



Turn Seismic Into Cashflow

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Traditional seismic processing optimizes structural and stratigraphic understanding to identify potential hydrocarbon reservoirs. However, these methods often fail to preserve seismic amplitude integrity across all offsets, which is essential for accurately interpreting net-to-gross (NTG) distributions, porosity, and fluid types (gas, oil, and brine).

Inspired by patented innovations during our ExxonMobil tenure, our proprietary workflows transform your legacy seismic data into band-limited V_p/V_s and porosity derivative volumes. These volumes are automatically interpreted to delineate top and base horizons of detected geobodies. Summary results provide a ranked list of economic prospects—previously identified and new—while isolating non-economic and wet reservoirs. These results enable decision makers to focus on highest cashflow opportunities, and also provide a step change increase in the total value of all your seismic data.

What we do:

1. Apply our proprietary blend of filters for band-limited elastic impedance inversion, dip-steered noise reduction, time alignment and prospect friendly amplitude normalization, delivering re-processed seismic inputs and high-fidelity QI -complete derivative volumes - all of it via automated workflows.
2. Optionally merge multiple heterogeneous 2D/3D datasets into unified volumes to boost interpretation efficiency and streamline anomaly detection.
3. Automate geologic interpretation and seismic anomaly detection at every sample of the input data, highlighting the best hydrocarbon outliers, contrasting with water-filled zones for clearer target selection.
4. Produce a ranked list of opportunities that highlights the most economically impactful reservoirs.

The business impact

- Focus drilling and work-overs on the most promising sweet spots, increasing cashflow from your acreage.
- Cut decision time from months to weeks, empowering scarce technical staff.
- Support retain, divest, or acquire decisions with impartial seismic-based resource maps that leverage your full seismic inventory, align with all well data.

Why clients choose GeoInquest

- 25+ years of QI and research experience embedded in fast to implement automated workflows.
- Consistent lead generation, normalizing amplitude behavior across lines, surveys, and basins - in other words, unifying all petrophysical and geophysical response of the rocks to a single reference.
- Fast, affordable projects: days from start to finish using your existing seismic, with no a priori knowledge.

Sample use cases

- Mature field optimization: find bypassed pay and high-porosity zones before divestment or infill drilling.
- Exploration screening: rapidly rank un-drilled closures and subtle stratigraphic traps over large acreages.
- Geothermal, shallow hazard: apply the same derivatives to non-hydrocarbon targets.

GeoInquest's Ideal customers

- E&P operators (majors, independents, NOCs) with existing 2D/3D seismic portfolios.
- Private equity, investors, and mineral owners evaluating acquisition, divestment, or infill opportunities.
- Developers in geothermal, mining, CCS, or shallow hazard projects leveraging seismic as a decision drive.