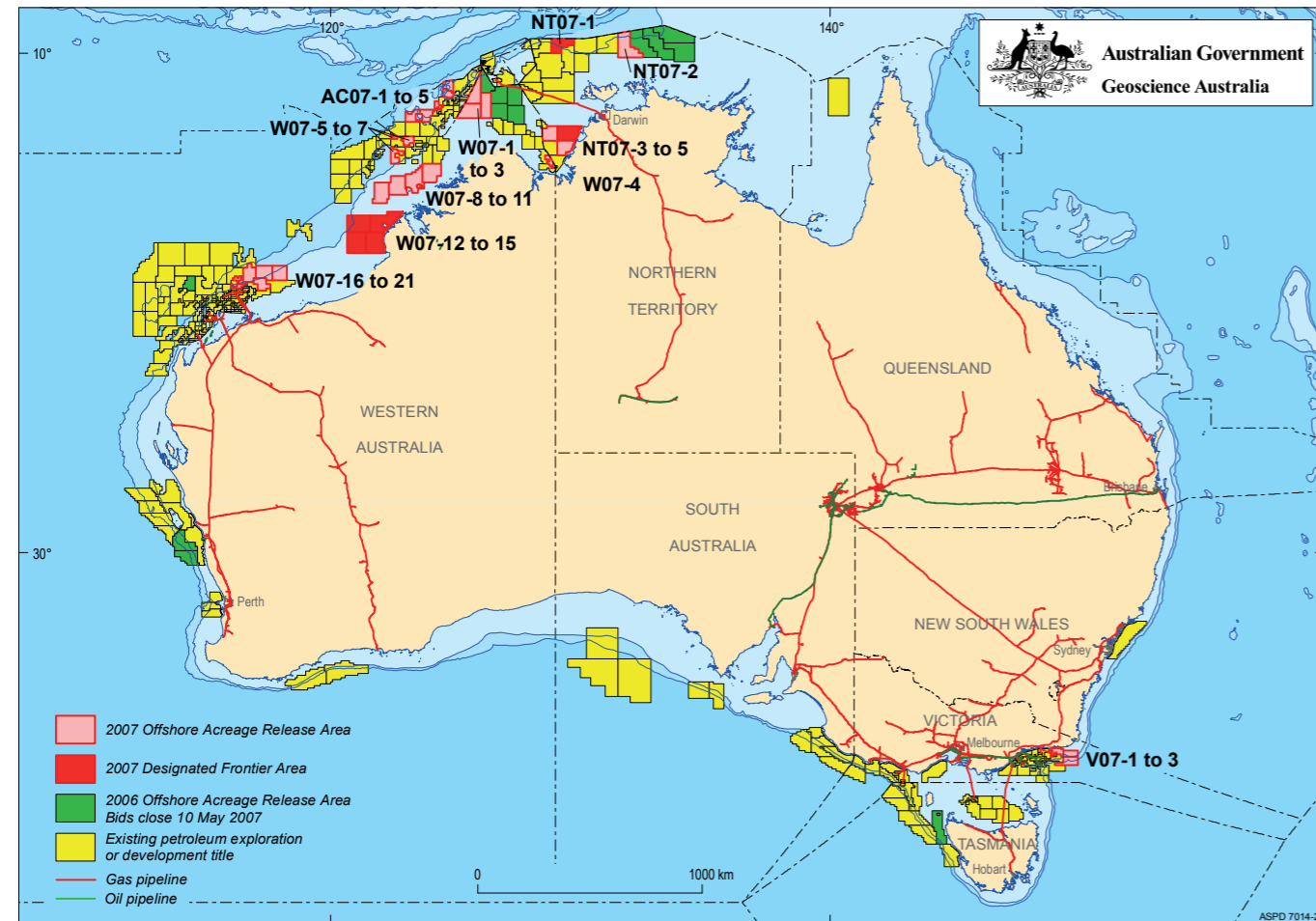


## 2007 Release of Offshore Petroleum Exploration Areas

The 2007 Offshore Petroleum Exploration Acreage release comprises 34 areas, located across six basins. The release areas range from frontier to mature status and offer opportunities for exploration companies of all sizes.

Comprehensive acreage release information packs can be obtained (free of charge) by emailing contact details to: [petroleum.exploration@industry.gov.au](mailto:petroleum.exploration@industry.gov.au)

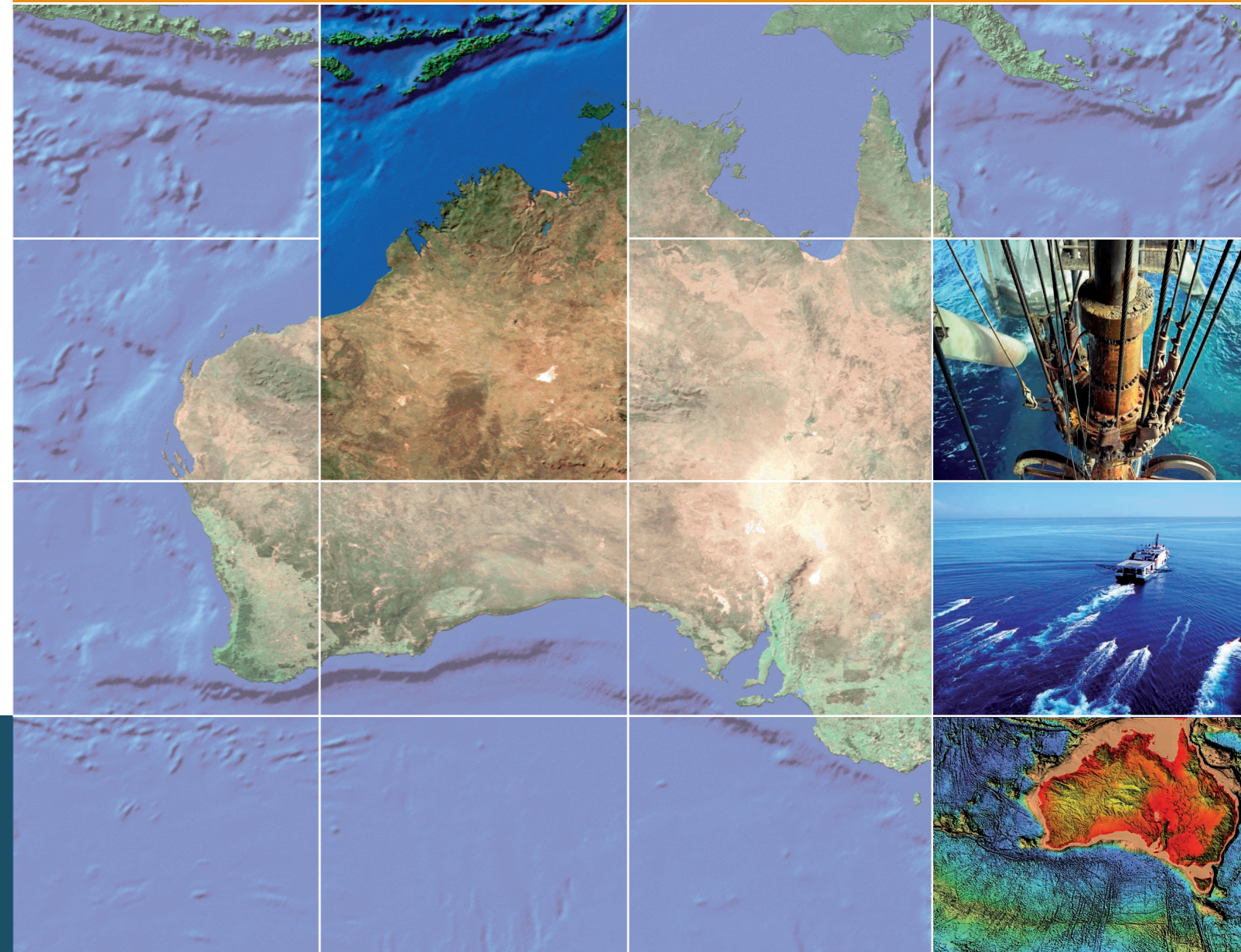


# EXPLORE AUSTRALIA

## PETREL SUB-BASIN, BONAPARTE BASIN, NORTHERN TERRITORY

Areas NT07-3, NT07-4, NT07-5 and W07-4

Designated Frontier Tax Concession Applies to NT07-4



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BIDS CLOSE 18 OCTOBER 2007 FOR W07-4

BIDS CLOSE 17 APRIL 2008 FOR NT07-3 & NT07-5



Australian Government  
Geoscience Australia

# Current Exploration Opportunities in the Petrel Sub-basin, Bonaparte Basin, Offshore Australia

## Open for bids until 18 October 2007 for W07-4 and 17 April 2008 for NT07-3 to NT07-5

### Areas NT07-3, NT07-4, NT07-5 & W07-4

- Under-explored, shallow water areas in a proven Palaeozoic oil and gas province.
- Close to Petrel and Tern gas fields and the soon to be developed Blacktip gas field.
- Various styles of structural and stratigraphic traps.
- Special Notices apply, refer to Guidance Notes.

### Geoscience Australia Reports/Products

#### New Reports/Products

- Source rock time-slice maps (TOC, HI, VR), offshore Northwest Australia - 1:3,000,000 scale (GA Catalog No. 61179).
- 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).

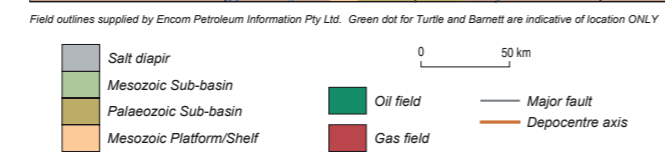
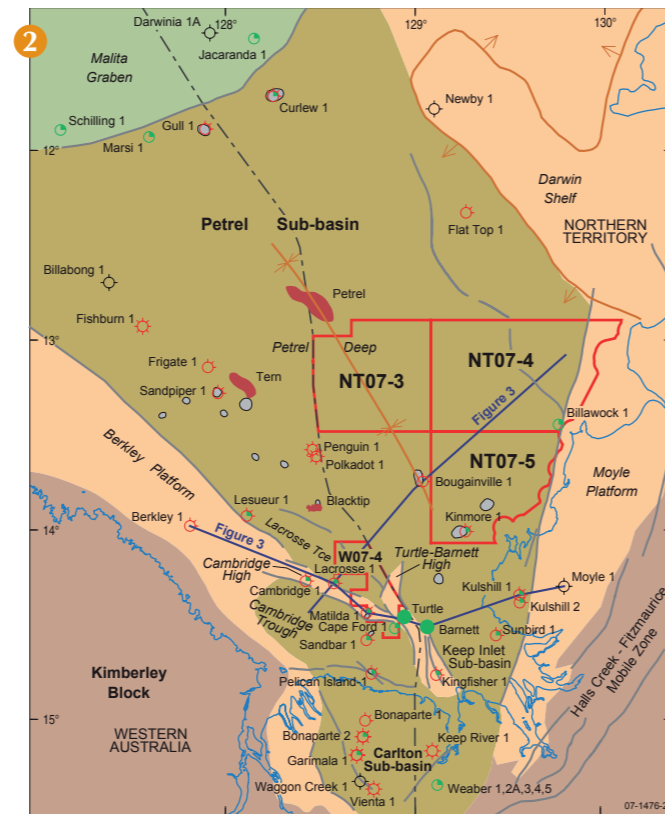
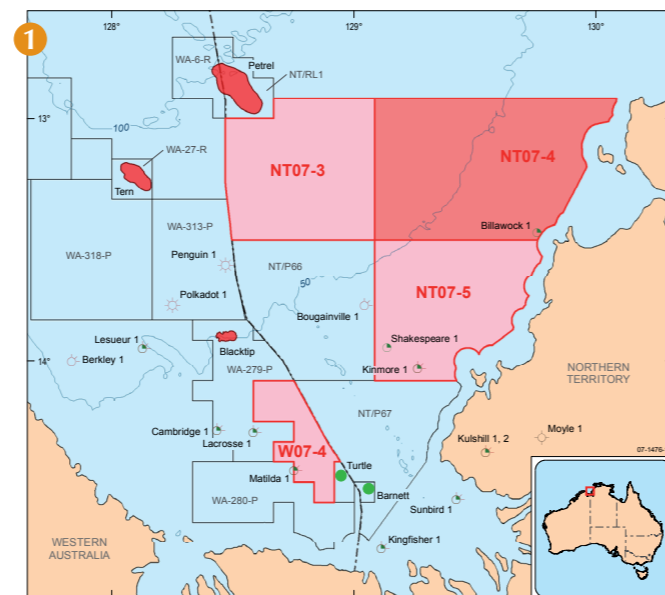
#### Other Reports/Products

- Interpretations of Geoscience Australia's regional seismic data, Survey 98, 100, 116, 118, 119 and 130 (2001) – digital horizon and fault data in ASCII format. GA Catalog No's. 35237, 35239, 35249, 35243, 35244, 35248.
- Line drawings of Geoscience Australia's regional seismic profiles, offshore northern and northwestern Australia. GA Catalog No. 36353.
- Characterisation of Natural Gases from West Australian Basins: Bonaparte Basin Module. GA and Geotechnical Services Non-exclusive Study, 2000.
- Oils of Western Australia: Regional Petroleum Geochemistry and correlation of crude oils. GA and GeoMark Research, 1996.
- Petrel Sub-basin Geohistory Modelling CD, GA Record 2002/17, GA Catalog No. 39676.
- Petrel Sub-basin Study 1995-1996: Summary Report, GA Record 1996/40; Gravity Modelling, GA Record 1996/41; Organic Geochemistry of Oils and Source Rocks, GA Record 1996/42; Geohistory modelling, GA Record 1996/43.
- Basin Biozonation and Stratigraphy charts for the Northern Bonaparte Basin, Chart 15, 1998.

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

### Industry Products

- Australian North West Shelf Digital Atlas, www.nwsda.com



### PETREL SUB-BASIN PETROLEUM PLAY ELEMENTS

Source	Langfield Group (Early Carboniferous), Keyling Formation (Early Permian), Hyland Bay Formation (Late Permian).
Reservoir	Milligans Formation (Early Carboniferous), Kuriyippi Formation (Late Carboniferous) and Hyland Bay Formation (Late Permian).
Seal	Fossil Head Formation (Permian), Treachery Shale (Permian) and Mount Goodwin Formation (Triassic) provide regional seals. Intraformational seals provided by Cape Hay, Dombey and Pearce Members of the Hyland Bay Formation (Late Permian).
Traps	Various styles of structural and stratigraphic traps.
Infrastructure and Markets	Close to Petrel and Tern gas fields, the Turtle and Barnett oil fields and the soon to be developed Blacktip gas field.

1. Location map of areas NT07-3 to NT07-5 and Area W07-4, Petrel Sub-basin.

2. Regional setting of the Petrel Sub-basin, also showing the location of Figure 3.

3. Regional cross-section of the Petrel Sub-basin showing Geoscience Australia line 100/01.

4. Stratigraphy of the Petrel Sub-basin.