



The Future of E&P

PRESENTING SEISMIC STUDIO™ TOMOSTATICS

The World's Leading Tomostatics Package

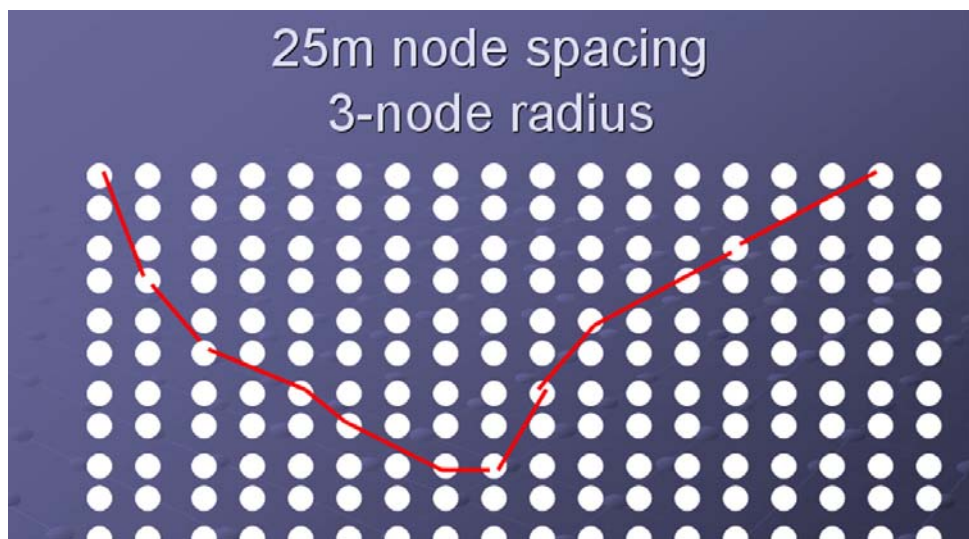
Fusion Petroleum Technologies Inc. offers the world-class geometry and statics solutions available in the Seismic Studio™ software package. Seismic Studio™ is the premier solution for challenging land and marine data sets where shallow subsurface velocity and geometry problems degrade the quality of seismic data. One of the key components that makes Seismic Studio™ unique is the tomostatics module that is included within the toolkit.

The tomography is integrated into Seismic Studio and can be constrained by user constructed uphole models or models derived from conventional refractor models.

Fusion recommends running the Seismic Studio tomography in complex near-surface geologies where conventional refraction statics based on discrete layering assumptions are not valid.

TOMOSTATICS METHOD

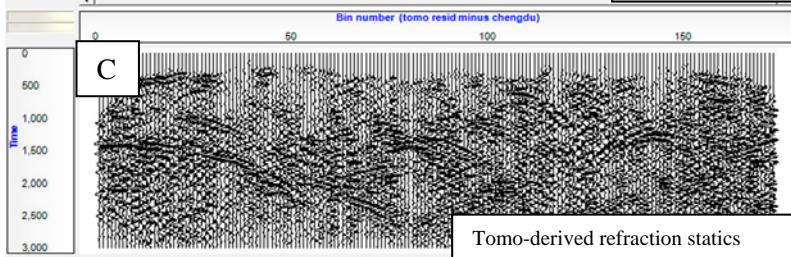
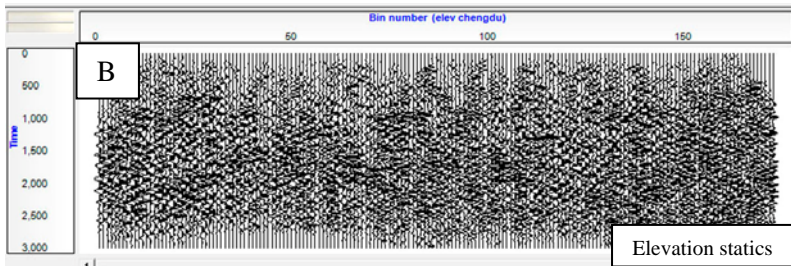
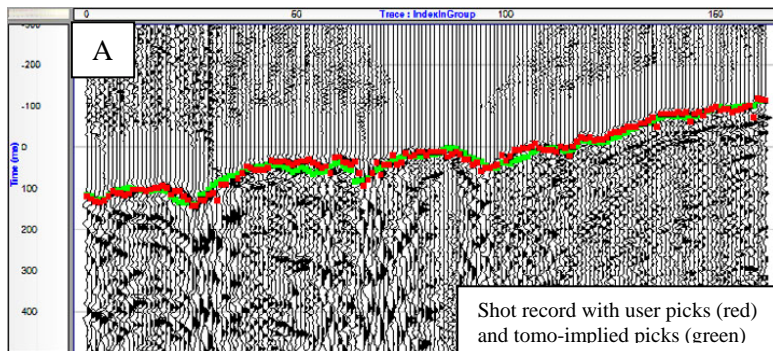
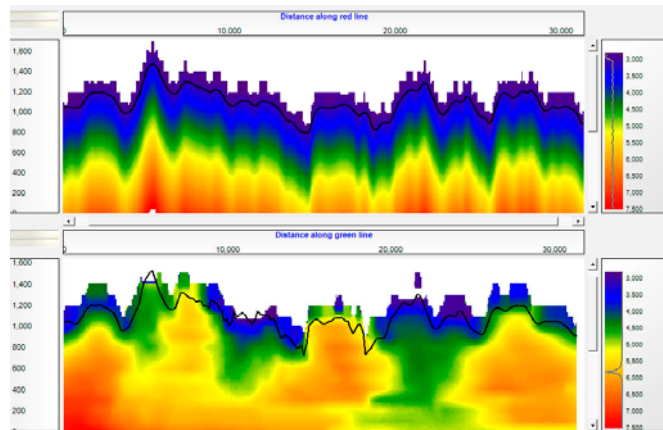
Seismic Studio's 2D/3D refraction tomography features a unique node-based approach. This is a ray-theoretical approach. Resolution depends on the user-specified node spacing and the search node radius. The node density can be modified between iterations to improve resolution on a tomo model between the tomographic iterations.



Example of Fusion node-based approach to tomostatics.

EXAMPLES OF TOMOSTATICS SOLUTIONS

Example of statics before and after the application of tomostatics solution showing the improvement in the details of the velocity field.



Example of first break picks (A) and the results of elevation statics (B) and tomo-derived refraction statics (C).

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