

FRACPRO

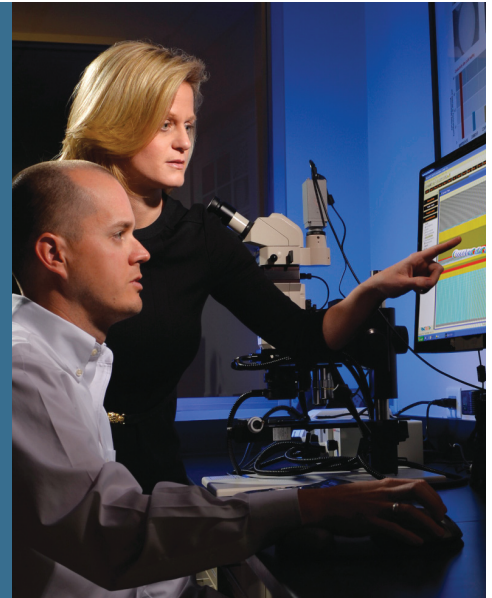
Fracture design and analysis software

Features

- Real-time onsite monitoring and evaluation
- Four fully integrated analysis modules for diagnostic injections
- Design and display a multiple-treatment fracturing job in a single file
- Built-in libraries of various fluids and proppant

Benefits

- Assesses stresses, permeability, pressures and other rock characteristics
- Helps enhance fracture designs
- Supports dipping reservoirs for multiple-treatment horizontal wells
- Reservoir properties directly imported from log files
- Easy interface promotes user friendliness
- Aids in maximizing long-term production



The industry's most widely used fracture design and analysis software

FRACPRO® fracture design and analysis software improves well performance by providing the insight required to design successful stimulation programs.

A powerful tool for fracture optimization

FRACPRO software can effectively model any type of pressure stimulation job, including limited entry wells, multiple perforated intervals and horizontal well fracturing.

Propped fracs

The unique software allows understanding of proppant placement, conductivity improvements and fracture dimensions, and incorporates the effects of proppant damage due to crushing, embedment, stress cycling, and non-Darcy and multiphase flow.

Horizontal wells

FRACPRO software can simulate single and multiple treatment horizontal wells, allowing creation of multiple pump schedules and reservoirs in a single file.

Foam fracs

Energized systems can be simulated in FRACPRO software. The software calculates foam quality at the surface and downhole along with gas and liquid volumes required.

Acid fracs

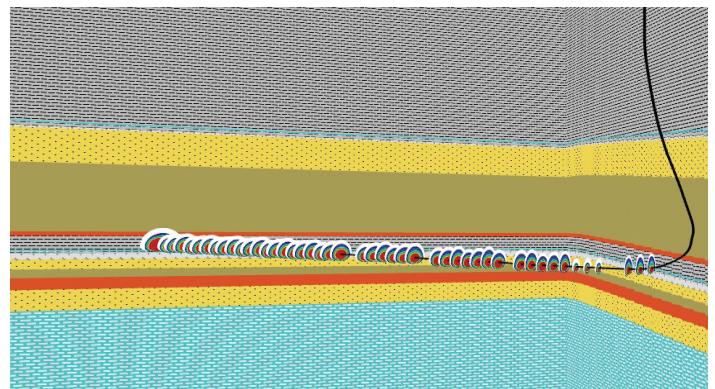
FRACPRO software can model acid injections using acid reaction rates, thermal modeling and a fluid library containing common acids to determine etched fracture length and width.

Frac packs

The client can choose from three different leakoff models and back stress to effectively match tip screenout behavior.

Matrix acid

With a look and feel similar to the FRACPRO software, STIMPRO™ matrix acidizing analysis software is a stand-alone program for matrix acid injection below fracture pressure. It is an effective tool to evaluate worm holing and skin reduction.



3D Reservoir Viewer shows fracture profiles along wellbore and dipping reservoir layers.

How can FRACPRO help?

Whether the objective is evaluating past stimulation jobs or planning future ones, FRACPRO software provides information necessary to successfully achieve production goals.

Stimulation modeling helps determine fracture geometry, proppant conductivity, proppant damage, required perforation area and proper job size, and, ultimately, the production increase and return on investment (ROI).

In addition, problems related to early fracture screenout, high surface pump pressures, poor proppant distribution and inadequate height coverage are minimized.

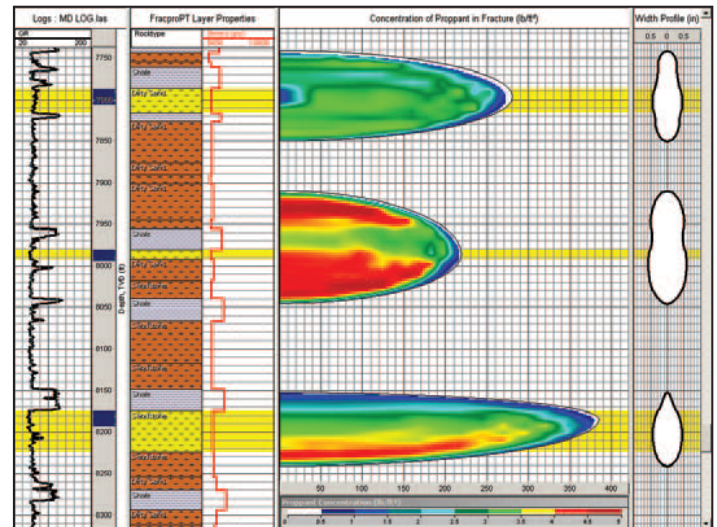
Fully integrated diagnostic tools

FRACPRO software contains four fully integrated modules used for frac design, frac analysis, economic optimization and reservoir performance. It includes utilities for real-time data capture, importing and exporting data and generating output reports. Automated minifrac, step-rate analysis, entry friction, net pressure and production history matching routines are built into the main program. Formation permeability and reservoir pressure analysis using Horner, pseudo-linear, pseudo-radial and the Mayerhofer method are incorporated, allowing investigation of DFIT long-term injection/falloff tests.

Selection of effective treatment schedules, pump rates, proper fluids and proppant is simplified with the built-in libraries. Therefore, the user can effectively model fracture growth in any formation: carbonate, sandstone and even coal.

FRACPRO software links its results to IMEX®, Eclipse® and QuickLook software by creating a file with local grid refinement of the fracture containing user-selectable properties. Simulations of multiple fractures, horizontal well fractures and multiple zones can be produced. These files can be directly imported into these sophisticated reservoir simulators for complete analysis.

FRACPRO software provides unique insights into fracturing treatments and how they perform in the reservoir, in real-time and over time.



FRACPRO software can display logs, layer information and geometry with the integrated fracture picture.

With little unmatched capability, versatility and flexibility, it's no wonder that FRACPRO software is the industry's standard hydraulic fracture simulation software.

Training

We offer open or private FRACPRO and STIMPRO software courses for basic and advanced training. Software training can also be included as part of our general hydraulic fracturing courses that are available.

Support

E-mail and extended phone support are standard, provided by more than a dozen staff engineers and technicians. FRACPRO software features annual major upgrade releases. Service packs can be downloaded over the web, and users are automatically notified when they are available.

Constant improvement

As direct measurements of fracture growth available, they are incorporated into FRACPRO software as improved default models and calibrated model settings for specific formations. As a result, users improve their capability to predict fracture growth, leading to better job design and execution.

To find out more about FRACPRO or for support contact +1 281 921 6500 or support@fracpro.com

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