

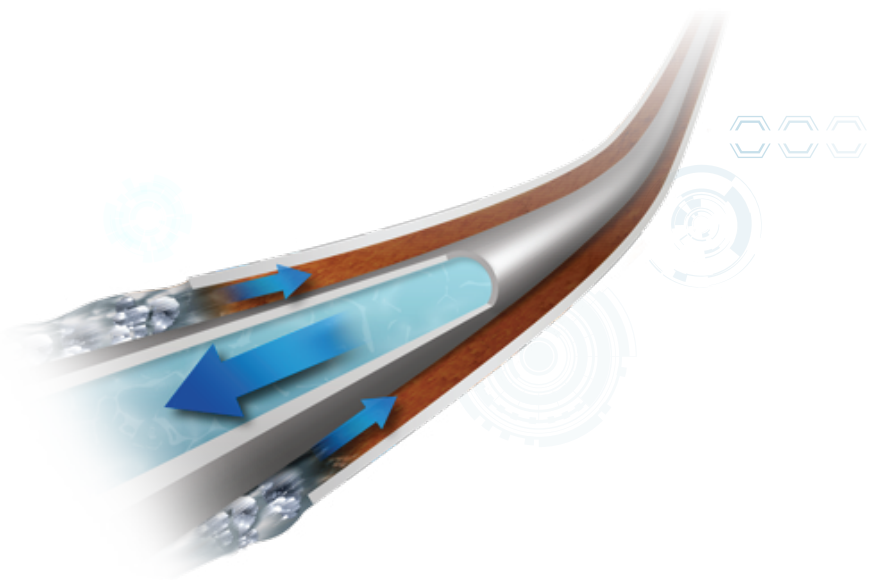
CleanMax⁺

Advanced Wellbore Cleanup Model

Overview

A successful wellbore cleanup is one of the most critical steps to ensure a trouble-free completion. Cleanup operations reduce the risk of formation damage and enhance well productivity by efficiently and meticulously planning out the removal of leftover drilling fluid residue and casing debris. In addition to spacer chemistry and cleanup tools, advanced displacement software has contributed to creating a more competent displacement process leading to lower operation costs and increased production.

Pegasus Vertex's CleanMax⁺, the advanced version of CleanMax, is designed for deepwater operations involving displacements using choke, kill, and boost lines. CleanMax⁺ predicts the temperature distributions in the wellbore by calculating the transient heat transfer between wellbore and sea water/rock formation.





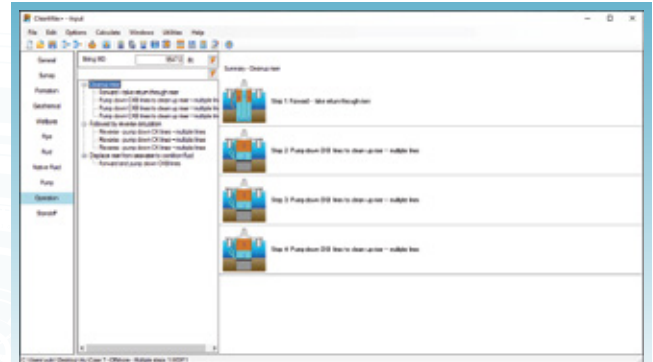
CleanMax+—Advanced Wellbore Cleanup Model

Features

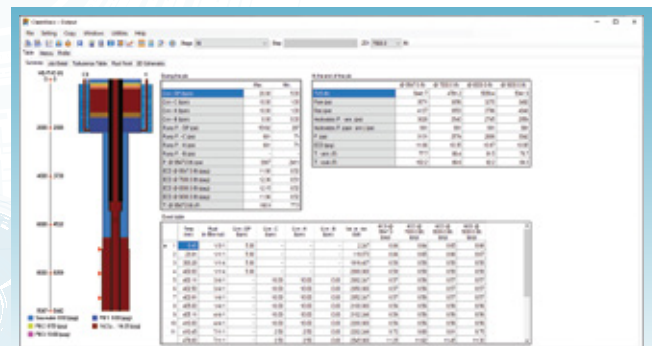
- Up to 16 operation stages for land wells
- Combination of 9 flow paths for deep water operations
- Free-fall/back-fill (U-tubing) calculation
- ECDs/pressures at various depths vs. time
- Up to 12 fluids for each stage
- Circulating temperature prediction
- Fluid compressibility
- Pressure and temperature 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 subs

System Requirements

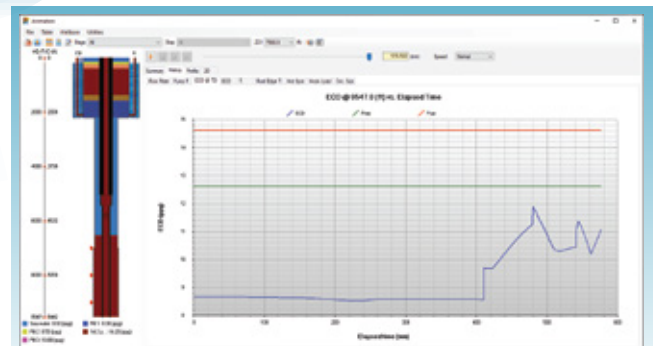
- Microsoft Windows® 10 or above
- Microsoft Office® 2016 or above
- Dual-core processor, 1.4 GHz or higher (Not compatible with ARM processor)
- 4 GB RAM
- 200 MB of free disk space for installation
- 1,280 x 768 display resolution



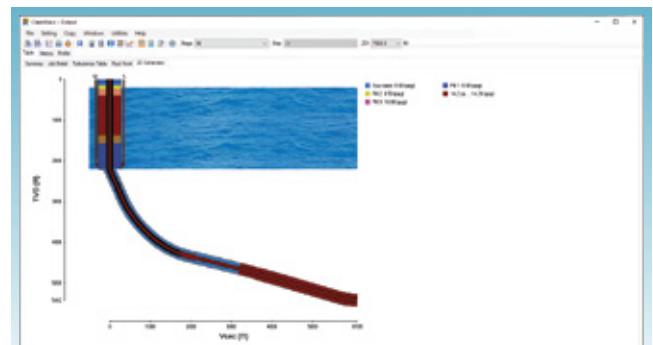
Operations



Output Summary



ECD vs. Elapsed Time



Animation

