DrillOps | Advise

Schlumberger

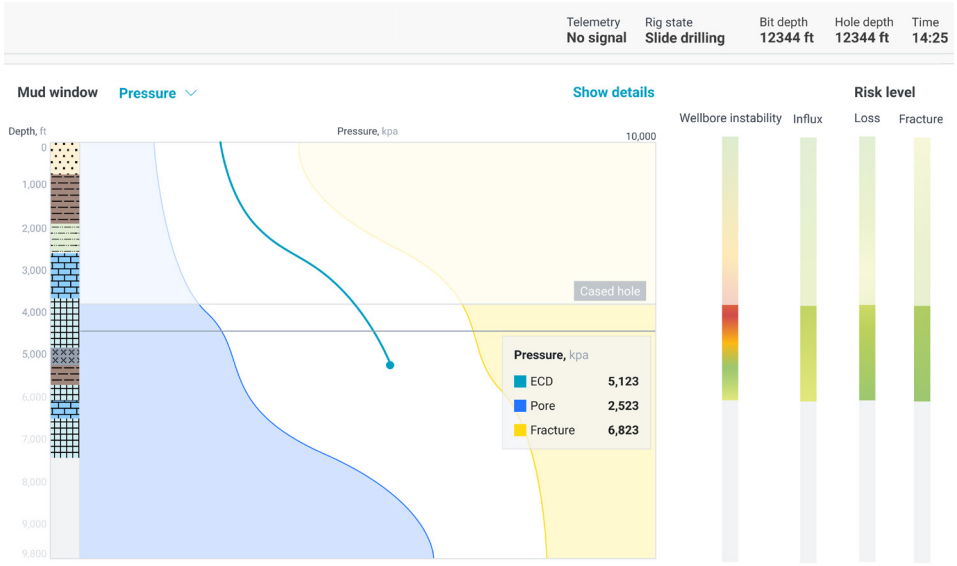
Intelligent automated real-time multiwell monitoring and advisory system

Applications
Onshore and offshore drilling

How it improves wells
- Intelligently monitors drilling conditions
- Delivers smart, automated analytics
- Optimizes real-time drilling performance
- Improves decision making to reduce risks
- Minimizes nonproductive time (NPT)

How it works
DrillOps Advise is a part of the DrillOps* on-target well delivery solution, providing an intelligent, automated real-time multiwell monitoring and advisory system for E&P well operators. Used in stand-alone mode or fully integrated with the rest of the DrillOps solution, DrillOps Advise helps visualize multiwell drilling data in real time on a single screen so that you can address critical issues quickly. With built-in customizable smart alarms, DrillOps Advise automatically flags out-of-spec conditions and recommends appropriate actions to help you optimize drilling performance, avoid risks, and minimize NPT.

The takeaways
DrillOps Advise is part of a complete solution operating within the DELFI* cognitive E&P environment. Companion products include DrillOps Connect, DrillOps Automate, and DrillOps Orchestrate. All DrillOps solution applications are fully integrated with the DrillPlan* coherent well construction planning solution as well as the DELFI Well Construction Data Foundation. Together, this integrated suite of applications provides both onshore and offshore E&P well operators with a comprehensive end-to-end drilling solution. With the fully integrated suite of applications, you are better equipped to deal with well construction challenges, all the way from initial well planning to well execution completion.



Real-time hydraulics modeling ensures accurate assessment of the risk of influx, losses, and wellbore instability.

Smart, automated analytics
DrillOps Advise provides smart, automated analytics that guide you through all the intricacies of the drilling process, keeping all critical components on-target and working properly. A stuck-pipe feature shows continuous torque and drag data as drilling progresses to monitor friction at connections and help you avoid stuck-pipe incidents. Vibrations in the drillstring are flagged if they violate constraints and reported with a recommendation for corrective actions. Real-time performance statistics, alerts, and recommendations of this nature are available throughout the drilling, tripping, and casing processes. The system helps ensure well integrity by using real-time hydraulics modeling to minimize risk of influxes, losses, and wellbore stability. Drillstring integrity calculations use machine learning to automatically flag problematic drillstring dynamics and eliminate washouts.

The system automatically monitors and reports data-quality issues and alerts you when key real-time data channels are missing or require calibration. Having all wells and rigs viewable in a single dashboard reduces the need for additional equipment as well as human resource costs.

What is the DELFI cognitive E&P environment?
The secure, scalable, and open cloud-based DELFI environment provides seamless access to software across exploration, development, drilling, production, and midstream applications—all delivered via a flexible and personalized SaaS subscription model. Combined with domain expertise, digital technologies in the DELFI environment help solve challenges across the E&P life cycle.

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