LINQX

CEMPRO
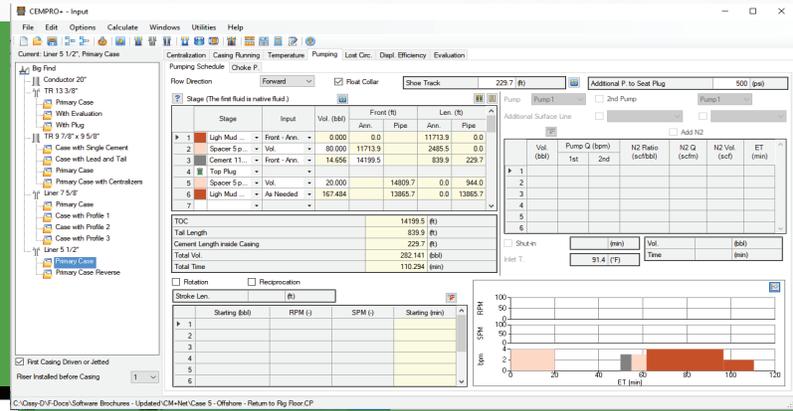## Cementing Design & Job Execution
Simulate cementing operations in one platform

Input Window

OVERVIEW

Cementing displaces drilling fluids with cement slurry, and common challenges include mud channeling, poor casing standoff, loss of circulation, and HTHP conditions.

Originally developed by Pegasus Vertex in 2000 and acquired by LINQX in 2024, CEMPRO has evolved from a hydraulics tool into a comprehensive cementing suite covering centralizer calculation, circulating temperature, displacement efficiency, surge & swab, torque & drag, foamed cement, and job evaluation.

CEMPRO helps engineers better understand fluid displacement and make informed placement decisions to reduce risk across a well's life. It aligns service companies and operators on the same data, combining LINQX's engineering modeling expertise with industry collaboration to deliver a powerful yet user-friendly tool.

Available editions:
- CEMPRO with Centralizer Calculation
- CEMPRO without Centralizer Calculation

KEY 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.
- Further enhanced by case comparison and sensitivity analysis, enabling engineers to compare design secenarios side by side and understand how key parameters impact cemetning outcomes.

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

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

KEY 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
- Case comparison across multiple design scenarios
- Forward or reverse circulation
- Inner–string and tie–back cementing
- Managed–pressure cementing
- Sensitivity analysis of key design & operational parameters
- 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
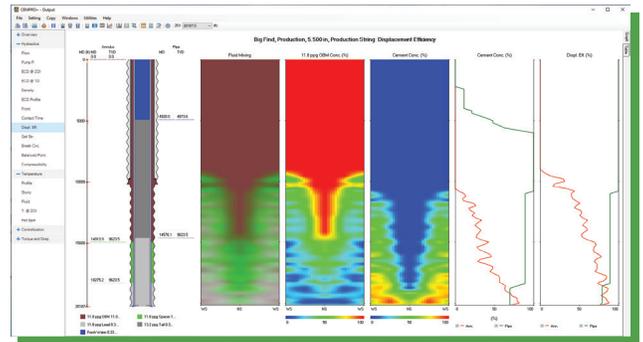- Fluid–displacement animation

  * Only available in CEMPRO with centralizer calculation version

Temperature Profile

Flow Rate vs. Elapsed Time

Displacement Efficiency

ELEVATE CEMENTING DECISIONS BEFORE EXECUTION
Experience CEMPRO—Schedule Your Demo Today

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