



Australian Government
Department of Industry
Tourism and Resources

2007 RELEASE OF AUSTRALIAN OFFSHORE PETROLEUM EXPLORATION AREAS

DATA – AREAS W07-16 AND W07-17 EXMOUTH PLATEAU, CARNARVON 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 Western Australian Department of Industry and Resources (DoIR), Perth.

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 is currently establishing 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 contacting Jenny Maher, Petroleum Promotion Co-ordinator,
phone 61(0) 2 62499111, e-mail jenny.maher@ga.gov.au

Additional information on the Data Room or Geoscience Australia products that support the 2007 release areas can also be obtained from the Geoscience Australia Acreage Release webpage,
http://www.ga.gov.au/oceans/ss_Acreage.jsp

Packages of specific seismic data relevant to the 2007 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 2007 acreage release areas. These data packages 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 2007 release areas in the Exmouth Plateau, Carnarvon Basin are listed below.

WELL DATA

Well Completion Reports – W07-16 and W07-17, Exmouth Plateau

Well	Operator	Year
Andromeda 1	Mobil Exploration and Producing Australia Pty Ltd	1997
Banambu 1	Woodside Offshore Petroleum Pty Ltd	1998
Brigadier 1	Woodside Petroleum Development Pty Ltd	1978
Gandara 1	Hudbay Oil (Australia) Limited	1979
Glatton 1	Woodside Energy Ltd	1999
Lacerta 1	Mobil Exploration & Producing Australia Pty Ltd	1998
Plymouth 1	Santos Limited	2005

Analysis Reports – W07-16 and W07-17, Exmouth Plateau

Well	Report No	Report Title	Company	Year
Brigadier 1	DAR0521	Analytical results of the organic matter study from some well cuttings.	Aust Elf Aquitaine	1984
Brigadier 1	DAR0631	Geochemical analysis of sediments from eight wells Dampier Sub-basin WA.	BP Australia Ltd	1990
Brigadier 1	DAR0638	Petroleum Geochemistry of the Australian NW shelf. Preliminary Report 1564.	Robertson Research (Aust) Pty	1985
Brigadier 1	DAR0647	Petroleum Geology & Geochemistry, Phase II (Part). Vol 1, Part 8, App.B.	Robertson Research (Aust) Pty	1987
Brigadier 1	DAR0649	Petroleum Geology & Geochemistry, NW shelf, WA; Phase 2, Vol 2, part 6b.	Robertson Research (Aust) Pty	1986
Brigadier 1	DAR0771	Bulk Fluid Inclusion Mass Spectrometry on samples from Brigadere 1 well.	Amoco Aust Pet Co	1991
Brigadier 1	DAR1014	Carnarvon Basin Kerogen Kinetics Analysis - Data report.	Esso Australia Limited	1993
Brigadier 1	DAR1092	Outer Rankin Palynological Review Carnarvon Basin, WA.	Phillips Oil Company	1994
Brigadier 1	DAR1095	Geochemical Analyses on 6 Wells in WA.	PGA Consultants	1992
Brigadier 1	DAR1114	Data and Interp based on new analysis by GC & GCMS (3 Parts).	PGA Consultants	1995
Brigadier 1	DAR1126	Towards an Early to Middle Jurassic Palaeogeography for the NW Shelf.	Apthorpe Palaeontology	1995
Brigadier 1	DAR1145	High Resolution Biostratigraphy / Palynofacies Analysis.	Woodside Offshore Petroleum	1996
Brigadier 1	DAR1170	Geochemical Analysis for Source Rock Potential of Sediments.	WAPET	1997
Brigadier 1	DAR1171	Geochemical Analysis for Source Rock Potential of Sediments.	WAPET	1997
Gandara 1	DAR0631	Geochemical analysis of sediments from eight wells Dampier Sub-basin WA.	BP Australia Ltd	1990

Gandara 1	DAR0908	Bulk fluid inclusion mass spectrometry of samples from Gandara 1.	Amoco Aust Pet Co	1992
Gandara 1	DAR1014	Carnarvon Basin Kerogen Kinetics Analysis - Data report.	Esso Australia Limited	1993
Gandara 1	DAR1092	Outer Rankin Palynological Review Carnarvon Basin, WA.	Phillips Oil Company	1994
Gandara 1	DAR1095	Geochemical Analyses on 6 Wells in WA.	PGA Consultants	1992
Gandara 1	DAR1126	Towards an Early to Middle Jurassic Palaeogeography for the NW Shelf.	Apthorpe Palaeontology	1995
Gandara 1	DAR1171	Geochemical Analysis for Source Rock Potential of Sediments.	WAPET	1997
Gandara 1	DAR1193	Sealing Potential Of Tertiary Caprocks Carnarvon Basin.	Japan National Oil Corp	1998
Gandara 1	DAR1220	Palynology Review.	Woodside	1998
Gandara 1	DAR1221	Hydrocarbon Petrography of Wells in Dampier Sub-Basin.	Woodside	1997

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.

SAMPLES

Cores and Cuttings – W07-16 and W07-17, Exmouth Plateau

Well	Type	Top (m)	Bottom (m)	Comment
Banambu 1	Cuttings	1810	4000	
Brigadier 1	Cuttings	735	4290	
Brigadier 1	Cuttings	2595	4215	Canned headspace gas samples converted to drill cuttings
Carteret 1	Cuttings	2015	3510	
Gandara 1	Cuttings	743	4360	
Glatton 1	Cuttings	2055	2985	
Lacerta 1	Cuttings	1630	3393	
Tigger 1	Cuttings	2012	3650	

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 – W07-16 and W07-17, Exmouth Plateau

Release Area	Vintage	Survey	Operator	GA Unique No	Processed	Field
W07-16	1997	1997 Pegasus 2D/3D Marine Seismic	Ampolex Limited	S6970001	Yes	Yes
W07-16	1991	AGSO Marine Survey 101;Southern Carnarvon.	AGSO	S6910031	Yes	Yes
W07-16	1994	AGSO Marine Survey 128;Northwest Margin Transects	AGSO	S0940001	Yes	Yes
W07-16	1994	AGSO Marine Survey 136;Carnarvon Tertiary Tie M.S.S.	AGSO	S6940033	Yes	Yes
W07-16	1990	AGSO Survey 110;Barrow/Dampier M.S.S.	AGSO	S6900062	Yes	Yes
W07-16	1990	AGSO Survey 110;Barrow/Dampier M.S.S.	AGSO	S6900062	Yes	Yes
W07-16	1998	Beagle Deep Multi-Client	Nopec	S6980019	Yes	Yes
W07-16	1998	Capri 97 Marine Seismic	Woodside Offshore Petroleum	S6980007	Yes	Yes
W07-16	1975	Dampier-Beagle Marine Seismic	Barkley Oil Co	S6750005	No	Yes
W07-16	1976	GSI Scientific 10SL Marine Seismic	GSI	S6760001	Yes	Yes
W07-16	1977	Haycock-Laminaria Marine Seismic	Woodside Oil NL	S0770002	Yes	Yes
W07-16	1978	Hermite-Barton Marine Seismic	Woodside Oil NL	S0780015	No	Yes
W07-16	1993	Michelle Marine Seismic	Phillips Aust Oil Co	S6930060	Yes	Yes
W07-16	1972	Montbello-Turtle Seismic	Woodside Oil NL	S6720066	No	Yes
W07-16	1971	Offshore Australia (WA Part) - Petrel Roving	Shell Dev (Aust) P/L	S6710016	No	Yes
W07-16	1997	Reynard 1997 Marine Seismic	Woodside Offshore Petroleum	S6970018	Yes	Yes
W07-16	1983	Scientific Investigation 15SL Marine Seismic	GSI	S6830007	Yes	Yes
W07-16	1991	SPA 2SL/91-2 and Extension 1SL/92 2D (RP92)	Halliburton GSI	S6910021	No	Yes
W07-16	1991	SPA 2SL/91-2 and Extension 1SL/92 2D (RP92)	Halliburton GSI	S6910021	No	Yes
W07-16	1994	SPA 2SL/94-95 Dampier Well Tie Marine Seismic (GPDB95)	Geco-Prakla	S6940027	Yes	No
W07-16	1976	Tessa-Troubadour Marine Seismic& Magnetic	Barkley Oil Co	S0750001	Yes	Yes
W07-16	1971	Trimouille -Dillon Seismic	Woodside Oil NL	S0700120	Yes	Yes
W07-16	1980	Victoria Detailed Marine Seismic	Otter Exploration NL	S6800004	No	Yes
W07-16	1978	Victoria Marine Seismic	Otter Exploration NL	S6780014	No	Yes

W07-16	1979	Woodbine-Victoria Projects 79	Woodside Oil NL	S6790018-38	No	Yes
W07-17	1995	1995 Argo Marine Seismic	Santos Limited	S6950020	Yes	Yes
W07-17	1997	1997 Pegasus 2D/3D Marine Seismic	Ampolex Limited	S6970001	Yes	Yes
W07-17	1991	AGSO Marine Survey 101;Southern Carnarvon.	AGSO	S6910031	Yes	Yes
W07-17	1994	AGSO Marine Survey 136;Carnarvon Tertiary Tie M.S.S.	AGSO	S6940033	Yes	Yes
W07-17	1994	AGSO Marine Survey 136;Carnarvon Tertiary Tie M.S.S.	AGSO	S6940033	Yes	Yes
W07-17	1990	AGSO Survey 110;Barrow/Dampier M.S.S.	AGSO	S6900062	Yes	Yes
W07-17	1998	Capri 97 Marine Seismic	Woodside Offshore Petroleum	S6980007	Yes	Yes
W07-17	1986	Eaglehawk Marine Seismic	Woodside Offshore Petroleum	S6860005	Yes	yes
W07-17	1985	Erica Marine Seismic	Lasmo Energy Ausst	S6850007	No	Yes
W07-17	1978	Exmouth Dampier Marine Seismic	Hudbay Oil (Aust) ltd	S6780010	No	Yes
W07-17	1977	Haycock-Laminaria Marine Seismic	Woodside Oil NL	S0770002	Yes	Yes
W07-17	1978	Hermite-Barton Marine Seismic	Woodside Oil NL	S0780015	No	Yes
W07-17	1973	Kendrew-Cootamundra Marine Seismic	Barkley Oil Co	S6730010	Yes	Yes
W07-17	1983	Lewis-Brecknock Part 1	Woodside Oil NL	S6830036	No	Yes
W07-17	1982	Marathon Angel 1982 Marine Seismic	Marathon Petroleum	S6820014	Yes	Yes
W07-17	1993	Michelle Marine Seismic	Phillips Aust Oil Co	S6930060	Yes	Yes
W07-17	1972	Montbello-Turtle Seismic	Woodside Oil NL	S6720066	No	Yes
W07-17	1965	Montbello-Mermaid Shoal Seismic	Burmah Oil Co of Australia	S0650069	No	No
W07-17	1971	Offshore Australia (WA Part) - Petrel Roving	Shell Dev (Aust) P/L	S6710016	No	Yes
W07-17	1996	Rosie 2D/3D Marine Seismic	Western Mining Corp	S6960029	Yes	Yes
W07-17	1983	Scientific Investigation 15SL Marine Seismic	GSI	S6830007	Yes	Yes
W07-17	1986	Scientific Investigation No. 1 SL/86 Marine Seismic	GSI	S6860017	Yes	Yes
W07-17	1991	SPA 2SL/91-2 and Extension 1SL/92 2D (RP92)	Halliburton GSI	S6910021	No	Yes
W07-17	1994	SPA 2SL/94-95 Dampier Well Tie Marine Seismic (GPDB95)	Geco-Prakla	S6940027	Yes	No
W07-17	1973	Steamboat Spit Marine Seismic	Burmah Oil Co of Australia	S6730045	No	Yes
W07-17	1971	Trimouille -Dillon Seismic	Woodside Oil NL	S0700120	Yes	Yes

W07-17	1971	Trimouille -Dillon Seismic	Woodside Oil NL	S0700120	Yes	Yes
W07-17	1978	Victoria Marine Seismic	Otter Exploration NL	S6780014	No	Yes
W07-17	1980	WA-93-P 1980 Marine Seismic	Hudbay Oil (Aust) ltd	S6800010	No	Yes

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 – W07-16 and W07-17, Exmouth Plateau, Carnarvon Basin.

- Interpretations of Geoscience Australia's regional seismic data, Survey 101, 110 and 128 (2001) – digital horizon and fault data in ASCII format. GA Catalog No. 35240, 35242 and 35247.
- Line drawings of Geoscience Australia's regional seismic profiles, offshore northern and northwestern Australia. GA Catalog No. 36353.
- Northern Carnarvon Basin high-resolution seismic survey CTT-136, and Interpretation Report. GA Record 1996/36.
- Source rock time-slice maps (TOC, HI, VR), offshore Northwest Australia - 1:3,000,000 scale. GA Catalog No. 61179.
- Characterisation of Natural Gases from West Australian Basins: Carnarvon 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.
- 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.
- Northwestern and Northern Australian margins stratigraphic chart showing GA's interpreted regional seismic horizons, 2001. GA Catalog No. 36454.
- Basin Biozonation and Stratigraphy charts for the Southern and Northern Carnarvon Basins. Charts 4 and 11, 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

Relevant Industry Data

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

OTHER DIGITAL DATA

AMISIS

The Australian Marine Spatial Information System (AMISIS), 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.

AMISIS 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. AMISIS 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.

AMISIS can be found on the web at: www.ga.gov.au/amisis

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 PETROLUUM 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 2007 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 December 2006. 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. **Exmouth Plateau.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**