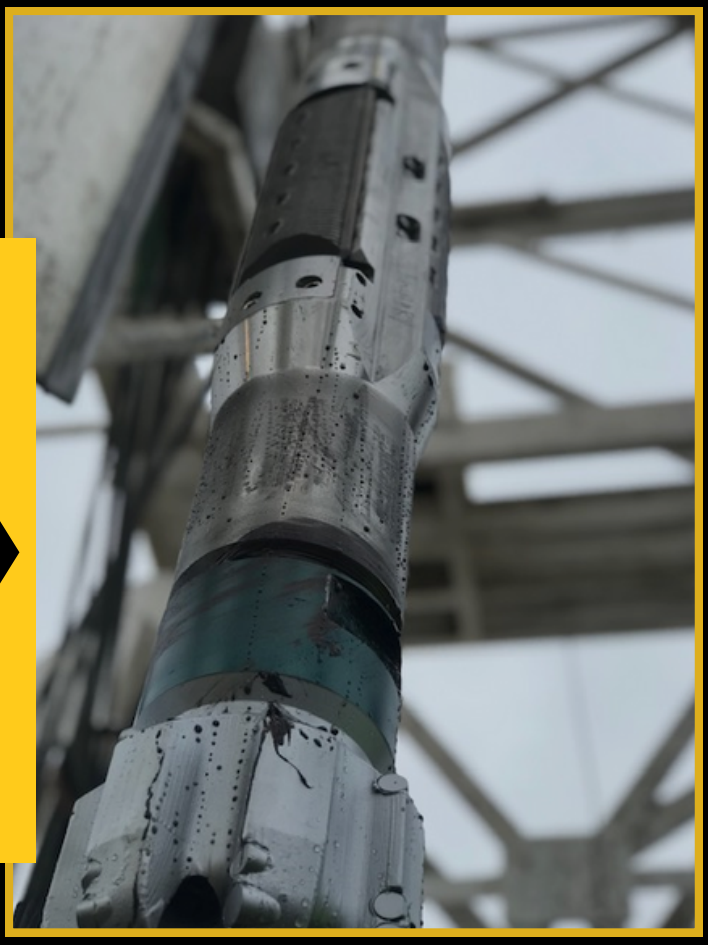
Wolverine
Oilfield Technologies

Zenith™ Rotary Steerable Tool



FEATURES

- Capable of motorized wellbore steering effectively up to 350 RPM
- Bi-Directional communication for quick and accurate response with tool diagnostics in Real-Time.
- Steer on the fly. Quick downlink well trajectory changes while drilling on-the fly.
- When distance matters the intergrated Real-Time toolface and survey gets you near the bit.
- Turbine generator with battery back-up for reduced energy cost
- Shock/Vibration and Stick-Slip monitoring close to the bit from improved drilling performance

HIGH QUALITY DESIGN

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

HIGH RPM, HIGH DLS

Precise control over Three-Pad design allows for higher doglegs when needed while pad actuators allow for high RPM's in straighter tangents.

ECONOMICAL

The Zenith RST is designed to complete the longest of intervals with minimal service time and resources. Field replaceable wear parts allow for servicing WITHOUT leaving the job site.

CONTACT US

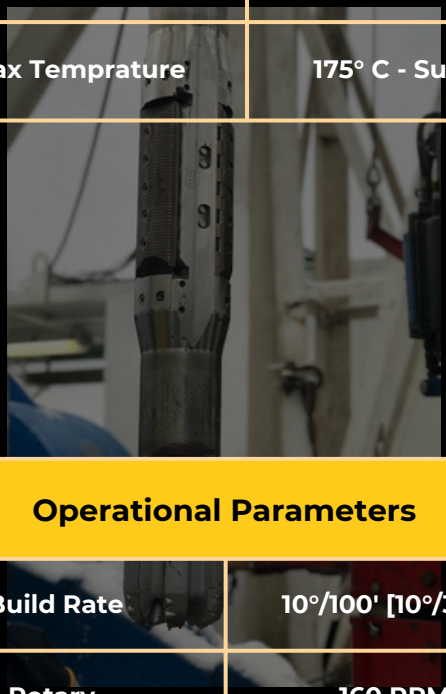
www.Wolverineoft.com
Info@wolverineoft.com
5125 Hiltonview Rd
Houston, TX 77086

6 3/4" Specifications

Wolverine Oilfield Technologies

Operational Parameters	
Build Rate	10°/100' [10°/30M]
Rotary	350 RPM
Weight on Bit	Bit Limited
Flow Rate	300-600 GPM
Torque	16,500 FT-LBS
Pressure Drop at Bit	250-500 PSI
Max Temprature	175° C - Survival

Mechanical Specifications	
Tool OD	6 3/4"
Length/Weight	27.79'/2600 LB
Hole Sizes	8 1/4"- 8 7/8"
Survivability	
DLS - Sliding	16°/100'
DLS - Rotating	10°/100'
Overpull	500,000 LBS



4 3/4" Specifications

Operational Parameters	
Build Rate	10°/100' [10°/30M]
Rotary	160 RPM
Weight on Bit	Bit Limited
Flow Rate	450 GPM MAX
Torque	10,000 FT-LBS
Pressure Drop at Bit	250-500 PSI
Max Temperature	150° C

Mechanical Specifications	
Tool OD	4 3/4"
Length/Weight	33'/1400 LBS
Hole Sizes	5 7/8" - 6 1/8"
Survivability	
DLS - Sliding	15°/100'
DLS - Rotating	18°/100'
Overpull	300,000 LBS