A WELL PAIRED SOLUTION
FOR COMPLEX SAGD OPERATIONS

DRILLING MOTORS

**TITAN22** - PERFORMANCE MOTOR SOLUTION

Tool sizes available: 127.4 mm (5.0 in), 152.4 mm (6.0 in), 167.6 mm (6.6 in)

**Titan TD** - SHORT BIT TO BEND

Tool sizes available: 165.1 mm (6.5 in)

LOGGING WHILE DRILLING

**SCI-DRIVER**™ - NEAR BIT SMART MOTOR 
(Aximuthal Gamma & Continuous Inclination)

Tool sizes available: 86.4 mm (3.4 in), 152.4 mm (6.0 in), 165.1 mm (6.5 in), 203.2 mm (8.0 in)

**SCI-GAIN**™ - NATURAL API GAMMA & INCLINATION

Tool sizes available: 76.2 mm (3.0 in), 101.6 mm (4.0 in), 127.4 mm (5.0 in), 152.4 mm (6.0 in)

**SCI-QUEST**™ - PROPAGATION RESISTIVITY

Tool sizes available: 76.2 mm (3.0 in), 101.6 mm (4.0 in), 127.4 mm (5.0 in), 152.4 mm (6.0 in)

MEASUREMENT WHILE DRILLING

**FALCON MP** - MID PULSE MWD

Tool sizes available: 127.4 mm (5.0 in), 152.4 mm (6.0 in), 167.6 mm (6.6 in), 203.2 mm (8.0 in)

**FALCON EM** - ELECTROMAGNETIC MWD

Tool sizes available: 76.2 mm (3.0 in), 101.6 mm (4.0 in), 152.4 mm (6.0 in), 203.2 mm (8.0 in)

MWD RANGING

**MARKSMAN MAGNETIC RANGING TOOL**™ (MRT™) - ACTIVE RANGING SOLUTION

Tool sizes available: 47.6 mm (1.9 in) and 63.5 mm (2.5 in)

**MagTrac MWD RANGING**™ - PASSIVE RANGING SOLUTION

Accuracy dependent on MWD system utilized (frames): ≤ 10% of distance to target; True Face (Deviation ≤ 6°)

CORPORATE HEADQUARTERS
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A WELL PAIRED SOLUTION
Scientific Drilling delivers the performance and reliability you demand for precision SAGD well placement.

www.scientificdrilling.com/SAGD
THE ULTIMATE PARTNER IN SAGD WELL PLACEMENT

Scientific Drilling is a proven leader in unconventional drilling around the world, delivering innovative technology and experienced personnel for the most challenging well placement applications.

Whether it is the tar sands of Western Canada or the heavy oil reservoirs in Russia, we provide drilling solutions targeting the ultimate return for your complex SAGD operations.

DELIVERING THE ULTIMATE VALUE

We offer a wide range of solutions to support your SAGD challenges:

- Active Ranging providing real-time magnetic ranging data for precise well separation
- MagTrac MWD Ranging™ and magnetized casing solutions for accurate opposing lateral placement.
- High Accuracy LWD Technologies for precision wellbore placement
- High Speed and High Temperature MWD systems with proven reliability allowing you to drill ahead with confidence
- Performance Motors engineered to handle the most extreme environments

PROVEN PERFORMANCE

Scientific Drilling has a resume of proven performance in complex SAGD projects ranging from opposing lateral placement to close proximity drilling with ultra tight separation.

To view our recent successes, visit us at www.scientificdrilling.com/successes.

FALCON MWD
High-Speed and High Temp-MF and EM options available

SCI-QUEST™
Semi-Quant Resistivity available for precision wellbore placement

ACTIVE RANGING SOLUTION

In partnership with Markison Ranging Technologies, SCI’s active ranging solutions is ideal where the target wellbore can be accessed

MagTrac MWD RANGING™
A high-accuracy, active ranging solution is ideal for when the target wellbore can’t be accessed

SCI-GAIN™
Frontline-49 Natural Gamma & inclination

Titan Motor Series
Performance Drilling Motors engineered to handle the toughest drilling environments

SCI-DRIVER™
The 32’ Driller - New 32 foot motor provides high accuracy numerical gamma and continuous inclination 1 oz - 14 oz (0.5 - 1) of the bit