

Kinetix Frac integrated fracture stimulation software

Real-time fracturing design collaboration platform in the DELFI cognitive E&P environment

How it is used

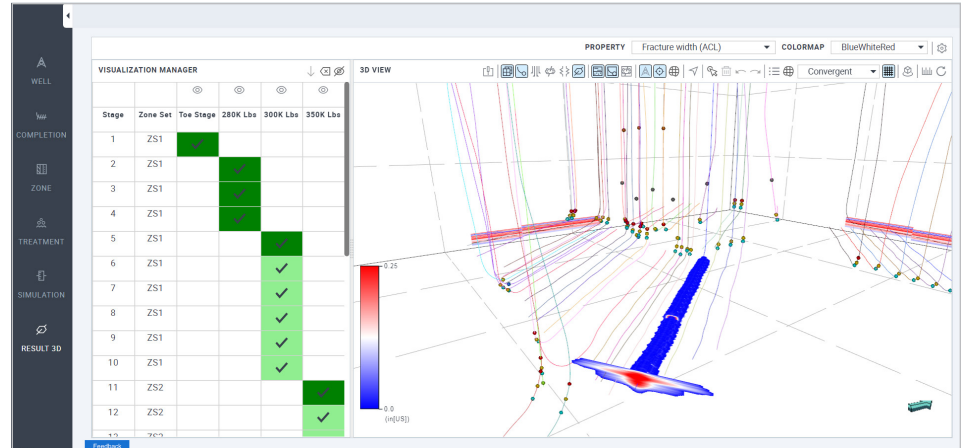
- Fracturing design and evaluation in the cloud
- New asset and infill drilling programs
- Completion design for multistage horizontal and vertical wells
- Offset well production and completion analysis
- Sensitivity analysis with concurrent computations

How it improves wells

- Connects stimulation, completion, and reservoir engineers in one collaboration platform
- Accelerates stimulation design from days to minutes
- Automates creation of a calibrated mechanical earth model (MEM)
- Enhances simulation accuracy with advanced proppant particle-in-cell transport modeling
- Improves decision quality by integrating public and proprietary data sources

How it works

Kinetix Frac* integrated fracture stimulation software combines business systems, public databases, Schlumberger stimulation databases, and asset customer data stored in the DELFI* cognitive E&P environment. The business systems include planning and cost evaluation tools. Public databases have well coordinates, production data, and subsurface geology (logs, welltops, surfaces, and other data). Stimulation databases contain proppants, fluid systems, additives, rheology, and completion parameters.



Kinetix Frac software 3D simulation results of hydraulic fracturing with offset well trajectories and MEM simulated with a 45-min turnaround time.

Kinetix Frac software optimizes effective stimulated volume to maximize production performance, estimated ultimate recovery, and ROI by leveraging big data, analytical models, and high-performance cloud computation. The software accelerates stimulation design from days to minutes by automating data collection and processing workflows. This includes evaluation of offset well completion and production performance, generation of a calibrated MEM, and sensitivity analysis with concurrent computations.

What else I should know

Kinetix Frac software includes multiple models for accurately assessing in situ conditions:

- Fine-scale fracture hydrodynamics and in situ kinetics model. Advanced modeling enables simulation of complex and hybrid designs including far-field diversion, proppant pulsing services, and heterogeneous proppant placement in variable-viscosity fluid systems.
- Full 3D design simulator model. The Planar3D* fracturing design simulator based on a planar 3D model creates accurate planar fractures for formations with complex MEMs.

Kinetix Frac software also connects to the Petrel* E&P software platform for production evaluation.

This secure Web-based application can be used on desktop or mobile devices with Internet connectivity. Chrome 67.0.33967.99 or newer browser is recommended.