A WELL PAIRED SOLUTION

FOR COMPLEX SAGD OPERATIONS

DRILLING MOTORS

TiTAN22 - PERFORMANCE MOTOR SOLUTION

TOOL SIZES AVAILABLE: 127.00 mm (5.0 in), 165.1 mm (6.5 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 (Azimuthal Gamma & Continuous Inclination)

TOOL SIZES AVAILABLE: 95.3 mm (3.75 in), 120.7 mm (4.75 in), 165.1 mm (6.5 in), 203.2 mm (8.0 in)

SCI-GAIN™ - NATURAL API GAMMA & INCLINATION

TOOL SIZES AVAILABLE: 79.4 mm (3.125 in), 88.9 mm (3.5 in), 120.7 mm (4.75 in), 165.1 mm (6.5 in), 171.5 mm (6.75 in), 203.2 mm (8.0 in), 241.3 mm (9.5 in)

SCI-QUEST™ - PROPOGATION RESISTIVITY

TOOL SIZES AVAILABLE: 120.7 mm (4.75 in), 165.1 mm (6.5 in), 171.5 mm (6.75 in), 203.2 mm (8.0 in)

MEASUREMENT WHILE DRILLING

FALCON MP - MUD PULSE MWD

TOOL SIZES AVAILABLE: 120.7 mm (4.75 in), 165.1 mm (6.5 in), 171.5 mm (6.75 in), 203.2 mm (8.0 in)

FALCON EM - ELECTROMAGNETIC MWD

TOOL SIZES AVAILABLE: 79.4 mm (3.125 in), 88.9 mm (3.5 in), 120.7 mm (4.75 in), 165.1 mm (6.5 in), 203.2 mm (8.0 in), 241.3 mm (9.5 in)

MWD RANGING

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

TOOL SIZES AVAILABLE: 42.164 mm (1.66 in) and 48.260 mm (1.90 in), MINIMUM TUBING ID: 60.325 mm (2.375 in)

MagTraC MWD RANGING™ - PASSIVE RANGING SOLUTION

ACCURACY DEPENDENT ON MWD SYSTEM UTILIZED (RANGE: ± 10% of distance to target; Tool Face Direction ± 5°)

For detailed specifications, please contact your Scientific Drilling Representative or visit us at www.scientificdrilling.com.

Scientific Drilling

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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

Scientific Drilling

THE **ULTIMATE PARTNER** IN WELLBORE PLACEMENT

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.

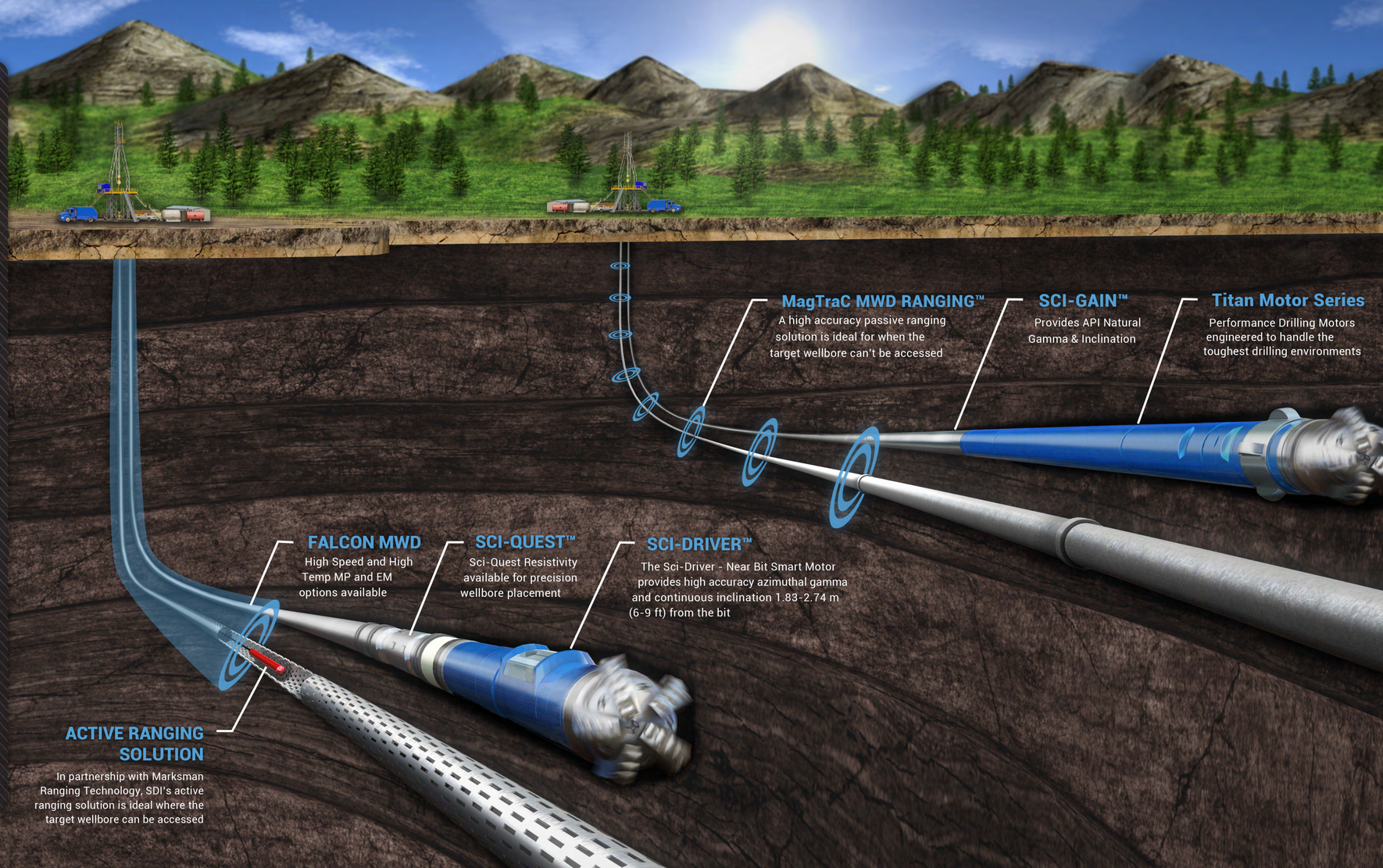
Whether it is the tar sands of Western Canada or the heavy oil reservoirs in Russia, we provide drilling solutions targeting the ultimate return for your complex SAGD operations.

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**.