed just above the motor enabling quicker reaction to formation changes.

**DELIVERING THE ULTIMATE VALUE**

- Supports all BHA sizes
- Works seamlessly real-time with both MP and EM MWD
- A high temperature option - rated At 350°F (177°C)

**TARGET APPLICATIONS**

- Shale/Non-Shale Determination
- Lithology Identification
- Offset log and Formation Correlation
- Casing and Coring Point Selection
- Geosteering
The Sci-GAIN is an API calibrated tool that provides radial gamma ray and precision inclination measurements. Sci-GAIN is positioned directly above the mud motor – delivering measurements that are 20-25ft (6-8m) closer to the bit than standard MWD.

Sci-GAIN’s measurements can be utilized by the Directional Driller during the build section for early monitoring of the mud motor output. While rotating, in the lateral, continuous inclination measurements can be used to monitor and maintain the wellbore trajectory.

**TARGET APPLICATIONS**
- Early Monitoring of Mud Motor Output
- Shale/Non-Shale Determination
- Lithology Identification
- Offset Log and Formation Correlation
- Casing and Coring Point Selection

**DELIVERING THE ULTIMATE VALUE**
- Provides precision inclination measurements closer than standard MWD
- Supports all BHA sizes
- Works seamlessly real-time with both MP and EM MWD

**SCI-GAIN™**
API Natural Gamma Ray and Inclination
Sci-Guide provides azimuthal gamma ray and inclination measurements 20-25ft (6-8m) closer to the bit than the MWD. It is an excellent tool for Geosteering - helping to keep the bit within the “sweet spot” of the reservoir.

Sci-Guide is extended and placed just above the motor giving the client enough time to quickly react to formation changes. It can be run with any of SDI’s MWD and LWD systems in all configurations.

**DELIVERING THE ULTIMATE VALUE**

- Provides measurements closer to the bit than MWD
- Supports all BHA sizes
- Works seamlessly real-time with both MP and EM MWD

**TARGET APPLICATIONS**

- Geosteering
- Casing and Coring Point Selection
- Lithology Identification
- Early Monitoring of Mud Motor Output
Sci-Quest is Scientific Drilling’s resistivity technology. The tool has dual spacings (23 in. and 33 in.), operates at 2 MHz and provides four resistivity curves (two phase and two attenuation) with multiple depths of investigation with data acquisition as fast as one reading per second. Sci-Quest Resistivity delivers the ultimate performance required for applications such as geosteering and formation correlation.
Sci- Driver™ is a positive displacement mud motor housing an electronic payload that provides azimuthal gamma ray, inclination, RPM and vibration measurements 9 ft (2.7 m) from the bit. Using proprietary Wi-Sci™ Short-Hop communication, these measurements are transmitted to the surface real-time via Mud Pulse or Electromagnetic MWD.
Sci-Driver delivers high accuracy Azimuthal Gamma & Inclination measurements for geosteering in an unconventional reservoir.

**TARGET APPLICATIONS**

- Geosteering
- Tight Trajectory Control
- Applications such as SAGD
- Early Payzone Detection
- Kickoff Point Identification
- Casing and Coring Point Selection
- Early Monitoring of Motor Yield

**DELIVERING THE ULTIMATE VALUE**

- Provides measurements 6-9 ft (1.8-2.7m) from the bit
- Proprietary “Wi-Sci” Short-Hop-communication for real-time data
- Fully compatible with SDI’s Mud Pulse MWD, EM MWD, and LWD Systems

**ELECTRONIC PAYLOAD**
Provides Azimuthal Gamma, Inclination, RPM, and Vibration measurements.
WELL PLACED

Our LWD technology offers a unique solution for major industry's challenges.

1 FORMATION CORRELATION
Combine Sci-Gamma or Sci-GAIN with our Mud Pulse or EM MWD to provide real-time gamma and inclination for accurate formation correlation.

2 WELL PLACEMENT
Combine Sci-Quest Resistivity with Sci-Gamma or Sci-GAIN for real-time measurements allowing you to target the reservoir with confidence.

3 GEOSTEERING

** Ask about our Sci-Steer™ Geosteering Solution for real-time geosteering in complex reservoirs.
IDEAL CONFIGURATION FOR EFFECTIVE GEOSTEERING IN COMPLEX RESERVOIRS

FALCON MWD
MUD PULSE

SCI-GAMMA™
API NATURAL GAMMA RAY

SCI-DRIVER™
NEAR BIT SMART MOTOR
[ AZIMUTHAL GAMMA & INCLINATION ]
AREAS OF OPERATION

SDI currently operates in 26+ countries, with over 40 locations.

PROVEN PERFORMANCE

SDI has an extensive portfolio of LWD Technology, logging wells in some of the most challenging environments around the world. Our experience spans a wide range of markets, including conventional and unconventional resources.

Visit www.scientificdrilling.com/LWD to view our recent successes.
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