



Browse Basin – Australia – 2011

Gwydion 3D

This dataset survey covers the Gwydion oil discovery on the Yampi Shelf, Browse Basin

The Gwydion discovery challenges the perception of the Browse Basin as being solely gas-prone, providing proof of oil generation and migration within the Browse Basin.

The target is marine Lower Cretaceous sandstones that are draped over a prominent Basement high.

3D seismic data to better understand structural complexity of survey area.

SURVEY SUMMARY

Type: 3D
Geometry: Standard
Size: 198 sq. km
Acquisition year: 2011
Completion of processing: 2011
Water depth: 70-90 m
Shooting direction: NW/SE
Vessel: Pacific

ACQUISITION PARAMETERS

Number of streamers: 6
Streamer length: 6 000 m
Streamer separation: 100 m
Shot interval: 12.5 m
Record length: 4 608 ms
Source depth: 5 m
Sample rate: 2 ms

PROCESSING AND DELIVERABLES

Processing: 2D surface related multiple elimination (SRME), High resolution radon demultiple, Kirchhoff prestack time migration (PSTM)

Time products: Final Kirchhoff PSTM Stack, PSTM gathers, Stacking velocity, Migration velocity, Angle Stacks