



Australian Government

Department of Resources, Energy and Tourism

2008 RELEASE OF AUSTRALIAN OFFSHORE PETROLEUM EXPLORATION AREAS

DATA – RELEASE AREAS AC08-7 TO AC08-8 NORTHERN CASWELL SUB-BASIN, BROWSE BASIN

Public access to exploration data in Australia, including digital seismic tapes, well reports and core and cuttings samples is a result of legislation that initially subsidised exploration in return for lodgement and public availability of the data. When the subsidy was removed the requirement that data be lodged with government and made available for future exploration continued.

These open-file reports, data and down-hole samples are available from Geoscience Australia (GA), Canberra and the Northern Territory Department of Primary Industries, Fisheries and Mines (DPIFM), Darwin.

Geoscience Australia, Australia's national geoscientific information agency, also undertakes regional basin studies, assessments of hydrocarbon resources and provides geoscientific data and reports in support of acreage release rounds.

Geoscience Australia has a Data Room where specific seismic and well data relevant to current acreage release rounds can be viewed. Appointments to visit this Data Room or to meet with Geoscience Australia officers can be made by visiting http://www.ga.gov.au/oceans/oar_DataRoom.jsp, or emailing biu@ga.gov.au

Additional information Geoscience Australia products that support the 2008 release areas can also be obtained from the Geoscience Australia Acreage Release webpage, <http://www.ga.gov.au/oceans/Acreage2008.jsp>

Packages of specific seismic data relevant to the 2008 acreage release area are available in either Geoquest, Kingdom or Landmark format. Digital Well Completion Reports and digital Well Logs (in original format) for specific wells are also available in packages relevant to the 2008 acreage release areas. These data can be ordered through the Geophysical and Geological Data Repository, phone +61 (0)2 6249 9222, e-mail ausgeodata@ga.gov.au

Available data relevant to the 2008 release areas in the Northern Caswell Sub-basin are listed below.

WELL DATA

Well Completion Reports – AC08-7 to AC08-8, Northern Caswell Sub-basin

Well	Year [§]	Data Avail [*]	Basic	Interpretive	Well Logs	Additional Data
Abalone 1	2000	A	Yes	Yes	Yes	
Abalone 1 ST1	2000	A	Yes	Yes	Yes	
Argus 1	2000	A	Yes	Yes	Yes	
Bassett 1	1978	A	Yes	Yes	Yes	
Bassett 1A	1978	A	Yes	Yes	Yes	
Buffon 1	1980	A	Yes	Yes	Yes	
Buffon 1 ST1	1980	A	Yes	Yes	Yes	
Mount Ashmore 1	1980	A	Yes	Yes	Yes	
Mount Ashmore 1A	1980	A	Yes	Yes	Yes	
Mount Ashmore 1B	1980	A	Yes	Yes	Yes	
Mount Ashmore 1B ST1	1980	A	Yes	Yes	Yes	
Phrixus 1	2001	A	Yes	Yes	Yes	
Turbo 1	2000	A	Yes	Yes	Yes	

[§]Year is based on Rig-release date, * A = All data (Basic and Interpretive) are available, B = Basic data only available, C = Basic and Interpretive data are confidential. Data is accurate as at 18 January 2008.

Analysis Reports – AC08-7 to AC08-8, Northern Caswell Sub-basin

Well	Report #	Report Title	Company	Test	Year
Bassett 1	DAR0526	Palynology report on the Northern Browse Basin, Australia.	NT Geological Survey	Palynology	1984
Bassett 1	DAR1212	Apatite Fission Track Analysis and Vitrinite Reflectance - Browse Basin	Geotrack	AFTA	1999
Bassett 1	DAR1212	Apatite Fission Track Analysis and Vitrinite Reflectance - Browse Basin	Geotrack	Vitrinite reflectance	1999
Bassett 1A	DAR0522	Results of geochemical evaluation of eleven wells, Browse Basin, WA.	NT Geological Survey	Rock - Eval pyrolysis	1984
Bassett 1A	DAR0522	Results of geochemical evaluation of eleven wells, Browse Basin, WA.	NT Geological Survey	Soluble extract	1984
Bassett 1A	DAR0522	Results of geochemical evaluation of eleven wells, Browse Basin, WA.	NT Geological Survey	Liquid chromatography	1984
Bassett 1A	DAR0522	Results of geochemical evaluation of eleven wells, Browse Basin, WA.	NT Geological Survey	Gas chromatography	1984
Bassett 1A	DAR0522	Results of geochemical evaluation of eleven wells, Browse Basin, WA.	NT Geological Survey	Exinite fluorescence	1984
Bassett 1A	DAR0522	Results of geochemical evaluation of eleven wells, Browse Basin, WA.	Bridge Oil	TAI and visual Kerogen	1984
Bassett 1A	DAR0522	Results of geochemical evaluation of eleven wells, Browse Basin, WA.	Bridge Oil	Lithology	1984
Bassett 1A	DAR1298	Browse Basin Fluid Inclusion (GOI) Data	Geoscience Australia	GOI Data	2002
Bassett 1A	DAR1245	GOI Analysis Browse Basin	CSIRO	GOI	2003
Buffon 1	DAR0520	Microscopical study of organic matter from 26 wells on the NW shelf Aust	Aust Elf Aquitaine	Palynology	1984
Buffon 1	DAR0640	Petroleum Geochemistry of the Australian NW shelf. Progress report No. 5	Robertson Research (Aust) Pty	Kerogen composition	1986
Buffon 1	DAR0640	Petroleum Geochemistry of the Australian NW shelf. Progress report No. 5	Robertson Research (Aust) Pty	Lithology	1986
Buffon 1	DAR0640	Petroleum Geochemistry of the Australian NW shelf. Progress report No. 5	Robertson Research (Aust) Pty	Rock - Eval pyrolysis	1986
Buffon 1	DAR0640	Petroleum Geochemistry of the Australian NW shelf. Progress report No. 5	Robertson Research (Aust) Pty	Spore colour index	1986
Buffon 1	DAR0640	Petroleum Geochemistry of the Australian NW shelf. Progress report No. 5	Robertson Research (Aust) Pty	TOC - EOM	1986
Buffon 1	DAR0640	Petroleum Geochemistry of the Australian NW shelf. Progress report No. 5	Robertson Research (Aust) Pty	Vitrinite reflectance	1986
Buffon 1	DAR0648	Petroleum Geology & Geochemistry, NW shelf WA - Phase 2, Vol 1, Part 6a.	Robertson Research (Aust) Pty	Palynology	1986

Buffon 1	DAR0898	Bulk fluid inclusion Mass spectrometry of samples from Buffon 1	Amoco Aust Pet Co	Bulk fluid inclusion MS	1993
Buffon 1	DAR0976	Petrographic textures in Tertiary Carbonates from three Browse Basin wells	Petroconsultants Aust Ltd	Petrography	1993
Buffon 1	DAR0521	Analytical results of the organic matter study from some well cuttings.	Aust Elf Aquitaine	Source rock geochemistry	1994
Buffon 1	DAR1126	Towards an Early to Middle Jurassic Palaeogeography for the NW Shelf	Apthorpe Palaeontology	Palaeontology	1995
Buffon 1	DAR1212	Apatite Fission Track Analysis and Vitrinite Reflectance - Browse Basin	Geotrack	Vitrinite reflectance	1999
Buffon 1	DAR1230	Palynological Review of Buffon - 1	Woodside Energy Ltd	Palynology	1999
Buffon 1	DAR0650	Petroleum Geology & Geochemistry, NW shelf WA - Phase 2, Vol 3, Part 6c.	Robertson Research (Aust) Pty	Kerogen composition	NA
Buffon 1	DAR0650	Petroleum Geology & Geochemistry, NW shelf WA - Phase 2, Vol 3, Part 6c.	Robertson Research (Aust) Pty	Lithology	NA
Buffon 1	DAR0650	Petroleum Geology & Geochemistry, NW shelf WA - Phase 2, Vol 3, Part 6c.	Robertson Research (Aust) Pty	Vitrinite reflectance	NA
Buffon 1	DAR0650	Petroleum Geology & Geochemistry, NW shelf WA - Phase 2, Vol 3, Part 6c.	Robertson Research (Aust) Pty	Rock - Eval pyrolysis	NA
Buffon 1	DAR0650	Petroleum Geology & Geochemistry, NW shelf WA - Phase 2, Vol 3, Part 6c.	Robertson Research (Aust) Pty	Spore colour index	NA
Buffon 1	DAR0650	Petroleum Geology & Geochemistry, NW shelf WA - Phase 2, Vol 3, Part 6c.	Robertson Research (Aust) Pty	TOC - EOM	NA
Buffon 1 ST1	DAR1298	Browse Basin Fluid Inclusion (GOI) Data	Geoscience Australia	GOI Data	2002
Buffon 1 ST1	DAR1245	GOI Analysis Browse Basin	CSIRO	GOI	2003
Mount Ashmore 1	DAR0926	Bulk fluid inclusion mass spectrometry of samples from Mount Ashmore 1	Amoco Aust Pet Co	Bulk fluid inclusion MS	1993
Mount Ashmore 1B	DAR1076	Late Triassic Conodont & Palynomorph Biostratigraphy	AGSO	Biostratigraphy	1994
Mount Ashmore 1B	DAR1302	Vitrinite Reflectance of selected Browse Basin wells	Geoscience Australia	Vitrinite Reflectance	2002
Mount Ashmore 1B	DAR1311	GOI Analysis - Ashmore Platform	Geoscience Australia	GOI Analysis	2003

Data is accurate as at 17 December 2007.

Contact Geoscience Australia's Repository for more information regarding access to well completion and analysis reports, phone +61 (0)2 6249 9222, e-mail ausgeodata@ga.gov.au

PHYSICAL DATA

Cores and Cuttings – AC08-7 to AC08-8, Northern Caswell Sub-basin

Confid*	Area	Well	Test Type	Top (m)	Bottom (m)
OF	AC08-8	Abalone 1	Cuttings	732	4795
OF	AC08-8	Abalone 1 ST1	No Samples submitted to date		
OF	AC08-8	Argus 1	Cuttings	1220	4878
OF	AC08-8	Bassett 1	Cuttings	740	2705
OF	AC08-8	Buffon 1	Cuttings	845	4785
OF	AC08-8	Buffon 1 ST1	Cuttings	2778	4785
OF	AC08-7	Mount Ashmore 1	Cuttings	1040	2655
OF	AC08-7	Mount Ashmore 1A	Cuttings	1040	2655
OF	AC08-7	Mount Ashmore 1B	Cuttings	1040	1680
OF	AC08-7	Mount Ashmore 1B ST1(Dev-1)	Cuttings	1245	1505
OF	AC08-7	Mount Ashmore 1B ST1(Dev-2)	Cuttings	1445	2655
OF	AC08-8	Phrixus 1	Cuttings	1695	3874
OF	AC08-7	Turbo 1	Cuttings	640	3900

* Confidentiality denotes whether 1) interpretive and basic data is open file (OF) or 2) only basic data is open file (B). Data is accurate as at 19 December 2007.

Contact Geoscience Australia's Repository for more information or to arrange access to core and cuttings, phone +61 (0)2 6249 9222, e-mail ausgeodata@ga.gov.au

GEOPHYSICAL DATA

Seismic Surveys – AC08-7, Northern Caswell Sub-basin

Survey Name	Client	Line km's	Year	Processed Data	Field Data	Snip ID	PIMS ID
Mermaid Cartier	Burmah Oil	4326	1973	Yes	Yes	609	S6730011/29
Tessa-Troubadour	BOCAL, Woodside & Other partner	5572	1975	Yes	Yes	152	S0750001
Scientific Investigation 17SL Marine Seis	Halliburton Geophysical Service	1203	1984	Yes	Yes	574	S6840031
AGSO Marine Survey 119, Browse	Australian Geological Survey Or	4043	1993	Yes	Yes	599	S6930071
AGSO Marine Survey 130, Browse Basin	AGSO	3692	1994	Yes	Yes	741	S6940031
AGSO Marine Survey 175, Browse Basin Regi	Australian Geological Survey Or	5264	1996	Yes	Yes	602	S6960034
Timor Sea Spec Marine Seismic	Digicon	2403	1996	Yes	No	661	not known
Browse 98	Veritas	23892	1998	No	No	2851	S8980012
HBR 1998B	BHP	4299	1999	Yes	Yes	852	S8980016

Data is accurate as at 17 December 2007.

Seismic Surveys – AC08-8, Northern Caswell Sub-basin

Survey Name	Client	Line km's	Year	Processed Data	Field Data	Snip ID	PIMS ID
Mermaid Cartier	Burmah Oil	4326	1973	Yes	Yes	609	S6730011/29
Woodbine-Victoria Project 79A/79B Marine Seismic	Woodside	2558	1979	Yes	No	148	S8780001
Dampier-Broome Marine Seismic: Project 81D	Woodside	2536	1981	Yes	Yes	155	S6810045
Project 82A of 2DW Marine Seismic	Woodside	3349	1981	No	Yes	853	S6810002
Project 82B of 2DW Marine Seismic			1982	Yes	Yes		S6810036
Project 82D of 2DW (Dampier-Broome Marine Seismic)			1982	Yes	Yes		S6810028
Project 82K of Dampier Broome Marine Seismic (2DW)			1982	No	Yes		S8810009
Projects 82E-1 of 2DW Marine Seismic			1982	No	Yes		S6810038
Projects 82E-2 & 82J of 2DW Marine Seismic			1982	No	Yes		S6810035
Projects 82F & 82G 2DW Marine Seismic			1982	Yes	Yes		S6810037
AGSO Marine Survey 119, Browse	Australian Geological Survey Org	4043	1993	Yes	Yes	599	S6930071
AGSO Marine Survey 130, Browse Basin	AGSO	3692	1994	Yes	Yes	741	S6940031
AGSO Marine Survey 175, Browse Basin	Australian Geological Survey Org	5264	1996	Yes	Yes	602	S6960034
Timor Sea Spec Marine Seismic	Digicon	2403	1996	Yes	No	661	not known
Browse 98	Veritas	23892	1998	No	No	2851	S8980012
IFR-98 Seismic Survey	Genting Oil & Gas	2660	1998	Yes	Yes	1500	S6980040
HBR 1998 B Marine Seismic	BHP	4299	1999	Yes	Yes	852	S8980016

Data is accurate as at 17 December 2007.

Contact Geoscience Australia's Repository for more information regarding access to seismic data, phone +61 (0)2 6249 9222, e-mail ausgeodata@ga.gov.au

PRODUCTS

Geoscience Australia Reports/Products

- Browse Basin composite well logs (2005). GeoCat # 61819.
- Geoscience Australia survey 267 post survey report - testing natural hydrocarbon seepage detection tools on the Yampi Shelf, northwestern Australia. (2005) GeoCat # 61717.
- Oils of Western Australia II: Regional petroleum geochemistry and correlation of crude oils and condensates from Western Australia and Papua New Guinea. (2005) Geoscience Australia and GeoMark Research.
- Source rock time-slice maps (TOC, HI, VR), offshore northwest Australia — 1:3,000,000 scale. (2004) GeoCat # 61179.
- Browse Basin biozonation and stratigraphy chart 7, 2001. GeoCat # 36593.
- Interpretations of Geoscience Australia's regional deep-seismic data, survey 119 and 130, (2001) — digital horizon and fault data in ASCII format. (2001) GeoCat # 35244, 35248.
- Hydrocarbon migration and seepage in the Timor Sea and Northern Browse Basin, North West Shelf, Australia, (2001). An integrated SAR, geological and geochemical study; GIS (ArcView) format. (2001) AGSO Record 2001/011. GeoCat # 35246.
- Characterisation of natural gases from West Australian basins: Browse Basin module. (2000) AGSO and Geotechnical Services non-exclusive study.
- Browse Basin organic geochemistry study North West Shelf, Australia. (1997). AGSO Record 1997/057.
- Browse Basin high-resolution seismic survey BBHR-175, and interpretation report. (1997) AGSO Record 1997/038.

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

OTHER DIGITAL DATA

AMSIS

The Australian Marine Spatial Information System (AMSIS), a recent release from Geoscience Australia, is an on-line mapping and decision support tool that presents a vast array of Commonwealth interests in Australia's marine jurisdiction. With the cooperation of other Government and private sector agencies, this system integrates administrative boundary information including petroleum leases with scientific data against other background data such as bathymetry.

AMSIS is easy to use and provides access to data via a web browser for those interested in the marine environment without the need for specialised software or mapping skills. AMSIS not only displays 'what's out there', but also allows users to query the information, view metadata, and conduct more advanced functions such as return the nearest distance from a point to a nominated boundary.

AMSIS can be found on the web at: www.ga.gov.au/amsis

AUSTRALIAN GEOLOGICAL PROVINCES DATABASE

The Australian Geological Provinces Database provides interpretive data on Australia's sedimentary, igneous, metallogenic, structural and metamorphic provinces. The database has been jointly developed and populated by the Onshore Energy and Minerals Division of Geoscience Australia, which is concentrating on onshore geological provinces, and the Petroleum and Marine Division, which is capturing data for offshore sedimentary basins. The database provides the mapped extent of Australia's geological provinces, and includes attributes such as size, water depth, tectonic setting, age, sediment thickness, main rock types, depositional environments, main resources, key references, and relations to other geological provinces. It also includes an overview of the geology, exploration status, and petroleum system elements of each province.

The Australian Geological Provinces Database is available online. Access to the database is provided through the Geoscience Australia website using an interactive mapping system, at www.ga.gov.au/oracle/provinces/

The interface allows users to view and select provinces of interest based on their key attributes, and to add key map layers (exploration data, surface geology, images, bathymetry). Database extracts are provided as an html report, and include links to key images (structural element maps, regional cross-sections, stratigraphic and petroleum system charts).

This database interface provides explorers with basic geological information on all offshore sedimentary basins, and many of their component sub-basins, along Australia's continental margin.

NATIONAL PETROLEUM WELLS DATABASE

Geoscience Australia's geological databases provide detailed open file header data, biostratigraphic data, organic geochemical data, reservoir and facies data, interpreted depositional environment information and directional survey data. These data have been extracted from open file Well Completion Reports or are the results of Geoscience Australia studies. These data can be accessed via the following paths:

- Download data for wells relevant to the 2008 Acreage Release areas directly from Geoscience Australia's databases.
http://www.ga.gov.au/oracle/apcrc/ar_list.jsp
- Search page allowing access to all open file wells for the above datasets.
<http://dbforms.ga.gov.au/www/npm.well.search>

Static file compiled from the Geoscience Australia databases in January 2008. This file is intended for clients without facility to download web data. Data may have been added to the databases after this file was compiled. Clients are encouraged to use the above web download sites in preference to this static file:

[AR08_NrthCaswell.zip](#)

Please contact sales@ga.gov.au with any technical problems using the web pages listed above. For technical information on these data contact David Rowland, Petroleum Database Manager, phone +61 (0)2 62499111, e-mail David.Rowland@ga.gov.au