



SMT
KINGDOM

Enabling Every Interpreter To Perform Fast And Robust, Seismic Inversion

KINGDOM Colored Inversion

The increasing complexity of oil and gas exploration and development requires more sophisticated technologies to increase the speed and accuracy of interpretation. By applying Colored Inversion to the seismic data, the interpreter is able to work with impedance data that matches the well acoustic log data, giving confidence that the picks are made on true changes in rock lithology. Ambiguity caused by the seismic wavelet and phase are minimized, leading to more accurate, faster interpretation with minimum effort.

KINGDOM Colored Inversion is a tool for enabling the interpreter to quickly generate an impedance data type for the purpose of more accurate, more confident seismic interpretation.

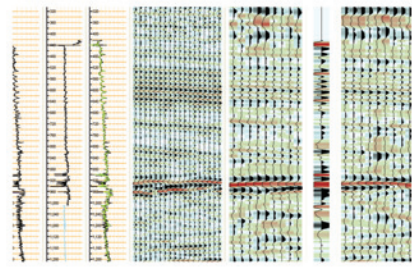
Most interpreters prefer to use seismic inversion as the primary data type for seismic interpretation as it represents a simplified signal compared to the normal seismic response. The inverted data represents true geological layering rather than the wavelet response at an interface.

Colored Inversion is a proven technique that is fast and easy to apply to seismic data, yet it produces results that match more sophisticated and compute intensive techniques such as sparse spike inversion. The software has been designed so that it can be used by the interpreter with seismic data and one or more wells with a velocity (and ideally, density) log.

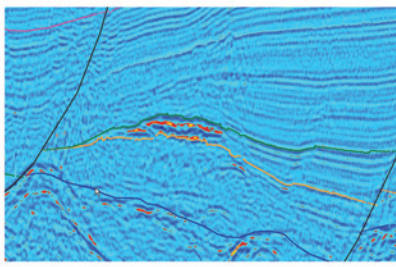
The resultant output matches the well character within the seismic bandwidth and automatically performs phase correction. The seismic events match the well events closely in character, thereby minimizing the risk of interpreting incorrect or unwanted seismic events, thus improving the speed and accuracy of the interpretation. This increase in interpretation efficiency easily offsets the time spent creating the inversion data.

Benefits

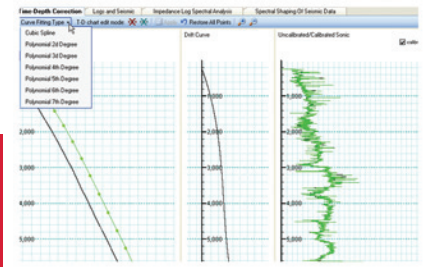
- Provides a fast and robust method of generating a seismic inversion data type ideally suited for use by all interpreters
- Matches seismic data to well log data within the seismic spectrum to produce cleaner data with less noise and signal instability
- Simple for the interpreter to set up and use
- Processes seismic volumes to inversion volumes at high speed
- Fully integrated with KINGDOM interpretation modules
- Increases interpretation productivity and accuracy cost effectively



Quick And Easy To Generate Results



Highlights Low Impedance Gas Sands



Calibration Of Sonic Logs



Colored Inversion Key Features

- Improves seismic interpretation data quality
- Brings seismic inversion to the interpreters desktop
- Generates an inversion data type ideally suited for interpretation
- Matches seismic data to well data
- Easy to use and easy to set up
- Supports single or multi-well operation
- Computes and applies phase correction automatically
- Stores checkshot calibrated sonic logs in the project database
- Fully integrated with KINGDOM's database – no data I/O issues

About Us

Since 1984, Seismic Micro-Technology, Inc. (SMT) has provided the upstream E&P industry with innovative software solutions that have changed the game for ease of use, cost-effectiveness and total integration. We developed the first geoscience interpretation tools for the Windows® environment to help fast-track interpretation, collaboration and decision-making while delivering exceptional accuracy and consistency. Today, SMT is the global leader for geoscientific interpretation software- now used by geoscientists in 100 countries.

To learn more about how SMT can help reduce your time to first oil, visit www.seismicmicro.com.

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