

LOGIX[®] Autonomous Drilling Platform

DELIVERS HIGH-QUALITY WELLS RELIABLY, REPEATABLY, AND CONSISTENTLY

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. The LOGIX[®] Autonomous Drilling Platform from Sperry Drilling offers an integrated autonomous drilling solution that drills smart wells consistently, with accurate well-positioning, and superior drilling performance. The LOGIX platform orchestrates real-time steering controls, collision avoidance, visualization, and autonomously makes decisions to mitigate drilling dysfunctions and help maximize penetration rates. With the LOGIX platform, Sperry Drilling offers a digital transformation that helps reduce operational risk and uncertainty to deliver wells reliably, repeatably, and consistently.

CONSISTENT WELL DELIVERY

The LOGIX platform provides an autonomous drilling system that uses a digital twin and machine learning to steer without human intervention resulting in consistent well delivery. The platform 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 platform 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 platform ensures the wellbore stays within the desired targets. Continual updates of the downhole environment allow the LOGIX platform to deliver repeatable and accurate well positioning.

SUPERIOR DRILLING PERFORMANCE

The LOGIX platform 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



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

FEATURES

- » Provides new digital infrastructures, digital platform integration, and automation
- » Integrates real-time autonomous steering, drilling dynamics, and collision avoidance solutions
- » 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

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