EXPLORE AUSTRALIA

YAMPI–LEVEQUE SHELF, BROWSE BASIN
WESTERN AUSTRALIA

Areas W07-8, W07-9, W07-10 and W07-11

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BIDS CLOSE 17 APRIL 2008
Current Exploration Opportunities in the Yampi–Leveque Shelf, Browse Basin, Offshore Australia. Open for bids until 17 April 2008

Areas W07-8, W07-9, W07-10 and W07-11
- Under-explored areas adjacent to a proven Mesozoic oil and gas province.
- Water depths less than 200 m.
- Evidence of oil and gas migration.
- Thick Early–Middle Jurassic (Plover Formation) and Early Cretaceous (Echua Shoals formations) sediments with possible source potential.
- Special Notices apply, refer to Guidance Notes.

Geoscience Australia Reports/Products
New Reports/Products
- Browse Basin Composite Well Logs (2005), GA Catalog No. 61189.
- Oils of Western Australia II: Regional Petroleum Geochemistry and correlation of crude oils and condensates from Western Australia and Papua New Guinea (GA and GeoMark Research, 2005).
- Source rock time-slice maps (TOC, HI, VR), offshore Northwest Australia - 1:3,000,000 scale. GA Catalog No. 61179.
- Testing natural hydrocarbon seepage detection tools on the Yampi Shelf, northwestern Australia. GA Catalog No. 61177.

Other Reports/Products
- Browse Basin high-resolution seismic survey BBHR-175, and Interpretation Report. GA Record 1997/38.
- Browse Basin Organic Geochemistry Study. GA Record 1997/57.
- Characterisation of Natural Gases from West Australian Basins: Browse Basin Module (GA and Geotechnical Services Non-exclusive Study, 2000).
- Interpretations of Geoscience Australia’s regional deep-seismic data, Survey 19, 1, 2000 in digital horizon and fault data in ASCII format. GA Catalog No. 35244, 35248.

Contact Geoscience Australia’s Sales Centre for more information or to order these reports or products, phone 61 (0)2 6249 9966, e-mail sales@ga.gov.au

YAMPI–LEVEQUE SHELF PETROLEUM PLAY ELEMENTS

Source
- Plover Formation (Early to Middle Jurassic), Vulcan Formation (Late Jurassic), Echua Shoals and Jamieson Formations (Early Cretaceous).

Reservoir
- Plover Formation (Early to Middle Jurassic), Vulcan Formation (Middle Jurassic to Early Cretaceous), Echua Shoals Formation (Early Cretaceous).

Seal
- Vulcan Formation (Middle Jurassic to Early Cretaceous) and Echua Shoals Formation (Early Cretaceous) regional seals.
- Plover Formation (Early to Middle Jurassic).

Traps
- Faulted anticlines, horst/tilted fault blocks, drake anticlines and stratigraphic traps.

Infrastructure and Markets
- Likely region for future gas development, with development plans and Browse/Ichthys field and appraisal drilling of Calbariie and Torosa fields.

1. Location map of areas W07-8 to W07-11 in the Yampi–Leveque Shelf, Browse Basin showing existing petroleum title areas and known petroleum fields and discoveries.
2. Regional setting of the Browse Basin also showing the location of seismic line BBHR 175/7 (Fig 3).
3. Seismic line BBHR 175/7 through Maranbu 1, central Caswell Sub-basin to Yampi 1 on the Yampi Shelf.
4. Tectonostratigraphic summary and hydrocarbon discoveries for the Browse Basin.