

Geo-Pilot® Duro™ Rotary Steerable System

PLACE WELLS ACCURATELY IN DEEPWATER AND EXTENDED-REACH WELLBORES

OVERVIEW

The Geo-Pilot® Duro™ rotary steerable system (RSS) builds on the proven point-the-bit family of Geo-Pilot systems from Halliburton Sperry Drilling, and is engineered with robust components ideally suited to optimize drilling efficiency, trip time, and mud-losses in deepwater and extended-reach, tortuous environments. Conventional RSS have limitations that complicate efficient access to the reservoir, including the ability to withstand high-pressure, high-temperature (HP/HT) environments, tolerate high concentrations of lost circulation material (LCM), and steer accurately to target depth.

ROBUST DESIGN YIELDS MAXIMUM PERFORMANCE

With its robust, rugged design, the Geo-Pilot Duro RSS takes the Geo-Pilot RSS family to the next level of performance drilling. Its advanced point-the-bit design does not rely on the formation to geosteer, which is especially advantageous in soft formations where maintaining steering and toolface control is often challenging. Upgrades include improved LCM tolerance, larger flow-by area, greater vibration, shock, and stick-slip tolerance. In addition to sophisticated near-bit azimuthal gamma ray and inclination measurements.

SHOE-TO-SHOE DRILLING THROUGH SUPERIOR EXECUTION

Halliburton Drilling Engineering Solutions (DES) teams provide expertise in wellbore placement, design, integrity, and hydraulics to help customers maximize asset value through design excellence and superior service quality. When drilling challenging wellbore designs, especially in deepwater and extended-reach reservoirs, DES collaborates with customers to engineering drilling solutions and deliver shoe-to-shoe performance, accurate well placement, and fast drilling. With the Geo-Pilot Duro RSS, operators can place wells accurately without damaging the formation and reach target depth faster, reducing well time and maximizing asset value.

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

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FEATURES

- » Lower stabilizer with larger flow area
- » Enhanced RPM and wider operating range
- » Strong, self-cleaning reference stabilizer
- » Innovative rotary seals and seal protectors
- » Rugged bearings and electronics
- » New driver sub for higher overload protection
- » Flow-independent power supply

BENEFITS

Drill to Produce

- » Place wells accurately with improved toolface and steering control
- » Optimize drilling performance with true point-the-bit system with proportional and precise steering

Reduce Well Time

- » Drill faster casing-to-shoe, maximizing rate of penetration (ROP)
- » Increase drilling duration at high levels of vibration and shock, with improved stick-slip tolerance
- » Reduce trips by eliminating mud losses with high-LCM tolerance
- » Increase tripping speed