



Seismic Processing

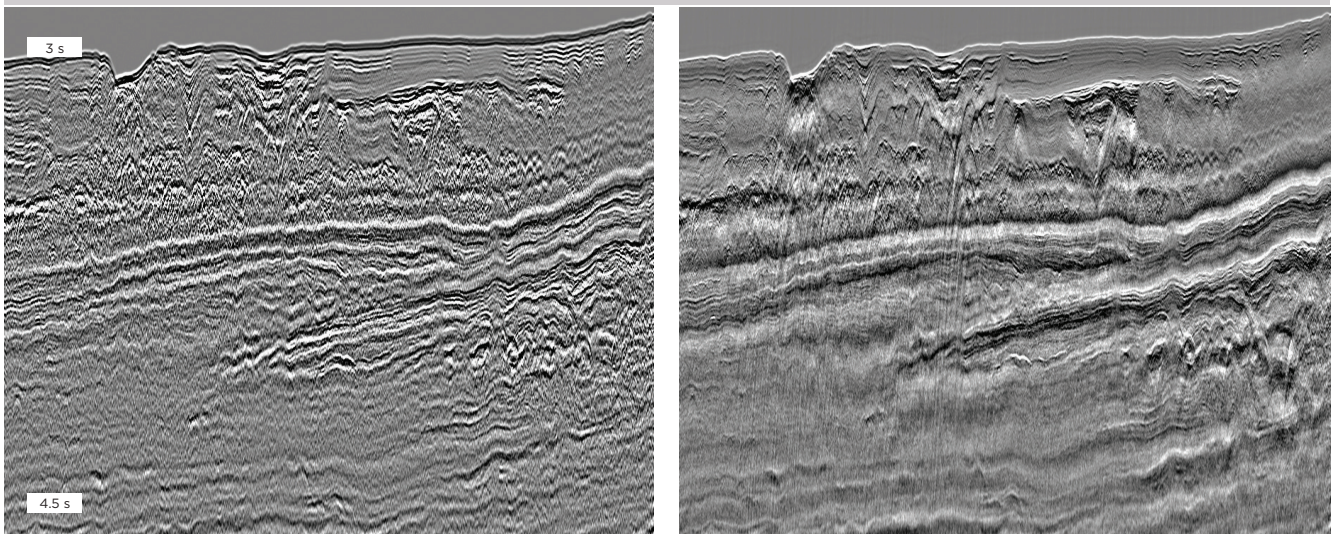
We are committed to delivering broadband data of the highest quality - ready for quantitative interpretation and tailored to suit the needs of our clients.

We have developed key technologies in deblending, noise removal, deghosting, designation, demultiple, data regularisation, imaging and post-migration processing. Our experienced teams process huge datasets of all types within our own interactive and interpretive processing system.

OUR COMPREHENSIVE PROCESSING TOOLKIT INCLUDES:

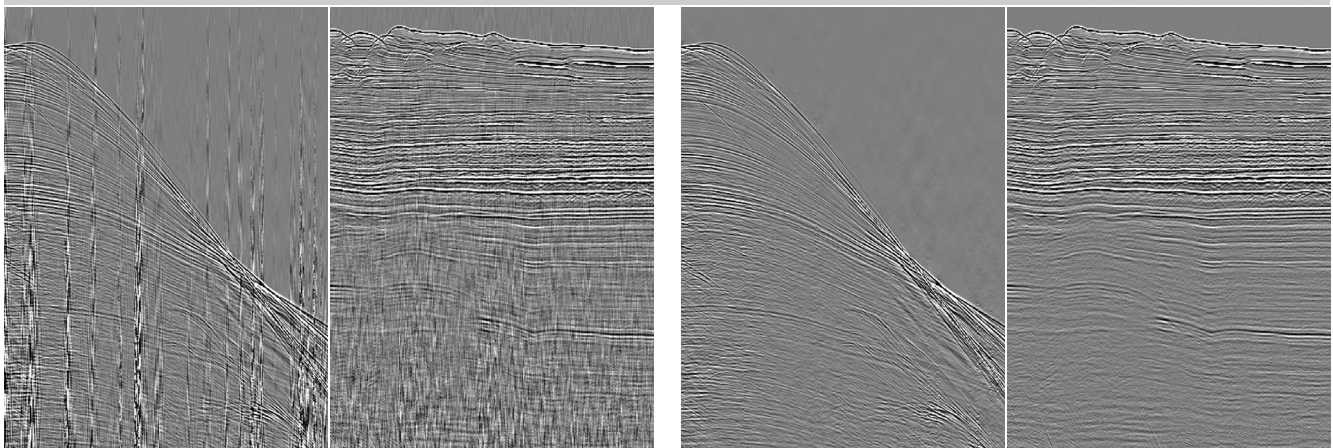
- › **DUG Deblend** – inversion-based deblending including seismic interference
- › **Machine learning** – swell noise attenuation using CNNs
- › **DUG Broad** – 1C and 2C wave-equation-based deghosting
- › **NFH** – directional source designation using near-field hydrophone recordings
- › **3D SRME** – surface-related and interbed multiple elimination respectively
- › **SW-SRME** – 3D surface-related multiple elimination for shallow water
- › **ISS IME** – inverse scattering series interbed demultiple
- › **Adaptive subtraction** – curvelet, time-space domains, pattern matching and machine learning
- › **Surface consistent processing** for statics, amplitudes and deconvolution
- › **DUG Reg** – 2D/3D/4D/5D interpolation and regularisation
- › **Multi-azimuth tools** including COV processing and anisotropic, azimuthal moveout corrections
- › **Inverse-Q** – AVA-compliant Q compensation
- › **Post-migration** – comprehensive AVA-friendly workflows

BEFORE AND AFTER DUG BROAD



01. Brute stack before (left) and after (right) source and receiver deghosting with DUG Broad.

BEFORE AND AFTER MACHINE LEARNING SWELL NOISE ATTENUATION



02. A shot gather and stack section before (left) and after (right) machine learning swell noise attenuation.