



## DRILLING FLUIDS EQUIPMENT

For over 30 years OFI Testing Equipment (OFITE) has provided instruments and reagents for testing drilling fluids, well cements, completion fluids, and wastewater. In addition to these product lines we also offer a range of instruments for core analysis. From our manufacturing facility in Houston, TX we provide customers all over the world with quality products and exceptional service.

Our drilling fluids product line includes innovative designs such as the Model 900 Viscometer, which showcases our ability to develop new technology to meet customer and industry demands. We also offer Retorts, Aging Cells, Roller Ovens, Mud Balances, Filter Presses, and all other instruments required to evaluate drilling fluid properties according to API Recommended Practice 13B-1 and 13B-2.

As an independent manufacturer and supplier, OFITE has one priority, our customers.



## Mud Aid™

When a drilling fluids specialist cannot be on site full-time, an automated system can be beneficial to measure and monitor drilling fluid properties. The newly launched MUD AID™ is a remotely monitored, automated in-field diagnosis unit, designed to manage and automate drilling fluid processes.

The MUD AID™ facilitates optimization and execution of the drilling fluid program by presenting real-time information on fluid properties. This compliments the job of the drilling fluids specialist and may assist in optimizing drilling fluid performance.

The unit live-samples drilling fluid and tests project specific properties, to API standards where applicable. The unit presents this data in real-time allowing the operator to make adjustments according to the program.

The MUD AID™ sends data via local PLC directly to any rig data management system via standard communication protocols such as WITS0 or WITSML.



## Features

- Increased productivity – Real-time notification of drilling fluid parameters and support from a qualified drilling fluids specialist, anywhere, anytime in the world
- Reduced downtime – Standard tests at regular intervals help identify issues as they occur
- Safety – Reduced risks associated with personnel/contractors on site
- Instant decision making – Having access to information means decisions can be made in a timely matter and provides accountability on performance
- Reporting - Automatically generated daily drilling fluid reports and recaps
- Secure chain of custody of the data with seamless workflows.



## Easy Set-up and Customization

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The MUD AID™ is portable, lightweight and easy to install and operate. Set up includes pairing the MUD AID™ to site specific conditions, setting parameters and automating alerts, and helping to intercept any potential issues.

The drilling fluid specialist will remotely provide periodic monitoring and recommendations, so drillers can attempt to rectify variances in the system – providing drillers greater control over their drilling fluid system.

Drilling fluid test properties can be on multiple applications such as the on unit display or the optional OFITE MMA, which provides instant, secure access to real-time data and historical information. Data can also be downloaded via USB.

## Technical Specifications and Requirements

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### Specifications

- 24/7 tracking of drilling fluid parameters (Ability to be programmed to test based on user requirements, time varies based on test specifications)
- Programmed monitoring of individual drilling fluid programs, to intercept potential issues before they become major
- Can be integrated with any rig data management system via standard communication protocols such as WITS0 or WITSML
- Can be powered via multiple power options (220VAC, 110VAC, 24VDC rig power, 24VDC solar/battery)
- Air operated pneumatic pumping system
- Access data and reports on site via any VNC application (from PC, cellphone, or tablet), or output stored data via USB
- Portable, lightweight design – Optional pelican case 45kg
- Easy 30 min installation time and easy operation
- Safety alarms to prevent sample overflow

### Testing Capabilities

- Rheology: 0 - 600 rpm (API), Plastic Viscosity, Yield Point, Gels, Apparent Viscosity
- Temperature recording
- Built in cleaning cycle using base fluid of drilling system

### Optional Enhanced Packages

- Mud Watcher sampling and measuring management system
- OLR in line Rheometer
- OFITE Skid mounted MMA DAQ system with local computer interface