Terraplus
empowering discovery

your source for geophysical instruments

SeisImager/DH
Downhole Data Analysis Software

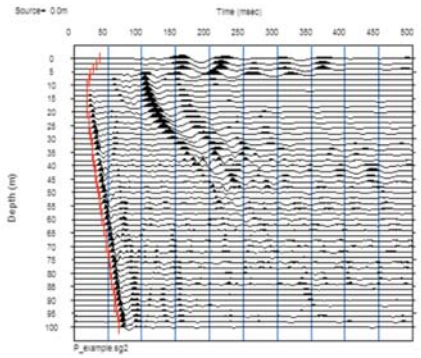
Downhole seismic surveying is a proven method for obtaining in-situ subsurface information, often not available through sur-face seismic surveys. Applications include earthquake hazard site response studies, dam safety investigations, foundation studies, measurement of soil and rock properties, and velocity control for seismic reflection surveys.

SeisImager/DH downhole software is a fully-integrated modeling and interpretation package that runs on your Windows PC.

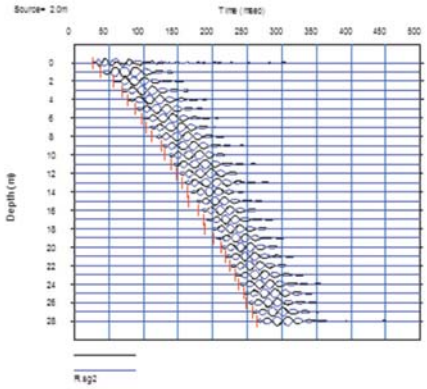
First breaks are identified quickly with an accurate automatic picker, with manual override. Noisy data is cleaned using comprehensive filtering. Waveforms are optimized using a unique polarization function that rotates and aligns horizontal components with the direction of particle motion. Calculate layered velocity models using the robust least-squares method.

SeisImager/DH is available for purchase separately or as an option with the ES, SmartSeis ST, Geode, and StrataVisor NZ seismographs. A rental package is also available. Contact Geometrics for prices and to find out more about how SeisImager/DH can work for you.

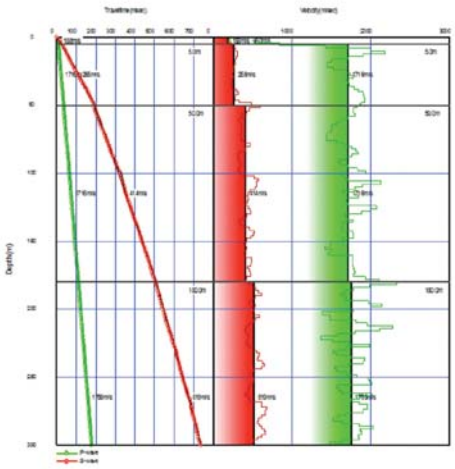
- Analyze P-wave and S-wave downhole seismic data acquired with a variety of sensors (downhole hydrophone arrays, borehole geophones, suspension loggers).
- Automatic and manual first break picking.
- Calculation of layered velocity models using robust least-squares method.
- Specialized functions to calculate particle motion and rotate waveforms into alignment (polarization).
- Interactive quality control tools to optimize results.
- Optional add-ons for refraction and surface wave (MASW, microtremor, H/V spectrum) data processing.



Example P-wave waveforms with first break picks



Example S-wave waveforms with opposite polarity records overlaid to optimize first break picking



Final velocity model showing P-wave and S-wave interval velocities.

Specifications subject to change without notice. SeisImagerDH_v1 (0617)

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