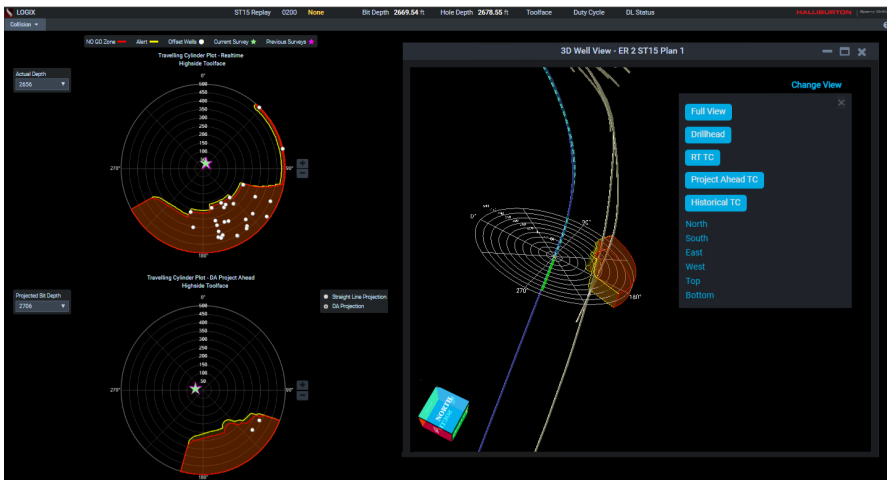


# LOGIX® Collision Avoidance Service

## ENHANCED ANTI-COLLISION CAPABILITIES

### OVERVIEW

As fields become more crowded, drilling wells safely and managing high-risk anti-collision situations has become more complex. The LOGIX® Collision Avoidance Service from Sperry Drilling enables operators to drill wells safely, avoiding financial and environmental damages that may arise from anti-collision situations. The service provides real-time monitoring and alerting capabilities to enable engineering controls in high-risk anti-collision environments. With the LOGIX Collision Avoidance service, customers can analyze and visualize anti-collision situations, receive alerts as needed, and maintain a safe distance from neighboring wells.



### ANALYZE WITH DYNAMIC AND REMOTE DISPLAYS

The LOGIX Collision Avoidance service allows operators to access their wells remotely, receive real-time analysis of anti-collision situations for active wells, and make informed corrective actions to avoid well collisions and safely reach their drilling targets. When interacting with the interface, users can determine how and what to plot or display including a 3D well plan view and 2D and 3D traveling cylinder plots of the active well and selected offset-wells. Surveys and projections are summarized in a table. The plots also show the down hole proximity to offset wells. Traveling cylinders can be set to reference high-side or true north. The real-time traveling cylinder plot updates at each survey station with the current no-go and warning zones. The second traveling cylinder plot shows a 250-ft-long straight line projection. Operators can zoom into areas of interest of the traveling cylinder to facilitate evaluating a collision risk.

For each operation, authorized users can access the service remotely and interact with the system in real time without impeding on other users.

### BENEFITS

- » Minimizes financial and environmental damages associated with anti-collision situations
- » Enables engineering control for high-risk drilling activities
- » Mitigates HSE risks
- » Reduces carbon footprint
- » Provides unlimited secure and remote access

### FEATURES

- » Well monitoring and collision avoidance capabilities
- » Real-time survey monitoring for Sperry Drilling and/or third-party drilling contractors
- » Customizable 3D visualization and displays of multiple wells
- » Adjustable project-ahead features
- » Email alerts for predefined/authorized users (hardline alerts)
- » Customizable dashboard with multiple viewing tools
- » Compatible with any device with a web browser

## ALERTS WHILE DRILLING

Keeping safety at the forefront, the state-of-the-art LOGIX Collision Avoidance service provides real-time, automatic alerts to avoid well collisions and improve operational efficiency. The alert system is activated whenever a calculated real-time survey or straight line projection puts the active well in a no-go or warning zone. The service gives operators control over their active wells through flexible alert delivery. Users can set their preferred delivery method for real-time alerts, which include on-screen pop-ups, email, or text, to accommodate recommended engineering controls.

## AVOID COLLISION RISKS AND DRILL SAFELY

The LOGIX Collision Avoidance service offers operators the flexibility of real-time collision avoidance solutions for both Sperry Drilling and third-party providers.

To mitigate HSE risks while drilling, the LOGIX Collision Avoidance service calculates, in real time, a drilling window to maintain a safe distance from nearby wells. The active well and its proximity to the relevant offset-wells are shown in a 3D plan view. The no-go and warning zones of the traveling cylinder plots are updated at each survey station in real time. Users can adjust the project-ahead features to comply with the company's safety standards, edit the depth referencing along the wellpath, and view and evaluate different scenarios.

For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

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