Real-Time Well Engineering, a DecisionSpace® 365 cloud application, to help manage rigsite operations

Oil and gas drilling is in the midst of an important transition, moving from manual to automated well operations management. The convergence of real-time drilling analytics, such as big data and cloud computing, and other digital technologies is helping make it possible to tune your rig processes for optimal performance and longer producing life.

Now, you can confidently rely on Real-Time Well Engineering, a DecisionSpace® 365 cloud application, to help manage rigsite operations. Built from the ground-up using ground-breaking computation, this smart system automatically detects rig state and seamlessly couples engineering and system uncertainty models in real-time closed looped systems. It also facilitates the automation of broader E&P workflows, and effective operational decisions, which can improve drilling efficiency and performance of downhole tools to reduce well costs.

**AUTOMATED OPERATIONS FOR HIGHER RIG PERFORMANCE**

- **Optimize Your Well Design and Drilling Operation**
  Continuous, real-time monitoring of drilling data can enable early recognition of anomalies or deviations from plan, and applies analytics to re-compute and re-calibrate drilling parameters.

- **Focus Your Valuable Time on Decision Making**
  Automated, digital technologies empower faster and more effective decision making to help mitigate drilling risks and improve performance.

- **Reduce Uncertainty and Enhance Your Prediction Accuracy**
  Deep data, physics-driven analytics feed various engineering models, help train machine learning (ML) models, and inform you of current uncertainty via microservices technology in the cloud.

- **Integrate with Other Applications of Your Choice**
  An open, flexible architecture allows easy connection with 3rd party software applications to analyze drilling efficiency.
REAL-TIME WELL ENGINEERING

BENEFITS

Real-Time Well Engineering helps provide automatic detection of rig state and seamless coupling of engineering and system uncertainty models to facilitate effective operational decisions that aid to deliver successful drilling execution.

INCREASE YOUR DRILLING EFFICIENCY WITH AUTOMATED PROCESSES

Automatically process rig state activities and associated drilling data to help provide accurate engineering calculations in order to re-compute drilling parameters using automatically updated models.

REDUCE YOUR DATA ANALYSIS RUN TIME FROM DAYS TO MINUTES

Advanced modeling techniques using deep data computational physics/algorithms to assist in reducing the time and effort to perform advanced drilling analytics to gauge the level of uncertainty.

MAKE YOUR DRILLING EFFICIENCY DECISIONS IN MINUTES RATHER THAN DAYS

Analytics help detect anomalies or deviations, enabling fast, real-time decisions and adjustments to stay on plan, to help minimize the number of drilling days and costs.

DELIVERS DYNAMIC DATA ON INTELLIGENT DASHBOARDS

Get quick access to dynamic data displayed on “intelligent” master dashboards that help improve data interpretation.

ACHIEVES BETTER DRILLING OUTCOME

More efficiently and effectively diagnose and predict the smartest drilling outcome with advanced technology tools to help tune rig operations and mitigate operational risks.

TO LEARN MORE, CONTACT: LANDMARK@HALLIBURTON.COM.