

Geo-Pilot® XL Rotary Steerable System

REDUCE WELL TIME AND STICK-SLIP IN HARSH ENVIRONMENTS

OVERVIEW

The Geo-Pilot® XL rotary steerable system (RSS) from Halliburton Sperry Drilling is part of the Geo-Pilot point-the-bit family of rotary steerable systems. It is specifically designed with a long-gauge bit to handle harsh drilling conditions, including high levels of vibration, shock, and/or pressure surges high-temperature, high-pressure environments up to 347°F (175°C) / 30000 psi (207 mpa), respectively. Additional applications include extended-reach drilling and long-duration intervals, formations with sloughing shales, and high-cost drilling environments in deepwater and mature fields. When access to deepwater and extended-reach reservoirs is limited, operators can upgrade to the Geo-Pilot® Duro™ RSS.

MITIGATE STICK-SLIP WITH LONG-GAUGE BIT DESIGN

Severe torsional vibration can cause irregular rotation of the drillstring, leading to excessive bit wear and stick-slip, causing the bit to become stationary. The long-gauge bit design features more blades and smaller cutters to be able to handle high-torque and steeper angles, reducing the risk for stick-slip. In addition, the Geo-Pilot XL RSS features a torsional efficiency monitor sensor that provides early warning of stick-slip situations. Drilling parameters, such as revolutions per minute (RPM) and weight on bit (WOB), can be adjusted to reduce or eliminate stick-slip, helping operators reduce well time and maximize rate of penetration (ROP), thus maximizing asset value.

INCREASE DRILLING PERFORMANCE BY INTEGRATING A WIRED-MOTOR ASSEMBLY

The Geo-Pilot XL RSS can deliver increased horsepower and RPMs directly to the bit when matched with a GeoForce® power section between the RSS and the logging-while-drilling (LWD) system. The upgraded Geo-Pilot GXT system minimizes casing wear by decoupling the bit speed from the drillstring speed, giving operators the ability to achieve higher ROP.

For more information, contact us at sperry@halliburton.com or visit us on the web at www.halliburton.com

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FEATURES

- » Long-gauge bit design handles high-torque and drills steeper angles
- » Torsional efficiency monitor sensor provides early warning of stick-slip

BENEFITS

Drill to Produce

- » Place wells accurately in harsh drilling environments

Reduce Well Time

- » Withstand torsional vibrations and reduce trips with durable long-gauge bit design
- » Detect stick-slip early by using built-in monitoring sensors
- » Extend time on bottom by reducing excessive torque and maximizing ROP



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