

ONSHORE SEISMIC PROCESSING EXPERTS



EARTH SIGNAL
PROCESSING LTD



Through superior results, Earth Signal has expanded our footprint globally and successfully completed seismic processing projects in over 55 countries.



Diverse Expertise

Dedicated onshore processing has exposed Earth Signal to data challenges ranging from high-resolution stratigraphic targets to complex thrust-belt environments.

We have utilized our learnings from all around the globe to optimize solutions for land seismic surveys focusing extreme care to geometry confirmation, attention to static solutions, velocity analysis and noise attenuation techniques.

In addition to working in many geographical areas, Earth Signal has written many extended seismic attributes. Utilizing and compiling our expansive knowledge we are constantly learning. We adopt new ways of implementing quality control methods on the data for both the pre-stack domain along with the stack outputs.



Delivering Globally

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 and have full access to our hardware software and people.

PROVEN GLOBAL EXPERIENCE

25+ YEARS

At Earth Signal, our dedicated team of professionals use sound geophysical methods, attention to detail, proven robust proprietary software and prompt service to provide our clients with accurate, consistent onshore seismic solutions. Since 1993, thousands of wells have validated our seismic sections and we are privileged that many of our clients have been with us since the beginning.

We take an investigative approach to seismic processing, allowing us to turn your data into information every step of the way. Work with us on your next processing project and experience the difference collaboration makes.

OUR PEOPLE FULLY INTEGRATED TEAM

- Highly trained group of Seismic Processing Geophysicists
- Large multi-disciplinary team of Research & Development Staff
- Dedicated in-house programming group
- Seismic Technologists devoted exclusively to front-end processing
- Balanced set of demographics focused on providing first rate service



TECHNOLOGY & HARDWARE SITUATED ENTIRELY IN-HOUSE

- Client driven
- Industry leading algorithms
- State of the art, scalable hardware infrastructure
- High-capacity set of resources capable of supporting multiple projects
- Custom parallelization and threading to maximize productivity



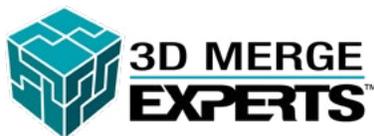
CAPABILITIES

Earth Signal offers a full suite of customizable solutions to our clients.

Earth Signal's proprietary software has evolved from over 25 years of tailoring its application to exceed the needs of our clients and improve the lives of our employees.

The complexities of our leading workflows are rapidly advancing and offering full in-house management and development of our software is viewed as a huge asset. This allows us to be extremely flexible and customer driven in our approach to updating our imaging toolbox.

A fully unified software platform and hardware suite allows us to offer an exclusive set of resources to each of our customers producing repeatable, trustworthy solutions within a cost controlled environment.



SERVICES

- DEDICATED ONSHORE PROCESSING
- TRANSITION ZONE & OBC
- 2D/3D PROCESSING
- 3D PRE-STACK MERGING
- 4D TIME LAPSE PROCESSING
- 5D PRE-STACK INTERPOLATION
- 3C MULTICOMPONENT PROCESSING
- SHEAR WAVE SPLITTING ANALYSIS
- ANISOTROPIC PRE-STACK TIME MIGRATION (PSTM)
- PRE-STACK DEPTH MIGRATION (PSDM)
- AVO COMPLIANT WORKFLOWS AND NOISE ATTENUATION TECHNIQUES
- GATHER CONDITIONING FOR AVO ANALYSIS
- PRE-STACK JOINT PP/PS SIMULTANEOUS AVO INVERSION
- SEISMIC ATTRIBUTE VOLUMES
- P-WAVE AZIMUTHAL ANISOTROPY ANALYSIS (VVAZ)
- AZIMUTHAL AVO ANALYSIS (AVAZ)
- ACQUISITION PARAMETER VERIFICATION
- HARMONIC NOISE REMOVAL
- SIMULTANEOUS SOURCE DEBLENDING
- FASTTRACK SERVICES
- CUSTOMER SATISFACTION

TIME IS A VALUABLE RESOURCE ***FASTTRACK SERVICES***

INDUSTRY LEADING TURNAROUND TIMES

Every project at Earth Signal begins with a FastTrack processing sequence. This sequence is designed to unearth potential issues in the data so they can be assessed and rectified in an accelerated timeframe and allow your project to stay on track.

Additionally, this service provides our clients with early hands on review of the data. Whether collaborating on a new acquisition or undergoing a reprocessing effort, this FastTrack deliverable is equally an exciting and essential building block for any successful project.

SEISRIGHT™

**100% PROPRIETARY
SOFTWARE**

Creating a 100% proprietary processing system, SeisRight™ has been a conscious choice from the inception of the Company. We believe this is where true quality control really begins, and allows us to respond to the needs of our clients in the timeliest fashion.

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.

WELL GUIDED PROCESSING

Similar looking seismic sections may not be geologically equivalent when examining all of the products derived from the data.

As such, Earth Signal has developed a well guided processing approach to ensure that every processing step improves well ties for both stacks and gathers. Well guided processing, with its accompanying quality controls aid interpretative stages beyond stack interpretation, into amplitude inversion, depth conversion and attribute extraction.



Earth Signal employs exclusive software, tools and methodology for 3D pre-stack merging and has been providing truly superior merge products across the globe.

- ✓ Focused on honouring true amplitudes and fidelity throughout the processing run stream while ensuring the final merge volumes are seamless.
- ✓ Proprietary techniques to quantitatively assess phase, static and amplitude ties across every merge zone.
- ✓ Meticulously integrate surveys with varying geometry orientations, source types, and patch dimensions utilizing 5D prestack



CONTACT OUR TEAM TODAY



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