FUGRO-JASON NEWS

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Fugro-Jason Announces RPM™ for PowerLog

New module accelerates field analysis by integrating seismic AVO and log analysis

April 10, 2006—AAPG Exhibition Hall, Houston, Texas – Fugro-Jason, the leader in reservoir characterization technology, today announced RPM™, a new module for PowerLog that adds rock physics elastic modeling to the widely used log analysis product. PowerLog is the industry standard for Microsoft Windows-based petrophysical analysis, dedicated to log data interpretation and presentation. With the new module, customers can now build a rock physics model to determine the elastic rock properties and improve their AVO analysis capabilities.

"RPM speeds the understanding of field dynamics by giving users a complete rock model," stated Brad Woods, General Manager of Fugro-Jason Reservoir Products Division. "PowerLog has a reputation for helping users reach conclusions quickly and with a high degree of confidence. With RPM, users will continue to enjoy these benefits as they build rock models that improve seismic AVO analysis, leading to better well planning decisions in AVO environments."

RPM creates a rock model used to derive the effective elastic rock properties from fluid and mineral parameters and the underlying rock structure. Model parameters are calibrated by comparison of synthetic and available elastic logs. RPM uses state of the art petrophysical algorithms for its analysis, and guides the user with a graph-based visual workflow.

"By adding RPM to PowerLog, users will be able to go beyond logplots and crossplots to a full rock model," stated Bartek Kotkowski, Applications Engineering Manager, Fugro-Jason Reservoir Products Division. "Users are guided through building and analyzing the model, speeding the time to results."

RPM is scheduled to enter Beta testing June 1, 2006. General availability is scheduled for July 1, 2006.

RPM Details

RPM integrates the log analysis of PowerLog with rock physics elastic modeling for seismic AVO analysis. It addresses the problem of missing sonic logs by generating quality synthetic compressional and shear sonic logs from a calibrated model that allows rapid and accurate fluid substitute scenarios.

RPM enables a fundamental modeling approach – a theoretical rock model is used to derive the effective elastic rock properties from fluid and mineral parameters, as well as rock structure information. The model parameters are calibrated by comparison of the synthetic to the available elastic sonic and density logs.

RPM uses averaging methods such as Wyllie, Voigt, Reuss, and Hashin-Shtrikman. It also uses the following rock physics algorithms:

- A fast approximation of Xu & White's model
- Greenberg & Castagna's relation
- Gassmann's equation
- Gardners relation

- Modified upper & lower Hashin-Shtrikman method
- Fluid-properties estimation based on Batzle & Wang

Additional RPM features include:

- Project-based graphical workflows and petrophysical parameters
- Workflow canvas, providing the ability to define complex graphs to represent steps in the modeling or calculations performed
- Directed graph to illustrate the interaction, dependencies and order of the workflow of multiple functions
- Easy use of curves or aliases as function parameters, through access to PowerLog's curve list and curve alias list

Once a rock model is constructed, fluid-substitution studies and invasion correction can be easily performed. The rock model enables prediction of elastic curves for lithology parameters that are not present in wells. RPM also allows users to estimate anisotropy parameters from deviated well curves and correct sonic curves for anisotropy influence.

About Fugro-Jason

Fugro-Jason is dedicated to delivering new and better ways to get More Oil with Less Toil™. In 1993 Fugro-Jason's first client began using the Jason Geoscience Workbench for seismic inversion. Since that time a great deal of additional capability has been added, making it possible to integrate geological, geophysical, geostatistical, petrophysical and rock physics information into a single consistent model of the earth. www.fugro-jason.com

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