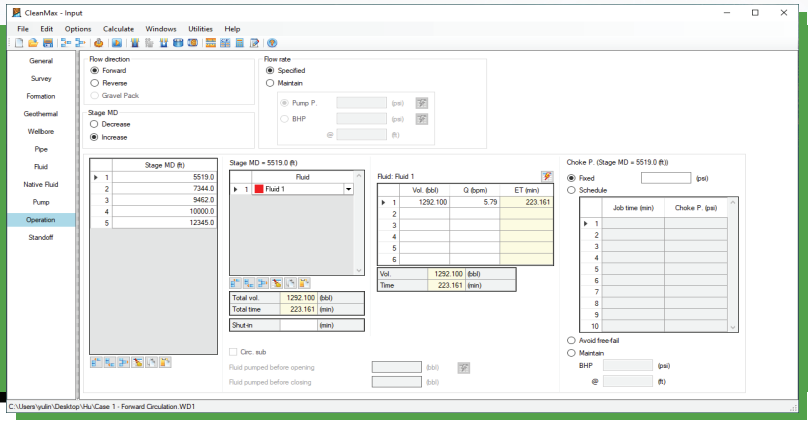
LINQX

Brochure

CleanMax
Wellbore Cleanup

Streamline complex multi-fluid operations



Operations

OVERVIEW

The first step to ensure an optimum completion is to remove leftover drilling fluid residue and casing debris. This requires the drilling mud to be displaced out with solids-free completion fluids. Completion fluid displacement involves multiple fluids sequenced in circulation. Varying flow rates, flow paths, circulation subs, multiple stages, and possible HTHP conditions make it increasingly difficult to determine pump pressures and bottomhole ECDs. Despite these significant challenges, detailed planning of the wellbore cleanup operations can help ensure both job success and well productivity.

CleanMax is the next generation of wellbore cleanup software, designed to help service companies and operators optimize completion displacement operations. It helps minimize spacer interfacing and reduce rig time, pill volumes, and filtration costs, leading to safer operations and cleaner wellbores. For deepwater applications, CleanMax also supports displacements using choke, kill, and boost lines and multiple operational steps. It predicts wellbore temperature distribution by calculating transient heat transfer between the wellbore and seawater or surrounding formation.

KEY BENEFITS

Cost Reduction

- Reduces pill volumes and filtration costs, which can significantly lower overall operational expenses during the completion phase.
- Efficient planning and execution of wellbore cleanup operations significantly reduce rig time and associated costs.

User-Friendly Interface

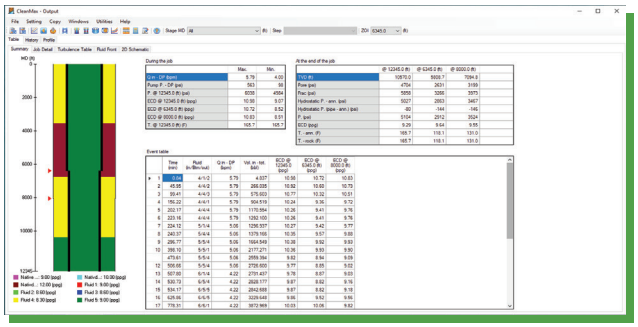
- Accurately predicts pump pressures, bottomhole equivalent circulating densities (ECDs), and temperature distributions, enabling optimal fluid selection, sequencing, and volumes. This minimizes waste and reduces costs.

Accurate and Comprehensive Reporting

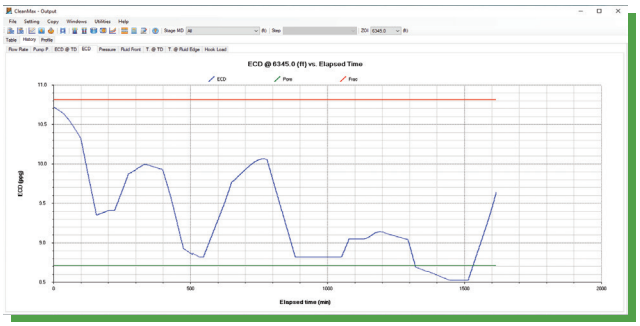
- Accounts for the unique thermal conditions of deepwater environments, providing more precise calculations for fluid properties and behavior.

KEY FEATURES

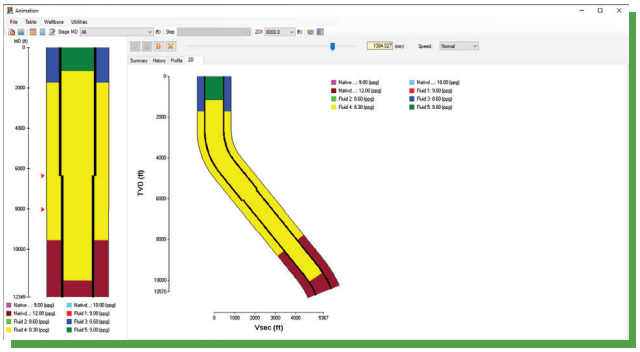
- Up to 16 operation stages for land wells
- Free-fall/back-fill (U-tubing) calculation
- ECDs/pressures at various depths vs. time
- Up to 12 fluids for each stage
- Circulating temperature prediction
- Fluid compressibility
- Pressure and temperature-dependent rheology
- Effects of pipe standoff on hydraulics
- Circulation sub and gravel pack
- Coiled tubing operation
- Displacement efficiency
- Oil field, SI, and customized units
- Spacer train design
- Flow split with 2 circulation sub



Output Summary



ECD vs. Elapsed Time



Animation

PLAN COMPLETION DISPLACEMENT WITH CONFIDENCE

Explore CleanMax—Request Your Demo Today

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