



CemVision advanced fluid displacement simulator

Identify risks and achieve planned zonal isolation

Understanding mud removal and cement placement is a key factor to ensuring zonal isolation. It is important in achieving wellbore integrity to identify both the expected top of circumferential cement coverage and any possible risks of inter-zonal communication due to low displacement efficiencies. Accurately predicting the intermixing and decay behavior of cementing fluids during mud removal and cement placement is a critical step in achieving planned results.

The **CemVision™ advanced fluid displacement simulator**, from Baker Hughes, a GE company (BHGE), is a pseudo-3D computational fluid dynamics (CFD) simulator, providing numerical solutions to evaluate cementing fluid intermixing and decay. Casing eccentricity, as well as

non-aqueous fluid behavior accountability, strengthens the platform used to predict the fluid positions and integrity after cement placement. By using the output data identified by the CemVision software, in either 2D or 3D visualization, solutions are tailored to reduce the risks of intermixing and/or decay while incorporating contingencies to meet the placement objectives.

The simulator predictions trend and align with cased-hole logs for a wide range of annular configurations including conventional, horizontal, high-pressure/high-temperature (HP/HT), and deepwater applications.

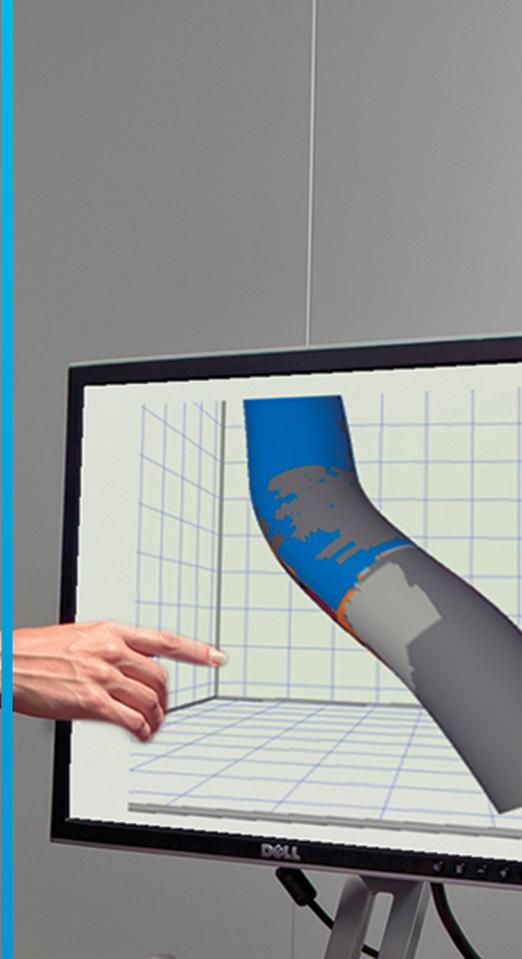
To learn more about the CemVision CFD simulator for your current and future projects, contact your BHGE representative today. Find more information online at bhge.com.

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Applications

- Conventional wells
- Horizontal wells
- HP/HT environments
- Deepwater wells

Benefits

- Predicts likely circumferential tops of cement (TOC)
- Evaluates intermixing of cementing fluids
- Quantifies decay of cementing fluids
- Improves run time, fine-grained output
- Identifies velocities and flow regimes
- Depicts expected fluid dynamics