DORS

Optimize your fluid management.

Often overlooked and underappreciated, drilling fluids are critical to drilling operations. Drilling fluids, also known as mud, act as the primary barrier against incidents in the well. They are also the medium that removes cuttings and lubricates the drill bit. Today, most of the mud is made or modified manually, making the process less consistent and more vulnerable to human error than an automated process.

Managing drilling fluids effectively demands a comprehensive overview of the process. However, information is often scattered across multiple systems and monitors, making it challenging and time-consuming to route fluids correctly.

NOV's DORS adds a layer of automation to your drilling fluid systems, greatly reducing the derrickman's workload. The system automatically plans tasks and provides the derrickman with a preview of what is to come. DORS then executes the tasks automatically, monitors their progress, and insulates parallel processes, significantly reducing the risk of cross-contamination.

Combined with continuous fluid measurements, DORS enables earlier detection of fluids deviating from specification, allowing for timely corrections. This approach saves time, money, and the environment.

If you value your mud, you will value DORS.

Features and benefits

- Improves efficiency and consistency in drilling fluids operations
- Reduces the risk of human error, fluid contamination, and slop
- A routing algorithm automatically plans and executes line-ups and transfers of liquids and powders in the mud plant
- A materials register ensures that only compatible materials are mixed
- A scheduling tool enables the operator to efficiently plan and coordinate complex, multi-step processes like lineups, transfers, and mud mixing
- Integrates seamlessly with NOV's Drilling Fluids Control System (DFCS) and Rhea in-line measurement system for a continuous overview of the mud going into and out of the well

Prerequisites

- DFCS
- Rhea is highly recommended to unlock the full potential of DORS

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