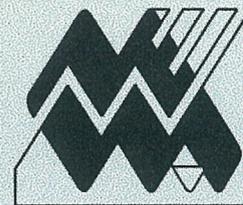




**GOVERNMENT OF WESTERN AUSTRALIA
DEPARTMENT OF MINERALS AND ENERGY**



SCHEDULE OF PETROLEUM EXPLORATION WELLS

CARNARVON BASIN Merlinleigh and Byro Sub-basins, and Gascoyne Platform



Compiled by J. H. Haworth and L. M. Arden



**GEOLOGICAL SURVEY OF WESTERN AUSTRALIA
AND PETROLEUM OPERATIONS DIVISION**



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Perth 1999



**GEOLOGICAL SURVEY OF WESTERN AUSTRALIA
AND PETROLEUM OPERATIONS DIVISION**

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Disclaimer

The data presented in this publication and on the accompanying floppy disks have been extracted from well completion reports and other related reports submitted to the Department of Minerals and Energy by petroleum exploration companies. The Department makes no warranty as to the accuracy or currency of data presented in this document or the accompanying floppy disks.

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If you have any queries regarding these data please contact the Petroleum Data Manager, Phone: (08) 9222 3214.

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Telephone : (08) 9222 3459 Facsimile: (08) 9222 3444

Schedule of petroleum exploration wells

Carnarvon Basin

Merlinleigh and Byro Sub-basins, and Gascoyne Platform

About the schedule of wells

This publication presents information on all petroleum exploration wells drilled in the Merlinleigh Sub-basin, Byro Sub-basin and Gascoyne Platform, Carnarvon Basin, Western Australia. Development wells are not included.

Well information is presented both in printed and digital format. The digital datasets contain more detailed information.

Data presented

Reports*

Well summary data*

Casing*

Plugs*

Mud data

Well logs

Formation tops

Biostratigraphy

Rock-Eval pyrolysis

Vitrinite reflectance*

Porosity and permeability*

DST*

RFT*

Well velocity surveys*

Core data*

Sidewall core descriptions*

Show descriptions

Commentary

Location data

All the above data are available in digital form. The printed sheets contain a summary of items indicated by an asterisk.

Scope of data

Under the release provisions of the petroleum legislation, the amount of information available to the public varies, depending in part upon the time since the well was drilled. Wells presented in this publication fall into one of three categories.

Full release — for wells where the rig release date is more than five years and one month from the date of publication. All data from the well completion report are available.

Basic release — for wells where the rig release date is more than two years and one month from the date of publication. Basic data (that is, non-interpretative data) are available.

Location release — for wells where the rig release date is less than two years and one month from the date of publication. Only name, location, timing, and company information are available.

Format

The printed material is provided in A4 format with wells ordered alphabetically by tectonic unit. The digital data are provided in Excel 5 format and can be ordered in ASCII format if required (Petroleum Data Manager, Phone (08) 9222 3214).

Sources

The data have been extracted from well completion reports submitted to the Department of Minerals and Energy under the five petroleum acts that have, or have had, jurisdiction either onshore or offshore Western Australia:

Petroleum Act 1936 (Western Australia)

Petroleum Search Subsidy Act 1959 (Commonwealth)

Petroleum Act 1967 (Western Australia)

Petroleum (Submerged Lands) Act 1967 (Commonwealth)

Petroleum (Submerged Lands) Act 1982 (Western Australia)

The location data provided are those most recently available to the Department. Some data from other sources, such as later analyses by industry or GSWA, have also been captured. For more modern interpretations of the data contained herein plus other data from other sources, refer to the GSWA publications listed on pages 8 and 9 of this compilation.

Data and definitions

Notes

All measurements have been converted to SI units with accuracy to two decimal places.

The non-standard units and measurements used in 'Test Descriptions' and 'Comments' are direct quotes from supplied well completion reports.

Blank fields represent null values where the information is not available

Abbreviations

Abbreviations for lithologic descriptions used are standard abbreviations from AAPG Methods in Exploration Series (Swanson, 1981).

Abbreviations for vitrinite reflectance tables are:

A, abund — abundant

C, comm — common

S — sparse

R — rare

Tr — trace

I, Inert — inertinite

E, exin — exinite

V, Vit — vitrinite
L, Lip — liptinite
B, Bit — bitumen/bitumemite
DOM — dispersed organic matter

Classification Class of well: NFW — new-field wildcat, STR — stratigraphic,
EXT — extension

Datum Point, line, or surface from which measurements are referenced.
Where the datum is known for a location and elevation it has been listed.

(a) Geodetic datum:

CLARKE — CLARKE 1851 SpheroidA
AGD66 — Australian Geodetic Datum 1966
AGD84 — Australian Geodetic Datum 1984

(b) Elevation datum:

ASL — Above Mean Sea Level
AHD — Australian Height Datum
LAT — Lowest Astronomical Tide
MISLW — Mean Indian Spring Low Water

(c) Seismic velocity:

SRD — Seismic Reference Datum

Fluorescence for sidewall cores

Y — fluorescence is noted; blank cells mean fluorescence not observed or recorded in the report

Formation evaluation data

List of formation evaluation logs run in the well or section (name and interval in metres below rig datum), BHT, Rm, Rmf, Rmc, time since circulation stopped

Formation tops

Depth in metres below rig datum to the top of the named formation and its thickness in metres as defined by the operator in the original well completion report. Other interpretations presented to the Department by other sources are also included in the digital dataset.

Formation qualifier

Non-standard stratigraphic nomenclature used by operator
e.g. Formation Name — Cattamarra Coal Measures Mbr
Formation Qualifier — Unit 'D' (as used by operator)

Log run Configuration of tools in one string run down the hole

Log suite Series of logs at set depths at different periods of time

Rig datum Metres measured from the KB (kelly bushing), RT (rotary table) or DF (derrick floor)

Section type nomenclature

A section is defined as a continuous length of hole drilled to achieve the well's purpose; there may be more than one section to a well. Sections are categorized as:

- (a) *Original*: the start (usually from surface) of the well's drilling process
- (b) *Re-spud*: where mechanical problems cause drilling to be restarted at a new surface location (e.g. well 1 and 1A)
- (c) *Side-track*: where mechanical or geological problems cause the operator to plug back the well and restart drilling from a kick-off point above the total depth of the previous section
- (d) *Horizontal*: a horizontal or near horizontal section drilled from a previous plugged-back pilot section or well
- (e) *Deepening*: where the well is reopened and further hole cut after the original drilling

Seismic reference datum

Reference datum for well velocity survey (given as metres ASL)

Status Completion status at or near time of rig release
(Note: 'well' — production well)

Tenement Petroleum title current at the time of drilling of the well or section

Test results Type, depth in metres below rig datum, recovery or flow and pressure data for fluid-recovery tests

Total metres drilled Sum of all metres drilled in all sections of the well

Well A well is one or more sections of hole drilled to a specific target for a specified purpose

Well ID An arbitrary, integer-based unique identifier for each well

Oil and gas show rating

Excellent Gas: very good background gas increases, confirmed by wireline, not brought to surface for other reasons

	Oil: very good fluorescence, oil in mud, wireline confirms oil, not producing for other reasons
Good	Gas: relatively good increase in background gas, some indication in wireline logs, not confirmed by other tools Oil: good fluorescence, some oil in mud, some indication in wireline logs
Fair	Gas: relatively good increase in background gas but heavies restricted, no or low indication in wireline Oil: medium indications of fluorescence, small amounts of oil in mud, no or little response by other tools
Poor	Gas: relatively small increase in background gas, not confirmed by wireline or other tools Oil: some patchy, low % fluorescence, no oil in mud, not confirmed by other tools
Nil	Gas: no shows at all Oil: no shows at all
Producer	Gas: brought to surface either by DST or PT in producible quantities Oil: brought to surface by DST or PT in producible quantities

Note

The data presented here were extracted from the database on 2 March 1999. This database is a 'live' database and is continuously being updated and modified. The purpose of this database is to assist the petroleum exploration industry in the search for hydrocarbons in Western Australia. We would appreciate comments and suggestions that will help us to produce a product that fulfils your requirements.

If you require further information, or if you wish to pass on your comments about this product, please contact the Petroleum Data Manager on (08) 9222 3214.

Index of wells in this publication — Carnarvon Basin

Merlinleigh and Byro Sub-basins, and Gascoyne Platform

Byro Sub-basin

BMR 08 Glenburgh	North Ballythanna Corehole 2
BMR 09 Glenburgh	North Ballythanna Corehole 3
GSWA Ballythanna 1	North Ballythanna Corehole 4
North Ballythanna Corehole 1	

Gascoyne Platform

Airey Hill 1	Dirk Hartog 08A	Grierson 1	Wandagee 1
Cape Cuvier 1	Dirk Hartog 09A	Grierson 2	Wandagee Corehole 1
Chargoo 1	Dirk Hartog 10	Grierson 3	Wandagee Corehole 3
Coburn 1	Dirk Hartog 11	GSWA Barrabiddy 1A	Warroora 1
Dirk Hartog 01	Dirk Hartog 12	GSWA Mooka 1	Woodleigh 1981/2
Dirk Hartog 02	Dirk Hartog 13	Hamelin Pool 1	Woodleigh 1982/1
Dirk Hartog 03	Dirk Hartog 14	Hamelin Pool 2	Yaringa 1
Dirk Hartog 04	Dirk Hartog 15	Kalbarri 1	Yaringa East 1
Dirk Hartog 05	Dirk Hartog 16	Pendock 1	
Dirk Hartog 06	Dirk Hartog 17B	Quobba 1	
Dirk Hartog 07A	Gnaraloo 1	Tamala 1	

Merlinleigh Sub-basin

Bidgemia 1	Exmouth Structure Hole 2	Merlinleigh 1	North Giralia 1
BMR 05 Yanrey	Gascoyne 1	Merlinleigh 2	Quail 1
BMR 06 Kennedy Range	Giralia 1	Merlinleigh 3	Remarkable Hill 1
BMR 07 Kennedy Range	GSWA Gneudna 1	Merlinleigh 4	Wandagee Corehole 2
Burna 1	Kennedy Range 1	Merlinleigh 5	West Giralia 1
East Marrilla 1	Lefroy Hill 1	Moogooree 1	Whitlock Dam 1
Exmouth Structure Hole 1	Marrilla 1	Moogooree 2	

Merlinleigh/Exmouth Sub-basins*

Rough Range 01	Rough Range South 5	Sandalwood 1	Whaleback 1
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*These wells were drilled across the Exmouth Fault and have surface location in the Merlinleigh Sub-basin and TD location in the Exmouth Sub-basin

Reference

SWANSON, R. G., 1981, Sample examination manual: AAPG, Methods in exploration series.

Recent GSWA publications covering the Byro and Merlinleigh Sub-basins and the Gascoyne Platform

COPP, I. A., 1994, Depth to base Phanerozoic map of Western Australia: Explanatory Notes: Western Australia Geological Survey, Record 1994/9, 11p.

CROSTELLA, A., 1995, Structural evolution and hydrocarbon potential of the Merlinleigh and Byro Sub-basins, Carnarvon Basin, Western Australia: Western Australia Geological Survey, Report 45, 36p.

CROSTELLA, A., 1996, North West Cape petroleum exploration analysis of results to early 1995: Western Australia Geological Survey, Record 1996/3, 45p.

CROSTELLA, A., and IASKY, R. P. 1997, Structural interpretation and hydrocarbon potential of the Giralia area, Carnarvon Basin: Western Australia Geological Survey, Report 52, 38p.

GHORI, K. A. R., 1996, Petroleum source rocks, Merlinleigh and Byro Sub-Basins, Carnarvon Basin, Western Australia: Western Australia Geological Survey, Record 1995/5, 89p.

HAVORD, P. J., 1998, Assessment and prediction of petroleum reservoir quality in the Moogooloo Sandstone and Keogh Formation, Southern Carnarvon Basin, Western Australia: Western Australia Geological Survey, Record 1998/4, 68p.

HOCKING, R. M., 1994, Subdivisions of Western Australian Neoproterozoic and Phanerozoic sedimentary basins: Western Australia Geological Survey, Record 1994/4, 84p.

- IASKY, R. P., MORY, A. J., GHORI, K. A. R., and SHEVCHENKO, S. I., 1998, Structure and petroleum potential of the southern Merlinleigh Sub-basin, Carnarvon Basin, Western Australia: Western Australia Geological Survey, Report 61, 63p.
- MORY, A. J. (compiler), 1996, GSWA Ballythanna 1 well completion report, Byro Sub-basin, Carnarvon Basin, Western Australia: Western Australia Geological Survey, Record 1996/7, 48p.
- MORY, A. J. (compiler), 1996, GSWA Gneudna 1 well completion report, Byro Sub-basin, Carnarvon Basin, Western Australia: Western Australia Geological Survey, Record 1996/6, 51p.
- MORY, A. J., and BACKHOUSE, J., 1997, Permian stratigraphy and palynology of the Carnarvon Basin, Western Australia: Western Australia Geological Survey, Report 51, 46p.
- MORY, A. J., and YASIN, A. R. (compilers), 1998, GSWA Mooka 1 well completion report, Gascoyne Platform, Southern Carnarvon Basin, Western Australia: Western Australia Geological Survey, Record 1998/6, 49p.
- MORY, A. J., and YASIN, A. R. (compilers), in press, GSWA Barrabiddy 1 and 1A well completion report, Wandagee Ridge, Southern Carnarvon Basin, Western Australia: Western Australia Geological Survey, Record 1999/3, 84p.
- YASIN, A. R., and MORY, A. J. (compilers), in prep., Coburn 1 well completion report, Gascoyne Platform, Southern Carnarvon Basin, Western Australia: Western Australia Geological Survey, Record
- YASIN, A. R., and MORY, A. J. (compilers), in prep., Yaringa East 1 well completion report, Gascoyne Platform, Southern Carnarvon Basin, Western Australia: Western Australia Geological Survey, Record

Carnarvon Basin
Byro Sub-basin

BMR 08 Glenburgh

Well ID: W001501
1 Feb 1999

Latitude: 25° 45' 30.00" S	Classification: STR
Longitude: 115° 40' 10.00" E	Tenement: PE-28-H
Elevation: GL 243.8 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 245.1 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 915.6	
Metres Drilled: 914.4	

Operator: Bureau of Mineral Resources	Spud Date: 25 May 1959
Rig: Failing 2500	TD Date: 12 Jul 1959
Contractor: O D & E Pty Ltd	Rig Released: 12 Jul 1959

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Dickens JM 1959		No
Porosity	GSWA	18 Aug 1995	No
Porosity	GSWA	18 Aug 1995	No
Rock Eval	Analabs	1 Sep 1984	No
Stratigraphy	WAPET WIS	3 Sep 1975	No
Stratigraphy	Mory A, Backhouse J	16 Sep 1997	No
Vitrinite Reflectance	SHELL (Keiraville Consultants)		No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
27 Mar 1998	(NB Previously called BMR 8 Mt Madeleine.) The location stated in original report varies from WIS location details as supplied by WAPET 03/09/75. "Completion Report BMR 8, Mount Madeleine, and BMR 9, Daurie Creek, Byro Basin Western Australia" - Report 108. 1967 states Mount Madeleine BMR 8 (Now called BMR 08 Glenburgh) Lat 25°45'5"S, Long 115°38'23"E. BMR 8 and 9 were drilled to supplement the Geological Survey of the Byro Basin. BMR 8 was planned to investigate the contact between the Permian and PreCambrian. BMR 9 was drilled in the syncline to investigate what effect structure (to the west) would have on the lithology in the synclinal area. Neither bore provided much information on structure. The wells were P&A'd.

Carnarvon Basin
Byro Sub-basin

BMR 09 Glenburgh

Well ID: W001502

1 Feb 1999

Latitude: 25° 33' 30.00" S	Classification: STR
Longitude: 115° 53' 55.00" E	Tenement: PE-28-H
Elevation: GL 274.3 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 275.5 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 700.7	
Metres Drilled: 699.7	

Operator: Bureau of Mineral Resources	Spud Date: 16 Jul 1959
Rig: Failing 2500	TD Date: 12 Aug 1959
Contractor: O D & E Pty Ltd	Rig Released: 12 Aug 1959

0 DST(s) done
10 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Dickens JM 1959		No
Porosity	GSWA	18 Aug 1995	No
Porosity	GSWA	18 Aug 1995	No
Rock Eval	Analabs	1 Sep 1984	No
Stratigraphy	WAPET WIS	4 Sep 1975	No
Stratigraphy	Mory A, Backhouse J	16 Sep 1997	No
Stratigraphy	BMR Report 108		No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
27 Mar 1998	(NB Previously BMR 9 Daurie Creek) The location stated in original report varies from WIS location details as supplied by WAPET 03/09/75. "Completion Report BMR 8, Mount Madeleine, and BMR 9, Daurie Creek, Byro Basin Western Australia" - Report 108. 1967 states Daurie Creek BMR 9 (Now called BMR 09 Glenburgh) Lat 25°33'17"S, Long 115°53'17"E. BMR 8 and 9 were drilled to supplement the Geological Survey of the Byro Basin. BMR 8 was planned to investigate the contact between the Permian and PreCambrian. BMR 9 was drilled in the syncline to investigate what effect structure (to the west) would have on the lithology in the synclinal area. Neither bore provided much information on structure. Correlations between the two wells within the Keogh Fm were complicated by facies changes. It appears BMR 9 and Bogadi Bore were further from the source of sediments than BMR 8, and consequently closer to the centre of the basin. The wells were P&A'd.

Carnarvon Basin
Byro Sub-basin

GSWA Ballythanna 1

Well ID: W001987
1 Feb 1999

Latitude: 26° 3' 42.00" S	Classification: STR
Longitude: 115° 40' 11.00" E	Tenement:
Elevation: GL 270.0 m AHD	Well Status: Stratigraphic Well
Datum: DF @ 270.0 m AHD	Completion Status: Plugged and Abandoned
TD Driller (mRT): 465.2	
Metres Drilled: 465.2	

Operator: Geological Survey Of Western Australia	Spud Date: 5 May 1995
Rig: Foxmobile B40T	TD Date: 15 May 1995
Contractor: Mt Magnet Drilling	Rig Released: 16 May 1995

0 DST(s) done
2 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Backhouse J.		No
Porosity	GSWA	16 May 1995	No
Rock Eval	Geotech	15 May 1995	No
Stratigraphy	Operator	16 May 1995	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No
Vitrinite Reflectance	Keiraville Konsultants	1 Jan 1996	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
16 May 1995	Ballythanna 1 was drilled in the Byro Sub Basin as a fully cored stratigraphic hole primarily to test the source rock potential of the Callytharra Fm and the reservoir potential of the Moogooloo Sandstone. It was drilled near the centre of the north-plunging nose of the Ballythanna Anticline. No hydrocarbons were encountered in the well, nor were any expected as, despite its location no trap was anticipated. The section is immature and no source rocks could be demonstrated.

Carnarvon Basin
Byro Sub-basin

North Ballythanna Corehole 1

Well ID: W000106
1 Feb 1999

Latitude: 25° 55' 40.00" S	Classification: STR
Longitude: 115° 39' 50.00" E	Tenement: EP 46
Elevation: GL 242.3 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 242.3 m ASL	Completion Status: Abandoned
TD Driller (mRT): 198.1	
Metres Drilled: 198.1	

Operator: Continental Oil Co Of Australia Ltd	Spud Date: 26 Mar 1965
Rig: Unknown	TD Date: 28 Mar 1965
Contractor:	Rig Released: 28 Mar 1965

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator	1 Apr 1965	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Apr 1965	The project consisted of 2-4 holes to prove the practability of the core drill method in this locality. The main objectives of the North Ballythanna Corehole project were to determine the presence or absence of electric log markers and to determine whether or not these markers could be used to map the geologic structure of the area. Another objective was to see if shallow drilling could be useful in providing subcrop and structural data in the sandcovered areas of the Carnarvon Block. Four coreholes were drilled. The Permian Madeleine Fm was encountered in the four holes, and the possible top of the Keogh Fm was encountered in corehole no 3. No E-W rollover was found along the profile. The wells were abandoned. Top fluid level in hole=78'. Datum=GL

Carnarvon Basin
Byro Sub-basin

North Ballythanna Corehole 2

Well ID: W000107
1 Feb 1999

Latitude: 25° 55' 58.00" S	Classification: STR
Longitude: 115° 38' 50.00" E	Tenement: PE-226-H
Elevation: GL 240.0 m ASL	Well Status: Stratigraphic Well
Datum: @ m ASL	Completion Status: Abandoned
TD Driller (mRT): 182.9	
Metres Drilled: 182.9	

Operator: Continental Oil Co Of Australia Ltd	Spud Date: 28 Mar 1965
Rig: Unknown	TD Date: 29 Mar 1965
Contractor:	Rig Released: 29 Mar 1965

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator	1 Apr 1965	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Apr 1965	The main objectives of the North Ballythanna Corehole project were to determine the presence or absence of electric log markers and to determine whether or not these markers could be used to map the geologic structure of the area. Another objective was to see if shallow drilling could be useful in providing subcrop and structural data in the sandcovered areas of the Carnarvon Block. Four coreholes were drilled. The Permian Madeleine Fm was encountered in the four holes, and the possible top of the Keogh Fm was encountered in corehole no 3. No E-W rollover was found along the profile. The wells were abandoned. Top fluid level in hole=77'. Datum=GL

Carnarvon Basin
Byro Sub-basin

North Ballythanna Corehole 3

Well ID: W000108
1 Feb 1999

Latitude: 25° 56' 10.00" S	Classification: STR
Longitude: 115° 38' 0.00" E	Tenement: PE-226-H
Elevation: GL 239.9 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 239.9 m ASL	Completion Status: Abandoned
TD Driller (mRT): 211.8	
Metres Drilled: 211.8	

Operator: Continental Oil Co Of Australia Ltd	Spud Date: 30 Mar 1965
Rig: Unknown	TD Date: 2 Apr 1965
Contractor:	Rig Released: 2 Apr 1965

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator	1 Apr 1965	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Apr 1965	The main objectives of the North Ballythanna Corehole project were to determine the presence or absence of electric log markers and to determine whether or not these markers could be used to map the geologic structure of the area. Another objective was to see if shallow drilling could be useful in providing subcrop and structural data in the sandcovered areas of the Carnarvon Block. Four coreholes were drilled. The Permian Madeleine Fm was encountered in the four holes, and the possible top of the Keogh Fm was encountered in corehole no 3. No E-W rollover was found along the profile. The wells were abandoned. Top fluid level in hole=98'. Datum=GL

Carnarvon Basin
Byro Sub-basin

North Ballythanna Corehole 4

Well ID: W000109
1 Feb 1999

Latitude: 25° 55' 20.00" S
Longitude: 115° 40' 45.00" E
Elevation: m ASL
Datum: @ m ASL
TD Driller (mRT): 156.9
Metres Drilled: 156.9

Classification: STR
Tenement: PE-226-H
Well Status: Stratigraphic Well
Completion Status: Abandoned

Operator: Continental Oil Co Of Australia Ltd
Rig: Unknown
Contractor:

Spud Date: 1 Apr 1965
TD Date: 2 Apr 1965
Rig Released: 2 Apr 1965

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator	1 Apr 1965	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Apr 1965	The main objectives of the North Ballythanna Corehole project were to determine the presence or absence of electric log markers and to determine whether or not these markers could be used to map the geologic structure of the area. Another objective was to see if shallow drilling could be useful in providing subcrop and structural data in the sandcovered areas of the Carnarvon Block. Four coreholes were drilled. The Permian Madeleine Fm was encountered in the four holes, and the possible top of the Keogh Fm was encountered in corehole no 3. No E-W rollover was found along the profile. The wells were abandoned. Top fluid level in hole-83'. Datum=GL

Carnarvon Basin
Gascoyne Platform

Airey Hill 1

Well ID: W001038
1 Feb 1999

Latitude: 23° 4' 0.24" S
Longitude: 113° 52' 19.60" E
Elevation: GL 68.4 m ASL
Datum: RT @ 71.7 m ASL
TD Driller (mRT): 1,037.0
Metres Drilled: 1,033.7

Classification: NFW
Tenement: EP 166
Well Status: Water Well
Completion Status: Water

Operator: Monarch Petroleum NL
Rig: Rig 8
Contractor: O D & E Pty Ltd

Spud Date: 23 May 1980
TD Date: 6 Jun 1980
Rig Released: 11 Jun 1980

0 DST(s) done

0 Cores cut 27 SWC Shot, Recovered

0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Rexilius JP	1 Aug 1980	No
Biostratigraphy	Ingram BS	1 Aug 1980	No
Biostratigraphy	Balme BE	30 Jul 1980	No
Porosity	Corelab	11 Jun 1980	No
Stratigraphy	Operator	14 Nov 1980	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Oct 1980	Airey Hill 1 was an exploratory well located onshore in the Gascoyne Platform. The well was situated on a high topographic trend considered to be anticlinal. The primary reservoir objective was the Cretaceous Birdrong Sandstone sealed by the Muderong Shale. No hydrocarbons were noted, however, water with a greasy appearance and hydrocarbon odour was recovered when swabbing the well after perforating the upper sand unit of the Birdrong Fm. The well established the presence of anomalously thick Birdrong Sandstone. The Birdrong Fm lies unconformably on glaciogene sediments of the Lower Permian Lyons Gp. The well was completed as a water bore for Cardabia Station.

Carnarvon Basin
Gascoyne Platform

Cape Cuvier 1

Well ID: W000020

1 Feb 1999

Latitude: 24° 13' 35.04" S	Classification: STR
Longitude: 113° 23' 49.99" E	Tenement: LP-34-H
Elevation: GL 71.9 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 72.2 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 457.2	
Metres Drilled: 456.9	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 16 Jul 1955
Rig: Unknown	TD Date: 5 Sep 1955
Contractor:	Rig Released: 5 Sep 1955

0 DST(s) done
16 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Dickens JM	1 Dec 1955	No
Biostratigraphy	Belford DJ	1 Dec 1955	No
Biostratigraphy	Purcell RR & Ingram BS	1 Jul 1983	No
Stratigraphy	Operator WIS Revised	15 Jan 1973	No
Stratigraphy	Operator	11 May 1973	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Dec 1955	The purpose of the well was to obtain stratigraphic information of the Birdrong Sandstone and the underlying sediments to a TD of 1500'. The well was drilled on a regional high. Cape Cuvier 1 gave information on the nature of sediments underlying the Mesozoic. Logs gave information on formation boundaries and indicated the presence of the Upper Gearle Fm. Fossils recovered at 1492' indicate the age of the underlying sequence is Devonian. No oil or gas indications were encountered. The well was P&A'd.

Carnarvon Basin
Gascoyne Platform

Chargoo 1

Well ID: W000681

1 Feb 1999

Latitude: 23° 35' 57.02" S	Classification: NFW
Longitude: 113° 55' 55.94" E	Tenement: LP-141-H
Elevation: GL 26.5 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: RT @ 27.8 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 428.0	
Metres Drilled: 426.7	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 14 Oct 1967
Rig: Mayhew 2000	TD Date: 21 Oct 1967
Contractor: Geophysical Services International	Rig Released: 24 Oct 1967

1 DST(s) done
3 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Porosity	WAPET	1 Nov 1967	No
Stratigraphy	Operator	1 Sep 1968	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Nov 1967	The Chargoo 1 and Gnaraloo 1 stratigraphic bores were located on Tertiary anticlines in the Salt Marsh area of the Carnarvon Basin. The objectives were to test the basal Cretaceous sand (Birdrong Fm) which produced oil in Rough Range 1 and minor hydrocarbon shows in Warroora 1, and to identify the pre-Cretaceous sediments in the area. An open hole DST was conducted in both wells as a routine test of the basal Cretaceous sand (Birdrong Fm) and were mechanically successful. In Gnaraloo 1 DST rainbows of oil were seen in the formation waters recovered. Water rose to 25' from the surface. In Gnaraloo 1 16 units of gas was measured from the top of the Quail Fm at 1480'. Chargoo 1 was abandoned at 1404' and the responsibility of the well transferred to the Station owner.

Southern Carnarvon Basin
Gascoyne Platform

Coburn 1

Well ID: W002117
21 Dec 1998

Latitude: 26° 42' 3.00" S	Classification: STR
Longitude: 114° 13' 31.00" E	Tenement: EP 401
Elevation: GL 10.0 m ASL	Well Status: Stratigraphic Well
Datum: KB @ 13.0 m ASL	Completion Status: Water
TD Driller (mRT): 1,093.0	
Metres Drilled: 1,090.0	

Operator: Knight Industries Pty Ltd	Spud Date: 23 May 1997
Rig: UDR (Warman) 3000	TD Date: 14 Jun 1997
Contractor: Western Deep Hole Drilling	Rig Released: 15 Jun 1997

0 DST(s) done
0 Cores cut
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Porosity	Corelab	24 Sep 1997	No
Porosity	Corelab	24 Sep 1997	No
Porosity	Corelab	24 Sep 1997	No
Porosity	Corelab	24 Sep 1997	No
Stratigraphy	Operator	15 Jun 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
21 Dec 1998	This information is unavailable as of the date of publication

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 01

Well ID: W000755
1 Feb 1999

Latitude: 25° 43' 15.00" S	Classification: STR
Longitude: 113° 3' 5.00" E	Tenement: LP-44-H
Elevation: GL 1.0 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 2.7 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 338.3	
Metres Drilled: 336.6	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 10 Oct 1955
Rig: Failing 1500	TD Date: 7 Nov 1955
Contractor: Lloyd Drilling Company	Rig Released: 7 Nov 1955

0 DST(s) done
12 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Comments: Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 02

Well ID: W000756
1 Feb 1999

Latitude: 25° 44' 10.00" S	Classification: STR
Longitude: 113° 0' 45.00" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 18.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 256.0	
Metres Drilled: 238.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 16 Nov 1955
Rig: Failing 1500	TD Date: 23 Nov 1955
Contractor: Lloyd Drilling Company	Rig Released: 23 Nov 1955

0 DST(s) done
1 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 03

Well ID: W000757
1 Feb 1999

Latitude: 25° 45' 10.00" S	Classification: STR
Longitude: 112° 58' 20.00" E	Tenement: LP-44-H
Elevation: GL 27.1 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 27.4 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 272.8	
Metres Drilled: 272.5	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 1 Feb 1955
Rig: Failing 1500	TD Date: 11 Dec 1955
Contractor: Lloyd Drilling Company	Rig Released: 11 Dec 1955

0 DST(s) done
1 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 04

Well ID: W000758
1 Feb 1999

Latitude: 25° 42' 0.00" S	Classification: STR
Longitude: 113° 0' 20.00" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 37.5 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 457.2	
Metres Drilled: 419.7	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 21 Dec 1955
Rig: Failing 1500	TD Date: 1 Jan 1956
Contractor: Lloyd Drilling Company	Rig Released: 1 Jan 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Belford DJ 1956		No
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 05

Well ID: W000759
1 Feb 1999

Latitude: 25° 45' 40.00" S	Classification: STR
Longitude: 113° 1' 50.00" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 46.9 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 281.6	
Metres Drilled: 234.7	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 5 Jan 1956
Rig: Failing 1500	TD Date: 15 Jan 1956
Contractor: Lloyd Drilling Company	Rig Released: 15 Jan 1956

0 DST(s) done
2 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 06

Well ID: W000760
1 Feb 1999

Latitude: 25° 47' 40.00" S	Classification: STR
Longitude: 113° 2' 0.00" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 37.8 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 304.8	
Metres Drilled: 267.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 2 Feb 1956
Rig: Failing 1500	TD Date: 17 Feb 1956
Contractor: Lloyd Drilling Company	Rig Released: 17 Feb 1956

0 DST(s) done
1 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin Gascoyne Platform

Dirk Hartog 07A

Well ID: W000761
1 Feb 1999

Latitude: 25° 46' 40.00" S Longitude: 113° 4' 50.00" E Elevation: GL m ASL Datum: DF @ 18.0 m ASL TD Driller (mRT): 274.3 Metres Drilled: 256.3	Classification: STR Tenement: LP-44-H Well Status: Stratigraphic Well Completion Status: Plugged and Abandoned
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Operator: West Australian Petroleum Pty Ltd Rig: Failing 1500 Contractor: Lloyd Drilling Company	Spud Date: 24 Apr 1956 TD Date: 5 May 1956 Rig Released: 5 May 1956
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0 DST(s) done
 1 Cores cut 0 SWC Shot, 0 Recovered
 0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
19 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 08A

Well ID: W000762

1 Feb 1999

Latitude: 25° 48' 25.00" S	Classification: STR
Longitude: 112° 58' 50.00" E	Tenement: LP-44-H
Elevation: GL 57.3 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 57.6 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 364.5	
Metres Drilled: 364.2	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 9 May 1956
Rig: Failing 1500	TD Date: 28 May 1956
Contractor: Lloyd Drilling Company	Rig Released: 28 May 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 09A

Well ID: W000763

1 Feb 1999

Latitude: 25° 52' 25.00" S	Classification: STR
Longitude: 113° 6' 15.00" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 2.4 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 257.6	
Metres Drilled: 255.2	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 29 Jul 1956
Rig: Failing 1500	TD Date: 7 Aug 1956
Contractor: Lloyd Drilling Company	Rig Released: 7 Aug 1956

0 DST(s) done
1 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 10

Well ID: W000764
1 Feb 1999

Latitude: 25° 56' 50.00" S	Classification: STR
Longitude: 113° 9' 20.00" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 3.1 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 267.0	
Metres Drilled: 264.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 16 Aug 1956
Rig: Failing 1500	TD Date: 30 Aug 1956
Contractor: Lloyd Drilling Company	Rig Released: 30 Aug 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 11

Well ID: W000765
1 Feb 1999

Latitude: 25° 57' 20.00" S	Classification: STR
Longitude: 113° 7' 35.00" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 7.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 249.0	
Metres Drilled: 242.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 1 Sep 1956
Rig: Failing 1500	TD Date: 9 Sep 1956
Contractor: Lloyd Drilling Company	Rig Released: 9 Sep 1956

0 DST(s) done
1 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'. To test the Birdrong Fm for fluid content and to evaluate the source and reservoir rock potential of the pre-Birdrong sediments, Dirk Hartog 17 was spudded in at the established culmination between Structure Holes 9 & 15. Owing to a changed drilling program, the Failing 1500 rig was replaced by an O. D. & E T-20 rig and a new hole, Dirk Hartog 17A was spudded and drilled to 541'. After the drillpipe twisted off this hole was abandoned and the rig skidded for about 30' to the Dirk Hartog 17B location. The hole spudded in Coastal Limestone and TD'd at 4998' in Tumblagooda Sandstone of probable Lower Silurian age. The test penetrated a thin layer (approx 4') of Birdrong Fm with no traces of hydrocarbons. 2300' of carbonate rocks (Dirk Hartog Ls) of Silurian age were penetrated below the Birdrong Fm. Several minor indications of hydrocarbons were observed in this sequence. However formation tests run in the Dirk Hartog Ls and the Tumblagooda Sst did not show any signs of hydrocarbons. There is no evidence to indicate that the well penetrated the pre-Birdrong section on structure and consequently the Silurian carbonate sequence would not be adequately tested unless a structure was first defined by seismic methods and then drilled. The well was P&A'd.

**Carnarvon Basin
Gascoyne Platform**

Dirk Hartog 12

Well ID: W000766
1 Feb 1999

Latitude: 25° 57' 45.00" S	Classification: STR
Longitude: 113° 6' 5.00" E	Tenement: LP-44-H
Elevation: GL 16.8 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 17.1 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 277.4	
Metres Drilled: 277.1	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 18 Sep 1956
Rig: Failing 1500	TD Date: 3 Oct 1956
Contractor: Lloyd Drilling Company	Rig Released: 3 Oct 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 13

Well ID: W000767
1 Feb 1999

Latitude: 26° 1' 57.39" S	Classification: STR
Longitude: 113° 9' 55.45" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 2.7 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 297.2	
Metres Drilled: 294.5	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 6 Oct 1956
Rig: Failing 1500	TD Date: 9 Oct 1956
Contractor: Lloyd Drilling Company	Rig Released: 9 Oct 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 14

Well ID: W000768
1 Feb 1999

Latitude: 25° 53' 25.00" S	Classification: STR
Longitude: 113° 8' 45.00" E	Tenement: LP-44-H
Elevation: GL 30.8 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 31.4 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 297.2	
Metres Drilled: 296.6	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 11 Oct 1956
Rig: Failing 1500	TD Date: 14 Oct 1956
Contractor: Lloyd Drilling Company	Rig Released: 14 Oct 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 15

Well ID: W000769
1 Feb 1999

Latitude: 25° 53' 27.00" S	Classification: STR
Longitude: 113° 2' 2.00" E	Tenement: LP-44-H
Elevation: GL 33.8 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 34.1 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 321.0	
Metres Drilled: 320.6	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 13 Oct 1956
Rig: Failing 1500	TD Date: 20 Oct 1956
Contractor: Lloyd Drilling Company	Rig Released: 20 Oct 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 16

Well ID: W000770

1 Feb 1999

Latitude: 25° 49' 22.00" S	Classification: STR
Longitude: 113° 6' 21.00" E	Tenement: LP-44-H
Elevation: GL m ASL	Well Status: Stratigraphic Well
Datum: DF @ 1.2 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 259.1	
Metres Drilled: 257.9	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 21 Oct 1956
Rig: Failing 1500	TD Date: 25 Oct 1956
Contractor: Lloyd Drilling Company	Rig Released: 25 Oct 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	1 Mar 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'.

Carnarvon Basin
Gascoyne Platform

Dirk Hartog 17B

Well ID: W000771

1 Feb 1999

Latitude: 25° 52' 2.60" S	Classification: NFW
Longitude: 113° 4' 46.71" E	Tenement: LP-44-H
Elevation: GL 87.0 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: DF @ 90.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 1,523.4	
Metres Drilled: 1,520.4	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 18 Feb 1957
Rig: National T-20	TD Date: 22 May 1957
Contractor: O D & E Pty Ltd	Rig Released: 22 May 1957

10 DST(s) done
30 Cores cut 28 SWC Shot, Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Rock Eval	WAIT (Scott & Alexander)		No
Stratigraphy	Operator WIS	20 Aug 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1956	Pre-Drill Objectives: The Dirk Hartog Island structure drilling project was proposed with the objective of determining whether Dirk Hartog Island was the topographic expression of a subsurface fold. If this proved to be the case, a number of shallow structure holes would be drilled to delineate the structure. Once the structure was delineated, the drilling of deeper holes to the Birdrong and pre-Birdrong objectives would be considered.
20 Aug 1957	Dirk Hartog Island Structure Hole Drilling Program commenced in October 1955 and was completed on October 25, 1956. Sixteen structure holes, ranging from 800' to 1500' in depth were drilled with the Lloyd Drilling Company's Failing 1500 rig. As a result of this drilling, a shallow structure was established, with a maximum closure of 50' (proven) and probably 100'. The objective of Dirk Hartog 17B was to test the Birdrong Fm for fluid content and to evaluate the source and reservoir rock potential of the pre-Birdrong sediments, Dirk Hartog 17 was spudded in at the established culmination between Structure Holes 9 & 15. Owing to a changed drilling program, the Failing 1500 rig was replaced by an O. D. & E T-20 rig and a new hole, Dirk Hartog 17A was spudded and drilled to 541'. After the drillpipe twisted off this hole was abandoned and the rig skidded for about 30' to the Dirk Hartog 17B location. The hole spudded in Coastal Limestone and TD'd at 4998' in Tumblagooda Sandstone of probable Lower Silurian age. The test penetrated a thin layer (approx 4') of Birdrong Fm with no traces of hydrocarbons. 2300' of carbonate rocks (Dirk Hartog Ls) of Silurian age were penetrated below the Birdrong Fm. Several minor indications of hydrocarbons were observed in this sequence. However formation tests run in the Dirk Hartog Ls and the Tumblagooda Sst did not show any signs of hydrocarbons. There is no evidence to indicate that the well penetrated the pre-Birdrong section on structure and consequently the Silurian carbonate sequence would not be adequately tested unless a structure was first defined by seismic methods and then drilled. The well was P&A'd.

Carnarvon Basin
Gascoyne Platform

Gnaraloo 1

Well ID: W000682
1 Feb 1999

Latitude: 23° 40' 36.90" S	Classification: NFW
Longitude: 113° 47' 5.60" E	Tenement: LP-140-H
Elevation: GL 46.5 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: RT @ 47.8 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 499.9	
Metres Drilled: 498.6	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 30 Oct 1967
Rig: Mayhew 2000	TD Date: 11 Nov 1967
Contractor: Geophysical Services International	Rig Released: 12 Nov 1967

1 DST(s) done
2 Cores cut 10 SWC Shot, 10 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator	28 Nov 1967	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Nov 1967	The Chargoo 1 and Gnaraloo 1 stratigraphic bores were located on Tertiary anticlines in the Salt Marsh area of the Carnarvon Basin. The objectives were to test the basal Cretaceous sand (Birdrong Fm) which produced oil in Rough Range 1 and minor hydrocarbon shows in Warroora 1, and to identify the pre-Cretaceous sediments in the area. An open hole DST was conducted in both wells as a routine test of the basal Cretaceous sand (Birdrong Fm) and were mechanically successful. In Gnaraloo 1 DST rainbows of oil were seen in the formation waters recovered. Water rose to 25' from the surface. In Gnaraloo 1 16 units of gas was measured from the top of the Quail Fm at 1480'. Gnaraloo 1 was abandoned at 1646' and the responsibility of the well transferred to the Station owner.

Carnarvon Basin
Gascoyne Platform

Grierson 1

Well ID: W000028

1 Feb 1999

Latitude: 24° 12' 4.74" S
Longitude: 113° 46' 26.40" E
Elevation: GL 11.6 m ASL
Datum: DF @ 11.9 m ASL
TD Driller (mRT): 438.0
Metres Drilled: 437.7

Classification: STR
Tenement: LP-33-H
Well Status: Stratigraphic Well
Completion Status: Water

Operator: West Australian Petroleum Pty Ltd
Rig: Unknown
Contractor: Lloyd Drilling Company

Spud Date: 10 Apr 1955
TD Date: 8 May 1955
Rig Released: 8 May 1955

1 DST(s) done
8 Cores cut 0 SWC Shot, Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS 6/4/59	6 Apr 1959	No
Stratigraphy	Operator	11 May 1973	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
24 Aug 1955	The object of the Grierson 1 structure hole was to penetrate the Birdrong Sandstone and to continue to the operational limit of the rig or approx 2000' to obtain samples for stratigraphic and structural interpretation. Owing to poor core recovery and caving in the DC's a full picture of the section was not obtained. Two more structure holes were planned. The well was converted to a water well.

Carnarvon Basin
Gascoyne Platform

Grierson 2

Well ID: W000029

1 Feb 1999

Latitude: 24° 12' 7.00" S
Longitude: 113° 47' 11.50" E
Elevation: GL 4.0 m ASL
Datum: DF @ 4.3 m ASL
TD Driller (mRT): 458.0
Metres Drilled: 457.7

Classification: STR
Tenement: LP-33-H
Well Status: Stratigraphic Well
Completion Status: Plugged and Abandoned

Operator: West Australian Petroleum Pty Ltd
Rig: Unknown
Contractor: Lloyd Drilling Company

Spud Date: 13 May 1955
TD Date: 30 May 1955
Rig Released: 30 May 1955

0 DST(s) done
12 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	3 Apr 1959	No
Stratigraphy	Operator	11 May 1973	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
25 Aug 1955	Grierson 2 was drilled 4300' E of Grierson 1. It appears the structure is entirely of late development, post Lower Miocene, the probable age of the consolidated surface rocks. The well was P&A'd.

Carnarvon Basin
Gascoyne Platform

Grierson 3

Well ID: W000030
1 Feb 1999

Latitude: 24° 12' 7.00" S
Longitude: 113° 45' 36.50" E
Elevation: GL 1.5 m ASL
Datum: DF @ 1.8 m ASL
TD Driller (mRT): 442.0
Metres Drilled: 441.7

Classification: STR
Tenement: LP-33-H
Well Status: Stratigraphic Well
Completion Status: Plugged and Abandoned

Operator: West Australian Petroleum Pty Ltd
Rig: Unknown
Contractor: Lloyd Drilling Company

Spud Date: 7 Jun 1955
TD Date: 25 Jun 1955
Rig Released: 25 Jun 1955

0 DST(s) done
10 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Belford DJ	29 Aug 1955	No
Stratigraphy	Operator	11 May 1973	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
26 Aug 1955	Grierson 3 Structure Hole was drilled to penetrate the Birdrong Sandstone and to gather stratigraphic information not obtained in previous wells on the structure, mainly from the Lower Birdrong and pre-Birdrong intervals. Grierson 3 was drilled 3900' W of Grierson 1. The Grierson 3 well found these new units to be 95' thick and nearshore or non marine origin. Core 11 recovered Palaeozoic dolomite. The well was P&A'd.

GSWA Barrabiddy 1A

Well ID: W002081

1 Feb 1999

Latitude: 23° 49' 57.00" S	Classification: STR
Longitude: 114° 20' 0.00" E	Tenement:
Elevation: GL 55.0 m AHD	Well Status: Stratigraphic Well
Datum: RT @ 55.0 m AHD	Completion Status: Plugged and Abandoned
Seismic Location: Line W90-06 SP 2377	
TD Driller (mRT): 782.9	
Metres Drilled: 1,020.9	

Operator: Geological Survey Of Western Australia	Spud Date: 29 Oct 1996
Rig: Foxmobile	TD Date: 22 Nov 1996
Contractor: Western Deep Hole Drilling	Rig Released: 22 Nov 1996

Section Type	Section Name	Start (mRT)	End (mRT)
Original	Barrabiddy 1	0.0	238.0
Respud	Barrabiddy 1A	0.0	782.9

0 DST(s) done
5 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Purcell R	22 Nov 1996	No
Biostratigraphy	Nicoll RS	22 Nov 1996	No
Biostratigraphy	Howe RW	22 Nov 1996	No
Porosity	Corelab	3 Feb 1997	No
Porosity	Corelab	3 Feb 1997	No
Stratigraphy	Operator Barrabiddy 1	8 Nov 1996	No
Stratigraphy	Operator Barrabiddy 1A	22 Nov 1996	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
22 Nov 1996	Barrabiddy 1 and 1A are two adjacent stratigraphic wells or coreholes on the Wandagee Ridge (Gascoyne Platform) in the Southern Carnarvon Basin at Latitude 23° 49' 57" S, Longitude 114° 20' 00" E. Barrabiddy 1A was drilled after Barrabiddy 1 failed to reach the primary objective (Gneudna Formation). Both wells penetrated the Lower Cretaceous Winning Group to 191 m. Barrabiddy 1A intersected a complete section of the Gneudna Formation between the Munabia Formation (191-276 m) and the upper part of the Nannyarra Sandstone (778-782.9 m) in which drilling was terminated. The Gneudna Formation contains dolomitized reefal limestone of the Point Maud Member (276-607 m) overlying undifferentiated, thinly bedded fossiliferous limestone and shale (607-778 m). Excellent hydrocarbon source-rock, which lies within the oil-generative window, is present within the lower part of the formation in thin beds that were deposited under anaerobic conditions. Foraminifera and palynomorphs indicate that the Winning Group contains three major marine shallowing-up cycles, with significant breaks in the early Aptian and between the Aptian and Albian at the top of the Muderong Shale and Windalia Radiolarite, respectively, consistent with other areas in the basin. Water depths during maximum flooding within the lower part of each cycle progressively deepen, reflecting the overall transgressive nature of the group.

GSWA Mooka 1

Well ID: W002080

1 Feb 1999

Latitude: 24° 58' 36.00" S	Classification: STR
Longitude: 114° 48' 20.00" E	Tenement:
Elevation: GL 120.0 m AHD	Well Status: Stratigraphic Well
Datum: RT @ 120.0 m AHD	Completion Status: Plugged and Abandoned
Seismic Location: Line W90-006 SP 2380	
TD Driller (mRT): 418.0	
Metres Drilled: 418.0	

Operator: Geological Survey Of Western Australia	Spud Date: 18 Oct 1996
Rig: Foxmobile	TD Date: 26 Oct 1996
Contractor: Western Deep Hole Drilling	Rig Released: 26 Oct 1996

0 DST(s) done

2 Cores cut 0 SWC Shot, 0 Recovered

0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Backhouse J	26 Oct 1996	No
Biostratigraphy	Nicoll RS	26 Oct 1996	No
Porosity	Corelab	1 Feb 1997	No
Rock Eval	Geotech	26 Oct 1996	No
Stratigraphy	Operator	26 Oct 1996	No
Vitrinite Reflectance	Kieraville Konsultants	26 Oct 1996	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
26 Oct 1996	Mooka 1 is a stratigraphic well or corehole that was drilled on the eastern margin of the Gascoyne Platform in the Southern Carnarvon Basin, at Latitude 24° 58' 36" S, Longitude 114° 48' 20" E The well was spudded in alluvium and then penetrated the Lower Cretaceous Winning Group (23-93 m), unconformably above the Lower Devonian Kopke Sandstone (93-183.5) and Faure Formation (183.5-281 m). The well was terminated at 418 m in the upper part of the Upper Silurian Dirk Hartog Formation. The Palaeozoic section has poor source-rock potential and is no more than marginally mature.

Carnarvon Basin
Gascoyne Platform

Hamelin Pool 1 (M188)

Well ID: W000711

1 Feb 1999

Latitude: 26° 1' 35.51" S
Longitude: 114° 12' 23.11" E
Elevation: GL 4.9 m ASL
Datum: KB @ 9.5 m ASL
TD Driller (mRT): 1,595.0
Metres Drilled: 1,590.4

Classification: STR
Tenement: EP 46
Well Status: Stratigraphic Well
Completion Status: Plugged and Abandoned

Operator: Magellan Petroleum Of Australia Ltd
Rig: Ideco H-40CD
Contractor: O D & E Pty Ltd

Spud Date: 31 Aug 1968
TD Date: 1 Oct 1968
Rig Released: 5 Oct 1968

0 DST(s) done
4 Cores cut 30 SWC Shot, 23 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator	15 Jan 1969	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Oct 1968	Hamelin Pool 1 was drilled to evaluate the potash, sodium, calcium, magnesium, bromine, lithium and sulphur potential of Temporary Reserve Nos 4186H & 4187H. The petroleum possibilities were considered secondary objectives. Hamelin Pool 1 closely corresponds with Yaringa 1, 9.5 miles to the ESE. Less salt is present in the Dirk Hartog Fm at Hamelin Pool 1 and is not easily correlated with that found at Yaringa 1. The well was plugged and completed as a shut-in water well from the Birdrong Sandstone.

Carnarvon Basin
Gascoyne Platform

Hamelin Pool 2 (M188)

Well ID: W000712
1 Feb 1999

Latitude: 26° 8' 55.00" S	Classification: STR
Longitude: 114° 21' 24.00" E	Tenement: EP 46
Elevation: GL 25.3 m ASL	Well Status: Stratigraphic Well
Datum: KB @ 30.2 m ASL	Completion Status: Plugged and Abandoned
Seismic Location: 1.2 miles S of SP 838 Line 12	
TD Driller (mRT): 1,219.2	
Metres Drilled: 1,214.3	

Operator: Magellan Petroleum Of Australia Ltd	Spud Date: 14 Nov 1968
Rig: Ideco H-40CD	TD Date: 5 Dec 1968
Contractor: Oilfield Drilling & Exploration Pty Ltd	Rig Released: 7 Dec 1968

0 DST(s) done
4 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator	30 Apr 1968	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Mar 1969	Hamelin Pool 2 was intended to further evaluate the potash potential of a salt unit in the evaporitic Dirk Hartog Fm. Hydrocarbon evaluation was a secondary objective. The well provided further information on the nature and extent of the salt section of the Dirk Hartog Fm and provided stratigraphic data on the younger formations. Total salt present was 17' which is considerably less than at Yaringa 1 or Hamelin Pool 1. There were no indications of potash. No hydrocarbons were detected. The Birdrong Fm was shown again to be an excellent aquifer. The well was plugged and completed as a shut-in water well from the Birdrong Sandstone.

Carnarvon Basin
Gascoyne Platform

Kalbarri 1

Well ID: W000868

1 Feb 1999

Latitude: 27° 16' 34.00" S	Classification: STR
Longitude: 114° 6' 27.00" E	Tenement: EP 48
Elevation: GL 129.2 m ASL	Well Status: Stratigraphic Well
Datum: KB @ 133.2 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 1,540.0	
Metres Drilled: 1,536.0	

Operator: Oceania Petroleum Pty Ltd	Spud Date: 11 Sep 1973
Rig: Ideco H-525	TD Date: 2 Oct 1973
Contractor: O D & E Pty Ltd	Rig Released: 3 Oct 1973

0 DST(s) done
3 Cores cut 0 SWC Shot, 0 Recovered
1 Velocity Surveys done with 8 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Balme BE	19 May 1973	No
Biostratigraphy	Balme BE	6 Jan 1974	No
Biostratigraphy	Burger D	1 Jan 1974	No
Biostratigraphy	Cockbain AE	1 Jan 1974	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	BMR	1 Feb 1974	No
Rock Eval	Analabs/Marathon	15 Nov 1986	No
Stratigraphy	Operator	20 Feb 1974	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Jan 1974	Kalbarri 1 was drilled to investigate the pre Cretaceous sediments and to penetrate to the Dirk Hartog Fm. The well was located in a geophysically predicted sub-basin where a sequence of Triassic sediments was expected to be present. The well penetrated Cretaceous sediments (Toolonga Calcilutite and the Birdrong Sandstone). Most of the Dirk Hartog Fm was eroded, except 293' of dolomite. Conformably underlying the Dirk Hartog Fm was the Tumblagooda Sandstone. The well TD'd at 5051' in this formation. No shows were observed. The top of the Tumblagooda Sandstone was shallower than expected by some 5,400' (1646m). The likely explanation for this is that the expected graben was not present. The well was P&A'd.

Carnarvon Basin
Gascoyne Platform

Pendock 1

Well ID: W000737

1 Feb 1999

Latitude: 23° 17' 2.00" S	Classification: NFW
Longitude: 113° 20' 10.00" E	Tenement: WA-24-P
Elevation: WD -132.6 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: RT @ 10.4 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 2,500.9	
Metres Drilled: 2,357.9	

Operator: Genoa Oil NL	Spud Date: 18 Jul 1969
Rig: Glomar Conception	TD Date: 13 Nov 1969
Contractor: Global Marine Australia Inc	Rig Released: 18 Nov 1969

Wireline Tests	From (mRT)	To (mRT)	No of Pressures	No of Samples
FIT	1,715.0	1,715.0	1	1

3 DST(s) done

7 Cores cut 60 SWC Shot, 39 Recovered

1 Velocity Surveys done with 15 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Coleman PJ	1 May 1970	No
Biostratigraphy	Balme BE	27 Sep 1969	No
Biostratigraphy	Balme BE	23 Dec 1969	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	Corelab	21 Nov 1969	No
Rock Eval	Geotechnical Services	1 Mar 1995	No
Rock Eval	LP Mitchell	1 Mar 1992	No
Rock Eval	WAIT (Scott & Alexander)		No
Rock Eval	Mitchell		No
Stratigraphy	Operator WIS	4 Sep 1975	No
Stratigraphy	Operator	18 May 1970	No
Vitrinite Reflectance	BMR	7 Aug 1978	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 May 1970	Pendock 1 was drilled on a large seismic structure. Principal objectives were sands at the base of the Cretaceous and within the Jurassic or Triassic. Minor hydrocarbon shows were encountered in Upper to Middle Devonian reefal dolomite, Middle to Lower Devonian sand and Upper Silurian dolomite. Two DST's were run - the first over the basal Cretaceous sand, obtaining good recovery of salt water. The second was over a shallow Tertiary carbonate and showed the formation to be tight. An FIT within the Middle to Lower Devonian sandstone unit recovered mud filtrate only. Pendock 1 demonstrated the presence of Devonian reef, but tight at this location. The well was P&A'd

Carnarvon Basin
Gascoyne Platform

Quobba 1

Well ID: W001325
1 Feb 1999

Latitude: 24° 20' 44.60" S	Classification: NFW
Longitude: 113° 26' 9.36" E	Tenement: EP 274
Elevation: GL 51.1 m AHD	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: KB @ 54.5 m AHD	Completion Status: Abandoned
Seismic Location: VP535 CG83-12L	
TD Driller (mRT): 1,931.0	
Metres Drilled: 1,927.6	

Operator: Canada Northwest Australia Oil Pty Ltd	Spud Date: 2 Mar 1984
Rig: Ingersoll Rand TH60	TD Date: 3 Apr 1984
Contractor: Swick Drilling Pty Ltd	Rig Released: 10 Apr 1984

1 DST(s) done
1 Cores cut 72 SWC Shot, 30 Recovered
1 Velocity Surveys done with 18 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Purcell RR & Ingram BS	1 May 1984	No
Rock Eval	Analabs	1 May 1984	No
Rock Eval	Analab	1 May 1984	No
Rock Eval	Analab	1 May 1984	No
Stratigraphy	Operator	18 Jul 1984	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 May 1984	The primary objective of Quobba 1 was an anticlinal structure, the Birdrong Sandstone with the Muderong Shale as seal. A secondary objective was a possible Devonian Reef within the upper section of the Gneudna Fm. No hydrocarbons were encountered in the well. The secondary objective was interpreted to be a back reef facies. Below 503m the well was drilled as a stratigraphic test to determine the hydrocarbon potential of the Palaeozoic strata. The hole was abandoned due to poor drill pipe at 1193m instead of the predicted 2000m in the Dirk Hartog Fm, and did not reach the Tumblagooda Sandstone. A DST at 1187-1192.5m flowed brackish water with trace amounts of gas only. The well was converted to a water well.

Carnarvon Basin Gascoyne Platform

Tamala 1

Well ID: W000869

1 Feb 1999

<p>Latitude: 26° 38' 48.20" S Longitude: 113° 38' 3.70" E Elevation: GL 2.7 m Datum: KB @ 7.0 m TD Driller (mRT): 1,225.3 Metres Drilled: 1,221.0</p>	<p>Classification: STR Tenement: EP 47 Well Status: Stratigraphic Well Completion Status: Plugged and Abandoned</p>
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<p>Operator: Oceania Petroleum Pty Ltd Rig: Ideco H-525 Contractor: O D & E Pty Ltd</p>	<p>Spud Date: 4 Apr 1973 TD Date: 6 May 1973 Rig Released: 8 May 1973</p>
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0 DST(s) done
7 Cores cut 26 SWC Shot, 21 Recovered
1 Velocity Surveys done with 5 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Balme BE	23 May 1973	No
Biostratigraphy	Burger D	23 May 1973	No
Biostratigraphy	Cockbain AE	7 May 1973	No
Biostratigraphy	Backhouse J	22 May 1973	No
Biostratigraphy	Bruce EC	22 May 1973	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	BMR	1 Aug 1973	No
Rock Eval	WAIT (Scott & Alexander)		No
Rock Eval	LP Mitchell	1 Mar 1992	No
Stratigraphy	Operator	13 Sep 1973	No
Vitrinite Reflectance	Keiraville Konsultants	1 Aug 1981	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Sep 1973	NB: severe lost circulation in the first 200' above the 13 3/8" casing shoe depth. Tamala 1 was drilled to investigate Pre-Cretaceous sediments and penetrate to the Dirk Hartog Fm in the central part of the South Gascoyne Sub Basin (defined by gravity basement low). Traces of gas were observed 2850'-2988' (869-911m) from pin point porosity of oolites in the Dirk Hartog Fm. Source rock analysis indicates the Alinga Fm and the Dirk Hartog Fm have no source rock potential. Geological succession above the base Cretaceous is similar to that of Dirk Hartog 17B well. Differences were the absence of Eocene sediments and development of the Turonian Alinga Fm. The Dirk Hartog Fm consists of three lithological units and unconformably overlies the Tumblagooda Sandstone (which was shallower than expected by 3000'). The well was P&A'd.

Carnarvon Basin
Gascoyne Platform

Wandagee 1

Well ID: W000007

1 Feb 1999

Latitude: 23° 53' 20.00" S	Classification: STR
Longitude: 114° 23' 57.50" E	Tenement: PE-28-H
Elevation: GL 68.6 m	Well Status: Stratigraphic Well
Datum: DF @ 71.3 m	Completion Status: Water
Seismic Location: SP 258 Minilya Reflection Line A	
TD Driller (mRT): 1,073.2	
Metres Drilled: 1,070.5	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 25 Apr 1962
Rig: National T-20	TD Date: 12 Jun 1962
Contractor: Oilfield Drilling & Exploration Pty Ltd	Rig Released: 17 Jun 1962

4 DST(s) done

9 Cores cut 7 SWC Shot, 7 Recovered

1 Velocity Surveys done with 11 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Powis GD	24 Sep 1981	No
Biostratigraphy	Dickens J & Jones PJ	1 Oct 1962	No
Biostratigraphy	Balme BE	25 Jun 1962	No
Biostratigraphy	Mc Tavish RA	3 Jul 1962	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	BMR	1 Oct 1962	No
Rock Eval	ESSO	24 Oct 1986	No
Stratigraphy	Operator WIS	12 Jul 1962	No
Stratigraphy	Operator	22 Jan 1963	No
Vitrinite Reflectance	ESSO	24 Oct 1986	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Oct 1962	The objective of Wandagee 1 was to investigate the stratigraphy and oil potential of the Devonian and older rocks on a shallow part of the Wandagee Ridge. It was located at the same position as Wandagee Corehole 1. Seismic indicated the area to be regionally high. The drilling of the well showed that Wandagee Ridge consists mainly of Silurian and probably Ordovician rocks. A reduced section of Cretaceous sediments overlies a thin veneer of Upper Devonian, which unconformably overlies older Palaeozoic rocks. The well was completed as a water well.

Carnarvon Basin
Gascoyne Platform

Wandagee Corehole 1

Well ID: W000008

1 Feb 1999

Latitude: 23° 53' 19.89" S	Classification: STR
Longitude: 114° 23' 57.57" E	Tenement: PE-28-H
Elevation: GL 69.0 m	Well Status: Stratigraphic Well
Datum: KB @ 69.0 m	Completion Status: Water
Seismic Location: SP258 Line A	
TD Driller (mRT): 220.0	
Metres Drilled: 220.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 6 Jan 1962
Rig: Mayhew 1000	TD Date:
Contractor: Geophysical Services International	Rig Released: 14 Jan 1962

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS 9/2/62	9 Feb 1962	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Sep 1962	The Wandagee Coreholes 1, 2 & 3 were drilled as part of the Wandagee Ridge (South) Seismic Reconnaissance Survey - Project 78 December 1961 - February 1962. Wandagee Coreholes 1 & 3 were drilled west of the Wandagee Fault as an aid to stratigraphic identification. The purpose of Wandagee Corehole 1 was to examine the pre Permian stratigraphic section. The core holes substantiated a Carboniferous - Devonian section at shallow depth. Wandagee Corehole 2 was drilled east of the Wandagee Fault and substantiated the existence of the full section of the Byro Permian in the area. No hydrocarbons were recorded. The wells were abandoned.

Carnarvon Basin
Gascoyne Platform

Wandagee Corehole 3

Well ID: W000010
1 Feb 1999

Latitude: 23° 49' 47.90" S	Classification: STR
Longitude: 114° 20' 9.93" E	Tenement: PE-28-H
Elevation: GL 56.0 m	Well Status: Stratigraphic Well
Datum: KB @ 56.0 m	Completion Status: Water
Seismic Location: 1/2mile S of Subroos Tank	
TD Driller (mRT): 223.0	
Metres Drilled: 223.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 30 Jan 1962
Rig: Mayhew 1000	TD Date:
Contractor: Geophysical Services International	Rig Released: 2 Feb 1962

0 DST(s) done
0 Cores cut 0 SWC Shot, Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator	17 May 1962	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Sep 1962	The Wandagee Coreholes 1, 2 & 3 were drilled as part of the Wandagee Ridge (South) Seismic Reconnaissance Survey - Project 78 December 1961 - February 1962. Wandagee Coreholes 1 & 3 were drilled west of the Wandagee Fault as an aid to stratigraphic identification. The purpose of Wandagee Corehole 1 was to examine the pre Permian stratigraphic section. The core holes substantiated a Carboniferous - Devonian section at shallow depth. Wandagee Corehole 2 was drilled east of the Wandagee Fault and substantiated the existence of the full section of the Byro Permian in the area. No hydrocarbons were recorded. The wells were abandoned.

Carnarvon Basin
Gascoyne Platform

Warroora 1

Well ID: W000049

1 Feb 1999

Latitude: 23° 30' 34.84" S	Classification: NFW
Longitude: 113° 52' 54.67" E	Tenement: LP-30-H
Elevation: GL 26.2 m	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: DF @ 29.0 m	Completion Status: Abandoned
TD Driller (mRT): 1,826.4	
Metres Drilled: 1,823.6	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 24 Jan 1955
Rig: Unknown	TD Date: 26 May 1955
Contractor:	Rig Released: 26 May 1955

2 DST(s) done
26 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Belford DJ	1 Jul 1955	No
Porosity	WAPET	1 Jun 1955	No
Stratigraphy	Operator WIS Revised	4 Mar 1959	No
Stratigraphy	Operator	11 May 1973	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Jul 1955	Warroora 1 was located on the surface culmination of the Warroora Anticline and was considered a valid test of the Birdrong Sandstone. The well penetrated 343m Cretaceous rocks before entering the Lower Permian Lyons Gp which extended to 1509m. A marked change in lithology was encountered below the Lyons Gp and spores indicated these beds to be no younger than Sakmarian and apparently older than the Lyons Gp. No signs of hydrocarbons were seen in cuttings, cores or tests in the well. The well was P&A'd.

Carnarvon Basin
Gascoyne Platform

Woodleigh 1981/2

Well ID: W001129
1 Feb 1999

Latitude: 26° 3' 22.00" S	Classification: STR
Longitude: 114° 40' 2.00" E	Tenement: EP 169
Elevation: GL 110.0 m	Well Status: Stratigraphic Well
Datum: KB @ 110.0 m	Completion Status: Abandoned
Seismic Location: SP 250 Line 8002N	
TD Driller (mRT): 965.0	
Metres Drilled: 965.0	

Operator: Eagle Corporation Limited	Spud Date: 10 Mar 1981
Rig: Failing 1500	TD Date: 14 Mar 1981
Contractor: Weber Drilling Pty Ltd	Rig Released: 14 Mar 1981

1 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	12 Jan 1981	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Dec 1981	Woodleigh 1981/2 was drilled near the centre of the interpreted Woodleigh Graben on a prominent gravity anomaly. The primary objective was to investigate the gravity feature and the stratigraphy of the postulated graben below the Mesozoic unconformity. The well penetrated granite 171m - TD and probably represents Proterozoic basement. The available evidence indicates that the Woodleigh Graben, if it exists, is less extensive than originally suggested. No hydrocarbons were recorded and the well was P&A'd.

Carnarvon Basin
Gascoyne Platform

Woodleigh 1982/1

Well ID: W002153

1 Feb 1999

Latitude: 26° 15' 1.00" S	Classification: STR
Longitude: 114° 51' 12.00" E	Tenement:
Elevation: GL 145.0 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 145.0 m ASL	Completion Status: Plugged and Abandoned
Seismic Location: Line 8002S SP 33400	
TD Driller (mRT): 206.7	
Metres Drilled: 206.7	

Operator: Layton & Associates Pty Ltd	Spud Date: 4 Jan 1982
Rig: Mayhew 1000	TD Date: 13 Jan 1982
Contractor: Intairdrill (Australia) Pty Ltd	Rig Released: 15 Jan 1982

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Ingram BS	1 Feb 1982	No
Stratigraphy	Operator	14 Jan 1982	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Mar 1982	TR's 7865H-7868H were taken out over a portion of the supposed Woodleigh Graben which had been postulated by Conoco based on seismic data of very dubious quality. It was considered that more than 3000m of Phanerozoic sediments (mainly Palaeozoic) might be present within this supposed trough. The four TR's were programmed to be explored for coal potential either within Mesozoic or the Permian. No coal or lignite bands within the Quaternary-Mesozoic were encountered and no Permian section was penetrated. The area has no coal prospects.

Carnarvon Basin
Gascoyne Platform

Yaringa 1

Well ID: W000157

1 Feb 1999

Latitude: 26° 3' 58.00" S	Classification: NFW
Longitude: 114° 21' 35.00" E	Tenement: LP-172-H
Elevation: GL 21.3 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: KB @ 26.8 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 2,290.1	
Metres Drilled: 2,284.6	

Operator: Continental Oil Co Of Australia Ltd	Spud Date: 2 Jul 1966
Rig: Ideco Super 7-11	TD Date: 14 Aug 1966
Contractor: O D & E Pty Ltd	Rig Released: 18 Aug 1966

0 DST(s) done

21 Cores cut 0 SWC Shot, 0 Recovered

0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Balme BE	1 Dec 1966	No
Biostratigraphy	Druce EC & Jones PJ	1 Dec 1966	No
Biostratigraphy	Brown CR & Rexilius JP	1 Mar 1987	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	BMR	18 Nov 1966	No
Porosity	Exploration Logging	18 Nov 1966	No
Rock Eval	Analabs	1 Sep 1984	No
Stratigraphy	Operator WIS	5 Sep 1997	No
Stratigraphy	Operator	1 Dec 1966	No
Vitrinite Reflectance	Keiraville Konsultants	1 Aug 1881	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Dec 1966	Yaringa 1 was drilled in an area with meagre information. The well provided valuable structural and stratigraphic information. A thick sequence between the base Cretaceous and the Dirk Hartog Fm was penetrated - lack of fossil evidence precludes age determination. Palaeotological data suggests the Dirk Hartog Fm is Upper Ordovician rather than Silurian in age. A total of 2500' of Tumblagooda Sandstone was drilled. No hydrocarbons were encountered. The well was P&A'd.

Carnarvon Basin
Gascoyne Platform

Yaringa East 1

Well ID: W002116
1 Feb 1999

Latitude: 25° 53' 40.90" S	Classification: STR
Longitude: 114° 23' 27.20" E	Tenement: EP 378
Elevation: GL 46.0 m ASL	Well Status: Stratigraphic Well
Datum: KB @ 49.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 829.0	
Metres Drilled: 826.0	

Operator: Pace Petroleum Pty Ltd	Spud Date: 2 May 1997
Rig: UDR (Warman) 1000	TD Date: 18 May 1997
Contractor: Western Deep Hole Drilling	Rig Released: 20 May 1997

0 DST(s) done
0 Cores cut
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Porosity	Corelab	24 Sep 1997	No
Porosity	Corelab	24 Sep 1997	No
Porosity	Corelab	24 Sep 1997	No
Porosity	Corelab	24 Sep 1997	No
Porosity	CoreLab	24 Sep 1997	Yes
Porosity	CoreLab	24 Sep 1997	Yes

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
9 Jan 1995	Source - Prognosis from Company: The Yaringa East 1 well is located approx 150km south of Carnarvon, east of the NW H'way near Hamelin Pool at the southern end of Shark Bay. Interest was originally focused on the outcrop pattern shown on the geological map produced by the BMR. The structure is described as a subsurface hydrocarbon anomaly defined by the Yaringa Geophysical survey in 1995, using the Knight Direct Location System (KDLS). The primary objective of the well is expected to be Silurian sandstones within the Dirk Hartog Fm, there is a possible secondary objective at the base of the Dirk Hartog Fm.

Carnarvon Basin
Merlinleigh Sub-basin

Bidgemia 1

Well ID: W000861

1 Feb 1999

Latitude: 25° 16' 0.00" S	Classification: STR
Longitude: 115° 20' 20.00" E	Tenement: EP 76
Elevation: GL 189.0 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 189.6 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 211.8	
Metres Drilled: 211.4	

Operator: Hartogen Explorations Pty Ltd	Spud Date: 6 Nov 1972
Rig: Foxmobile 840L	TD Date: 18 Nov 1972
Contractor: Glindermann & Kitching Enterprises	Rig Released: 23 Nov 1972

0 DST(s) done
36 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Hannah MJ	1 Apr 1985	No
Stratigraphy	WAPET WIS	4 Sep 1975	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No
Stratigraphy	Operator	1 Dec 1972	No
Stratigraphy	Condon	1 Dec 1972	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Dec 1972	Bidgemia 1 was one of a series of three wells (Moogooree 1, 2 and Bidgemia 1) designed to investigate the porosity of the Moogooloo Sandstone and the Mallens Greywacke at depth. The Moogooloo Sandstone was to be inspected at a depth below the local water table, out of the influence of surface weathering effects. At 595' there was a formational change into a shaley sequence, with no sign of the target Moogooloo Sandstone. After coring 100' into this formation the well was terminated. No hydrocarbon shows were encountered. The well was P&A'd

Carnarvon Basin
Merlinleigh Sub-basin

BMR 05 Yanrey

Well ID: W001498
1 Feb 1999

Latitude: 22° 39' 31.00" S	Classification: STR
Longitude: 114° 14' 45.00" E	Tenement:
Elevation: GL 74.1 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 75.6 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 630.9	
Metres Drilled: 629.4	

Operator: Bureau of Mineral Resources	Spud Date: 26 Jun 1958
Rig: Failing 2500	TD Date: 31 Jul 1958
Contractor: O D & E Pty Ltd	Rig Released: 31 Jul 1958

0 DST(s) done
22 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Balme BE (BMR Rept 84)	1 Dec 1965	No
Biostratigraphy	Evans PR (BMR Rept 84)	1 Dec 1965	No
Biostratigraphy	Crespin I (BMR Rept 84)	1 Dec 1965	No
Stratigraphy	Operator WIS	3 Sep 1975	No
Stratigraphy	Voon John W.K. (Curtin University)	31 Jan 1989	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Dec 1965	Stratigraphic Bore BMR 5 Giralia (now BMR 05 Yanrey) was located on the northern plunge of the axis of the Giralia anticline. The bore penetrated a Cretaceous succession to 1570'. From 1570' to 1580' a section containing Jurassic spores was recorded and below 1580' the hole passed through a Permian succession to TD at 2070'. The unconformity between the Mesozoic and Permian rocks proved to be more than a thousand feet shallower than was expected from the interpretation of the seismic reflection cross section. There was possibly little Jurassic sedimentation beneath the Giralia structure: the Jurassic spores in the interval 1570'-1580' may be from a fossil soil horizon on the Permian rock. No hydrocarbons were recorded. The well was P&A'd.
13 Aug 1998	BMR 5 Giralia was renamed to BMR 05 Yanrey 23/02/1996. Reference BMR Report 84 and Well Index Sheet (WAPET) 03/09/1975) for details of this stratigraphic bore.

Carnarvon Basin
Merlinleigh Sub-basin

BMR 06 Kennedy Range

Well ID: W001499
1 Feb 1999

Latitude: 24° 5' 55.00" S	Classification: STR
Longitude: 114° 46' 20.00" E	Tenement: PE-28-H
Elevation: GL 175.0 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 176.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 305.0	
Metres Drilled: 304.0	

Operator: Bureau of Mineral Resources	Spud Date: 10 Aug 1958
Rig: Failing 2500	TD Date: 19 Aug 1958
Contractor: Oilfield Drilling & Exploration Pty Ltd	Rig Released: 19 Aug 1958

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Belford DJ	20 Oct 1965	No
Stratigraphy	WAPET WIS	3 Sep 1975	No
Stratigraphy	Mory A, Backhouse J	16 Sep 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
	Two bores were drilled in 1958 in the Middalya area of the Carnarvon Basin to determine whether the structural discordance known as the Middalya Fault is a fault or an unconformity. Lithology and logs suggest that a north-trending normal fault downthrown to the east between the two bores is the simplest explanation. Useful information about the character of the Byro Gp was obtained, including the discovery of residual wax. Lost circulation zones were encountered in Wandagee Fm 15-87m. The wells were P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

BMR 07 Kennedy Range

Well ID: W001500
1 Feb 1999

Latitude: 24° 5' 55.00" S	Classification: STR
Longitude: 114° 46' 30.00" E	Tenement: PE-28-H
Elevation: GL 174.0 m	Well Status: Stratigraphic Well
Datum: DF @ 176.0 m	Completion Status: Plugged and Abandoned
TD Driller (mRT): 609.0	
Metres Drilled: 607.0	

Operator: Bureau of Mineral Resources	Spud Date: 21 Aug 1958
Rig: Failing 2500	TD Date: 14 Sep 1958
Contractor: Oilfield Drilling & Exploration Pty Ltd	Rig Released: 4 Sep 1958

0 DST(s) done
0 Cores cut 0 SWC Shot, Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Belford DJ	20 Oct 1965	No
Biostratigraphy	Backhouse J	30 Nov 1995	No
Stratigraphy	WAPET WIS	3 Sep 1975	No
Stratigraphy	Mory A, Backhouse J	16 Sep 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
	Two bores were drilled in 1958 in the Middalya area of the Carnarvon Basin to determine whether the structural discordance known as the Middalya Fault is a fault or an unconformity. Lithology and logs suggest that a north-trending normal fault downthrown to the east between the two bores is the simplest explanation. Useful information about the character of the Byro Gp was obtained, including the discovery of residual wax. Circulation was lost in Norton Greywacke. The wells were P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Burna 1

Well ID: W001353

1 Feb 1999

Latitude: 23° 39' 58.75" S	Classification: NFW
Longitude: 114° 26' 25.72" E	Tenement: EP 188
Elevation: GL 81.0 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: KB @ 86.8 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 767.7	
Metres Drilled: 761.9	

Operator: Esso Exploration & Production Australia Inc	Spud Date: 20 Sep 1984
Rig: Rig 33	TD Date: 8 Oct 1984
Contractor: Intairdrill (Australia) Pty Ltd	Rig Released: 9 Oct 1984

0 DST(s) done

118 Cores cut 0 SWC Shot, 0 Recovered

1 Velocity Surveys done with 9 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Hannah MJ	1 Jan 1984	No
Porosity	Amdel	1 Feb 1985	No
Rock Eval	ESSO	24 Oct 1986	No
Rock Eval	ESSO	1 Feb 1985	No
Rock Eval	Mitchell LP - Dolan	1 Mar 1992	No
Stratigraphy	Operator	1 Jan 1984	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No
Vitrinite Reflectance	A C Cook	2 Feb 1985	No
Vitrinite Reflectance	ESSO	1 Jan 1985	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Feb 1985	Burna 1 was designed to test the hydrocarbon bearing potential of the Early Permian clastic Wooramel Gp . In order to gain the maximum amount of stratigraphic information, the well was fully cored below the surface casing. Burna 1 tested a fault dependant closure, typical of several which were identified along a narrow complexly faulted zone parallel to the Wandagee Ridge. Lack of hydrocarbons in the Burna structure is attributed mainly to inadequacy of top seal. No significant oil or gas indications were encountered and the well was P&A'd as a dry hole.

Carnarvon Basin
Merlinleigh Sub-basin

East Marrilla 1

Well ID: W000828

1 Feb 1999

Latitude: 22° 54' 48.35" S	Classification: STR
Longitude: 114° 36' 57.95" E	Tenement: EP 39
Elevation: GL 59.1 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 62.3 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 638.3	
Metres Drilled: 635.1	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 15 Apr 1972
Rig: Ideco Rambler H-35	TD Date: 25 Apr 1972
Contractor: Intairdrill (Australia) Pty Ltd	Rig Released: 26 Apr 1972

0 DST(s) done

0 Cores cut 30 SWC Shot, 18 Recovered

0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Powis GD	24 Sep 1981	No
Biostratigraphy	Quilty, Mc Tavish, Dolby Et Al	1 Jun 1972	No
Stratigraphy	Operator	22 Aug 1972	No
Stratigraphy	Voon John W.K. (Curtin University)	31 Jan 1989	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 May 1972	The primary objective was to evaluate the hydrocarbon potential of an anticlinal structure in pre Permian rocks on a cross basin high separating the Ashburton and Merlinleigh Troughs. A secondary objective was to provide structural and stratigraphic information in a previously unknown part of the basin. The Lower Cretaceous Birdrong sandstone had good reservoir characteristics but was 100% water saturated (salinity=14,000ppm NaCl equiv at Fm Temp=90°C). The Lyons Gp was thinner than expected. An up-to-the-east Tertiary rebound of 36.6m exists on the Wandagee Fault in this region. No hydrocarbons were encountered. The well was P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Exmouth Structure Hole 1

Well ID: W000025
1 Feb 1999

Latitude: 22° 23' 6.08" S
Longitude: 114° 6' 45.29" E
Elevation: GL 12.0 m ASL
Datum: RT @ 15.0 m ASL
TD Driller (mRT): 536.0
Metres Drilled: 533.0

Classification: STR
Tenement: LP-18-H
Well Status: Stratigraphic Well
Completion Status: Plugged and Abandoned

Operator: West Australian Petroleum Pty Ltd
Rig: Unknown
Contractor: Unknown

Spud Date: 1 Nov 1956
TD Date: 9 Nov 1956
Rig Released: 9 Nov 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	8 Dec 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Jun 1998	No Reports available. All information is from the Well Index Sheet dated 12/08/57 supplied by WAPET. Lost circulation at 43-61m, 64-67m, 73-113m, 116-119m; regained by casing. The well was terminated in the Upper Cretaceous.

Carnarvon Basin
Merlinleigh Sub-basin

Exmouth Structure Hole 2

Well ID: W000026
1 Feb 1999

Latitude: 22° 21' 30.07" S	Classification: STR
Longitude: 114° 8' 23.79" E	Tenement: LP-18-H
Elevation: GL 18.0 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 21.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 618.0	
Metres Drilled: 615.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 17 Nov 1956
Rig: Unknown	TD Date: 24 Nov 1956
Contractor: Unknown	Rig Released: 24 Nov 1956

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator Wis	8 Dec 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Jun 1998	No Reports available. All information is from the Well Index Sheet dated 12/08/57 supplied by WAPET. The well was terminated in the Upper Cretaceous.

Carnarvon Basin
Merlinleigh Sub-basin

Gascoyne 1

Well ID: W001354

1 Feb 1999

Latitude: 25° 2' 20.32" S	Classification: NFW
Longitude: 115° 1' 8.55" E	Tenement: EP 189
Elevation: GL 127.2 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: KB @ 133.0 m ASL	Completion Status: Plugged and Abandoned
Seismic Location: SP 2152 Line K83A-229	
TD Driller (mRT): 527.0	
Metres Drilled: 521.2	

Operator: Esso Exploration & Production Australia Inc	Spud Date: 30 Oct 1984
Rig: Rig 33	TD Date: 8 Nov 1984
Contractor: Intairdrill (Australia) Pty Ltd	Rig Released: 9 Nov 1984

0 DST(s) done
65 Cores cut 0 SWC Shot, 0 Recovered
1 Velocity Surveys done with 7 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Hannah MJ	1 Feb 1985	No
Porosity	Amdel	1 Mar 1985	No
Rock Eval	ESSO	12 Feb 1985	No
Stratigraphy	Operator	1 Feb 1985	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No
Vitrinite Reflectance	AC Cook	8 Mar 1985	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Mar 1985	Gascoyne 1 was designed to test the hydrocarbon bearing potential of the Early Permian clastic succession comprising the Wooramel Gp. In order to obtain the maximum amount of stratigraphic information, the well was fully cored below the surface casing from 328m to TD 527mKB. The predicted TD 706m was not achieved primarily because the Callytharra Fm proved to be 75m thinner than estimated. After 35m penetration of the Lyons Fm, the core barrel and bit twisted off and their recovery was deemed uneconomic. No significant gas or oil indications were encountered and the well was P&A'd as a dry hole and left as a potential water well.

Carnarvon Basin
Merlinleigh Sub-basin

Giralia 1

Well ID: W000027

1 Feb 1999

Latitude: 22° 59' 38.21" S
Longitude: 114° 10' 5.46" E
Elevation: GL 109.7 m ASL
Datum: DF @ 112.5 m ASL
TD Driller (mRT): 1,243.6
Metres Drilled: 1,240.8

Classification: NFW
Tenement: LP-29-H
Well Status: Water Well
Completion Status: Water

Operator: West Australian Petroleum Pty Ltd
Rig: Unknown
Contractor: Unknown

Spud Date: 3 Jun 1955
TD Date: 20 Jul 1955
Rig Released: 20 Jul 1955

3 DST(s) done

77 Cores cut 13 SWC Shot, 13 Recovered

1 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Crespin I	1 Sep 1955	No
Biostratigraphy	Dickens JM	1 Sep 1955	No
Porosity	WAPET	1 Sep 1955	No
Rock Eval	ESSO (Bostwick)	1 Aug 1985	No
Stratigraphy	Operator WIS Revised	16 Jan 1973	No
Stratigraphy	Voon John W.K. (Curtin University)	31 Jan 1989	No
Stratigraphy	Operator	11 May 1973	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
11 Sep 1955	Giralia 1 was drilled to test the primary objective Birdrong Sandstone at a shallow depth at the crest of the Giralia Anticline. The second objective was to examine the stratigraphy and evaluate the petroleum possibilities of the Permian shale and sandstone section between the Birdrong and the Lyons Gp. No indications of hydrocarbons were encountered. It was considered that Giralia 1 did not prove that hydrocarbons are not present in the Permian section in the Giralia area and due to the complexly faulted nature of the Permian rocks, a comprehensive seismic survey be done in the area. The well was completed as a water well.

Carnarvon Basin
Merlinleigh Sub-basin

GSWA Gneudna 1

Well ID: W001988

1 Feb 1999

Latitude: 23° 58' 22.00" S	Classification: STR
Longitude: 115° 13' 0.00" E	Tenement:
Elevation: GL 217.0 m AHD	Well Status: Stratigraphic Well
Datum: DF @ 217.0 m AHD	Completion Status: Plugged and Abandoned
TD Driller (mRT): 492.1	
Metres Drilled: 492.1	

Operator: Geological Survey Of Western Australia	Spud Date: 20 May 1995
Rig: Foxmobile B40T	TD Date: 28 May 1995
Contractor: Mt Magnet Drilling	Rig Released: 31 May 1995

0 DST(s) done
4 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Backhouse J.	28 Aug 1996	No
Porosity	GSWA	18 Aug 1995	No
Porosity	GSWA	18 Aug 1995	No
Rock Eval	Geotech	28 Aug 1996	No
Stratigraphy	Operator	30 May 1995	No
Vitrinite Reflectance	Keiraville Konsultants	28 Aug 1996	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
28 May 1995	The Gneudna 1 well was an inclined (55° from horizontal) stratigraphic hole drilled on the eastern margin of the Merlinleigh Sub-basin to test the source rock potential of the Gneudna Fm. The well was terminated 4m into granitic basement after penetrating 101m of the Nannyarra Sst below the Gneudna Fm. Geochemical analysis of the Gneudna Fm indicated a thermally immature oil and gas prone source of 6m thickness.

Carnarvon Basin
Merlinleigh Sub-basin

Kennedy Range 1

Well ID: W000166
1 Feb 1999

Latitude: 24° 29' 54.74" S	Classification: NFW
Longitude: 114° 59' 25.40" E	Tenement: LP-153-H
Elevation: GL 295.0 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: RT @ 298.7 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 2,226.6	
Metres Drilled: 2,223.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 1 Dec 1966
Rig: Ideco H-525	TD Date: 19 Jan 1967
Contractor: O D & E Pty Ltd	Rig Released: 23 Jan 1967

1 DST(s) done
18 Cores cut 22 SWC Shot, 15 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Powis GD	24 Sep 1981	No
Biostratigraphy	Balme BE	22 Apr 1967	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	WAPET	1 May 1967	No
Rock Eval	Geotech	1 Jan 1994	No
Stratigraphy	Operator	22 Apr 1967	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No
Vitrinite Reflectance	SHELL (Keiraville Consultants)		No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 May 1967	Kennedy Range 1 is located on the Merlinleigh Anticline, a surface structure developed on the eastern downthrown side of the Kennedy Range Fault. The primary objective was the Moogooloo Sandstone, but in this well no significant porosity or permeability was encountered. Numerous gas shows were encountered but subsequent coring and log analysis showed these zones to be hard tight sandstones and orthoquartzites with no favourable reservoir development. Within the Wandagee Fm, a lost circulation zone 30.5m thick contains porous and permeable coarse grained sandstone and micro conglomerate, an excellent reservoir, but in this well contains fresh water. The well was P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Lefroy Hill 1

Well ID: W001481
1 Feb 1999

Latitude: 22° 22' 29.49" S	Classification: NFW
Longitude: 114° 8' 1.27" E	Tenement: EP 41 R2
Elevation: GL 14.4 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: KB @ 22.0 m ASL	Completion Status: Plugged and Abandoned
Seismic Location: B85-118 SP 324	
TD Driller (mRT): 1,512.0	
Metres Drilled: 1,504.4	

Operator: Ampol Exploration Ltd	Spud Date: 31 Jan 1986
Rig: Rig 219	TD Date: 27 Feb 1986
Contractor: Westbridge Drilling Pty Ltd	Rig Released: 1 Mar 1986

Section Type	Section Name	Start (mRT)	End (mRT)
Original	Lefroy Hill 1	0.0	1,374.0
Sidetrack	Sidetrack	743.0	1,512.0

0 DST(s) done
0 Cores cut 24 SWC Shot, 20 Recovered
1 Velocity Surveys done with 29 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Ingram B	1 May 1994	Yes
Biostratigraphy	Hos, Rexilius, Islam, Brown	1 Jan 1986	No
Stratigraphy	Operator	1 Jan 1986	No
Vitrinite Reflectance	Analabs	1 Jul 1986	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Jul 1986	Lefroy Hill 1 was primarily designed to test the Birdrong Sandstone which is the oil reservoir at the Rough Range oil field. Secondary objectives existed in the Cretaceous Muderong Shale and the Wogatti Sandstone and in the Jurassic Learmonth Fm. The well reached a depth of 1395m when caving of shales in the upper section of the hole at ~850m caused the drilling assembly to become stuck. After two backoffs and several unsuccessful fishing operations, the hole was plugged back and a sidetrack hole was drilled from 739m. A sedimentary section from Quaternary to Permian was penetrated. A reverse fault associated with the Miocene structural event was intersected and a repeat section of the Windalia Radiolarite and Muderong Shale was intersected, while the Birdrong Sandstone was faulted out on the upthrown side of the fault. The objective was encountered on the downthrown side of the fault but was poorly developed and only 5m thick. The Wogatti Sandstone was absent. Some dead oil was recorded in the original hole, but was not repeated in the sidetracked hole. Only trace amounts of gas were recorded. The well was P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Marrilla 1

Well ID: W000053
1 Feb 1999

Latitude: 22° 55' 50.07" S	Classification: STR
Longitude: 114° 30' 7.95" E	Tenement: PE-28-H
Elevation: GL 47.2 m ASL	Well Status: Stratigraphic Well
Datum: KB @ 48.8 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 456.3	
Metres Drilled: 454.8	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 17 Mar 1963
Rig: Mayhew 2000	TD Date: 3 Apr 1963
Contractor: Geophysical Services International	Rig Released: 3 Apr 1963

0 DST(s) done
9 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Edgell HS	1 Jul 1963	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	BMR	1 Jul 1963	No
Stratigraphy	Operator	1 Jul 1963	No
Stratigraphy	Voon John W.K. (Curtin University)	31 Jan 1989	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Jul 1963	Minderoo 1 and Marrilla 1 were drilled in March and April 1963. The objective of both of these bores was to investigate the nature and porosity of the Lower Cretaceous sequence and to determine the age and nature of the pre Cretaceous at each locality
1 Jul 1963	Marrilla 1 was drilled in the centre of a prominent magnetic anomaly. It was hoped to penetrate to basement but the rig could not penetrate the very hard Silurian rocks below 1347'. The bore penetrated a complete sequence of Lower Cretaceous rocks, including 29m Birdrong Fm, proving the Birdrong was not absent over all the pre Cretaceous highs, as was suspected after drilling Yanrey 1. The Marrilla 1 bore greatly extended the known Silurian sediments in the Carnarvon basin. The bore was P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Merlinleigh 1

Well ID: W000150
1 Feb 1999

Latitude: 24° 29' 52.74" S	Classification: STR
Longitude: 114° 59' 21.40" E	Tenement: PE-28-H
Elevation: GL 290.5 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 292.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 304.8	
Metres Drilled: 303.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 18 May 1966
Rig: Mayhew 2000	TD Date: 26 May 1966
Contractor: Geophysical Services International	Rig Released: 26 May 1966

0 DST(s) done
0 Cores cut 0 SWC Shot, Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	2 Aug 1966	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
2 Aug 1965	Five shallow structure holes were drilled in the Kennedy Ranges during June and July 1966 to establish N & E closure on the Merlinleigh Anticline, interpreted from geological mapping and photogrammetric contouring. Drilling Merlinleigh wells 1 to 5 demonstrated the existence of a closed anticlinal structure with minimum dimensions 4 miles long by 1.75 miles wide and with 350' of vertical closure. (See Report A008061) All 5 wells were P&A'd with the recommendation that a 6000' well be drilled to the Permian Lyons Gp with prime objectives being the Moogooloo Sandstone and other porous sections of the Permian Byro Gp.

Carnarvon Basin
Merlinleigh Sub-basin

Merlinleigh 2

Well ID: W000151

1 Feb 1999

Latitude: 24° 28' 49.69" S	Classification: STR
Longitude: 114° 59' 33.40" E	Tenement: PE-28-H
Elevation: GL 292.9 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 294.4 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 306.3	
Metres Drilled: 304.8	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 30 May 1966
Rig: Mayhew 2000	TD Date: 15 Jun 1966
Contractor: Geophysical Services International	Rig Released: 15 Jun 1966

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	2 Aug 1966	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
2 Aug 1965	Five shallow structure holes were drilled in the Kennedy Ranges during June and July 1966 to establish N & E closure on the Merlinleigh Anticline, interpreted from geological mapping and photogrammetric contouring. Drilling Merlinleigh wells 1 to 5 demonstrated the existence of a closed anticlinal structure with minimum dimensions 4 miles long by 1.75 miles wide and with 350' of vertical closure. (See Report A008061) All 5 wells were P&A'd with the recommendation that a 6000' well be drilled to the Permian Lyons Gp with prime objectives being the Moogooloo Sandstone and other porous sections of the Permian Byro Gp.

Carnarvon Basin
Merlinleigh Sub-basin

Merlinleigh 3

Well ID: W000152
1 Feb 1999

Latitude: 24° 29' 12.72" S	Classification: STR
Longitude: 115° 0' 0.15" E	Tenement: PE-28-H
Elevation: GL 293.8 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 295.4 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 166.1	
Metres Drilled: 164.6	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 30 Jun 1966
Rig: Mayhew 2000	TD Date: 6 Jul 1966
Contractor: Geophysical Exploration Services	Rig Released: 6 Jul 1966

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	2 Aug 1966	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
2 Aug 1965	Five shallow structure holes were drilled in the Kennedy Ranges during June and July 1966 to establish N & E closure on the Merlinleigh Anticline, interpreted from geological mapping and photogrammetric contouring. Drilling Merlinleigh wells 1 to 5 demonstrated the existence of a closed anticlinal structure with minimum dimensions 4 miles long by 1.75 miles wide and with 350' of vertical closure. (See Report A008061) All 5 wells were P&A'd with the recommendation that a 6000' well be drilled to the Permian Lyons Gp with prime objectives being the Moogooloo Sandstone and other porous sections of the Permian Byro Gp. Merlinleigh 3 lost circulation at 133m in coarse grained sandstone, and regained circulation by setting cement plug across the zone.

Carnarvon Basin
Merlinleigh Sub-basin

Merlinleigh 4

Well ID: W000153
1 Feb 1999

Latitude: 24° 29' 12.72" S	Classification: STR
Longitude: 114° 59' 3.38" E	Tenement: PE-28-H
Elevation: GL 289.6 m	Well Status: Stratigraphic Well
Datum: RT @ 291.1 m	Completion Status: Plugged and Abandoned
TD Driller (mRT): 135.6	
Metres Drilled: 134.1	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 6 Jul 1966
Rig: Mayhew 2000	TD Date: 10 Jul 1966
Contractor: Geophysical Exploration Services	Rig Released: 10 Jul 1966

0 DST(s) done
0 Cores cut 0 SWC Shot, Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	2 Aug 1966	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
2 Aug 1965	Five shallow structure holes were drilled in the Kennedy Ranges during June and July 1966 to establish N & E closure on the Merlinleigh Anticline, interpreted from geological mapping and photogrammetric contouring. Drilling Merlinleigh wells 1 to 5 demonstrated the existence of a closed anticlinal structure with minimum dimensions 4 miles long by 1.75 miles wide and with 350' of vertical closure. (See Report A008061) All 5 wells were P&A'd with the recommendation that a 6000' well be drilled to the Permian Lyons Gp with prime objectives being the Moogooloo Sandstone and other porous sections of the Permian Byro Gp. Merlinleigh 4 lost circulation at 61m in coarse grained sandstone and regained circulation by addition of Fibretex to mud.

Carnarvon Basin
Merlinleigh Sub-basin

Merlinleigh 5

Well ID: W000154
1 Feb 1999

Latitude: 24° 28' 31.70" S	Classification: STR
Longitude: 114° 59' 13.37" E	Tenement: PE-28-H
Elevation: GL 290.2 m	Well Status: Stratigraphic Well
Datum: RT @ 291.7 m	Completion Status: Plugged and Abandoned
TD Driller (mRT): 175.3	
Metres Drilled: 173.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 14 Jul 1966
Rig: Mayhew 2000	TD Date: 18 Jul 1966
Contractor: Geophysical Services International	Rig Released: 18 Jul 1966

0 DST(s) done
0 Cores cut 0 SWC Shot, Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS	2 Aug 1966	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
2 Aug 1965	Five shallow structure holes were drilled in the Kennedy Ranges during June and July 1966 to establish N & E closure on the Merlinleigh Anticline, interpreted from geological mapping and photogrammetric contouring. Drilling Merlinleigh wells 1 to 5 demonstrated the existence of a closed anticlinal structure with minimum dimensions 4 miles long by 1.75 miles wide and with 350' of vertical closure. (See Report A008061) All 5 wells were P&A'd with the recommendation that a 6000' well be drilled to the Permian Lyons Gp with prime objectives being the Moogooloo Sandstone and other porous sections of the Permian Byro Gp.

Carnarvon Basin
Merlinleigh Sub-basin

Moogooree 1

Well ID: W000855

1 Feb 1999

Latitude: 24° 15' 20.00" S	Classification: STR
Longitude: 115° 15' 30.00" E	Tenement: EP 76
Elevation: GL 253.0 m ASL	Well Status: Stratigraphic Well
Datum: RT @ 253.6 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 128.0	
Metres Drilled: 127.4	

Operator: Hartogen Explorations Pty Ltd	Spud Date: 8 Oct 1972
Rig: Foxmobile 840L	TD Date: 15 Oct 1972
Contractor: Glindermann & Kitching Enterprises	Rig Released: 16 Oct 1972

0 DST(s) done
37 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	WAPET WIS	4 Sep 1975	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No
Stratigraphy	Operator	16 Oct 1972	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Dec 1972	Moogooree 1 was one of a series of three wells (Moogooree 1, 2 and Bidgemia 1) designed to investigate the porosity of the Moogooloo Sandstone and the Mallens Greywacke at depth. The Moogooloo Sandstone was to be inspected at a depth below the local water table, out of the influence of surface weathering effects. The well demonstrated the poor effective porosity of the Moogooloo Sandstone. No hydrocarbon shows were encountered. The well was P&A'd

Carnarvon Basin
Merlinleigh Sub-basin

Moogooree 2

Well ID: W000858
1 Feb 1999

Latitude: 24° 16' 50.00" S	Classification: STR
Longitude: 115° 12' 40.00" E	Tenement: EP 76
Elevation: GL 257.6 m ASL	Well Status: Stratigraphic Well
Datum: DF @ 258.2 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 191.7	
Metres Drilled: 191.1	

Operator: Hartogen Explorations Pty Ltd	Spud Date: 18 Oct 1972
Rig: Foxmobile 840L	TD Date: 27 Oct 1972
Contractor: Glindermann & Kitching Enterprises	Rig Released: 4 Nov 1972

0 DST(s) done
40 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	WAPET WIS	4 Sep 1975	No
Stratigraphy	Operator	1 Dec 1972	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Dec 1972	Moogooree 2 was one of a series of three wells (Moogooree 1, 2 and Bidgemia 1) designed to investigate the porosity of the Moogooloo Sandstone and the Mallens Greywacke at depth. The Moogooloo Sandstone was to be inspected at a depth below the local water table, out of the influence of surface weathering effects. The well demonstrated the poor effective porosity of the Mallens Greywacke. No hydrocarbon shows were encountered. The well was P&A'd

Carnarvon Basin
Merlinleigh Sub-basin

North Giralia 1

Well ID: W001395
1 Feb 1999

Latitude: 22° 31' 55.00" S
Longitude: 114° 18' 8.00" E
Elevation: GL 20.0 m ASL
Datum: KB @ 23.0 m ASL
Seismic Location: SP 760 Line 84-06
TD Driller (mRT): 936.0
Metres Drilled: 933.0

Classification: NFW
Tenement: EP 166
Well Status: Water Well
Completion Status: Water

Operator: Golden West Hydrocarbons Pty Ltd
Rig: Rig 2
Contractor: Weber Drilling Pty Ltd

Spud Date: 22 Jan 1985
TD Date: 5 Feb 1985
Rig Released: 7 Feb 1985

0 DST(s) done

1 Cores cut 30 SWC Shot, 30 Recovered

1 Velocity Surveys done with 21 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Ingram B, Purcell RR	1 Apr 1985	No
Porosity	Corelabs	16 May 1985	No
Stratigraphy	Operator	21 Jun 1985	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 May 1985	The primary objective was the Cretaceous Birdrong Sandstone which was encountered at 644.5m, high to prediction. The Birdrong Sandstone had excellent reservoir properties but was found to have been extensively flushed by meteoric waters. The Muderong Shale was thinner than expected and was interpreted as being due to a fault being intersected by the well. The well was P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Quail 1

Well ID: W000051

1 Feb 1999

Latitude: 23° 57' 9.00" S	Classification: NFW
Longitude: 114° 30' 4.00" E	Tenement: LP-103-H
Elevation: GL 115.0 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: RT @ 118.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 3,580.0	
Metres Drilled: 3,577.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 19 May 1963
Rig: National 100	TD Date: 16 Jan 1964
Contractor: O D & E Pty Ltd	Rig Released: 20 Jan 1964

1 DST(s) done
20 Cores cut 10 SWC Shot, 10 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Powis GD	24 Sep 1981	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	WAPET	1 May 1964	No
Rock Eval	Geotechnical Service	1 Jan 1994	No
Rock Eval	ESSO 1986		No
Stratigraphy	Operator WIS	13 May 1975	No
Stratigraphy	Mory A & Backhouse J	16 Sep 1997	No
Stratigraphy	Operator	1 May 1964	No
Vitrinite Reflectance	ESSO 1986		No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 May 1964	Quail 1 was drilled to investigate the hydrocarbon potential of a number of possible reservoir rocks in the anticipated Carboniferous - Devonian section on the Quail Anticline, and to investigate the stratigraphy of the Palaeozoic rocks beneath the Middle Permian outcrop section. No signs of crude oil were noted in the well. Argillaceous calcilutites and shales of the ?Lower Carboniferous Carbonte Unit and Gneudna Fm constitute the only possible source rocks penetrated in Quail 1, but retain no traces of oil and very little gas, possibly due to tight compaction resulting from deep burial. The well was P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Remarkable Hill 1

Well ID: W000714

1 Feb 1999

Latitude: 22° 57' 35.99" S	Classification: NFW
Longitude: 114° 9' 26.78" E	Tenement: LP-215-H
Elevation: GL 106.7 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: KB @ 111.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 3,206.5	
Metres Drilled: 3,202.2	

Operator: Marathon Petroleum Australia Ltd	Spud Date: 15 Oct 1968
Rig: Ideco Super 7-11 Junior	TD Date: 2 Feb 1969
Contractor: O D & E Pty Ltd	Rig Released: 4 Feb 1969

0 DST(s) done
12 Cores cut 0 SWC Shot, 0 Recovered
1 Velocity Surveys done with 36 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Kemp EM	26 Feb 1969	No
Biostratigraphy	Belford DJ	26 Feb 1969	No
Biostratigraphy	Hannah MJ	1 Aug 1985	No
Porosity	AGSO PORPERM	8 Jun 1995	Yes
Porosity	Exploration Logging	3 Jul 1969	No
Rock Eval	ESSO (Bostwick)	1 Aug 1985	No
Rock Eval	Unspecified	1 Feb 1991	No
Rock Eval	Geotech	1 Oct 1996	Yes
Stratigraphy	Operator WIS Revised	18 Jan 1973	No
Stratigraphy	Voon John W.K. (Curtin University)	1 Apr 1990	No
Stratigraphy	Operator	3 Jul 1969	No
Stratigraphy	Mory A & Backhouse J		No
Vitrinite Reflectance	Geotech	1 Oct 1996	Yes

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 May 1969	Primary objectives of the well were sediments of the Lower Palaeozoic and secondary objectives were the sandstones and carbonates of Permian age. Remarkable Hill 1 did not encounter any shows of hydrocarbons. The basal Cretaceous Birdrong Sandstone possessed excellent reservoir characteristics but contained only brackish water. A number of sands in the upper 610m of Permian sediments showed good reservoir characteristics but were also water bearing. Most of the Lyons Gp and Permo-Carboniferous section are extremely tight. The Permian and Permo-Carboniferous sequence was much thicker than anticipated and the main objectives of the well within the lower Palaeozoic were not reached. The well was P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Wandagee Corehole 2

Well ID: W000009
1 Feb 1999

Latitude: 23° 53' 17.89" S	Classification: STR
Longitude: 114° 31' 44.22" E	Tenement: PE-28-H
Elevation: GL 103.0 m	Well Status: Stratigraphic Well
Datum: KB @ 103.0 m	Completion Status: Water
Seismic Location: SP291 Line A	
TD Driller (mRT): 309.0	
Metres Drilled: 309.0	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 16 Jan 1962
Rig: Mayhew 1000	TD Date:
Contractor: Geophysical Services International	Rig Released: 25 Jan 1962

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Stratigraphy	Operator WIS 2/5/62	2 May 1962	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Sep 1962	The Wandagee Coreholes 1, 2 & 3 were drilled as part of the Wandagee Ridge (South) Seismic Reconnaissance Survey - Project 78 December 1961 - February 1962. Wandagee Coreholes 1 & 3 were drilled west of the Wandagee Fault as an aid to stratigraphic identification. The purpose of Wandagee Corehole 1 was to examine the pre Permian stratigraphic section. The core holes substantiated a Carboniferous - Devonian section at shallow depth. Wandagee Corehole 2 was drilled east of the Wandagee Fault and substantiated the existence of the full section of the Byro Permian in the area. No hydrocarbons were recorded. The wells were abandoned.

Carnarvon Basin
Merlinleigh Sub-basin

West Giralia 1

Well ID: W001388
1 Feb 1999

Latitude: 22° 39' 10.00" S	Classification: NFW
Longitude: 114° 10' 9.00" E	Tenement: EP 166
Elevation: GL 40.0 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: KB @ 43.2 m ASL	Completion Status: Plugged and Abandoned
Seismic Location: SP 1291 Line84-12	
TD Driller (mRT): 789.0	
Metres Drilled: 785.8	

Operator: Golden West Hydrocarbons Pty Ltd	Spud Date: 11 Jan 1985
Rig: Rig 1	TD Date: 16 Jan 1985
Contractor: Weber Drilling Pty Ltd	Rig Released: 18 Jan 1985

0 DST(s) done

1 Cores cut 30 SWC Shot, 24 Recovered

1 Velocity Surveys done with 14 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Ingram B, Purcell R	1 Apr 1985	No
Porosity	Corelab	12 Feb 1985	No
Stratigraphy	Operator	1 Apr 1985	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Mar 1985	The primary objective of West Giralia 1 was the Cretaceous Birdrong Sandstone, which was encountered high to prediction and analysis shows it to be water wet. No significant hydrocarbons were encountered. The well was P&A'd.

Carnarvon Basin
Merlinleigh Sub-basin

Whitlock Dam 1

Well ID: W001399

1 Feb 1999

Latitude: 22° 49' 55.00" S
Longitude: 114° 11' 20.00" E
Elevation: GL 145.0 m ASL
Datum: KB @ 148.2 m ASL
Seismic Location: SP 1220 Line 84-09
TD Driller (mRT): 413.0
Metres Drilled: 409.8

Classification: NFW
Tenement: EP 166
Well Status: Water Well
Completion Status: Water

Operator: Golden West Hydrocarbons Pty Ltd
Rig: Rig 1
Contractor: Weber Drilling Pty Ltd

Spud Date: 20 Feb 1985
TD Date: 22 Feb 1985
Rig Released: 23 Feb 1985

0 DST(s) done

0 Cores cut 22 SWC Shot, 20 Recovered

1 Velocity Surveys done with 13 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Ingram B, Purcell RR	1 Apr 1985	No
Biostratigraphy	Hooker N	1 Sep 1995	Yes
Rock Eval	WAIT	13 Dec 1984	No
Stratigraphy	Operator	1 Apr 1985	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Apr 1985	The primary objective of Whitlock Dam 1 was the Cretaceous Birdrong Sandstone. Two additional stratigraphic units at the top and base of the Muderong Shale were better defined in this well than others in the area. These two units equate to the Windalia Sand and the Mardie Greensand resp. No significant hydrocarbons were encountered. The well was completed as a water well from the Birdrong Sandstone.

Carnarvon Basin
Exmouth/Merlinleigh

Rough Range 01

Well ID: W000032

1 Feb 1999

Latitude: 22° 25' 11.68" S	Classification: NFW
Longitude: 114° 5' 0.19" E	Tenement: LP-18-H
Elevation: GL 56.9 m ASL	Well Status: Producing Oil well
Datum: RT @ 60.7 m ASL	Completion Status: Producing
TD Driller (mRT): 4,452.2	
Metres Drilled: 4,448.4	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 5 Sep 1953
Rig: Unknown	TD Date: 8 May 1955
Contractor: Unknown	Rig Released: 8 May 1955

15 DST(s) done

72 Cores cut 0 SWC Shot, 0 Recovered

0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Ingram B	1 May 1994	Yes
Biostratigraphy	Beattie J	10 Aug 1954	No
Biostratigraphy	Condon MA	10 Aug 1954	No
Porosity	Operator	10 Jun 1955	No
Porosity	Operator	10 Jun 1955	No
Rock Eval	WAIT (Scott & Alexander)		No
Rock Eval	Unspecified	1 Feb 1991	No
Rock Eval	Mitchell LP		No
Stratigraphy	Operator WIS	18 Jan 1973	No
Stratigraphy	Operator	18 Aug 1955	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Jun 1955	Rough Range 1 was drilled in a structurally favourable location to evaluate the rocks in the Carnarvon Basin. The well was spudded on 5th September 1953 and was abandoned on 8th May 1955. The Upper Gearle Siltstone had non inflammable gas shows. The Birdrong had high wax content crude oil shows. Other shows occurred in the Jurassic and Devonian. Gas shows were recorded in the Devonian. Thirty two DSTs were conducted between 1099m and 3226m. Six water shut-off tests were conducted with the DSTs after the 13 3/8" casing was set. 72 cores were cut.

Rough Range South 5

Well ID: W000047
1 Feb 1999

Latitude: 22° 34' 29.67" S	Classification: NFW
Longitude: 113° 59' 22.27" E	Tenement: LP-18-H
Elevation: GL 106.1 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: DF @ 108.8 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 1,450.9	
Metres Drilled: 1,448.1	

Operator: West Australian Petroleum Pty Ltd	Spud Date: 14 Oct 1956
Rig: Rig 2	TD Date: 13 Nov 1956
Contractor: O D & E Pty Ltd	Rig Released: 13 Nov 1956

4 DST(s) done
37 Cores cut 12 SWC Shot, 12 Recovered
0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Barry Ingram	1 Jun 1995	Yes
Stratigraphy	Operator WIS	12 Aug 1957	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
13 Nov 1956	Rough Range 5 was drilled to test the Birdrong Sandstone against a reverse fault with the Gearle on the upthrown side. The hole was spudded in the Exmouth Sandstone and TD'd in the Lyons Gp. The Birdrong Fm was encountered at 3768ft (1148.5m) but DST's recovered only salty water. The well had no hydrocarbon shows. The well was P&A'd

Carnarvon Basin
Exmouth/Merlinleigh

Sandalwood 1

Well ID: W001643

1 Feb 1999

Latitude: 22° 45' 47.18" S	Classification: NFW
Longitude: 113° 51' 3.78" E	Tenement: EP 166 R1
Elevation: GL 47.7 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: KB @ 52.1 m ASL	Completion Status: Plugged and Abandoned
Seismic Location: SP 428 Line A85-10	
TD Driller (mRT): 1,350.0	
Metres Drilled: 1,345.6	

Operator: Srl Exploration Pty Ltd	Spud Date: 16 Feb 1990
Rig: Rig 5	TD Date: 25 Feb 1990
Contractor: Century Drilling Pty Ltd	Rig Released: 27 Feb 1990

0 DST(s) done
0 Cores cut 0 SWC Shot, 0 Recovered
1 Velocity Surveys done with 17 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Ingram BS & Purcell RR	1 Apr 1990	No
Biostratigraphy	Ferdinando D	27 Mar 1990	No
Rock Eval	Analabs	1 Mar 1990	No
Stratigraphy	Operator	12 Sep 1990	No
Vitrinite Reflectance	Analabs	1 Mar 1990	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Mar 1990	Sandalwood 1 was programmed to test the hydrocarbon potential of the Lower Cretaceous Birdrong Sandstone. Secondary objectives were the Lower Cretaceous Windalia Radiolarite and the Wogatti Sandstone. The Birdrong Sandstone was encountered at 1169mKB overlying a thick sequence of Wogatti Sandstone. Both units exhibited good to excellent reservoir quality within the sands, but did not encounter hydrocarbons. Wireline logs indicated the sands to be water wet with no evidence of hydrocarbons. The occurrence of Byro Gp Shales directly below the Base Cretaceous Unconformity and overlying the Callytharra Fm, confirms that the structural relationship between this location and nearby well control, is more complex than anticipated. The occurrence of relatively organically rich Permian sediments as potential source rocks was confirmed by Sandalwood 1. The Gearle, Windalia and Muderong units were confirmed as good quality regional seals. The well was P&A'd.

Carnarvon Basin
Exmouth/Merlinleigh

Whaleback 1

Well ID: W000052

1 Feb 1999

Latitude: 22° 43' 49.98" S	Classification: NFW
Longitude: 113° 51' 43.79" E	Tenement: LP-106-H
Elevation: GL 54.0 m ASL	Well Status: Plugged & Abandoned, Dry/Non Producing, No shows
Datum: RT @ 57.0 m ASL	Completion Status: Plugged and Abandoned
TD Driller (mRT): 1,528.0	
Metres Drilled: 1,525.0	

Operator: West Australian Petroleum Pty Ltd
Rig: National T-32
Contractor: O D & E Pty Ltd

Spud Date: 30 Jul 1963
TD Date: 21 Oct 1963
Rig Released: 23 Oct 1963

5 DST(s) done

13 Cores cut 44 SWC Shot, 44 Recovered

0 Velocity Surveys done with 0 Levels

ANALYSES & INTERPRETATIONS

	Done by	Date done	Confidential
Biostratigraphy	Ingram B	1 May 1994	No
Biostratigraphy	Edgell HS	23 Aug 1963	No
Biostratigraphy	Balme BE	29 Nov 1963	No
Biostratigraphy	Ingram BS	1 May 1994	Yes
Porosity	WAPET	1 Feb 1964	No
Stratigraphy	Operator	27 Feb 1964	No
Stratigraphy	Voon John W.K. (Curtin University)	1 Apr 1990	No

COMMENTS (unless otherwise stated, all comments are taken from the Well Completion Report and are not the opinion of the Geological Survey of Western Australia)

Date	Comment
1 Feb 1964	Whaleback 1 was drilled on the culmination of the Whaleback Anticline. The first objective was to evaluate the hydrocarbon potential of the basal Cretaceous sands (Birdrong & Wogatti Sandstone). The second objective of the well was to examine the hydrocarbon potential and the stratigraphy of the pre Cretaceous sediments. The discovery of oil staining in the upper part of the Wogatti Sandstone was the major contribution of the well. Whaleback 1 was drilled close to the uplifted Palaeozoic block in the east and most (if not all) of the Jurassic section in this well is faulted out. The well was P&A'd.