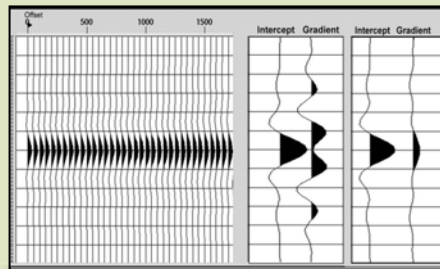


WAVO™

Advanced AVO Imaging — Wavelet-Based AVO Analysis

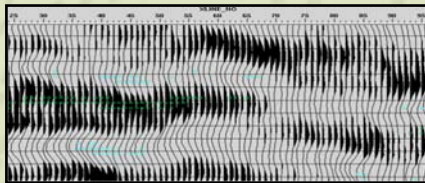
In the search for solutions to address increasingly complex reservoir challenges, E&P companies push the demand for more sophisticated technology. AVO - Amplitudes Versus Offset - is an example of a technology maturing to meet these increasing demands. The AVO now being analyzed in non-traditional geologic settings, such as basins with compacted rocks and in the deepest part of younger basins, is a more complex type of AVO. A strong focus on improving AVO technologies combined with a greater understanding of the effects of fracturing and anisotropy has produced the next wave in technology advancement - a wavelet-based approach to AVO analysis. Building on the solid foundation of AZIM™ anisotropic processing, ION GX Technology's (GXT's) WAVO technology is designed to overcome the limitations of conventional AVO in more complex data environments, particularly areas with low signal to noise ratios and thin-bed stratigraphy. Companies utilizing WAVO for AVO analysis build more confidence in their risk assessment prior to drilling.

WAVO utilizes a wavelet-based (rather than sample-by-sample) AVO calculation that improves the accuracy of 2 and 3-term AVO, as well as, azimuthally varying AVO. Less sensitive to NMO stretch and tuning than conventional AVO techniques, this technology enhances the ability to identify and evaluate AVO anomalies to more accurately predict the presence of hydrocarbons.



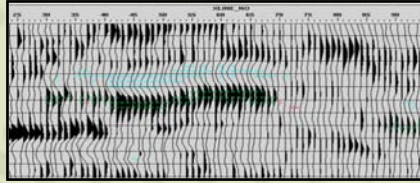
Notice NMO stretch which causes errors at zero crossings with conventional AVO

Standard AVO Analysis Technique



Gradient

GXT's WAVO Analysis Technique

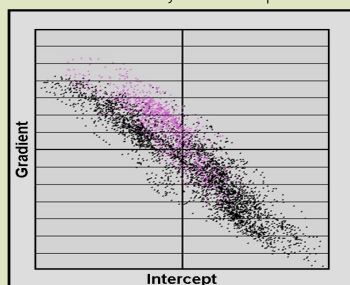


Gradient

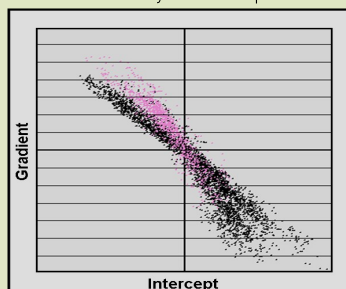
WAVO ADVANTAGES OVER CONVENTIONAL AVO INCLUDE:

- Less noisy AVO gradient calculations
- Better defined lithologic trends with intercept-versus-gradient crossplots
- More readily discernable AVO anomalies in both crossplot and attribute volumes for more accurate interpretation
- Elimination of false AVO anomalies created by tuned reflections
- Better ties to AVO models from the well data
- More statistically robust results

Standard AVO Analysis Technique



GXT's WAVO Analysis Technique



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