

3D PSDM BEAM Case Study- Beaufort Sea

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In November of 2006, Devon Canada selected Applied Geophysical Services (AGS) to pre-stack depth-migrate 400 sq km of seismic data in the Paktoa region of the Beaufort Sea. The Paktoa complex is an inversion anticline formed by reactivation of an extensional fault system. The Paktoa complex had been processed previously several times, but an area of poor data in the core of the anticline mislead geologic interpretation. Using their proprietary Beam algorithm, AGS successfully imaged steeply dipping events in this area (see Figure 1). These events terminate against an unconformity, and also conformably continue onto previously imaged events. In addition, AGS finished the Paktoa project in less than one month.

AGS will present their proprietary 3D PSDM BEAM algorithm and discuss the significant advantages of their technique: fast and accurate data processing, steep dip determination, rapid tomography and enhanced multiple attenuation. The Paktoa dataset as well as synthetic data will be used to demonstrate AGS's processing suite.

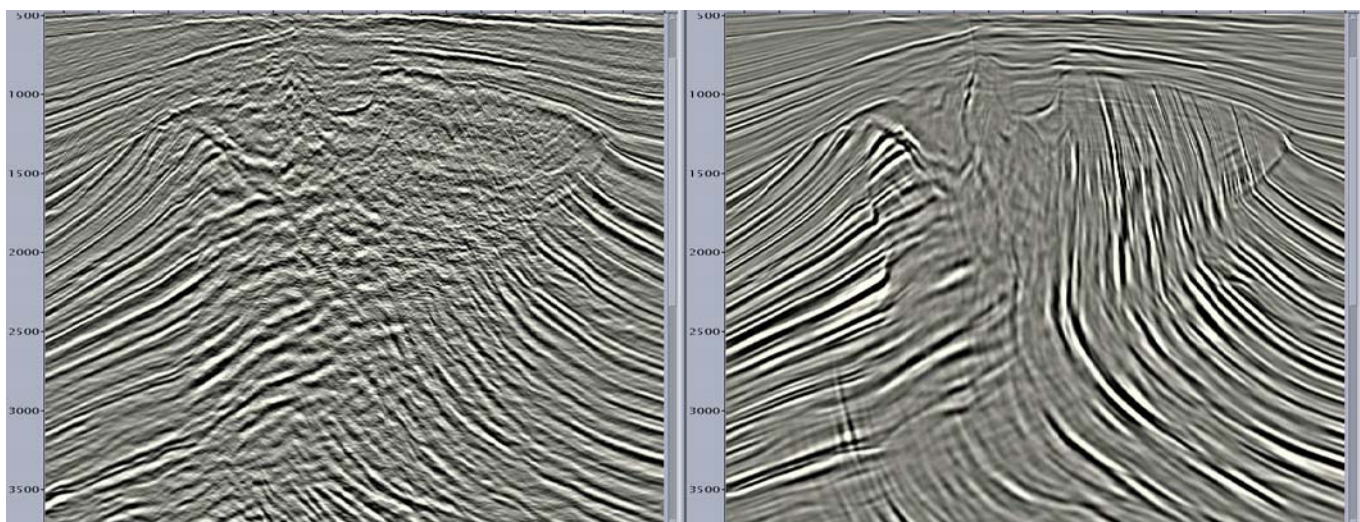


Figure 1. Left side, previous image; Right side, AGS processed image