



Press release

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More than Rock Physics; Ikon Science highlights combined EM and Seismic modelling in the upcoming RokDoc Version 5.3

Ikon Science today announced strategic extensions to the industry standard rock physics package RokDoc®. Enhancements include joint seismic and Electromagnetic imaging (EM) modelling, Vertical Seismic Profile (VSP) interpretation and Pressure modelling. All are proving to be technologies essential to the search for oil and gas in the 21st century.

The upcoming release of the RokDoc EM module, sEisMic, shall provide an interactive environment to investigate the synergies between seismic and EM data within the powerful RokDoc 2D modelling workspace. There is immense interpretational value from combining EM information and seismic data through rock physics modelling. Ikon Science and PGS Multi-Transient EM have worked together to incorporate this technology into RokDoc. The electromagnetic modelling capabilities have been added using algorithms provided by PGS Multi-Transient EM. Common offsets, common shot gathers and real time analysis (RTA) sections can be viewed and analysed along with seismic attribute, amplitude variation with offset (AVO) and rock physics based models.

PressureView, the industry standard package for pressure data viewing and modelling, will be fully implemented as a module for RokDoc. The release will include a reference database searching tool, combined with a redesigned Pore Pressure Calculator (PPC) module. This module will determine the optimum pressure analysis, based on available well data and Pressure Prediction modules for overburden, normal compaction and shale trend leading to enhanced predictions of hydrocarbon column and seal effectiveness.

RokDoc 5.3 will contain many other upgrades and innovations including VSP analysis and a new interactive rock physics driven Stochastic Inversion module. The Stochastic Inversion module enables users to quickly test and identify the correct rock physics discriminators and workflow, before processing large volumes of data. This approach saves immense amounts of time and makes this effective technique accessible to mainstream users. The new VSP functionality includes processing to deliver wavefield separated traces and corridor stacks, together with tools for deriving anisotropic information from 3C, 4C, walk-away and walk-around acquisitions for both land and marine VSP data.

Future releases will further develop rock physics as an integration medium with high tech seismic, EM surveys, High Resolution Gravity/Magnetics, and other technologies, thus opening up a world of improved risk management and an ability to understand complex targets in an easy to use, powerful framework.

The release will also feature enhancements to the RokDoc and Open Spirit® links to Petrel* and other leading interpretation systems which enable the Ikon Science vision of advanced QI tools accessible to interpreters from within familiar environments in order to enhance interpretation insight and reduce data transfer times.

Martyn Millwood Hargrave said “We at Ikon Science believe that the understanding of rock properties is fundamental to getting the subsurface interpretation right first time, particularly in the race to discover and produce the harder to find, “subtle barrel”. RokDoc provides the geoscientist easy access to the powerful combination of seismic and EM technologies underpinned by rock physics modelling in a familiar software environment. We believe that this newest version of our RokDoc software will enable many more discoveries and developments and is the template for future planned enhancements.”

* Mark of Schlumberger © 2007

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Ikon Science develops software, tools and services to help oil and gas exploration professionals interpret subsurface data quantitatively, to assess exploration and production risks and opportunities. RokDoc software is in global use with over 50 Oil Companies and Service organisations and Ikon Science provides quantitative interpretation services and training to over 100 Oil Companies throughout the world.

Ikon Science, founded in 2001, employs over 70 people and has offices in London, Durham, Edinburgh, Houston, Beijing, Kuala Lumpur and Perth, Australia. The company is privately owned and counts Tullow Oil plc and Shell Technology Ventures Ltd among its industry investors.