Rock physics analysis and modeling

Rock Physics Module (RPM) is a rock physics add-on software module for PowerLog®. It integrates PowerLog® well log analysis with rock physics elastic modeling. RPM enables a fundamental modeling approach — a petrophysical rock model is used to derive rock structure information and effective elastic rock properties from fluid and mineral parameters. The model parameters are calibrated by comparison of the synthetic to the available elastic sonic logs. RPM supports inclusion models and contact models including Stanford cemented spheres scheme 1 and 2.

You can easily analyze fluid-substitution studies and invasion correction once a rock model is constructed. The rock model also enables prediction of elastic curves for lithology parameters that are not present in the wells.

The Jason advantage

RPM is the bridge between PowerLog® and other Jason® applications. This user-friendly module is integrated with PowerLog® so you can iterate your petrophysical parameters using rock physics models in RPM and improve your petrophysics interpretation.

Key features

- Provides multiple models of fluid and mineral compositions
- Integrated with petrophysics
- Workflow-oriented
- Easy to learn and use
- Easy to share the workflow with others

RPM workflows are visual and easy to understand.

PowerLog viewers provide tools for analyzing RPM results.
Easily access and edit each node.

Elastic properties output from RPM aid in designing completions in unconventional reservoirs.

Operating system requirements
64-bit versions of the following are supported: Windows® XP or Windows® 7.

Recommended minimum hardware
8 Gbytes of RAM.

Interoperability
Integrated on the CGG GeoSoftware CDM with all PowerLog views and functionality.