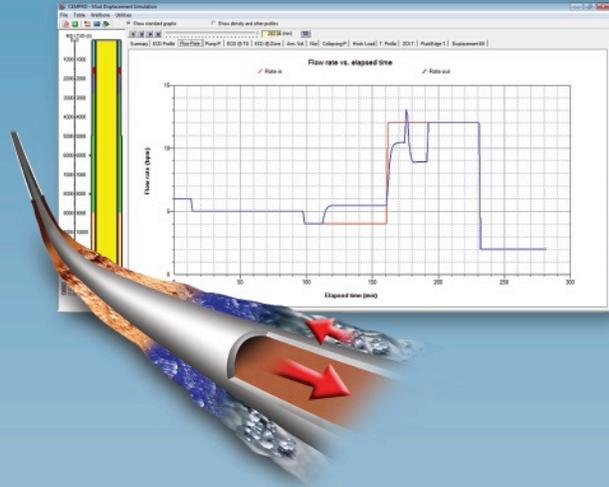


 **CEMPRO**  
Mud Displacement



A successful cement job is one of the most important factors for of any well. There are many challenges involving increased reservoir depth, downhole temperature and pressure. Achieving wellbore integrity is more complicated than ever before. To overcome these challenges, PVI developed CEMPRO, an integrated cementing software that aids in the design and optimization of various cementing job parameters.

Applicable for all land, offshore, conventional or foamed operations, CEMPRO enables both service companies and operators to assess the risk of possible cement failure as a function of slurry placement, cement sheath properties, wellbore properties, and temperature change. It ensures well security at all times during cementing jobs.

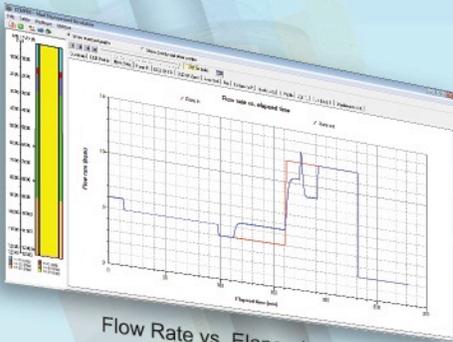
Along with PVI's centralizer placement model, CentraDesign, the field-proven CEMPRO has become the most advanced yet easy-to-use cementing design tool available in the industry.



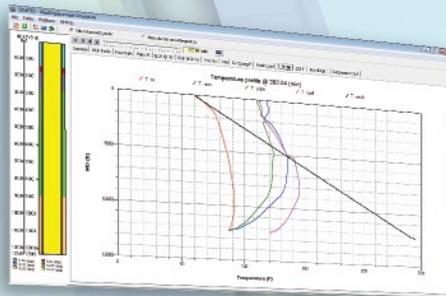
Video



# CEMPRO – Mud Displacement



Flow Rate vs. Elapsed Time



Temperature Profile



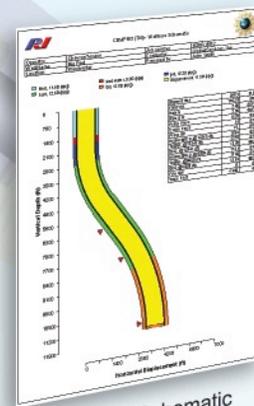
Slurry Temperature vs. Elapsed Time

## Features

- Survey import from text or PDF® file
- U-tube simulation
- Offshore - fluid returns to sea floor
- Forward or reverse circulation
- ECD and pressure
- 12 fluids, each with up to 40 stages
- Circulating temperature
- Foamed cementing
- Displacement animation
- Hook load
- Job evaluation
- Gas flow potential
- Circulation sub
- Eccentric annuli
- Displacement fluid compressibility
- Microsoft Word® report
- US oil field, SI and customized units
- Multi-language: English, Spanish, Chinese and Russian

## System Requirements

- Microsoft Windows® 10
- Microsoft Windows® 8/8.1
- Microsoft Windows® 7
- Microsoft Office® 2010 or later
- Pentium or AMD processor, 1 GHz or faster
- 2 GB RAM (4 GB recommended)
- 200 MB of free disk space for installation
- 1,280 x 768 display resolution with true color
- Install from download link or CD



Wellbore Schematic