DATA SHEET

HALLIBURTON

Automation solutions

FEATURES

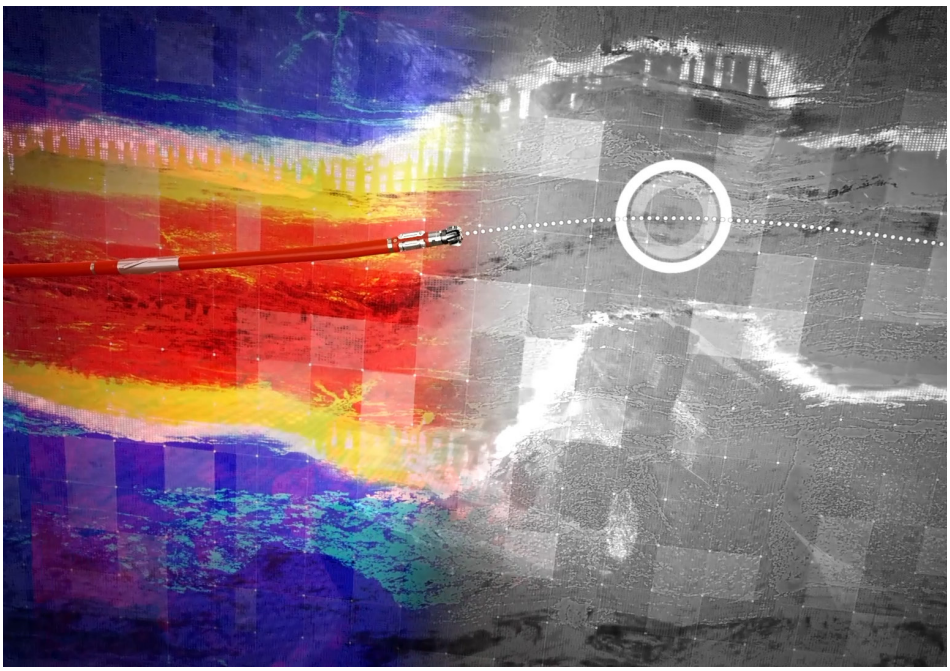
- Use seismic and real-time logging while drilling data for geological model interpretation
- Extract formation dip information from azimuthal LWD images
- Map reservoir boundaries based on resistivity inversion data
- Project geological surfaces based on multisensory input
- Automate the update of drilling targets for optimum well placement
- Integrate with LOGIX™ auto steer to automatically steer the well for accurate well placement and delivery of higher wellbore quality
- Real-time visualization and job monitoring

BENEFITS

- Improves reservoir contact to maximize production
- Faster reaction to geological changes with advanced project-ahead algorithms
- Improves wellbore quality with proactive adjustment of geological targets
- Delivers real-time geological interpretation to reservoir modeling software

LOGIX™ automated geosteering service

Maximize reservoir contact and accelerate well delivery time



Automated interpretation and well trajectory adjustment in real time.

Overview

LOGIX™ automated geosteering redefines geosteering precision with a combination of automation, real-time intelligence, and advanced geological modeling to optimize well placement, maximize recovery, and improve operational efficiency. The service optimizes well placement with use of real-time intelligence and advanced modeling to detect geological variations along the planned well path and updates it accordingly. Early detection reduces geological uncertainty and enables timely, and accurate drilling decisions to keep the wellbore in target zones and maximize recovery. Compatibility with LOGIX™ auto steer improves operational efficiency with a seamless transition between geological target changes and well path updates.

Consistent geological well placement

LOGIX™ automated geosteering automates geological interpretation and decision-making to facilitate accurate, repeatable, and unbiased geosteering results. With real-time automation and intelligence, the system continuously projects ahead to detect geological variations, such as dips, and updates subsurface models. LOGIX™ automated geosteering complements reservoir mapping objectives. It can integrate with the DecisionSpace® earth modeling software to facilitate automated data processing and uniform geological interpretations across different projects and teams.

Reduced geological uncertainty and maximized reservoir recovery

LOGIX™ automated geosteering integrates real-time resistivity, seismic, and formation imaging data to improve geological mapping and optimize reservoir exposure through automated trajectory control. The automated real-time boundary detection continuously updates the geological model to improve model accuracy and enable precise, real-time trajectory adjustments to stay in the reservoir. LOGIX™ automated geosteering uses real-time resistivity inversions and imaging data to identify new pay zones, define new targets, and make informed well placement decisions to optimize reservoir contact.

LOGIX™ automated geosteering interpretation provides real-time data on critical parameters, such as reservoir thickness and fluid contact, to enable faster reservoir production calculations. The automated interpretation of LOGIX™ automated geosteering provides real-time calculations on reservoir thickness and fluid contact. The automated calculations accelerate the time between detection and action to improve consistency and minimize errors. With the automation of the geosteering workflow, operators can instantly respond to geological changes, minimize drilling into nonproductive zones, and improve well productivity.

Faster, more efficient well delivery

The integration of LOGIX™ automated geosteering and LOGIX™ auto steer allows a smooth transition from well path updates to real-time drilling control to improve operational efficiency. Automated geosteering analyzes and incorporates the data from offset wells, geological and seismic data, and real-time drilling and LWD data to improve subsurface insight and enable faster decision-making. By making smaller, more frequent decisions, instead of larger, delayed adjustments, it reduces downtime, improves wellbore tortuosity, and accelerates well delivery. The system minimizes human error and improves wellbore quality. This leads to better reservoir contact and completion efficiency.

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

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