Drilling Software | Sophisticated Yet Simple

MUDPRO⁺
Advanced Drilling Mud Reporting Model

Overview

Mud is generally synonymous with drilling fluid. It is used in the rotary drilling process to clean the wellbore, carry out cuttings, exert hydrostatic pressure, and cool and lubricate the drill string and bit. If the drilling fluid does not behave properly, it may lead to many serious well problems, including well abandonment. Furthermore, the additives required to maintain the mud in good condition are quite costly. Mud engineers need to keep track of the usage of these additives.

Mud engineers are responsible for testing the mud at a rig, prescribing mud treatments, and maintaining mud weight, properties, and chemistry within recommended limits. They are also responsible for creating a mud report.

MUDPRO+ is a comprehensive upgrade based on the current version of MUDPRO. Including the existing functions, MUDPRO+ integrates new practical features (such as pad drilling, multi-type rheology, AI data analysis, etc.). We also upgraded the data structure; thus, the data read/write speed has improved tremendously. MUDPRO+ enriches visualization in Output and Recap; customization is available for all the display contents.

Benefits

Enhanced Efficiency and Accuracy

- Handles complex calculations like hydraulics and concentrations, reducing manual effort and errors.
- Improved data structure leads to faster data read/write speeds, saving time and increasing efficiency.
- Compatible with previous MUDPRO data.

Improved Visualization and Customization

- Clear and customizable graphs and charts provide a better understanding of mud properties and trends.
- Tailored reports to focus on specific data points and insights.

Improved Decision Making

- AI-driven data analysis provides valuable insights into mud behavior and trends, enabling proactive decision-making.
- Accurate tracking of additive usage helps in cost control and preventing over-treatment.

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Features

- Pad drilling
- Land and offshore well
- Riser operation with choke, kill, and boost lines
- Speedy data writing and reading
- Master products and tubular database
- Water-based, oil-based, and synthetic mud
- Solids analysis
- Salt type selection: NaCl, $CaCl_2$, and dual salts
- Bingham Plastic, Power Law, and Herschel Buckley rheology models
- Hydraulics calculation
- Mud volume tracking
- Inventory, volume, and pit snapshots
- Concentration calculation in each pit
- Low inventory warning
- Customize recap review
- Recap summary
- Multiple daily mud report
- Automatically data backup
- US oil field, metric, and customized units
- WITSML report
- Export data to HYDPRO software
- One-page/two-page/three-page daily mud report
- Printing size: letter, legal or A4

System Requirements

- Microsoft Windows® 10 or above
- Microsoft Office® 2016 or above
- Dual-core Intel or AMD processor, 1.4 GHz or higher. Quad-core CPU recommended. Not compatible with ARM processor
- 4 GB RAM (8 GB Recommended)
- 200 MB of free disk space for installation
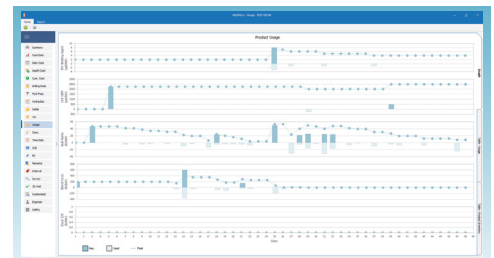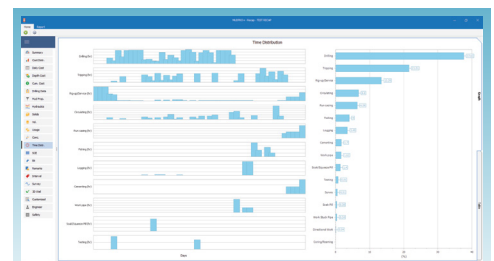- 1,280 x 768 display resolution
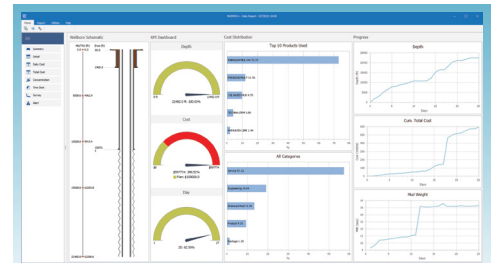
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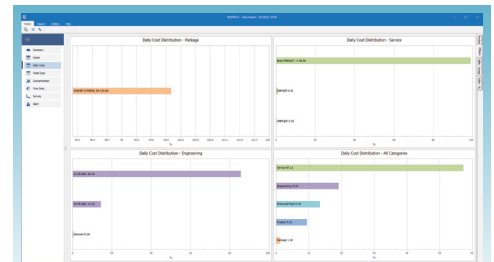
Cost Distribution

Daily Cost Snapshot

Products Usage Tracking

Operation Time Distribution