EARTH SIGNAL PROCESSING LTD

ONSHORE

SEISMIC PROCESSING

EXPERTS

SINCE 1993

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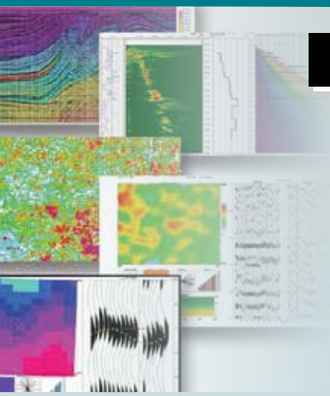


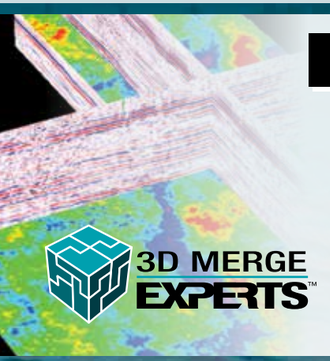
Unique Solutions

Earth Signal offers a wide range of customized solutions to our clients.

- Exclusively Onshore Processing
- 2D/3D Processing
- 3D Pre-Stack Merge
- 3C Multicomponent S-Wave Processing
- 4D Time Lapse Processing
- 5D Pre-Stack Interpolation
- Anisotropic Pre-Stack Time Migration (PSTM)
- Pre-Stack Depth Migration (PSDM)
- Gather Conditioning for AVO analysis
- Pre-Stack Simultaneous AVO Inversion
- Seismic Attribute Volumes
- P-Wave Azimuthal Anisotropy Analysis

People

Earth Signal is the largest dedicated onshore seismic data processing company in the Americas. Our highly trained group of Seismic Processors, Technologists, R&D, Programming and Customer Service personnel share their experience and knowledge in a collaborative team approach. Our processing Geophysicists have experience working with seismic data from around the globe, and our dedicated group of technologists, who collectively have over 7 decades of experience writing geometries, ensure proper geometry assignment every time.

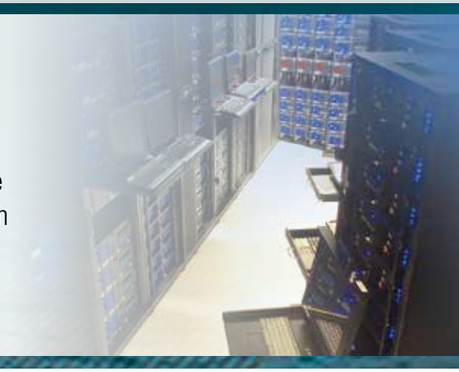


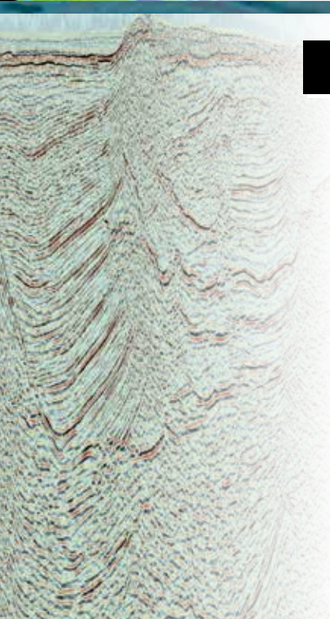
3D Merge Experts

Earth Signal employs unique software tools and methods for creating not only the best possible 3D merge volumes, but we also have a superior approach for outputting individual 3Ds from merged volumes. We use three main proprietary techniques in our approach to eliminate seams, and to produce a superior result. Our largest merge to date involves over one hundred separate 3Ds, all with different sources, patch sizes, and orientations with over 375,000 shot points and 7,000,000 million bins.

Hardware

Earth Signal maintains a scalable, state of the art hardware infrastructure with enough capacity to handle multiple large projects simultaneously. Due to our abundant processing power, massive online disk space, and our collaborative team-based company structure, Earth Signal holds a significant ability as far as turnaround time and data quality for onshore processing projects.





Software

SeisRight™ 100% Proprietary Software. Since day one, Earth Signal has been developing our own 100% proprietary SeisRight™ processing software suite. Our main focus during this development has been to create innovative algorithms with efficient workflows allowing us to provide our customers with the highest quality products. We employ a dedicated team of R&D and Programming staff who are continuously developing and maintaining our proprietary software. In house development allows us to be extremely flexible and customer driven in our solutions and not dependent on a third party provider for updates. As we exclusively process onshore seismic data, we have created customized solutions for land seismic surveys including extreme care and attention to statics, velocity analysis, noise attenuation and geometry confirmation to ensure the best final output.

Global Experience

From Alaska to New Zealand and almost every place in between, Earth Signal has experience with projects spanning the globe. Dedicated on shore processing has exposed Earth Signal to data challenges ranging from high-resolution stratigraphic targets to complex thrust-belt processing. Using web based video conferencing, secure internet data transfer, remote log in, and live viewing of our SeisRight™ software, we can easily interact with our customers from around the globe. Due to the flexibility of our system, on site processing and QC services are also available.

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