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Capturing field complexity

LEVERAGING SEISMIC INTERPRETATION MAXIMISES RESERVOIR MODELLING

With average global oil and gas percentage recovery rates in the low 20s, the smallest improvements can have a huge impact on the operators' bottom line and global energy supply. Just a 1% increase would replace up to three years of global oil consumption. 3D reservoir modelling is a vital tool for increasing recovery. A robust, reliable and accurate reservoir model that captures all a field's complexities and heterogeneities can provide crucial information for future field development decisions and optimizing production.

Emerson suggests that reservoir modelling can only be truly effective in increasing oil and gas recovery if it is able to incorporate 3D and 4D seismic into the model. It is this ability to leverage the seismic and take it through a completely integrated reservoir modelling workflow — from reservoir simulation through to reservoir behaviour predictions and uncertainty management — that defines effective reservoir modelling today. It is with this in mind that Emerson's reservoir modelling solution Roxar RMS is designed to enable 3D and 4D seismic data to be incorporated into the reservoir model alongside existing data types such as geological, geophysical and simulation data. The latest version, Roxar RMS 2012, being showcased at EAGE this week, also comes with new seismic inversion and seismic attribute tools. The inversion tool and increased automation allow geoscientists to use seismic data to create a rock property model quickly and accurately. High-frequency information from well logs is combined with band-limited frequency information from the seismic data to provide a fast and highly automated

seismic inversion tool. Emerson says that Roxar RMS is the only inversion tool on the market today that can produce facies probability cubes automatically in the inversion process.

Roxar RMS 2012 also includes a powerful new visualisation toolkit that enables modellers to extract maximum value from their seismic data through the creation of attributes that more clearly define reservoir structure and guide the user through the facies modelling process. Key features include new importing tools for SEG Y datasets and the fast and accurate visualisation of seismic datasets of any size through interactive opacity control and colour manipulation capabilities. The colour-coded attributes are particularly useful for interpreting rock properties, structural features and hydrocarbon accumulations, and can be used for guiding facies distributions and aiding the identification of faults and discontinuities. In this way, operators can derive more from their seismic data and better quantify rock and fluid properties in the reservoir. Taking the seismic stage further forward into the modelling, Roxar RMS 2012 comes with new field planning functionality that allows modellers to quickly and accurately create multiple optimal well plans for their fields. This leads to reduced planning iterations, a shorter planning process, and greater field planning control. Emerson considers the tool to be particularly applicable to unconventional assets such as steam assisted gravity drainage (SAGD) and shale gas fields. Accurate predictive reservoir models that realistically represent the underlying seismic data and offer a seamless route from seismic to simulation are becoming central to improving oil and gas recovery today.



Rapid and Reliable Faults



Unleashing dramatically enhanced fault interpretation productivity

For conventional and unconventional plays, our new guided fault interpretation tools streamline your workflows. FaultScan™ highlights the most fault-like features in your seismic data, using robust geometric filtering techniques. And FaultStream™ dramatically boosts fault interpretation productivity by intelligently snapping to fault features. Together this powerful duo streamlines interpretation while delivering faults you can rely on.

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