

Drilling Software | Sophisticated Yet Simple



CEMPRO

Cementing Job Model

Overview

Cementing is the process of displacing drilling fluids with cement slurry. Among the many challenges cementing companies face are mud channeling, poor casing standoff, loss of circulation, unmanaged high temperature, and more.

Originally developed in 2000 by Pegasus Vertex, CEMPRO became part of the LINQX portfolio following our acquisition in 2024. Our award-winning, integrated cementing software has evolved from a simple hydraulics program into a comprehensive suite covering casing centralization, circulating temperature, displacement efficiency, surge and swab, torque and drag, HTHP, foamed cement, and job evaluation.

CEMPRO offers the industry a better understanding of fluid displacement and helps engineers make informed placement decisions to minimize risk throughout a well's life. It provides a platform for both service companies and operators to ensure a successful cementing job by aligning all parties on the same data. The success of CEMPRO stems from LINQX's technical strengths in engineering modeling and our close collaboration with industry leaders engaged in cementing operation. Our goal is to work hand-in-hand with our customers to design and deliver the most sophisticated yet user-friendly cementing job software on the market.

To cater to different workflows, we offer two different versions of CEMPRO:

- CEMPRO with Centralizer Calculation
- CEMPRO without Centralizer Calculation

Benefits

Improved Cement Job Design and Execution

- Helps ensure accurate and efficient cement placement, reducing the risk of cementing failures.
- Identifies potential issues like mud channeling, poor casing standoff, and loss of circulation, allowing for proactive measures to be taken.

Enhanced Collaboration

- Providing a shared platform for service companies and operators, CEMPRO facilitates better communication and collaboration.

Cost Reduction and Efficiency

- Ability to simulate different scenarios allows for efficient job planning and execution.
- Successful cementing jobs contribute to better well performance and increased production.

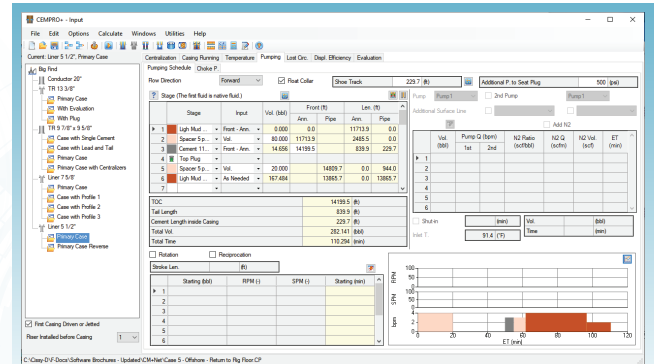




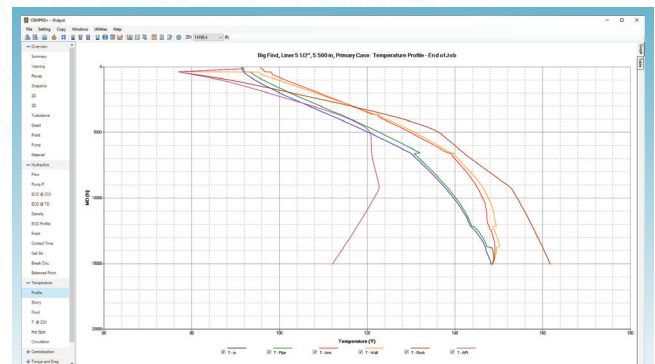
Features

- Displacement efficiency
- Casing centralization*
- T & D for casing running and cementing
- HTHP rheology and density
- Automatic pump-rate calculation
- Temperature prediction
- Lost circulation modeling
- Surge & swab (pre-job circulation)
- Job designs for all casing strings in a well
- 20 casings, with 10 design cases per casing
- 16 fluids and 40 stages for each design case
- Land, offshore, and deep-water support
- Multi-stage cementing job
- Forward or reverse circulation
- Inner-string and tie-back cementing
- Managed-pressure cementing
- Coiled-tubing cementing
- Gas-flow potential analysis
- Post-cementing circulation
- Thickening-time prediction
- Survey data import
- Fluid compressibility inputs
- Oilfield, SI, and customized units
- Job evaluation, comparison, and animation
- 3D well-visualizer of displacement
- Fluid-displacement animation

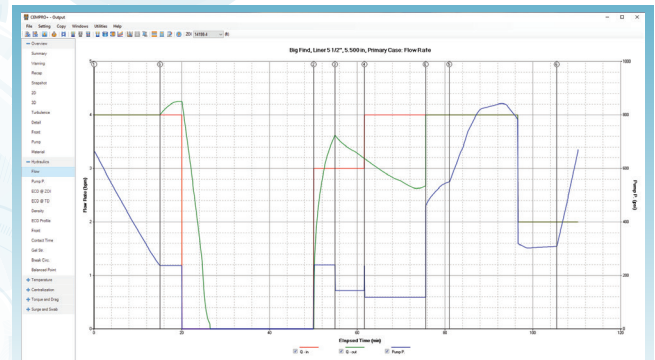
* Only available in CEMPRO with centralizer calculation version



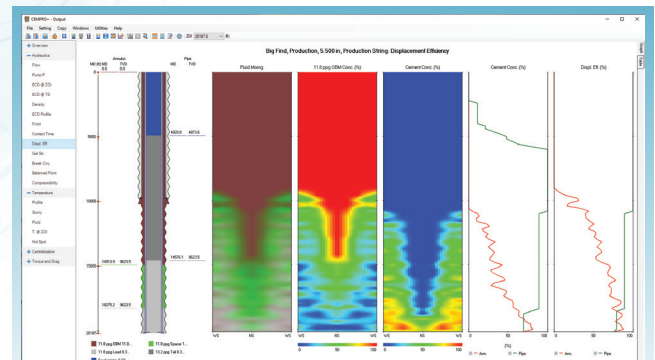
Input Window



Temperature Profile



Flow Rate vs. Elapsed Time



Displacement Efficiency

System Requirements

- Microsoft Windows® 10 or above
- Microsoft Office® 2016 or above
- Dual-core processor, 1.4 GHz or higher
- 8 GB RAM
- 600 MB of free disk space for installation
- 1,280 x 768 display resolution