GAWave™

Proven Forward Modeling

GAWave's industry-leading accuracy and efficiency ensure that you'll get the clear results you need.

Capabilities and applications include:
- Large model capacity
- Wide bandwidth with full accuracy
- Real-world surface topography from any digital terrain model
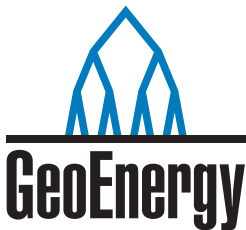- Imaging

TECHNOLOGY

GeoEnergy's team of scientists and engineers has been at the forefront of recent developments in the field of Prolate Spheroidal Wavefunctions (PSWF). GAWave's patent-pending core algorithms utilize PSWF to accurately and efficiently represent bandlimited data such as seismic wavefields. The unique properties of the PSWF representation allow GAWave to solve the variable-density forward modeling problem using a low spatial sampling rate, while maintaining full accuracy across the bandwidth of interest with no numerical dispersion. These features are especially important when modeling propagation through complex structures and/or at very deep depths.

DELIVERABLES

- Illumination studies.
- Imaging for survey planning.
- Time-lapse studies.
- Synthetic gathers delivered in SEG-Y format.
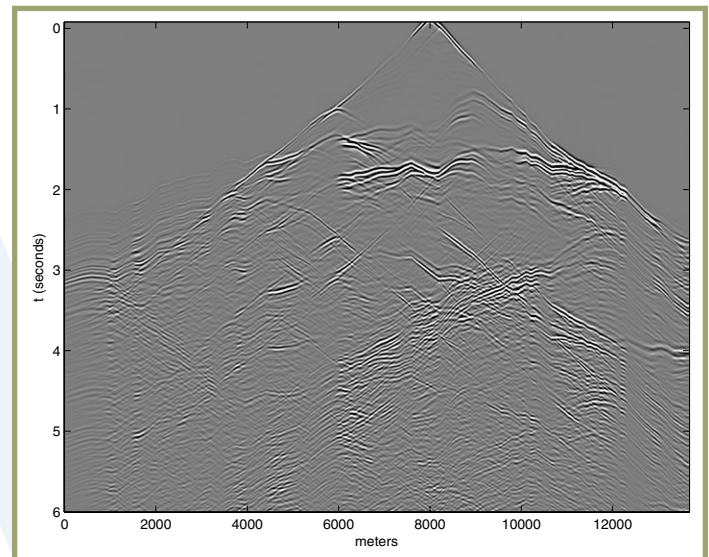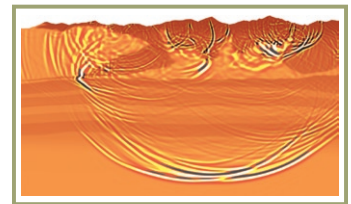
Variable-density acoustic wave propagation with mountainous topography.

GeoEnergy

Get the Clear Picture