NWS Australia 2D GeoStreamer®

32 800 line km of true broadband GeoStreamer and conventional long offset MC2D seismic data

Since 2007 PGS has acquired true broadband GeoStreamer and conventional long offset MC2D seismic data covering the Northwest Shelf Australia and the Timor Sea.

Lines positioned to tie key wells across the Northwest Shelf aligned to optimally image key geological trends which has shown the PGS MC2D data to be the foundation for regional understanding of the Westralia SuperBasin.

Long offset and long record length 2D seismic data for structural framework geological studies including true broadband Dual sensor GeoStreamer lines with pre-stack AVO/AVA fidelity.
SURVEY SUMMARY

Type: 2D
Geostreamer: Yes
Geometry: Standard
Size: 32 846 km
Acquisition year: 2007-2010
Completion of processing: 2008-2011
Shooting direction: Various
Vessel: Beaufort

ACQUISITION PARAMETERS

Number of streamers: 1
Streamer length: 7 000-8 100 m
Shot interval: 25-37.5 m
Record length: 8 000-12 000 ms
Source depth: 7 m
Sample rate: 2 ms

PROCESSING AND DELIVERABLES

Processing: 2D surface related multiple elimination (SRME), High resolution radon demultiple, XT / Tau-P Deconvolution, Kirchhoff prestack time migration (PSTM)

Time products: Final Kirchhoff PSTM Stack, Angle stack near, Angle stack mid, Angle stack far, PSTM gathers, Stacking velocity, Migration velocity

Imaging to the deepest structures underlying the Westralia Super Basin

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