DATA SHEET

Automation Solutions

HALLIBURTON

AUTOMATION AND REMOTE OPERATIONS | AUTONOMOUS STEERING

LOGIX™ auto steer service

Delivers high-quality wells reliably, repeatably, and consistently

FEATURES

- Autonomously steers well to plan
- Integrates real-time autonomous steering
- Compatible with rotary steerable systems (RSS) and motors
- Works seamlessly with iCruise® RSS CruiseControl® technology
- Uses the InSite® real-time platform
- Allows remote execution and multi-well operations
- Provides advanced visualization features and a web-based dashboard for rig, real-time center or customers

BENEFITS

- Achieves consistent and repeatable results with faster, data-driven decisions, and precise control of downhole systems
- Minimizes HSE risk and personnel exposure by transforming drilling services through autonomous well delivery
- Optimizes reservoir contact and borehole quality with accurate well placement while minimizing tortuosity
- Improves supply chain scheduling efficiency through dependable well delivery
- Reduces carbon footprint with remote execution capabilities

Overview

Real-time decisions constantly impact well placement and wellbore quality and an incorrect decision from miscalculations, lack of experience, or outside influences can have costly results such as inconsistent and poor well delivery, or HSE incidents. LOGIX™ auto steer service from Halliburton offers an integrated autonomous drilling solution that drills smart wells consistently, with accurate well-positioning, and superior drilling performance. The LOGIX™ auto steer service orchestrates real-time steering controls, collision avoidance, visualization, and autonomously makes decisions to mitigate drilling dysfunctions and help maximize penetration rates. With the LOGIX™ auto steer service, Halliburton offers a digital transformation that helps reduce operational risk and uncertainty to deliver wells reliably, repeatably, and consistently.

Consistent well delivery

The LOGIX™ auto steer service provides an autonomous drilling system that uses a digital twin and machine learning to steer without human intervention resulting in consistent well delivery. The service helps significantly reduce operational and HSE risks. Environmental sustainability and carbon emission targets can be met with smaller wellsite footprints and reduced well delivery times.

Accurate and repeatable well positioning

The closed-loop control system of the LOGIX™ auto steer service quickly reacts as drilling conditions change downhole using sophisticated algorithms combined with high-frequency downhole data. By autonomously adjusting drilling parameters, the well path, or both, the service ensures the wellbore stays within the desired targets. Continual updates of the downhole environment allow LOGIX™ to deliver repeatable and accurate well positioning.

Superior wellbore quality

The LOGIX™ auto steer service integrates autonomous drilling solutions that enable superior drilling performance on every well. The steering solution autonomously steers the well trajectory, the drilling dynamics solution mitigates vibration while drilling, and the collision avoidance solution provides monitoring and alerts to facilitate safe drilling in environments with a high risk of collision.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com