

FracRAT With PowerLog Achieves Optimum Frac Design

FracRAT is an add-on module to **PowerLog**® used to generate rock and fluid properties required by frac simulation software.

FracRAT takes petrophysical curve data from **PowerLog** and uses empirical and deterministic algorithms that have been field tested by Baker Hughes Pressure Pumping for over 20 years, to output the formatted rock and fluid properties for immediate loading into major frac simulation packages like MFrac and FracPro.

PowerLog and **FracRAT** provide the completion engineer with a full toolkit to create multiple frac scenarios for optimum frac results. In fact, by eliminating manual calculations and spreadsheets, the multiple frac scenarios derived by the combination of petrophysical analysis and geomechanical data are modeled with increased accuracy in hours instead of days.

The PowerLog Advantage

PowerLog is the industry- standard petrophysical interpretation package known for its functionality and ease of use. FracRAT follows this tradition of easy to learn, easy to use and easy to remember interfaces. The user friendly interface, coupled with a commercial database, allows for rapid archival and retrieval of all interpretations and models. The FracRAT module makes PowerLog a complete petrophysical toolkit by providing all the petrophysical and geomechanical functionality an engineer requires to maximize his effectiveness when designing either traditional or unconventional well completions.



PowerLog prepares curve data for FracRAT.



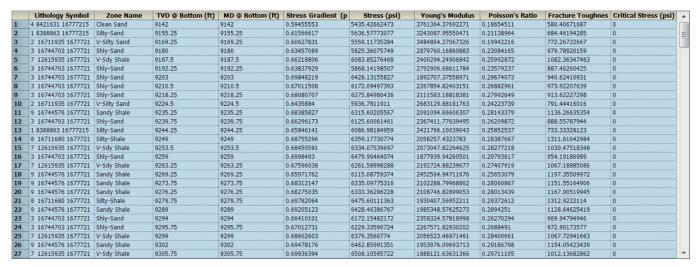
Workflow oriented interface in FracRAT.



Exporter tool generates formatted rock and fluid properties.







Rock properties (and fluid properties) can be saved as text files for archiving.

Key Features

- Generates rock and fluid properties either deterministically or empirically
- Provides a tool for formatting these properties for direct input into any frac simulation software
- · Includes Crossplots to aid in selecting input parameters
- Ensures modeled frac parameters exactly match borehole test results with parameter tuning tool
- · User friendly interface

A Better, Faster, More Complete Workflow Within GeoSoftware

FracRAT is part of **PowerLog**® and shares a Common Data Model with the **Jason**® software, ensuring real-time collaboration among team members.

The GeoSoftware environment provides an integrated framework for delivery of multi-user seamless cross-product workflows.

Operating System Requirements:

Windows® (64 bit) - XP SP3, Vista™, Windows® 7.

Recommended Minimum Hardware:

8 Gbytes of RAM.

Interoperability:

FracRAT is available for current versions of **PowerLog** and integrates with Jason Workbench and **EarthModel FT**.

