

InverSeis™

Full Waveform Elastic Inversion

With InverSeis™ you'll have a clear idea where your prospects lie.

InverSeis™ can:

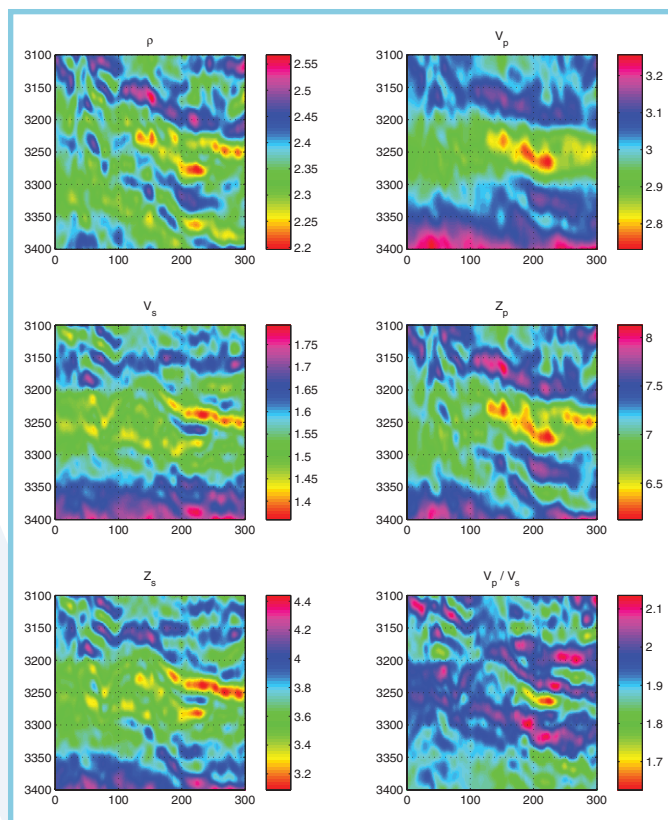
- Work directly on non-NMO-corrected gathers
- Handle primaries and multiples
- Offer a complete elastic solution including V_p , V_s and density
- Provide robust separation of lithology and fluid

TECHNOLOGY

Wave-equation-based seismic inversion is a new technology employing robust wave equation modeling and hybrid optimization techniques for the inversion of prestack migrated data. InverSeis™ employs wave equation modeling and works directly on prestack migrated data which have the NMO removed, thus honoring the physics of the problem. In addition, InverSeis™ can work with only primaries or with primaries and multiples. The computed elastic parameters from prestack migrated gather inversion are P-wave velocity, S-wave velocity and density. For each computed elastic parameter a probability density or simply minimum and maximum values are also computed. The use of the inverted elastic parameters provides a robust, new method for lithology/fluid discrimination, porosity estimation and net to gross estimation.

SERVICES OFFERED

- Prestack migrated gather elastic inversion
- Porosity estimation
- Net to gross estimation



Example of elastic parameters output from InverSeis™ when run on real seismic data.

