

Synthetics

Seismic-to-Well Calibration

The Paradigm Synthetics utility is significantly different from other products on the market today. Its modern technology and fully interactive workflows have turned seismic-to-well calibration into a natural extension of the interpretation workflow, and opened up a whole new world to interpreters.

Taking Seismic-to-Well Calibration to the Next Level

The Paradigm seismic-to-well calibration utility is a new-generation tool for the Synthetics workflow. Dynamic, interactive and easy to use, the application is based on modern, cutting-edge technology that is unavailable from any competitive offering.

The seismic-to-well calibration tool is an integral part of the Paradigm interpretation system, enabling interpreters to casually perform seismic-to-well calibration within their familiar environment, and make simple use of elaborate technology. The complete calibration workflow can be easily performed directly in the depth domain.

Expert users can perform advanced workflows like multi-well and multi-attribute calibration, AVO and pre-stack calibration, and calibration with rock physics, with the same simplicity of operation.

Setting New Standards

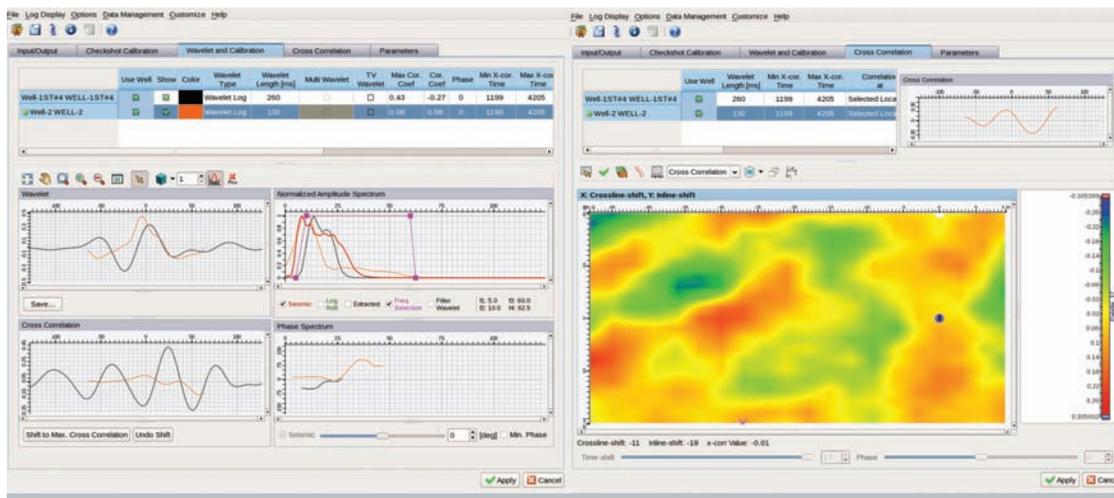
The Synthetics utility is used to generate and optimize synthetic seismograms to match the seismic data. It enables the calibration of well depth with seismic times, and the

extraction of wavelets that best represent the seismic data, for seismic processing and inversion.

A broad range of unique functionalities provide unprecedented benefits to users:

Full integration: Seismic-to-well calibration is performed entirely within the Paradigm multi-attribute interpretation environment. Multi-attribute seismic and multi-attribute synthetics are automatically matched with one click of a button.

Modeling and calibration functionalities: The seismic-to-well calibration workflow is supported by a set of advanced functionalities. Zero and non-zero offset elastic modeling generates both synthetic seismograms and synthetic gathers. A wide range of methods is available for wavelet extraction, based on interactive and automatic algorithms. The calibration process is enhanced by the ability to automatically estimate the best calibration location. Interactive “stretching and squeezing”, controlled by drift analysis, delivers reliable time-to-depth calibration.



▲ Seismic-to-well calibration

