

RST

ROTARY STEERABLE TOOL

Our RST (Rotary Steerable Tool) was specifically designed to provide a cost effective tool capable of producing complex well trajectories.

The RST is continuously rotating push-the-bit tool, utilizing mud powered electronically controlled thrust pads located close to the bit to create the steering vector. The RST is run with an integral stabilizer to allow it to be run in a variety of borehole diameters, and bottom hole assemblies.

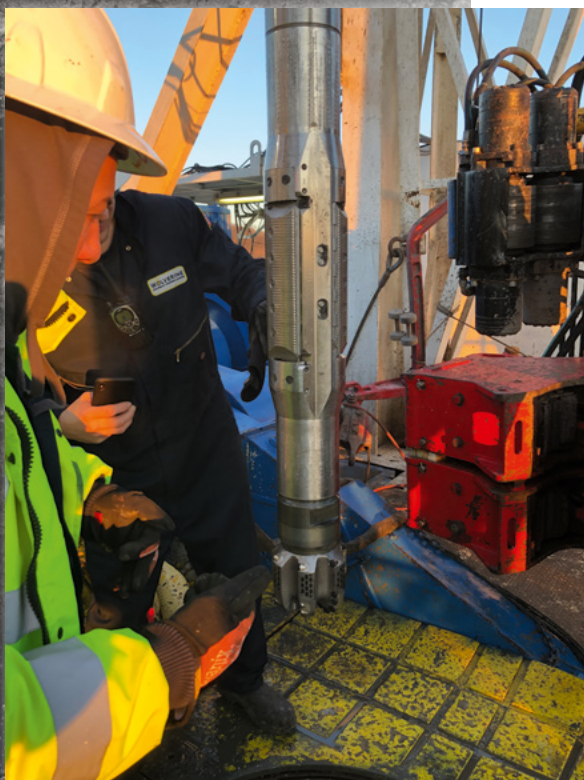
Full and continuous rotation will reduce stick & slip risks, will increase ROP and the quality of wellbore cleanout and will ensure an in-gauge wellbore for better log quality and faster casing and completion running.

FEATURES

- Simple and robust
- Fully rotating
- Push-the-bit configuration
- Thrust pads close to the bit
- Mud-powered and electronically controlled
- Adjustable stabilizer configuration
- Compatible with numerous BHA configurations
- Compatible with a mud motor BHA to increase ROP
- Integration with any MWD system
- Tool setup and control software
- In-built GR & near-bit inclination module



FULL & CONTINUOUS ROTATION



BENEFITS

- Applicable from vertical wells to extended-reach laterals in land and offshore markets
- Optimized steering, drilling performance and directional control
- Better borehole quality
- Increased rate of penetration (ROP)
- Reduced stick & slip risks
- Improved hole-cleaning
- Target depth on time and on budget
- A smooth, in-gauge wellbore for better log quality and faster casing and completion running

CAPABILITY

- Dogleg Severity: 0 - 8deg / 100ft most consolidated formations
- Hole Verticality: no greater than 1.2deg
- Actual capability will be dependent on bit selection, BHA configuration, and formations to be drilled

MECHANICAL SPECIFICATIONS

- Collar size is 4-3/4" with an integral stabilizer diameter of 5-7/8" to 6-3/4"
- Length 33 ft, weight 1400 lbs
- The design is scalable to 6 3/4" and 8" collar sizes
- Hole Sizes: 6" - 6 3/4"

OPERATING PARAMETERS

- Temperature: 300F (150°C) max operating, 350F (175°C) survival
- Rotation: 40 - 180 RPM
- Weight on Bit: 2,000 - 10,000 lbs
- Mud flow rate: 100 - 450 gpm
- Pressure drop at Bit: 200 - 600 psi
- All mud types

SURVIVEABILITY

- Dogleg Severity (Drilling): 15deg / 100ft
- Dogleg Severity (Pass Through): 18deg / 100ft
- Overpull: 1.1 million pounds
- Torque: 10,000 ft-lbs
- Downhole pressure: 20,000 psi
- Shock and vibration: standard MWD requirements

Wolverine Oilfield Technologies is a subsidiary of NewTech Services Holding Limited, an international oilfield services company founded in 2009.

NewTech Services Holding Limited develops technology and expertise within 4 Business Divisions: Drilling Services, Completion Systems, Integrated Project Management and Capital Equipment.

NewTech Services Holding Limited supplies technology products and services to the oil and gas exploration and production industry in Russia and CIS, Europe, Middle East, North and South America.

Wolverine Oilfield Technologies is a subsidiary of NewTech Services Holding Limited specializing in drilling technology products such as MWD/LWD/RSS.

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