



**Press Release:** For immediate release May 18<sup>th</sup> 2009

**NORSAR Innovation releases advanced seismic simulation capability for Petrel\***

NORSAR Innovation, the leading supplier of survey evaluation and design software and services to the Seismic Exploration Industry, is happy to announce that its innovative reservoir-to-seismic software, SeisRoX™, is now integrated with Petrel via the Ocean Framework.

The release of this plug-in gives Petrel users new functionality and a level of integration and accuracy not previously available.

The key components within SeisRoX™ are a) comprehensive rock physics modeling, b) the inclusion of 3D illumination effects caused by the overburden and survey geometry, c) Rapid simulation of 3D prestack depth migrated (PSDM) seismic cubes using an extremely accurate PSDM simulator (SimPLI), which incorporates the effects of illumination as well as lateral and vertical resolution.

The SeisRoX™ plug in to Petrel makes it possible to make a SeisRoX™ model directly from a Petrel simulation model, or a Petrel geo model, and write seismic data from the SeisRoX modelling back to Petrel.

The Petrel user can now dramatically improve their synthetic seismic simulation by including the illumination and resolution effects of the overburden and survey geometry. The process takes a matter of moments and can be run from a standard PC or laptop.

SeisRoX™ therefore provides an efficient, accurate and flexible simulation-to-seismic workflow, truly bridging the gap between the reservoir and seismic. One of the many applications is an improvement in the history matching process during 4D analyses; by including the 3D illumination and resolution effects in the seismic simulation process you can ultimately improve the accuracy of your reservoir model.

Further to this, the plug in can be used for the quantifiable evaluation of future seismic survey designs. Rock physics analysis can now be included in the evaluation of multiple acquisition designs and reservoir scenarios to ensure that you make the right acquisition decisions and maximize your ROI.

NORSAR Innovation will be running live demonstrations of the new SeisRoX plug in to Petrel throughout the EAGE on their booth (#340) and invite you to visit and learn how it can improve your current workflow.

*\*Petrel is a mark of Schlumberger and SeisRoX is a mark of NORSAR.*

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**Notes to editors**

NORSAR Innovation AS markets commercial software packages for 2D/3D seismic modeling and reservoir analysis on behalf of NORSAR; the internationally recognized research institute. NORSAR's R&D history includes research projects, consulting services and software development for the petroleum industry over 25 years.

The core applications of NORSAR Seismic Modeling packages are illumination analysis, survey planning, travel-time calculation and reservoir analysis. Used by Oil companies, Service companies and research institutes in over 80 locations worldwide, NORSAR Seismic Modeling Software provides the tools with which to make informed, quantitative exploration decisions.