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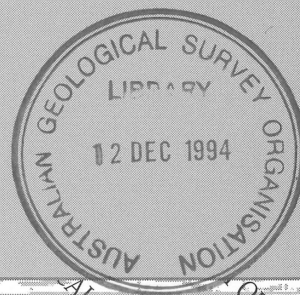
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CANNING BASIN PROJECT (STAGE II) - GEOCHEMICAL AND POROSITY/PERMEABILITY DATA

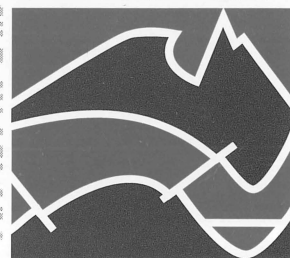
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*By M.J. JACKSON, I. ZEILINGER, J.M. KENNARD
& P.N. SOUTHGATE*

RECORD 1994/59



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AUSTRALIAN
GEOLOGICAL SURVEY
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**CANNING BASIN PROJECT (STAGE II) -
GEOCHEMICAL AND
POROSITY/PERMEABILITY DATA**

Record 1994/59

by M. J. Jackson, I Zeilinger, J.M. Kennard & P. N. Southgate



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DEPARTMENT OF PRIMARY INDUSTRIES AND ENERGY

Minister for Resources: Hon. David Beddall, MP

Secretary: Greg Taylor

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

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Introduction

This record comprises largely 160 spreadsheets containing quantitative organic geochemical and permeability/porosity data from 111 petroleum exploration wells located throughout the Canning Basin (Fig 1). About half of the geochemical data is from AGSO's Orgchem database (as at 5.5.94); and it was largely this information that was used to undertake the petroleum systems analysis described in Kennard et al., (1994). That review, and this database, have been augmented substantially by geochemical information from well completion reports and other unpublished company reports that were examined during the compilation of information in Stage II of the Project, between 1992-4. This information has not been incorporated into Orgchem. The permeability and porosity data are from individual well completion reports and other unpublished company reports.

The quantitative data is listed against depth for individual wells which are then organised alphabetically. An important aspect of this compilation, however, is that the spreadsheets also provide a sequence stratigraphic, lithostratigraphic and structural framework for each individual sample.

This same data is also available in digital format. It was originally compiled using Microsoft Excel version 5.0 software on an IBM-compatible PC. The digital material is presented as - 1) individual Excel well files (as in this hard copy), 2) as two large Excel spreadsheets (one for geochemical, one for permeability-porosity data) to allow sorting and analysis of the data, and 3) as two large files saved with tab spaces to facilitate downloading of this data into other software packages. If this Record contains floppy discs the contents of the discs will be as shown on the last page of this record (ie page 240).

Stage II Canning Basin Project.

Recent studies in the Canning Basin by AGSO have been undertaken in two stages:

Stage I (1990-92) was a detailed sequence stratigraphic interpretation of the evolution of the Devonian sequences of the Lennard Shelf, along the northern margin of the Fitzroy Trough. This part of the basin has undergone the most intense petroleum exploration to date and contains several small producing fields. The basic data from that study were issued in three folios - a seismic folio of interpreted seismic line displays; a map folio of structure contour and isopach maps at 1:100 000 and 1:250 000 scale and a well folio containing revised composite well logs of 18 wells from the area (Jackson et al., 1993; Jackson et al., 1994). Implications for petroleum exploration were published in Jackson et al., (1992); details of the sequence evolution were presented in Kennard et al., (1992) and Southgate et al., (1993).

Stage II of the project (1993-94) consisted of a comprehensive review of the stratigraphic and tectonic evolution of the western two-thirds of the basin to provide a better regional understanding of the evolution of the basin's petroleum systems. The results have been published in two papers in the West Australian Basins Symposium Volume (Purcell & Purcell eds, 1994). The basin's main depositional sequences and their associated petroleum systems are described and analysed in a paper by Kennard et al., (1994); while the structural and sequence evolution of the Ordovician to Silurian basin phase is analysed in detail in a paper by Romine et al., (1994).

This data compilation record, together with four associated compilations - Summary Well logs (Southgate et al., in prep), Geohistory Modelling (Kennard et al., in prep), Structural Elements Map and tectonic evolution (Shaw et al., 1994), and Structure Contour Maps (Zeilinger, in prep), contain the basic data that was used in the two interpretive papers. Most of the information in these four data compilation Records is also available in digital format.

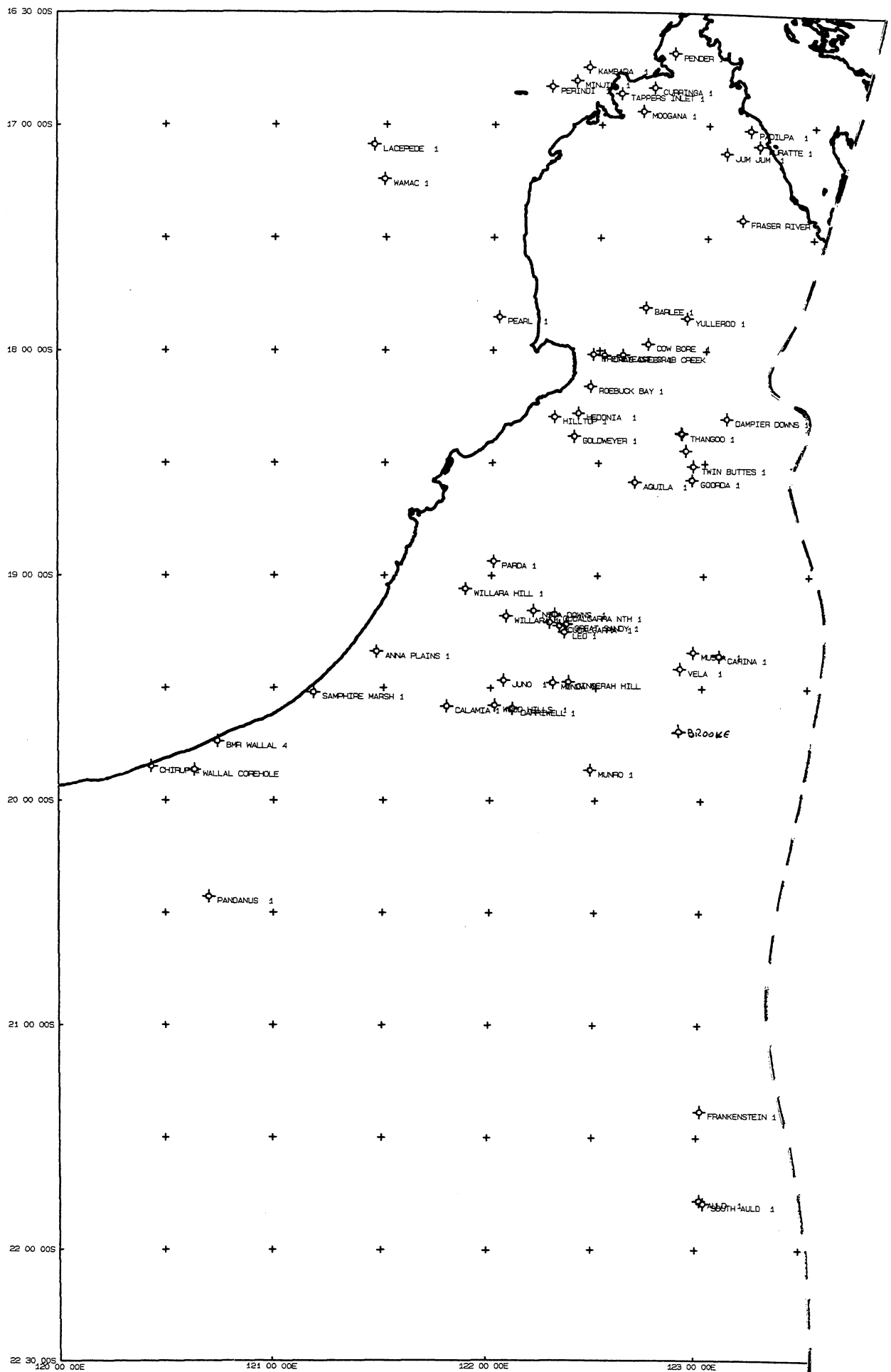


Table of wells in Canning Basin

The following spreadsheet (table) is a complete listing of all wells in the onshore Canning Basin, together with some nearby, offshore-wells, that contain useful information for petroleum exploration - a total of 215 wells. It was compiled from various sources of data including the Bureau of Resource Science's PEDIN database (print out 27-10-93), the Western Australian Department of Mines & Energy WAPEX database (print out 22/10/92) and lists of wells from various Company reports. Some shallow stratigraphic BMR wells (for example .. Jurgurra Creek, Laurel Downs , Prices Creek, Wallal) and other shallow wells with little data, have been omitted from the list. Well names shown in bold type contain information on geochemistry and porosity-permeability in this Record, and/or information in the associated data records, listed above. Well names in italics indicate that we were either unable to obtain data for these wells or we decided not to use them in our study.

This database does not include the analytical results contained in the BRS open file report by Surdam & Warne (1986) on Pyrolysis data on samples from wells in the Canning Basin. However, the names of 54 out of a total of 58 wells analysed in that report are included in the table for information. The analytical equipment used to obtain their data was not a standard Rockeval machine and hence values are not directly comparable with those provided by Orgchem (especially for Tmax). The other four wells in their report - Keraudren, Picard, Poissonier and Ronsard - are way offshore and outside the area covered by our study area and have not been included in the table.

CANNING BASIN WELLS - STAGE II STUDY					
WELL NAME	Geochem data	Por/perm data	summary LOG	geohistory BURY	geochem also in "Surdam & Warne"
<i>Abutilon 1</i>					
Acacia 1	Y	Y			
Acacia 2		Y	Y	Y	
Anna Plains 1	Y				
Antares 1	Y	Y			
Aquanita 1	Y		Y		
Aquila 1	Y		Y	Y	
Aristida 1A	Y	Y			
<i>Atrax1</i>					
<i>Auld 1</i>					
Babrongan 1		Y			Y
Barbwire 1	Y		Y		Y
Barlee 1	Y		Y		Y
<i>Bedout 1</i>					Y
Bindi 1		Y			
Blackstone 1	Y		Y	Y	Y
Blina 1	Y		Y	Y	
<i>Blina 2 to 8</i>					
Boab 1	Y	Y	Y		
<i>Booran 1</i>					
Boronia 1	Y	Y			
<i>Boundary 1</i>					
Brooke 1			Y	Y	
<i>Brooking Springs 1</i>					
Caladenia 1	Y	Y			
Calamia 1	Y		Y	Y	
<i>Calytrix 1</i>					
<i>Cane Grass 1</i>					
Canopus 1	Y	Y	Y		
<i>Capparis 1</i>					
Carina 1	Y	Y			
Cassia 1		Y			
<i>Chestnut 1</i>					
<i>Chirup1</i>					Y
<i>Clianthus 1</i>					
Contention Heights 1		Y			Y
<i>Cossigny 1</i>					Y
Cow Bore 1	Y		Y		
<i>Crab Creek 1</i>					
<i>Crimson Lake 1</i>					
<i>Crossland 1,2,3</i>					YYY
Crystal Creek 1	Y		Y		
Cudalgarra 1	Y	Y			
Cudalgarra 2	Y				
<i>Cudalgarra North 1</i>					
<i>Curringa 1</i>					
<i>Cycas 1</i>					
Dampier Downs 1			Y		Y
Dampiera 1A	Y	Y			
Darriwell 1	Y	Y			
<i>Delambre 1</i>					
<i>Depuch 1</i>					Y
Dodonea 1	Y		Y	Y	
Dodonea 2		Y			
<i>Doran 1</i>					
<i>Drosera 1</i>					
East Crab Creek 1	Y		Y	Y	
<i>East Mermaid 1</i>					
<i>East Yeeda 1</i>					
Edgar Range 1	Y		Y	Y	Y
Ellendale 1	Y				
Eremophila 1	Y	Y			
<i>Eromophila 2,3</i>					
Ficus 1		Y			
<i>Fitzroy River 1</i>					

WELL NAME	Geochem data	Por/perme data	summary LOG	geohistory BURY	geochem also in "Surdam & Warne"
<i>Frankenia 1</i>					
Frankenstein 1	Y	Y	Y	Y	
Fraser River 1					Y
Freney 1					
Frome Rocks 1					
Frome Rocks 2		Y			Y
Gap Creek 1	Y	Y			
Gingerah Hill 1	Y				
Goldwyer 1			Y		Y
Goodenia 1					
Goorda 1					
Grant Range 1	Y	Y			Y
Great Sandy 1	Y	Y			
Great Sandy 2					
Grevillea 1	Y	Y			
Hakea 1	Y	Y			
Halgania 1					
Hangover 1	Y	Y			
Harold 1					
Hawkstone Peak1					Y
Hedonia 1	Y	Y	Y	Y	
Hibiscus 1					
Hilltop 1	Y	Y	Y	Y	
Hoya 1					
Janpam 1	Y				
Janpam North 1		Y			
Jarman 1					Y
Jones Range 1	Y				Y
Jum Jum 1					
Juno 1	Y				
Justago 1	Y				
Kambara 1	Y				
Katy 1	Y	Y	Y		
Kemp Field 1	Y		Y		Y
Kennedia 1	Y	Y			
Kidson 1	Y	Y	Y	Y	Y
Kilang Kilang 1	Y	Y			
Kora 1					
Kunzea 1	Y	Y			
Lacepede 1A					Y
Lake Betty 1	Y	Y			Y
Langoora 1	Y		Y	Y	Y
Laurel Downs 1					
Leo 1	Y	Y	Y	Y	
Lloyd 1	Y	Y			
Lloyd 2		Y			
Logue 1	Y		Y		Y
Lovell's Pocket 1					
Lukins 1		Y	Y		
Mangaloo 1					
Margaret 1					
Mariana 1		Y	Y		
Matches Spring 1	Y		Y	Y	Y
May River 1		Y	Y		Y
McLarty 1	Y		Y	Y	Y
Meda 1	Y		Y	Y	Y
Meda 2	Y				
Melaleuca 1					
Mellany 1		Y			
Mimosa 1	Y		Y	Y	Y
Minilya 1					
Minjin 1					
Mirbelia 1					
Mirbelia 2					
Moogana 1		Y			
Mowla 1					Y
Mt Alexander 1					
Mt Hardman 1	Y	Y			Y
Munda 1			Y		Y

WELL NAME	Geochem data	Por/perme data	summary LOG	geohistory BURY	geochem also in "Surdam & Warne"
Munro 1	Y	Y	Y		Y
Musca 1	Y	Y	Y		
Myroodah 1				Y	Y
Napier 1 to 5					Y1
Needle Eye Rocks 1					
Nerrima 1 (AFO)					Y
Ngalti 1	Y				
Nita Downs 1	Y	Y	Y		
Nollamara 1					
Notabilis 1	Y	Y			
Nuytsia 1					
Olios 1	Y	Y			
Orange Pool 1	Y	Y			
Oscar Hill 1					
Padilpa 1					
Palm Spring 1					Y
Pandorea 1		Y	Y		
Panicum 1					
Parda 1	Y		Y	Y	Y
Patience 1					
Pearl 1					
Pegasus 1	Y		Y	Y	
Pender 1					Y
Percival 1	Y	Y	Y	Y	
Perindi 1	Y				
Petaluma 1					
Philydrum 1	Y	Y			
Picard 1					
Pictor 1	Y	Y	Y	Y	
Point Moody 1	Y				Y
Point Torment 1					
Pratia 1					
Puratie 1					
Roebuck Bay 1					Y
Runthrough 1					
Sahara 1	Y		Y	Y	Y
Samphire Marsh 1					Y
Santalum 1A	Y	Y			
Scarpia 1					
Selenops 1					
Setaria 1	Y				
Solanum 1	Y	Y			
South Auld 1					
St George Range 1	Y				Y
Sundown 1	Y	Y	Y		
Sundown 2					
Sundown 3,4					
Sunup 1		Y			
Tandalgoo 1,2,3					
Tappers Inlet 1	Y	Y			Y
Terrace 1		Y	Y		
Thangoo 1	Y		Y	Y	
Thangoo 1A,2					Y1A
The Sisters 1					Y
Thompsons 1					
Triodia 1					
Twin Buttes 1					
Typha 1					
Vela 1	Y	Y	Y	Y	
Wamac 1	Y				
Wattle 1					
West Blackstone 1		Y			
West Kora 1					
West Philydrum 1	Y	Y			
West Terrace 1	Y	Y			
West Terrace 2					
White Hills 1	Y				
Whitewell 1		Y			
Willara 1	Y	Y	Y	Y	Y

WELL NAME	Geochem data	Por/perm data	summary LOG	geohistory BURY	geochem also in "Surdam & Warme"
<i>Willara Hills 1</i>					
Wilson Cliffs 1	Y	Y	Y	Y	Y
Wood Hills 1		Y	Y		
Yarrada 1	Y	Y	Y		
Yulleroo 1	Y	Y		Y	Y

KEY TO GEOCHEMISTRY SPREADSHEETS (WELLNAME-S.XLS)

These spreadsheets were produced in Microsoft Excel 5 format. Most columns heading are self-explanatory.

Column A well name and number.

Column B unique sample number from AGSO's Organic Geochemical Laboratory, obviously will only apply to samples in AGSO's Orgchem Database.

Column C to F refer to the depth of the sample in the well. Orgchem samples generally show metric depths with imperial equivalents, other samples are shown in the depth measure used in the report from which the information was abstracted. If only one depth was provided this is shown in Depth top (m) by default. Resorting of data by depth therefore should use column 5.

Column G indicates the sequence stratigraphic setting of the sample (see Fig 2). It is based on the detailed sequence stratigraphic interpretation of wireline logs, lithological logs and biostratigraphic data as illustrated on the summary well plots in Southgate et al., (in prep). The scientific rationale for much of this revision is described in detail in Jackson et al., 1992; Kennard et al. (1993 & 1994); Southgate et al., (1993); and Romine et al., (1994). In some cases, the sequence stratigraphic unit is closely related to the lithostratigraphic unit (column 9); however there is not a one-to-one relation between sequence stratigraphic and lithostratigraphic units. For example, the lithostratigraphic unit called the Nambeet Formation is usually the equivalent of our Ao sequence whilst the overlying Willara Formation approximately equates with A1 (refer Fig 2). In Hedonia 1 we have significantly revised the interpretation of the packaging of the early part of the Ordovician so that most of the samples analysed that are identified as from the Nambeet Formation belong to our A1 sequence and not Ao, as intuitively might be expected. There are numerous examples of this sort of revision throughout the spreadsheets. Obviously, there is likely to be significant difference in tracing potential source prone intervals if one uses lithostratigraphic groupings rather than sequence stratigraphic.

For some wells, through lack of data or time, we have not been able to undertake a sequence stratigraphic revision - this is indicated by nd (not determined) on the spreadsheets.

Column H contains the name of the Structural Element within which the drillhole is located. This is based on the 1:2 000 000 scale coloured, structural elements map that accompanies Shaw et al., (1994).

Column I contains the name of the lithostratigraphic unit from which the sample was selected. For most samples this name came from the well completion report from which the information was abstracted. In some cases, mostly in older wells, we have revised what is shown in column 9 from that used in the well completion report if there is more recent lithostratigraphic information that represents an improvement or correction of older names. For example in Grevillea 1 and Justago 1 the lithostratigraphic names have been updated from the old 'Emmanuel Formation' to match the new subdivisions of the Ordovician section in this well as published in Nicoll et al., (1993). The lithostratigraphic information is supplied mainly for ease of reference to previously published data. As discussed in the previous paragraph, we recommend that any stratigraphic compilation or comparison of geochemical data should be done using the sequence stratigraphic data in column 7. For samples from the Orgchem database (which does not contain stratigraphic information) we have used the lithostratigraphic unit from the well summaries in Southgate et al., (in prep) or interpretations of composite well logs from well completion reports. Sample analyses that have been abstracted from reports that did not show lithostratigraphic information are indicated by nd.

Column J-Q contains the quantitative organic geochemical results: t_{max} in °C; S1, S2, and S3 in mg hydrocarbon/g of rock; TOC in weight %; $PI = S1/(S1+S2)$, $HI = S2 \times 100/TOC$ and $OI = S3 \times 100/TOC$.

Column R gives some indication of the source of the data, usually the company that had the samples analysed or the laboratory that undertook the analyses, nd..... indicates not known.

KEY TO PERMEABILITY/POROSITY SPREADSHEETS (WELLNAME- P.XLS)

Columns A to H as for geochemistry spreadsheets, except that BMR Lab No in column 2 has been omitted. In some cases general or average values are quoted for a stratigraphic unit (often without the actual depths being given) - this is indicated by a * symbol and a note to that effect at the bottom of the spreadsheet.

Columns I to L Porosity data

Column I spot value for porosity usually measured on a piece of core.

Column J,K,L average, minimum and maximum values measured over the specified interval. In most cases these are from interpretations of wireline logs; on some sheets the type of log interpretation undertaken (eg neutron log) is given.

Column M, N General information on the source of the data (eg well completion report, or laboratory that undertook the work), and the type of analysis that was done, eg measurement on core piece, electric log interpretation, to enable some assessment of reliability of figures provided. In some reports very little of this data is presented and this column is blank, but values quoted have been included nevertheless.

Column P to S Permeability data

Permeability in millidarcy; **K_h** - horizontal; **K_v** - vertical; **K_a** - not specific; **K_{max}** - maximum over interval or for sample; **K_{min}** - minimum over interval or for sample; **K_{av}** average over interval or for sample.

Columns T, U,V applies to only a couple of wells and is more specific log-derived porosity data.

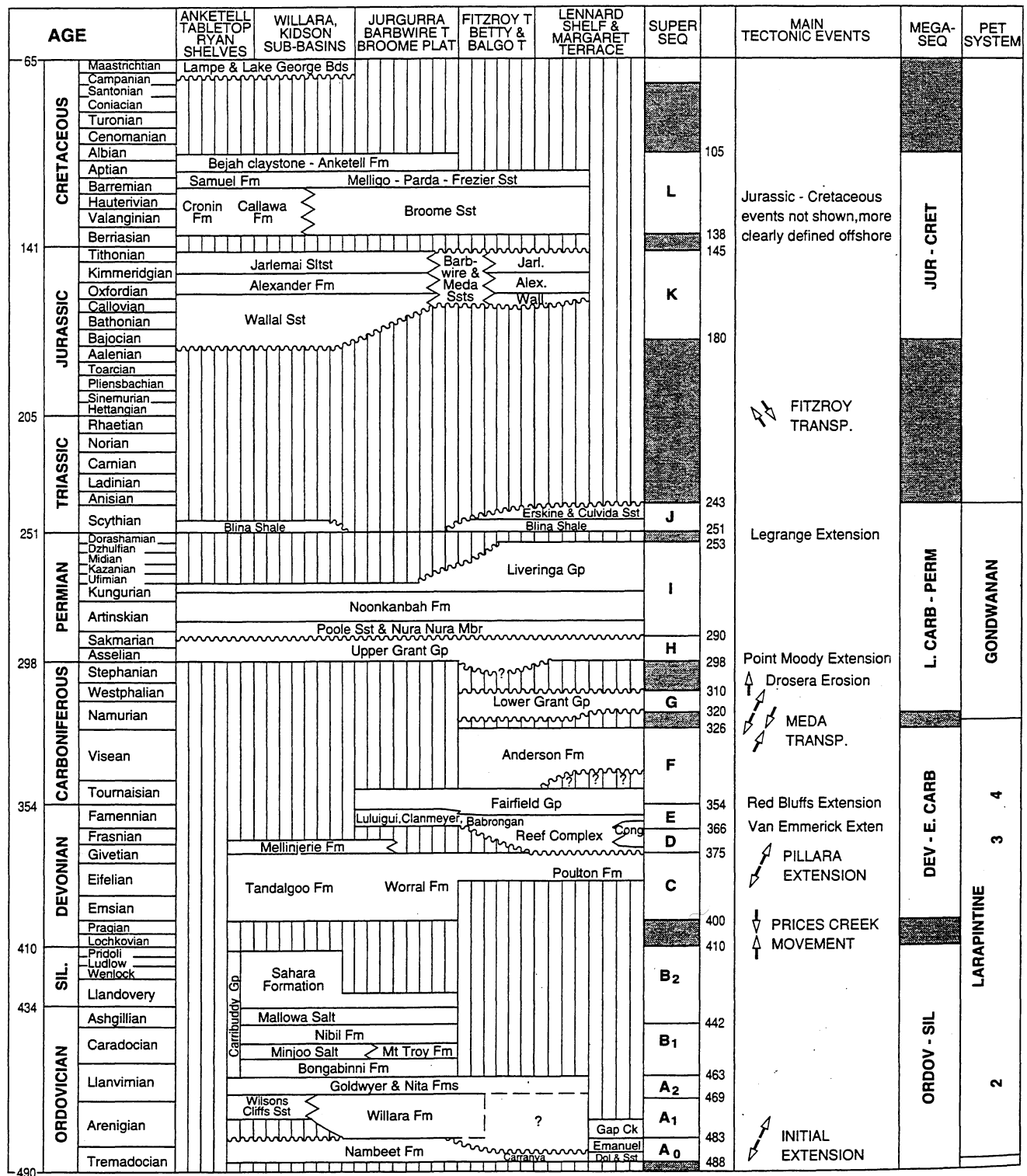


Figure 2: Canning Basin Stratigraphic column showing selected lithostratigraphic units, Stage II depositional sequences (Supersequence column, units Ao to L), the main tectonics events that affected basin evolution, and larger scale Megasequences and Petroleum Systems (from Kennard et al., 1994, figure 3)

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GEOCHEMISTRY SPREADSHEETS

(Pages 15-153)

p. 15 - 152

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	lmax	S1	S2	S3	TOC	PI	HI	OI	where from
Acacia 1				509.47		C	Barbwire terr.	Worral Fm					0.06				wmc/amdel
Acacia 1				614.35		B	Barbwire terr.	Carlbuddy Fm					0.06				wmc/amdel
Acacia 1				672.3		B	Barbwire terr.	Carlbuddy Fm					0.11				wmc/amdel
Acacia 1				694.98		A2	Barbwire terr.	Nita Fm					0.04				wmc/amdel
Acacia 1				709.6		A2	Barbwire terr.	Nita Fm					0.08				wmc/amdel
Acacia 1				733.6		A2	Barbwire terr.	Nita Fm	421	0.06	0.19		0.32	0.24	59		Foster et al
Acacia 1				739.35		A2	Barbwire terr.	Nita Fm					0.3				wmc/amdel
Acacia 1				753.05		A2	Barbwire terr.	Nita Fm					0.56				wmc/amdel
Acacia 1				759.2		A2	Barbwire terr.	Nita Fm					0.21				wmc/amdel
Acacia 1				765.45		A2	Barbwire terr.	Nita Fm					0.23				wmc/amdel
Acacia 1				770.75		A2	Barbwire terr.	Nita Fm					0.84				wmc/amdel
Acacia 1				774.8		A2	Barbwire terr.	Nita Fm					0.1				wmc/amdel
Acacia 1				776.05		A2	Barbwire terr.	Nita Fm					1.12				wmc/amdel
Acacia 1				779.26		A2	Barbwire terr.	Goldwyer Fm**	432	0.01	3.09		0.96	0.003	321		foster et al
Acacia 1				779.85		A2	Barbwire terr.	Goldwyer Fm**	427	0.08	8.52		1.69	0.01	504		foster et al
Acacia 1				782.7		A2	Barbwire terr.	Goldwyer Fm**	439	0.62	36.54		4.03	0.02	901		foster et al
Acacia 1				785.8		A2	Barbwire terr.	Goldwyer Fm**	437	0.12	3.43		1.19	0.03	288		foster et al
Acacia 1				789		A2	Barbwire terr.	Goldwyer Fm**					1.49				wmc/amdel
Acacia 1				793.65		A2	Barbwire terr.	Goldwyer Fm**					0.76				wmc/amdel
Acacia 1				794.98		A2	Barbwire terr.	Goldwyer Fm**					0.18				wmc/amdel
Acacia 1				799.16		A2	Barbwire terr.	Goldwyer Fm**					0.1				wmc/amdel
Acacia 1				804.64		A2	Barbwire terr.	Goldwyer Fm**					0.29				wmc/amdel
Acacia 1				814		A2	Barbwire terr.	Goldwyer Fm**	435	0	0.12		0.13	0	92		foster et al
Acacia 1				830.8		A2	Barbwire terr.	Goldwyer Fm**					0.12				wmc/amdel
Acacia 1				858.67		A2	Barbwire terr.	Goldwyer Fm					0.97				wmc/amdel
Acacia 1				874.5		A2	Barbwire terr.	Goldwyer Fm	422	0.01	0.15		0.19	0.06	78		foster et al
Acacia 1				893.45		A2	Barbwire terr.	Goldwyer Fm					0.17				wmc/amdel
Acacia 1				917.62		A2	Barbwire terr.	Goldwyer Fm					0.17				wmc/amdel
Acacia 1				935		A2	Barbwire terr.	Goldwyer Fm	425	0.01	0.14		0.19	0.07	73		foster et al
Acacia 1				960.05		A2	Barbwire terr.	Goldwyer Fm					0.54				wmc/amdel
Acacia 1				974		A2	Barbwire terr.	Goldwyer Fm	432	0.22	0.88		0.71	0.2	123		foster et al
Acacia 1				978.82		A2	Barbwire terr.	Goldwyer Fm					0.76				wmc/amdel
Acacia 1				987.19		A2	Barbwire terr.	Goldwyer Fm					0.74				wmc/amdel
Acacia 1				995		A2	Barbwire terr.	Goldwyer Fm					1.24				wmc/amdel
Acacia 1				1003.7		A2	Barbwire terr.	Goldwyer Fm					0.6				wmc/amdel
Acacia 1				1009.95		A2	Barbwire terr.	Goldwyer Fm					0.97				wmc/amdel
Acacia 1				1014.3		A2	Barbwire terr.	Goldwyer Fm	433	0.11	1.92		0.91	0.05	210		foster et al
Acacia 1				1019.49		A2	Barbwire terr.	Goldwyer Fm					1.24				wmc/amdel

[illegible]

Well Name (Pedin No)	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Anna Plains 1				1143	1158	A2	Willara S-b	Goldwyer	428	0.5	1.13	0.91	0.49	0.31	231	186	wcr (amde)

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Antares 1				1053.9		B1	E Dampler Terrace	Carrribuddy	nd	nd	nd	nd	0.13	nd	nd	nd	WCR/analabs
Antares 1				1072.4		A2	E Dampler Terrace	Nlta	nd	nd	nd	nd	0.13	nd	nd	nd	WCR(analabs)
Antares 1				1085		A2	E Dampler Terrace	Nlta	nd	nd	nd	nd	0.1	nd	nd	nd	WCR(analabs)
Antares 1				1086.5		A2	E Dampler Terrace	Nlta	nd	nd	nd	nd	0.07	nd	nd	nd	WCR(analabs)
Antares 1				1101		A2	E Dampler Terrace	Nlta	nd	nd	nd	nd	0.09	nd	nd	nd	WCR(analabs)
Antares 1				1152.2		A2	E Dampler Terrace	Nlta - shale	nd	nd	nd	nd	0.11	nd	nd	nd	WCR(analabs)
Antares 1				1191.2		A2	E Dampler Terrace	Nlta	nd	nd	nd	nd	0.1	nd	nd	nd	WCR(analabs)
Antares 1				1210.5		A2	E Dampler Terrace	Nlta	nd	nd	nd	nd	0.12	nd	nd	nd	WCR(analabs)
Antares 1				1226		A2	E Dampler Terrace	Nlta	nd	nd	nd	nd	0.14	nd	nd	nd	WCR(analabs)
Antares 1				1239.5		A2	E Dampler Terrace	Nlta	nd	nd	nd	nd	0.16	nd	nd	nd	WCR(analabs)
Antares 1				1255		A2	E Dampler Terrace	Goldwyer	nd	nd	nd	nd	0.18	nd	nd	nd	WCR(analabs)
Antares 1				1260.5		A2	E Dampler Terrace	Goldwyer	nd	nd	nd	nd	0.13	nd	nd	nd	WCR(analabs)
Antares 1				1278		A2	E Dampler Terrace	Goldwyer	nd	nd	nd	nd	0.13	nd	nd	nd	WCR(analabs)
Antares 1				1292		A2	E Dampler Terrace	Goldwyer	nd	nd	nd	nd	0.15	nd	nd	nd	WCR(analabs)
Antares 1				1295		A2	E Dampler Terrace	Goldwyer	nd	nd	nd	nd	0.11	nd	nd	nd	WCR(analabs)

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Aquanita 1	45888			1600	1605	F	Laurel D Terr	Laurel Fm					0.17				orgchem
Aquanita 1	45889			1605	1610	F	Laurel D Terr	Laurel Fm	430	0.02	0.19	0.66	0.48	0.10	40		orgchem
Aquanita 1	45890			1610	1615	F	Laurel D Terr	Laurel Fm	427	0.02	0.14	0.52	0.32	0.13	44		orgchem
Aquanita 1	45891			1615	1620	F	Laurel D Terr	Laurel Fm					0.26				orgchem
Aquanita 1	45892			1620	1625	F	Laurel D Terr	Laurel Fm					0.19				orgchem
Aquanita 1	45893			1625	1630	F	Laurel D Terr	Laurel Fm					0.16				orgchem
Aquanita 1	45894			1630	1635	F	Laurel D Terr	Laurel Fm					0.2				orgchem
Aquanita 1	45895			1635	1640	F	Laurel D Terr	Laurel Fm					0.36				orgchem
Aquanita 1	45896			1640	1645	F	Laurel D Terr	Laurel Fm	427	0.02	0.3	0.45	0.42	0.06	71		orgchem
Aquanita 1	45897			1645	1650	F	Laurel D Terr	Laurel Fm	428	0.02	0.21	0.52	0.36	0.09	58		orgchem
Aquanita 1	45898			1655	1660	F	Laurel D Terr	Laurel Fm					0.21				orgchem
Aquanita 1	45899			1665	1670	F	Laurel D Terr	Laurel Fm					0.3				orgchem
Aquanita 1	45900			1670	1675	F	Laurel D Terr	Laurel Fm					0.24				orgchem
Aquanita 1	45901			1680	1685	F	Laurel D Terr	Laurel Fm					0.3				orgchem
Aquanita 1	45902			1685	1690	F	Laurel D Terr	Laurel Fm					0.27				orgchem
Aquanita 1	45903			1690	1695	F	Laurel D Terr	Laurel Fm	428	0.02	0.25	0.3	0.34	0.07	74		orgchem
Aquanita 1	45904			1700	1705	F	Laurel D Terr	Laurel Fm					0.3				orgchem
Aquanita 1	45905			1705	1710	F	Laurel D Terr	Laurel Fm					0.24				orgchem
Aquanita 1	45906			1710	1715	F	Laurel D Terr	Yellow Drum					0.25				orgchem
Aquanita 1	45907			1715	1720	F	Laurel D Terr	Yellow Drum					0.18				orgchem
Aquanita 1	45908			1720	1725	F	Laurel D Terr	Yellow Drum					0.2				orgchem
Aquanita 1	45909			1730	1735	F	Laurel D Terr	Yellow Drum					0.19				orgchem
Aquanita 1	45910			1740	1745	F	Laurel D Terr	Yellow Drum					0.2				orgchem
Aquanita 1	45911			1750	1755	F	Laurel D Terr	Yellow Drum					0.13				orgchem
Aquanita 1	45912			1765	1770	F	Laurel D Terr	Yellow Drum					0.23				orgchem
Aquanita 1	45913			1780	1785	F	Laurel D Terr	Yellow Drum					0.06				orgchem
Aquanita 1	45914			1790	1795	F	Laurel D Terr	Yellow Drum					0.07				orgchem
Aquanita 1	45915			1800	1805	F	Laurel D Terr	Yellow Drum					0.08				orgchem
Aquanita 1	45916			1810	1815	F	Laurel D Terr	Yellow Drum					0.05				orgchem
Aquanita 1	45917			1820	1825	E	Laurel D Terr	Yellow Drum					0.09				orgchem
Aquanita 1	45918			1830	1835	E	Laurel D Terr	Yellow Drum					0.13				orgchem
Aquanita 1	45919			1840	1845	E	Laurel D Terr	Yellow Drum					0.14				orgchem
Aquanita 1	45920			1850	1855	E	Laurel D Terr	Yellow Drum					0.16				orgchem
Aquanita 1	45921			1860	1865	E	Laurel D Terr	Yellow Drum					0.11				orgchem
Aquanita 1	45922			1870	1875	E	Laurel D Terr	Yellow Drum					0.12				orgchem
Aquanita 1	45923			1880	1885	E	Laurel D Terr	Gumhole					0.11				orgchem

Aquanita 1	45924			1890	1895	E	Laurel D Terr	Gumhole					0.1			orgchem
Aquanita 1	45925			1900	1905	E	Laurel D Terr	Gumhole					0.16			orgchem
Aquanita 1	45926			1910	1915	E	Laurel D Terr	Gumhole					0.14			orgchem
Aquanita 1	45927			1920	1925	E	Laurel D Terr	Gumhole					0.11			orgchem
Aquanita 1	45928			1930	1935	E	Laurel D Terr	Gumhole					0.12			orgchem
Aquanita 1	45929			1940	1945	E	Laurel D Terr	Gumhole					0.14			orgchem
Aquanita 1	45930			1950	1955	E	Laurel D Terr	May River					0.12			orgchem
Aquanita 1	45931			1960	1965	E	Laurel D Terr	May River					0.04			orgchem
Aquanita 1	45932			1970	1975	E	Laurel D Terr	May River					0.04			orgchem
Aquanita 1	45933			1980	1985	E	Laurel D Terr	Nullara Lst					0.04			orgchem
Aquanita 1	45934			1990	1995	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45935			2000	2005	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45936			2050	2055	E	Laurel D Terr	Nullara Lst					0.04			orgchem
Aquanita 1	45937			2100	2105	E	Laurel D Terr	Nullara Lst					0.02			orgchem
Aquanita 1	45938			2150	2155	E	Laurel D Terr	Nullara Lst					0.02			orgchem
Aquanita 1	45939			2200	2205	E	Laurel D Terr	Nullara Lst					0.02			orgchem
Aquanita 1	45940			2250	2255	E	Laurel D Terr	Nullara Lst					0.04			orgchem
Aquanita 1	45941			2300	2305	E	Laurel D Terr	Nullara Lst					0.04			orgchem
Aquanita 1	45942			2370	2375	E	Laurel D Terr	Nullara Lst					0.02			orgchem
Aquanita 1	45943			2425	2430	E	Laurel D Terr	Nullara Lst					0.03			orgchem
Aquanita 1	45944			2500	2505	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45945			2550	2555	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45946			2600	2605	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45947			2640	2645	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45948			2670	2675	E	Laurel D Terr	Nullara Lst					0.03			orgchem
Aquanita 1	45949			2675	2680	E	Laurel D Terr	Nullara Lst					0.04			orgchem
Aquanita 1	45950			2680	2685	E	Laurel D Terr	Nullara Lst					0.04			orgchem
Aquanita 1	45951			2700	2705	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45952			2750	2755	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45953			2810	2815	E	Laurel D Terr	Nullara Lst					0.02			orgchem
Aquanita 1	45954			2850	2855	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45955			2900	2905	E	Laurel D Terr	Nullara Lst					0.03			orgchem
Aquanita 1	45956			2950	2955	E	Laurel D Terr	Nullara Lst					0.01			orgchem
Aquanita 1	45957			2970	2975	E	Laurel D Terr	Nullara Lst					0.02			orgchem
Aquanita 1	45958			2975	2980	E	Laurel D Terr	Nullara Lst					0.05			orgchem
Aquanita 1	45959			2980	2985	E	Laurel D Terr	Fras clastics					0.06			orgchem
Aquanita 1	45960			2985	2990	E	Laurel D Terr	Fras clastics					0.07			orgchem
Aquanita 1	45961			2990	2995	E	Laurel D Terr	Fras clastics					0.11			orgchem
Aquanita 1	45962			2995	3000	E	Laurel D Terr	Fras clastics					0.07			orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	Imax	S1	S2	S3	TOC	PI	HI	OI	where from
Aquila 1				693.82		B1	Broome Plat	Nita					0.15				Analabs/WCr
Aquila 1				696		B1	Broome Plat	Nita					0.22				Analabs/WCr
Aquila 1				700.74		B1	Broome Plat	Nita					0.1				Analabs/WCr
Aquila 1				859		A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.22	nd	nd	nd	Orgchem
Aquila 1				893		A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.23	nd	nd	nd	Orgchem
Aquila 1				942		A2	Broome Plat	Goldwyer	434	0.11	0.68	0.26	0.56	0.14	121	46	Orgchem
Aquila 1				956		A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.27	nd	nd	nd	Orgchem
Aquila 1				976.5		A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.25	nd	nd	nd	Orgchem
Aquila 1				1020	1030	A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.22	nd	nd	nd	Orgchem
Aquila 1				1020.5		A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.3	nd	nd	nd	Orgchem
Aquila 1				1030	1040	A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.28	nd	nd	nd	Orgchem
Aquila 1				1040	1050	A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.36	nd	nd	nd	Orgchem
Aquila 1				1050	1060	A2	Broome Plat	Goldwyer	436	0.39	1.24	0.33	0.81	0.24	153	40	Orgchem
Aquila 1				1053		A2	Broome Plat	Goldwyer	nd	nd	nd	nd	0.31	nd	nd	nd	Orgchem
Aquila 1				1060	1065	A2	Broome Plat	Goldwyer		0.65	0.63						Fry BP Res Cent
Aquila 1				1060	1070	A2	Broome Plat	Goldwyer	437	0.7	2.17	0.33	1.11	0.24	195	29	Orgchem
Aquila 1				1069.5		A2	Broome Plat	Goldwyer	436	1.25	4.42	0.56	1.91	0.22	231	29	Orgchem
Aquila 1				1070	1080	A2	Broome Plat	Goldwyer	435	0.72	2.2	0.4	0.95	0.25	231	42	Orgchem
Aquila 1				1080	1090	A2	Broome Plat	Goldwyer	435	0.44	1.23	0.36	0.74	0.26	166	48	Orgchem
Aquila 1				1087.5		A2	Broome Plat	Goldwyer	430	0.41	0.81	0.58	0.89	0.34	91	65	Orgchem
Aquila 1				1090	1100	A2	Broome Plat	Goldwyer	435	0.55	1.5	0.45	0.83	0.27	180	54	Orgchem
Aquila 1				1100	1110	A2	Broome Plat	Goldwyer	435	0.52	1.39	0.5	0.85	0.27	163	58	Orgchem
Aquila 1				1110	1120	A2	Broome Plat	Goldwyer	436	1.02	2.55	0.38	1.23	0.29	207	30	Orgchem
Aquila 1				1118.5		A2	Broome Plat	Goldwyer	436	2.71	7.02	0.82	3.2	0.28	219	25	Orgchem
Aquila 1				1120	1125	A2	Broome Plat	Goldwyer		0.45	0.64						BP Res Cent
Aquila 1				1120	1130	A2	Broome Plat	Goldwyer	431	1.51	3.1	0.51	1.46	0.33	212	34	Orgchem
Aquila 1				1130	1140	A2	Broome Plat	Goldwyer	430	0.9	1.65	0.47	1.04	0.35	158	45	Orgchem
Aquila 1				1140	1150	A2	Broome Plat	Goldwyer	426	1.21	2.38	0.56	1.16	0.34	205	48	Orgchem
Aquila 1				1141		A2	Broome Plat	Goldwyer	433	1.12	2.75	0.65	2.22	0.29	123	29	Orgchem
Aquila 1				1150	1160	A2	Broome Plat	Goldwyer	429	1.09	1.92	0.71	1.18	0.36	162	60	Orgchem
Aquila 1				1160	1170	A2	Broome Plat	Goldwyer	426	0.71	1.24	0.58	0.87	0.36	142	66	Orgchem
Aquila 1				1164		A2	Broome Plat	Goldwyer	421	0.31	0.67	0.42	0.77	0.32	87	54	Orgchem
Aquila 1				1170	1180	A2	Broome Plat	Willara					0.4				Orgchem
Aquila 1				1370	1375	A1	Broome Plat	Willara		0.51	0.63						BP Res Cent

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Aristida 1A				581.31		D	Barbwire terr.	source					0.87				WMC
Aristida 1A				583.34		D	Barbwire terr.	shoaling Frasnian source	422				0.51		321	150	WMC
Aristida 1A				584		D	Barbwire terr.	shoaling Frasnian source	421				0.8		246	103	WMC
Aristida 1A				617.06		D	Barbwire terr.	reservoir					0.23				WMC
Aristida 1A				620.45		D	Barbwire terr.	shoaling Frasnian source	427				0.95		269	108	WMC
Aristida 1A				634		D	Barbwire terr.	shoaling Frasnian source					0.07				WMC
Aristida 1A				664.9		D	Barbwire terr.	shoaling Frasnian source					0.25				WMC
Aristida 1A				678.67		D	Barbwire terr.	reservoir					0.09				WMC
Aristida 1A				679.57		D	Barbwire terr.	source					0.24				WMC
Aristida 1A				691.92		D	Barbwire terr.	source					0.53				WMC
Aristida 1A				700.7		D	Barbwire terr.	shoaling Frasnian source					0.25				WMC
Aristida 1A				701.26		D	Barbwire terr.	source					0.29				WMC

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Barbwire 1				820		D	Barbwire Terr	Pillara Fm	443	0.02	0.07	0.37	0.39	0.25	17	94	Esso
Barbwire 1				910		D	Barbwire Terr	Pillara Fm	338	0.07	0.06	0.3	0.12	0.58	50	250	Esso
Barbwire 1				1010		D	Barbwire Terr	Pillara Fm	277	0.05	0.05	0.22	0.09	0.5	55	244	Esso
Barbwire 1				1060		D	Barbwire Terr	Pillara Fm	446	0.05	0.01	0.22	0.07	0.83	14	314	Esso

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Barlee 1	31218			367.2	367.2	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31219			397.7	397.7	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31359			398	398	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31220			493.7	493.7	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31221			509	509	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	46926			701	701	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31222			739.1	739.1	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31223			748.2	748.2	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31224			824.4	824.4	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	30084			833	833	nd	Fitzroy Trough	Anderson Fm					0.03				orgchem
Barlee 1	31225			914.4	914.4	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31226			960.4	960.4	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	46927			963	963	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	30085			1089.3	1089.3	nd	Fitzroy Trough	Anderson Fm					0.03				orgchem
Barlee 1	30082			1242	1242	nd	Fitzroy Trough	Anderson Fm					0.2				orgchem
Barlee 1	30083			1475.5	1475.5	nd	Fitzroy Trough	Anderson Fm					0.2				orgchem
Barlee 1	31228			1685.5	1685.5	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	30080			1730.3	1730.3	nd	Fitzroy Trough	Anderson Fm					0.03				orgchem
Barlee 1	31230			1895.8	1895.8	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	31360			1896	1896	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	30081			1983.9	1983.9	nd	Fitzroy Trough	Anderson Fm					0.03				orgchem
Barlee 1	30078			2241.5	2241.5	nd	Fitzroy Trough	Anderson Fm					0.2				orgchem
Barlee 1	46928			2304	2304	nd	Fitzroy Trough	Anderson Fm									orgchem
Barlee 1	30079			2421.3	2421.3	nd	Fitzroy Trough	Anderson Fm					0.1				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Utho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Blackstone 1	31067			1532.2	1532.2	F	Laurel Downs T	Laurel Fm					1.94				Orgchem
Blackstone 1		5027		1532.2	1532.23	F	Laurel Downs T	Laurel					1.79				Exxon Prod Res Co
Blackstone 1		5027	5042	1536.8	1532.23	F	Laurel Downs T	Laurel					1.94				Exxon Prod Res Co
Blackstone 1	30092			1536.2	1536.2	F	Laurel Downs T	Laurel Fm					0.2				Orgchem
Blackstone 1	31068			1536.8	1536.8	F	Laurel Downs T	Laurel Fm					2.08				Orgchem
Blackstone 1		5042		1536.8		F	Laurel Downs T	Laurel					2.08				Exxon Prod Res Co
Blackstone 1				1556	1556	F	Laurel Downs T	Laurel	425	1.31	20.29	1.85	4.84	0.06	418	38	WAIT
Blackstone 1	30093			1690.3	1690.3	E	Laurel Downs T	Fairfield Fm					0.3				Orgchem
Blackstone 1	30090			1819.3	1819.3	E	Laurel Downs T	Fairfield Fm					0.1				Orgchem
Blackstone 1	30091			2129.2	2129.2	B1	Laurel Downs T	Blackstone Fm					0.1				Orgchem
Blackstone 1	30088			2368.5	2368.5	A2	Laurel Downs T	Niita					0.1				Orgchem
Blackstone 1	5354			2455.9	2455.9	A2	Laurel Downs T	Niita	426	0	0.01	0.64	0.25	0.00	4	256	Orgchem
Blackstone 1				2468.9	2471.9	A2	Laurel Downs T	Niita					0.21		95		BP Res Cent
Blackstone 1	47860			2468.9	2471.9	A2	Laurel Downs T	Niita		0.3	0.2		0.21	0.60	95		Orgchem
Blackstone 1				2499.4	2502.4	A2	Laurel Downs T	Niita					0.16		63		BP Res Cent
Blackstone 1	47861			2499.4	2502.4	A2	Laurel Downs T	Niita		0.2	0.1		0.16	0.67	63		Orgchem
Blackstone 1				2529.9	2532.9	A2	Laurel Downs T	Niita					0.16		63		BP Res Cent
Blackstone 1	47862			2529.8	2532.9	A2	Laurel Downs T	Niita		0.1	0.1		0.16	0.50	63		Orgchem
Blackstone 1	47863			2560.3	2560.3	A2	Laurel Downs T	Niita		0.1	0.1		0.2	0.50	50		Orgchem
Blackstone 1				2560.3	2563.4	A2	Laurel Downs T	Niita					0.2		50		BP Res Cent
Blackstone 1					2582.1	A2	Laurel Downs T	Niita					0.18		167		BP Res Cent
Blackstone 1	47864			2582.1	2582.1	A2	Laurel Downs T	Niita		0.1			0.18				Orgchem
Blackstone 1	30089			2582.6	2582.6	A2	Laurel Downs T	Niita					0.2				Orgchem
Blackstone 1					2582.7	A2	Laurel Downs T	Niita					0.22		136		BP Res Cent
Blackstone 1	47865			2582.7	2582.7	A2	Laurel Downs T	Niita		0.2			0.22				Orgchem
Blackstone 1					2583	A2	Laurel Downs T	Niita					0.19				BP Res Cent
Blackstone 1	47866			2583	2583	A2	Laurel Downs T	Niita		0.1			0.19				Orgchem
Blackstone 1					2583.9	A2	Laurel Downs T	Niita					0.17				BP Res Cent
Blackstone 1	47867			2583.9	2583.9	A2	Laurel Downs T	Niita		0.2			0.17				Orgchem
Blackstone 1					2584.6	A2	Laurel Downs T	Niita					0.19				BP Res Cent
Blackstone 1	47868			2584.6	2584.6	A2	Laurel Downs T	Niita		0.2			0.19				Orgchem
Blackstone 1				2590.8	2593.8	A2	Laurel Downs T	Niita					0.23		87		BP Res Cent
Blackstone 1	47869			2590.8	2593.8	A2	Laurel Downs T	Niita		0.1	0.2		0.23	0.33	87		Orgchem
Blackstone 1				2621.3	2624.3	A2	Laurel Downs T	Goldwyer					0.22		45		BP Res Cent
Blackstone 1	47870			2621.3	2624.3	A2	Laurel Downs T	Goldwyer		0.1	0.1		0.22	0.50	45		Orgchem
Blackstone 1				2651.8	2654.8	A2	Laurel Downs T	Goldwyer					0.24		42		BP Res Cent
Blackstone 1	47871			2651.8	2654.8	A2	Laurel Downs T	Goldwyer		0.1	0.1		0.24	0.50	42		Orgchem
Blackstone 1	5355			2674.3	2674.3	A2	Laurel Downs T	Goldwyer	335		0.02	0.09	0.14		14	64	Orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	imax	S1	S2	S3	TOC	PI	HI	OI	where from
Blackstone 1					2676.3	A2	Laurel Downs T	Goldwyer					0.14				BP Res Cent
Blackstone 1	47872			2676.3	2676.3	A2	Laurel Downs T	Goldwyer		0.1			0.14				Orgchem
Blackstone 1					2676.9	A2	Laurel Downs T	Goldwyer					0.14				BP Res Cent
Blackstone 1					2677.4	A2	Laurel Downs T	Goldwyer					0.13				BP Res Cent
Blackstone 1	47874			2677.4	2677.4	A2	Laurel Downs T	Goldwyer		0.2			0.13				Orgchem
Blackstone 1					2677.5	A2	Laurel Downs T	Goldwyer					0.12				BP Res Cent
Blackstone 1	47875			2677.5	2677.5	A2	Laurel Downs T	Goldwyer		0.1			0.12				Orgchem
Blackstone 1					2678.1	A2	Laurel Downs T	Goldwyer					0.14				BP Res Cent
Blackstone 1	47876			2678.1	2678.1	A2	Laurel Downs T	Goldwyer		0.2			0.14				Orgchem
Blackstone 1					2678.7	A2	Laurel Downs T	Goldwyer					0.13				BP Res Cent
Blackstone 1	47877			2678.7	2678.7	A2	Laurel Downs T	Goldwyer		0.1			0.13				Orgchem
Blackstone 1					2679.3	A2	Laurel Downs T	Goldwyer					0.15				BP Res Cent
Blackstone 1	47878			2679.3	2679.3	A2	Laurel Downs T	Goldwyer		0.1			0.15				Orgchem
Blackstone 1					2680	A2	Laurel Downs T	Goldwyer					0.14				BP Res Cent
Blackstone 1	47879			2680	2680	A2	Laurel Downs T	Goldwyer		0.1			0.14				Orgchem
Blackstone 1				2682.2	2685.3	A2	Laurel Downs T	Goldwyer					0.2		50		BP Res Cent
Blackstone 1	47880			2682.2	2685.3	A2	Laurel Downs T	Goldwyer		0.2	0.1		0.2	0.67	50		Orgchem
Blackstone 1				2712.7	2715.8	A2	Laurel Downs T	Goldwyer					0.22		45		BP Res Cent
Blackstone 1	47881			2712.7	2715.8	A2	Laurel Downs T	Goldwyer		0.2	0.1		0.22	0.67	45		Orgchem
Blackstone 1	5356			2738.5	2738.5	A2	Laurel Downs T	Goldwyer	252	0.01	0.01	0.12	0.14	0.50	7	86	Orgchem
Blackstone 1					2740.6	A2	Laurel Downs T	Goldwyer					0.06				BP Res Cent
Blackstone 1	47882			2740.6	2740.6	A2	Laurel Downs T	Goldwyer		0.2			0.06				Orgchem
Blackstone 1					2741.2	A2	Laurel Downs T	Goldwyer					0.16				BP Res Cent
Blackstone 1	47883			2741.2	2741.2	A2	Laurel Downs T	Goldwyer		0.2			0.16				Orgchem
Blackstone 1					2742	A2	Laurel Downs T	Goldwyer					0.13				BP Res Cent
Blackstone 1	47884			2742	2742	A2	Laurel Downs T	Goldwyer		0.1			0.13				Orgchem
Blackstone 1				2743.2	2746.2	A2	Laurel Downs T	Goldwyer					0.24		42		BP Res Cent
Blackstone 1	47885			2743.2	2746.2	A2	Laurel Downs T	Goldwyer		0.2	0.1		0.24	0.67	42		Orgchem
Blackstone 1				2773.7	2776.7	A2	Laurel Downs T	Goldwyer					0.23		217		BP Res Cent
Blackstone 1	47886			2773.7	2776.7	A2	Laurel Downs T	Goldwyer		0.3	0.5		0.23	0.38	217		Orgchem
Blackstone 1				2804.2	2807.2	A2	Laurel Downs T	Goldwyer					0.24		125		BP Res Cent
Blackstone 1	47887			2804.2	2807.2	A2	Laurel Downs T	Goldwyer		0.4	0.3		0.24	0.57	125		Orgchem
Blackstone 1					2832.7	A2	Laurel Downs T	Goldwyer					0.16				BP Res Cent
Blackstone 1	47888			2832.7	2832.7	A2	Laurel Downs T	Goldwyer					0.16				Orgchem
Blackstone 1					2833.1	A2	Laurel Downs T	Goldwyer					0.17				BP Res Cent
Blackstone 1	47889			2833.1	2833.1	A2	Laurel Downs T	Goldwyer		0.2			0.17				Orgchem
Blackstone 1	5357			2833.5	2833.7	A2	Laurel Downs T	Goldwyer	247		0.01		0.13		8		Orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Utho-strat name	lmax	S1	S2	S3	TOC	PI	HI	OI	where from
Blackstone 1					2833.9	A2	Laurel Downs T	Goldwyer					0.18				BP Res Cent
Blackstone 1	47890			2833.9	2833.9	A2	Laurel Downs T	Goldwyer		0.1			0.18				Orgchem
Blackstone 1					2834.5	A2	Laurel Downs T	Goldwyer					0.19				BP Res Cent
Blackstone 1	47891			2834.5	2834.5	A2	Laurel Downs T	Goldwyer		0.1			0.19				Orgchem
Blackstone 1					2834.9	A2	Laurel Downs T	Goldwyer					0.16				BP Res Cent
Blackstone 1	47892			2834.9	2834.9	A2	Laurel Downs T	Goldwyer		0.2			0.16				Orgchem
Blackstone 1					2835.7	A2	Laurel Downs T	Goldwyer					0.17		59		BP Res Cent
Blackstone 1	47893			2835.7	2835.7	A2	Laurel Downs T	Goldwyer		0.2	0.1		0.17	0.67	59		Orgchem
Blackstone 1					2836.3	A2	Laurel Downs T	Goldwyer					0.18				BP Res Cent
Blackstone 1	47894			2836.3	2836.3	A2	Laurel Downs T	Goldwyer		0.2			0.18				Orgchem
Blackstone 1					2836.9	A2	Laurel Downs T	Goldwyer					0.08				BP Res Cent
Blackstone 1	47895			2836.9	2836.9	A2	Laurel Downs T	Goldwyer		0.2			0.08				Orgchem
Blackstone 1				2834.6	2837.7	A2	Laurel Downs T	Goldwyer					0.23		87		BP Res Cent
Blackstone 1	47896			2834.6	2837.7	A2	Laurel Downs T	Goldwyer		0.4	0.2		0.23	0.67	87		Orgchem
Blackstone 1				2865.1	2868.2	A2	Laurel Downs T	Goldwyer					0.22		45		BP Res Cent
Blackstone 1	47897			2865.1	2868.2	A2	Laurel Downs T	Goldwyer		0.2	0.1		0.22	0.67	45		Orgchem
Blackstone 1				2895.6	2898.6	A2	Laurel Downs T	Goldwyer					0.24		42		BP Res Cent
Blackstone 1	47898			2895.6	2898.6	A2	Laurel Downs T	Goldwyer		0.2	0.1		0.24	0.67	42		Orgchem
Blackstone 1					2912.7	A2	Laurel Downs T	Goldwyer					0.13				BP Res Cent
Blackstone 1	47899			2912.7	2912.7	A2	Laurel Downs T	Goldwyer		0.2			0.13				Orgchem
Blackstone 1					2913.3	A2	Laurel Downs T	Goldwyer					0.11				BP Res Cent
Blackstone 1	47900			2913.3	2913.3	A2	Laurel Downs T	Goldwyer		0.2			0.11				Orgchem
Blackstone 1				2926.1	2929.1	A2	Laurel Downs T	Goldwyer					0.21		48		BP Res Cent
Blackstone 1	47901			2926.1	2929.1	A2	Laurel Downs T	Goldwyer		0.2	0.1		0.21	0.67	48		Orgchem
Blackstone 1				2956.6	2956.6	A2	Laurel Downs T	Goldwyer					0.22		45		BP Res Cent
Blackstone 1	47902			2956.6	2956.6	A2	Laurel Downs T	Goldwyer		0.2	0.1		0.22	0.67	45		Orgchem
Blackstone 1	30087			3008.8	3008.8	A2	Laurel Downs T	Goldwyer					0.1				Orgchem
Blackstone 1	5358			3045	3045	A2	Laurel Downs T	Goldwyer	275	0.01	0.02	0.05	0.15	0.33	13	33	Orgchem
Blackstone 1	5359			3045.6	3045.8	A2	Laurel Downs T	Goldwyer	275	0.01	0.01	0.07	0.23	0.50	4	30	Orgchem
Blackstone 1	30877			3048.6	3048.6	A2	Laurel Downs T	Goldwyer									Orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Blina 1	4497			2282.9	2282.9	D	Laurel D Terr	Frasnain clastics	439	0.09	0.34	0.03					orgchem
Blina 1	4498			2284.7	2284.7	D	Laurel D Terr	Frasnain clastics	439	0.06	0.15						orgchem
Blina 1	4499			2484.1	2484.1	D	Laurel D Terr	Frasnain clastics	442	0.36	0.57						orgchem
Blina 1	4500			2486.1	2486.1	D	Laurel D Terr	Frasnain clastics	434	0.18	0.28						orgchem
Blina 1	4501			2487.4	2487.4	D	Laurel D Terr	Frasnain clastics	442	0.36	0.9						orgchem
Blina 1	4502			2487.8	2487.8	D	Laurel D Terr	Frasnain clastics	447	0.64	4.76		2.2				orgchem
Blina 1	4503			2490	2490	D	Laurel D Terr	Frasnain clastics	437	0.5	0.52	0.08					orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Liho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Boab 1				473.2		D	Barbwire terr.	Boab Sst (Lycopod coals)	428				3.69		127	34	WMC
Boab 1				490.1		D	Barbwire terr.	Boab Sst (Lycopod coals)	426				1.86		33	66	WMC

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Boronla 1				2682		D	Laurel Downs Terr	Pillara Lst (Gogo facies)	435	1.45	1.96	0.7	1.87	0.43	104	37	WCR
Boronla 1				2813		D	Laurel Downs Terr	Pillara Lst (Gogo facies)					0.17				WCR
Boronla 1				2827		D	Laurel Downs Terr	Pillara Lst (Gogo facies)	435	0.21	0.38	0.67	0.68	0.36	55	98	WCR
Boronla 1				3013.3		D	Laurel Downs Terr	Pillara Lst (Gogo facies)					0.14				WCR

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Caladenia 1				149.89		nd	Barbwire Terr.	Nullara Dol equiv.	418				0.42		74	83	WMC
Caladenia 1				157.36		nd	Barbwire Terr.	Nullara Dol equiv.					0.14				WMC
Caladenia 1				172.45		nd	Barbwire Terr.	Nullara Dol equiv.					0.09				WMC
Caladenia 1				176.05		nd	Barbwire Terr.	Nullara Dol equiv.					0.08				WMC
Caladenia 1				187.49		nd	Barbwire Terr.	Nullara Dol equiv.	425				3.26		220	38	WMC
Caladenia 1				198.5		nd	Barbwire Terr.	Nullara Dol equiv.	429				0.99		214	75	WMC
Caladenia 1				219.7		nd	Barbwire Terr.	Nullara Dol equiv.	421				1.15		213	61	WMC
Caladenia 1				233.86		nd	Barbwire Terr.	Nullara Dol equiv.	421				0.95		278	122	WMC
Caladenia 1				254.6		nd	Barbwire Terr.	Nullara Dol equiv.	430				0.93		120	89	WMC
Caladenia 1				264.5		nd	Barbwire Terr.	Nullara Dol equiv.	429				0.61		105	123	WMC
Caladenia 1				267.02		nd	Barbwire Terr.	Nullara Dol equiv.	427				2.98		199	35	WMC
Caladenia 1				296.34		nd	Barbwire Terr.	Nullara Dol equiv.	428				0.47		140	213	WMC

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Calamia 1	64523			532	532	H	willara s-basin	Grant					0.24				orgchem
Calamia 1	64524			572	572	H	willara s-basin	Grant					0.4				orgchem
Calamia 1	64525			581	581	H	willara s-basin	Grant					0.3				orgchem
Calamia 1	64526			599	599	H	willara s-basin	Grant					0.1				orgchem
Calamia 1	64527			654	654	H	willara s-basin	Grant	418	0.43	0.95	0.47	0.6	0.31	158.33	78.33	orgchem
Calamia 1	64528			697	697	H	willara s-basin	Grant					0.6				orgchem
Calamia 1	64529			708	738	H	willara s-basin	Grant	400	0.02	0.09	0.44	0.31	0.18	29.03	141.94	orgchem
Calamia 1	64530			760	760	H	willara s-basin	Grant					0.3				orgchem
Calamia 1	64531			795	795	H	willara s-basin	Grant					0.6				orgchem
Calamia 1	64532			807	807	H	willara s-basin	Grant					0				orgchem
Calamia 1	64535			858	858	H	willara s-basin	Grant	364	0.01	0.08	0.61	0.21	0.11	38.10	290.48	orgchem
Calamia 1	64533			860	860	H	willara s-basin	Grant	431	0.01	0.1	0.09	0.3	0.09	33.33	30.00	orgchem
Calamia 1	64534			881.5	881.5	H	willara s-basin	Grant					0.1				orgchem
Calamia 1	64536			887.5	887.5	H	willara s-basin	Grant					0.05				orgchem
Calamia 1	64537			888	931	A2	willara s-basin	Nita	365	0.01	0.04	1.18	0.2	0.20	20.00	590.00	orgchem
Calamia 1	64538			931.5	931.5	A2	willara s-basin	Nita					0.1				orgchem
Calamia 1	64539			958	958	A2	willara s-basin	Goldwyer					0.11				orgchem
Calamia 1	64540			979.5	979.5	A2	willara s-basin	Goldwyer					0				orgchem
Calamia 1	64541			1002.5	1002.5	A2	willara s-basin	Goldwyer	429	0.06	0.15	0.12	0.2	0.29	75.00	60.00	orgchem
Calamia 1	64542			1008	1038	A2	willara s-basin	Goldwyer	392	0.01	0.12	0.56	0.18	0.08	66.67	311.11	orgchem
Calamia 1	64543			1027	1027	A2	willara s-basin	Goldwyer	433	0.11	1.92	0.6	0.44	0.05	436.36	136.36	orgchem
Calamia 1	64544			1117	1117	A2	willara s-basin	Goldwyer					0				orgchem
Calamia 1	64545			1175.5	1175.5	A2	willara s-basin	Goldwyer					0.15				orgchem
Calamia 1	64547			1218	1248	A2	willara s-basin	Goldwyer	430	0.02	0.09	0.65	0.2	0.18	45.00	325.00	orgchem
Calamia 1	64546			1224.5	1224.5	A2	willara s-basin	Goldwyer					0.2				orgchem
Calamia 1	64548			1333	1333	A1	willara s-basin	Willara					0				orgchem
Calamia 1	64549			1368.5	1368.5	A1	willara s-basin	Willara	430	0.02	0.18	0.27	0.1	0.10	180.00	270.00	orgchem
Calamia 1	64550			1494.5	1494.5	A0	willara s-basin	Nambeet					0.11				orgchem
Calamia 1	64551			1507.5	1507.5	A0	willara s-basin	Nambeet					0.1				orgchem
Calamia 1	64552			1532	1532	A0	willara s-basin	Nambeet					0.1				orgchem
Calamia 1	64553			1591	1591	A0	willara s-basin	Nambeet					0.1				orgchem
Calamia 1	64554			1623.5	1623.5	A0	willara s-basin	Nambeet	441	0.02	0.05	0.67		0.29			orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	lmax	S1	S2	S3	TOC	PI	HI	OI	where from
Canopus 1				170	180	H	E Dampier Terr.	Grant	427	0.01	0.27	1.29	0.89	0.04	30.00	144.00	WCR(analabs)
Canopus 1				290	300	H	E Dampier Terr.	Grant	418	0.03	0.16	0.48	0.55	0.16	29.00	87.00	WCR(analabs)
Canopus 1				310	320	H	E Dampier Terr.	Grant	420	0.04	0.2	0.63	0.55	0.17	36.00	114.00	WCR(analabs)
Canopus 1				330	340	H	E Dampier Terr.	Grant	nd	nd	nd	nd	0.26	nd	nd	nd	WCR(analabs)
Canopus 1				350	360	H	E Dampier Terr.	Grant	nd	nd	nd	nd	0.25	nd	nd	nd	WCR(analabs)
Canopus 1				360	370	H	E Dampier Terr.	Grant	nd	nd	nd	nd	0.31	nd	nd	nd	WCR(analabs)
Canopus 1				960	970	B1	E Dampier Terr.	Carlbuddy	nd	nd	nd	nd	0.21	nd	nd	nd	WCR(analabs)
Canopus 1				990	1000	B1	E Dampier Terr.	Carlbuddy	nd	nd	nd	nd	0.15	nd	nd	nd	WCR(analabs)
Canopus 1				1020	1030	B1	E Dampier Terr.	Carlbuddy	nd	nd	nd	nd	0.22	nd	nd	nd	WCR(analabs)
Canopus 1				1050	1060	B1	E Dampier Terr.	Carlbuddy	nd	nd	nd	nd	0.22	nd	nd	nd	WCR(analabs)
Canopus 1				1080	1090	B1	E Dampier Terr.	Carlbuddy	nd	nd	nd	nd	0.21	nd	nd	nd	WCR(analabs)
Canopus 1				1088		B1	E Dampier Terr.	Carlbuddy	nd	nd	nd	nd	0.14	nd	nd	nd	WCR(analabs)
Canopus 1				1100	1120	B1	E Dampier Terr.	Nlita	nd	nd	nd	nd	0.16	nd	nd	nd	WCR(analabs)
Canopus 1				1135.8		B1	E Dampier Terr.	Nlita	nd	nd	nd	nd	0.09	nd	nd	nd	WCR(analabs)
Canopus 1				1140	1150	A2	E Dampier Terr.	Nlita	nd	nd	nd	nd	0.25	nd	nd	nd	WCR(analabs)
Canopus 1				1170	1180	A2	E Dampier Terr.	Nlita	nd	nd	nd	nd	0.15	nd	nd	nd	WCR(analabs)
Canopus 1				1200	1210	A2	E Dampier Terr.	Nlita	nd	nd	nd	nd	0.16	nd	nd	nd	WCR(analabs)
Canopus 1				1220	1230	A2	E Dampier Terr.	Goldwyer	nd	nd	nd	nd	0.23	nd	nd	nd	WCR(analabs)
Canopus 1				1230		A2	E Dampier Terr.	Goldwyer					0.18		0.00	0.00	wcr/amdel
Canopus 1				1240	1250	A2	E Dampier Terr.	Goldwyer	nd	nd	nd	nd	0.21	nd	nd	nd	WCR(analabs)
Canopus 1				1240		A2	E Dampier Terr.	Goldwyer					0.23		0.00	0.00	wcr/amdel
Canopus 1				1250		A2	E Dampier Terr.	Goldwyer	303	0.1	0.15	0.94	0.34	0.40	29.41	44.12	wcr/amdel
Canopus 1				1260	1270	A2	E Dampier Terr.	Goldwyer	nd	nd	nd	nd	0.23	nd	nd	nd	WCR(analabs)
Canopus 1				1260		A2	E Dampier Terr.	Goldwyer	284	0.21	0.37	0.98	0.32	0.36	65.63	115.63	wcr/amdel
Canopus 1				1270		A2	E Dampier Terr.	Goldwyer					0.22		0.00	0.00	wcr/amdel
Canopus 1				1280	1290	A2	E Dampier Terr.	Goldwyer	nd	nd	nd	nd	0.35	nd	nd	nd	WCR(analabs)
Canopus 1				1285		A2	E Dampier Terr.	Goldwyer					0.24		0.00	0.00	wcr/amdel
Canopus 1				1290		A2	E Dampier Terr.	Goldwyer					0.26		0.00	0.00	wcr/amdel
Canopus 1				1300	1310	A2	E Dampier Terr.	Goldwyer	nd	nd	nd	nd	0.26	nd	nd	nd	WCR(analabs)
Canopus 1				1305		A2	E Dampier Terr.	Goldwyer					0.24		0.00	0.00	wcr/amdel
Canopus 1				1315		A2	E Dampier Terr.	Goldwyer					0.22		0.00	0.00	wcr/amdel
Canopus 1				1320	1330	A2	E Dampier Terr.	Goldwyer	nd	nd	nd	nd	0.3	nd	nd	nd	WCR(analabs)
Canopus 1				1320		A2	E Dampier Terr.	Goldwyer	226	0.11	0.09	0.5	0.36	0.55	30.56	25.00	wcr/amdel

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Canopus 1				1325		A2	E Dampler Terr.	Goldwyer					0.26		0.00	0.00	wcr/amdel
Canopus 1				1335		A2	E Dampler Terr.	Goldwyer					0.29		0.00	0.00	wcr/amdel
Canopus 1				1340	1350	A2	E Dampler Terr.	Goldwyer	nd	nd	nd	nd	0.33	nd	nd	nd	WCR(analabs)
Canopus 1				1345		A2	E Dampler Terr.	Goldwyer	401	0.15	0.31	0.51	0.31	0.33	48.39	100.00	wcr/amdel
Canopus 1				1350		A2	E Dampler Terr.	Goldwyer	368	0.14	0.38	0.44	0.4	0.27	35.00	95.00	wcr/amdel
Canopus 1				1360	1370	A2	E Dampler Terr.	Goldwyer	nd	nd	nd	nd	0.33	nd	nd	nd	WCR(analabs)
Canopus 1				1360		A2	E Dampler Terr.	Goldwyer	362	0.13	0.42	0.79	0.41	0.24	31.71	102.44	wcr/amdel
Canopus 1				1370		A2	E Dampler Terr.	Goldwyer	399	0.16	0.45	0.77	0.4	0.26	40.00	112.50	wcr/amdel
Canopus 1				1380	1390	A2	E Dampler Terr.	Goldwyer	nd	nd	nd	nd	0.34	nd	nd	nd	WCR(analabs)
Canopus 1				1380		A2	E Dampler Terr.	Goldwyer	361	0.23	0.45	0.5	0.4	0.34	57.50	112.50	wcr/amdel
Canopus 1				1390		A2	E Dampler Terr.	Goldwyer	431	0.18	0.33	0.48	0.3	0.35	60.00	110.00	wcr/amdel
Canopus 1				1400	1410	A2	E Dampler Terr.	Goldwyer Carb	nd	nd	nd	nd	0.32	nd	nd	nd	WCR(analabs)
Canopus 1				1400		A2	E Dampler Terr.	Goldwyer Carb.					0.29		0.00	0.00	wcr/amdel
Canopus 1				1410		A2	E Dampler Terr.	Goldwyer Carb	433	0.13	0.31	0.54	0.4	0.30	32.50	77.50	wcr/amdel
Canopus 1				1420	1430	A2	E Dampler Terr.	Goldwyer Carb	nd	nd	nd	nd	0.36	nd	nd	nd	WCR(analabs)
Canopus 1				1420		A2	E Dampler Terr.	Goldwyer Carb	435	0.21	0.49	0.46	0.42	0.30	50.00	116.67	wcr/amdel
Canopus 1				1430		A2	E Dampler Terr.	Goldwyer Carb	421	0.18	0.41	0.46	0.37	0.31	48.65	110.81	wcr/amdel
Canopus 1				1440	1450	A2	E Dampler Terr.	Goldwyer Carb	nd	nd	nd	nd	0.25	nd	nd	nd	WCR(analabs)
Canopus 1				1440		A2	E Dampler Terr.	Goldwyer Carb	339	0.12	0.21	0.78	0.3	0.36	40.00	70.00	wcr/amdel
Canopus 1				1450		A2	E Dampler Terr.	Goldwyer Carb.					0.27		0.00	0.00	wcr/amdel
Canopus 1				1460	1470	A2	E Dampler Terr.	Goldwyer Carb	nd	nd	nd	nd	0.34	nd	nd	nd	WCR(analabs)
Canopus 1				1460		A2	E Dampler Terr.	Goldwyer Carb	413	0.14	0.29	0.83	0.3	0.33	46.67	96.67	wcr/amdel
Canopus 1				1470		A2	E Dampler Terr.	Goldwyer Carb	348	0.14	0.29	0.42	0.32	0.33	43.75	90.63	wcr/amdel
Canopus 1				1475		A2	E Dampler Terr.	Low Goldwyer	340	0.13	0.23	0.47	0.31	0.36	41.94	74.19	wcr/amdel
Canopus 1				1480	1490	A2	E Dampler Terr.	Low Goldwyer	nd	nd	nd	nd	0.28	nd	nd	nd	WCR(analabs)
Canopus 1				1485		A2	E Dampler Terr.	Low Goldwyer					0.29		0.00	0.00	wcr/amdel
Canopus 1				1490		A2	E Dampler Terr.	Low Goldwyer	428	0.11	0.32	0.76	0.31	0.26	35.48	103.23	wcr/amdel
Canopus 1				1500	1510	A2	E Dampler Terr.	Low Goldwyer	nd	nd	nd	nd	0.23	nd	nd	nd	WCR(analabs)
Canopus 1				1500		A2	E Dampler Terr.	Low Goldwyer					0.23		0.00	0.00	wcr/amdel
Canopus 1				1510		A2	E Dampler Terr.	Low Goldwyer					0.27		0.00	0.00	wcr/amdel
Canopus 1				1520	1530	A2	E Dampler Terr.	Low Goldwyer	nd	nd	nd	nd	0.29	nd	nd	nd	WCR(analabs)
Canopus 1				1520		A2	E Dampler Terr.	Low Goldwyer					0.28		0.00	0.00	wcr/amdel
Canopus 1				1530		A2	E Dampler Terr.	Low Goldwyer					0.28		0.00	0.00	wcr/amdel

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Canopus 1				1540	1550	A2	E Dampier Terr.	Low Goldwyer	nd	nd	nd	nd	0.32	nd	nd	nd	WCR(analabs)
Canopus 1				1540		A2	E Dampier Terr.	Low Goldwyer	406	0.11	0.24	0.44	0.3	0.31	36.67	80.00	wcr/amdel
Canopus 1				1550		A2	E Dampier Terr.	Low Goldwyer	433	0.12	0.35	0.74	0.35	0.26	34.29	100.00	wcr/amdel
Canopus 1				1560	1570	A2	E Dampier Terr.	Low Goldwyer	nd	nd	nd	nd	0.33	nd	nd	nd	WCR(analabs)
Canopus 1				1560		A2	E Dampier Terr.	Low Goldwyer	413	0.08	0.27	1.11	0.32	0.23	25.00	84.38	wcr/amdel
Canopus 1				1570		A2	E Dampier Terr.	Low Goldwyer	426	0.13	0.36	0.62	0.43	0.27	30.23	83.72	wcr/amdel
Canopus 1				1580		A2	E Dampier Terr.	Low Goldwyer	405	0.11	0.28	0.57	0.32	0.28	34.38	87.50	wcr/amdel
Canopus 1				1590	1600	A2	E Dampier Terr.	Low Goldwyer	nd	nd	nd	nd	0.38	nd	nd	nd	WCR(analabs)
Canopus 1				1590		A2	E Dampier Terr.	Low Goldwyer	430	0.17	0.54	0.86	0.4	0.24	42.50	135.00	wcr/amdel
Canopus 1				1600		A2	E Dampier Terr.	Low Goldwyer	404	0.12	0.31	0.33	0.34	0.28	35.29	91.18	wcr/amdel
Canopus 1				1610	1620	A2	E Dampier Terr.	Low Goldwyer	nd	nd	nd	nd	0.43	nd	nd	nd	WCR(analabs)
Canopus 1				1610		A2	E Dampier Terr.	Low Goldwyer	368	0.11	0.23	0.28	0.36	0.32	30.56	63.89	wcr/amdel
Canopus 1				1620		A2	E Dampier Terr.	Low Goldwyer	386	0.12	0.28	0.73	0.39	0.30	30.77	71.79	wcr/amdel
Canopus 1				1630	1640	A1	E Dampier Terr.	Willara Fm	422	0.41	0.63	0.56	0.7	0.39	90.00	80.00	WCR(analabs)
Canopus 1				1650	1660	A1	E Dampier Terr.	Willara Fm	420	0.57	0.77	0.55	0.81	0.43	95.00	67.00	WCR(analabs)
Canopus 1				1670	1680	A1	E Dampier Terr.	Willara Fm	425	0.89	1.01	0.64	1.16	0.47	87.00	55.00	WCR(analabs)
Canopus 1				1690	1700	A1	E Dampier Terr.	Willara Fm	434	0.34	0.37	0.62	0.75	0.48	49.00	82.00	WCR(analabs)
Canopus 1				1695		A1	E Dampier Terr.	Willara Fm	430	0.6	1.09	0.29	1.4	0.36	77.00	20.00	WCR(analabs)
Canopus 1				1710	1720	A1	E Dampier Terr.	Willara Fm	nd	nd	nd	nd	0.36	nd	nd	nd	WCR(analabs)
Canopus 1				1730	1740	A1	E Dampier Terr.	Willara Fm	nd	nd	nd	nd	0.4	nd	nd	nd	WCR(analabs)
Canopus 1				1760	1770	A1	E Dampier Terr.	Willara Fm	nd	nd	nd	nd	0.29	nd	nd	nd	WCR(analabs)

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Carina 1				440		nd	Broome Plat.	Grant "B"					0.13				Analabs/WCR
Carina 1				460		nd	Broome Plat.	Grant "B"	421	0.01	0.16	0.67	0.56	0.06	28	119	Analabs/WCR
Carina 1				480		nd	Broome Plat.	Grant "B"	417	0.07	0.41	0.51	0.67	0.15	61	76	Analabs/WCR
Carina 1				500		nd	Broome Plat.	Grant "A"					0.4				Analabs/WCR
Carina 1				520		nd	Broome Plat.	Grant "A"					0.36				Analabs/WCR
Carina 1				540		nd	Broome Plat.	Grant "A"					0.36				Analabs/WCR
Carina 1				560		nd	Broome Plat.	Grant "A"					0.33				Analabs/WCR
Carina 1				580		nd	Broome Plat.	Grant "A"					0.23				Analabs/WCR
Carina 1				600		nd	Broome Plat.	Grant "A"					0.12				Analabs/WCR
Carina 1				610		nd	Broome Plat.	Grant "A"					0.24				Analabs/WCR
Carina 1				650		nd	Broome Plat.	Grant "A"					0.16				Analabs/WCR
Carina 1				680		nd	Broome Plat.	Tandagoo Fm					0.18				Analabs/WCR
Carina 1				700		nd	Broome Plat.	Carlbuddy Fm (A)					0.11				Analabs/WCR
Carina 1				730		nd	Broome Plat.	Carlbuddy Fm (A)					0.13				Analabs/WCR
Carina 1				750		nd	Broome Plat.	Carlbuddy Fm (A)					0.16				Analabs/WCR
Carina 1				770		nd	Broome Plat.	Carlbuddy Fm (A)					0.16				Analabs/WCR
Carina 1				800		nd	Broome Plat.	Carlbuddy Fm (A)					0.14				Analabs/WCR
Carina 1				820		nd	Broome Plat.	Carlbuddy Fm (A)					0.21				Analabs/WCR
Carina 1				840		nd	Broome Plat.	Carlbuddy Fm (A)					0.2				Analabs/WCR
Carina 1				860		nd	Broome Plat.	Carlbuddy Fm (A)					0.18				Analabs/WCR
Carina 1				880		nd	Broome Plat.	Carlbuddy Fm (A)					0.21				Analabs/WCR
Carina 1				900		nd	Broome Plat.	Carlbuddy Fm (A)					0.12				Analabs/WCR
Carina 1				920		nd	Broome Plat.	Carlbuddy Fm (B)					0.14				Analabs/WCR
Carina 1				940		nd	Broome Plat.	Carlbuddy Fm (B)					0.16				Analabs/WCR
Carina 1				960		nd	Broome Plat.	Carlbuddy Fm (B)					0.16				Analabs/WCR
Carina 1				980		nd	Broome Plat.	Carlbuddy Fm (B)					0.16				Analabs/WCR
Carina 1				1000		nd	Broome Plat.	Carlbuddy Fm (B)					0.21				Analabs/WCR
Carina 1				1020		nd	Broome Plat.	Carlbuddy Fm (B)					0.2				Analabs/WCR
Carina 1				1040		nd	Broome Plat.	Carlbuddy Fm (B)					0.18				Analabs/WCR
Carina 1				1060		nd	Broome Plat.	Carlbuddy Fm (B)					0.18				Analabs/WCR
Carina 1				1080		nd	Broome Plat.	Carlbuddy Fm (B)					0.22				Analabs/WCR
Carina 1				1100		nd	Broome Plat.	Carlbuddy Fm (B)					0.2				Analabs/WCR
Carina 1				1120		nd	Broome Plat.	Carlbuddy Fm (B)					0.2				Analabs/WCR
Carina 1				1140		nd	Broome Plat.	Carlbuddy Fm (B)					0.22				Analabs/WCR
Carina 1				1150		nd	Broome Plat.	Carlbuddy Fm (B)					0.27				Analabs/WCR
Carina 1				1190		nd	Broome Plat.	Carlbuddy Fm (B)					0.17				Analabs/WCR

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	Imax	S1	S2	S3	TOC	PI	HI	OI	where from
Carina 1				1220		nd	Broome Plat.	Carlbuddy Fm (B)					0.14				Analabs/WCR
Carina 1				1240		nd	Broome Plat.	Carlbuddy Fm (C)					0.17				Analabs/WCR
Carina 1				1260		nd	Broome Plat.	Carlbuddy Fm (C)					0.14				Analabs/WCR
Carina 1				1280		nd	Broome Plat.	Carlbuddy Fm (C)					0.22				Analabs/WCR
Carina 1				1300		nd	Broome Plat.	Carlbuddy Fm (C)					0.11				Analabs/WCR
Carina 1				1320		nd	Broome Plat.	Carlbuddy Fm (C)					0.14				Analabs/WCR
Carina 1				1340		nd	Broome Plat.	Carlbuddy Fm (C)					0.11				Analabs/WCR
Carina 1				1370		nd	Broome Plat.	Carlbuddy Fm (D)					0.17				Analabs/WCR
Carina 1				1390		nd	Broome Plat.	Carlbuddy Fm (D)					0.19				Analabs/WCR
Carina 1				1410		nd	Broome Plat.	Carlbuddy Fm (D)					0.16				Analabs/WCR
Carina 1				1430		nd	Broome Plat.	Carlbuddy Fm (D)					0.15				Analabs/WCR
Carina 1				1450		nd	Broome Plat.	Carlbuddy Fm (D)					0.16				Analabs/WCR
Carina 1				1470		nd	Broome Plat.	Nita Fm					0.12				Analabs/WCR
Carina 1				1500		nd	Broome Plat.	Nita Fm					0.18				Analabs/WCR
Carina 1				1520		nd	Broome Plat.	Nita Fm					0.21				Analabs/WCR
Carina 1				1540		nd	Broome Plat.	Nita Fm					0.24				Analabs/WCR
Carina 1				1560		nd	Broome Plat.	Goldwyer Fm					0.36				Analabs/WCR
Carina 1				1580		nd	Broome Plat.	Goldwyer Fm					0.32				Analabs/WCR
Carina 1				1600		nd	Broome Plat.	Goldwyer Fm	419	0.49	0.71	0.73	0.5	0.41	142	146	Analabs/WCR

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Cow Bore 1				574	580	H	Jurgurra Terrace	Grant	424	0.05	0.17	0.58	0.41	0.23	41	141	WA Centre Pet Expl.
Cow Bore 1				808	814	H	Jurgurra Terrace	Grant	418	0.09	0.16	0.26	0.45	0.36	36	58	WA Centre Pet Expl.
Cow Bore 1				1090	1096	H	Jurgurra Terrace	Grant	345	0.06	0.08	0.14	0.27	0.43	30	52	WA Centre Pet Expl.
Cow Bore 1				1309	1315	F	Jurgurra Terrace	Laurel Fm	414	0.05	0.25	0.72	0.53	0.19	47	136	WA Centre Pet Expl.
Cow Bore 1				1504	1510	F	Jurgurra Terrace	Laurel Fm	425	0.06	0.27	0.52	0.68	0.18	40	76	WA Centre Pet Expl.
Cow Bore 1				1600	1609	F	Jurgurra Terrace	Laurel Fm	427	0.06	0.32	0.51	0.73	0.16	44	70	WA Centre Pet Expl.
Cow Bore 1				1705	1708	F	Jurgurra Terrace	Laurel Fm	437	0.11	0.22	0.37	0.88	0.17	59	42	WA Centre Pet Expl.
Cow Bore 1					1810	F	Jurgurra Terrace	Laurel Fm		0.49	0.64						BP Res Cent
Cow Bore 1				2110	2116	F	Jurgurra Terrace	Laurel Fm	438	0.15	0.32	0.22	0.8	0.32	40	28	WA Centre Pet Expl.
Cow Bore 1				2407	2416	F	Jurgurra Terrace	Famennian undiff.	434	0.22	0.41	0.31	0.87	0.35	47	36	WA Centre Pet Expl.

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Crystal Creek 1				1413.5		C	E Dampler Ter	Clapp Ridge Sh.	nd	nd	nd	nd	0.14	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1575.3		B1	E Dampler Ter	Nita	nd	nd	nd	nd	0.17	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1593.46		B1	E Dampler Ter	Nita(core)	nd	nd	nd	nd	0.05	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1596.81		B1	E Dampler Ter	Nita(core)	410	1.39	0.83	1.39	0.26	0.63	319	534	wcr/orgchem
Crystal Creek 1				1603.26		B1	E Dampler Ter	Nita(core)	410	2.74	1.07	1.03	0.32	0.72	334	321	wcr/orgchem
Crystal Creek 1				1607.46		B1	E Dampler Ter	Nita(core)	nd	nd	nd	nd	0.1	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1609.58		B1	E Dampler Ter	Nita(core)	nd	nd	nd	nd	0.12	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1610.06		B1	E Dampler Ter	Nita(core)	nd	nd	nd	nd	0.15	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1751.3		A2	E Dampler Ter	Nita	nd	nd	nd	nd	0.15	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1818		A2	E Dampler Ter	Goldwyer	nd	nd	nd	nd	0.19	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1890		A2	E Dampler Ter	Goldwyer	445	0.21	1.12	0.1	0.53	0.16	211	18	wcr/orgchem
Crystal Creek 1				1923.2		A2	E Dampler Ter	Goldwyer	nd	nd	nd	nd	0.36	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1940		A2	E Dampler Ter	Goldwyer	nd	nd	nd	nd	0.61	nd	nd	nd	wcr/orgchem
Crystal Creek 1				1983		A2	E Dampler Ter	Goldwyer	445	0.34	1.2	0.23	0.62	0.22	193	37	wcr/orgchem
Crystal Creek 1				2082.7		A2	E Dampler Ter	Goldwyer	nd	nd	nd	nd	0.33	nd	nd	nd	wcr/orgchem
Crystal Creek 1				2117		A2	E Dampler Ter	Goldwyer	nd	nd	nd	nd	0.17	nd	nd	nd	wcr/orgchem
Crystal Creek 1				2166.5		A2	E Dampler Ter	Goldwyer	432	0.51	1.34	0.3	1.08	0.28	124	27	wcr/orgchem
Crystal Creek 1				2181		A2	E Dampler Ter	Goldwyer	453	1.51	2.61	0.05	3.37	0.37	77	1	wcr/orgchem
Crystal Creek 1				2202.5		A2	E Dampler Ter	Goldwyer	418	0.24	0.52	0.05	0.58	0.32	89	8	wcr/orgchem
Crystal Creek 1				2230.5		A2	E Dampler Ter	Goldwyer	417	0.29	0.46	0.23	0.69	0.39	66	33	wcr/orgchem
Crystal Creek 1				2246.5		A2	E Dampler Ter	Goldwyer	429	0.34	0.55	0.26	0.94	0.38	58	27	wcr/orgchem
Crystal Creek 1				2265		A2	E Dampler Ter	Willara	nd	nd	nd	nd	0.16	nd	nd	nd	wcr/orgchem
Crystal Creek 1				2357.9		A1	E Dampler Ter	Willara(core)	nd	nd	nd	nd	0.31	nd	nd	nd	wcr/orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Liho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Cudalgarra 1	65755			1261	1267	B1	Willara sub-basin	Carribuddy									orgchem
Cudalgarra 1	4535			1400.5	1400.65	A2	Willara sub-basin	Niita Fm	414	0.04	0.1	2.13					orgchem
Cudalgarra 1	5085			1400.5	1400.65	A2	Willara sub-basin	Niita Fm	277	0.08	0.09	1.83					orgchem
Cudalgarra 1	4536			1400.9	1401.1	A2	Willara sub-basin	Niita Fm	448	2.8	7.15	2.47	2.05		348.78	120.49	orgchem
Cudalgarra 1	4537			1401.25	1401.35	A2	Willara sub-basin	Niita Fm	458	0.35	0.41	2.79					orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Cudalgarra 2	64584			1310.37	1310.55	B1	Willara sub-basin	Carrilbuddy									orgchem
Cudalgarra 2	64585			1413.53	1413.7	A2	Willara sub-basin	Goldwyer									orgchem
Cudalgarra 2	64586			1462.16	1462.36	A2	Willara sub-basin	Goldwyer									orgchem
Cudalgarra 2	64587			1462.16	1462.36	A2	Willara sub-basin	Goldwyer									orgchem
Cudalgarra 2	4538			1469.7	1469.8	A2	Willara sub-basin	Goldwyer	301	0.02		1.39					orgchem
Cudalgarra 2	64588			1471.33	1471.43	A2	Willara sub-basin	Goldwyer									orgchem
Cudalgarra 2	64589			1477.55	1477.67	A2	Willara sub-basin	Goldwyer									orgchem
Cudalgarra 2	4539			1480.7	1480.7	A2	Willara sub-basin	Goldwyer	249	0.04		1.97					orgchem
Cudalgarra 2	5086			1480.7	1480.7	A2	Willara sub-basin	Goldwyer									orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Dampiera 1A				1160.95		D	Barbwire Terr.	Pillara basinal facies					0.22				WMC rep
Dampiera 1A				1197.3		D	Barbwire Terr.	Pillara basinal facies					0.29				WMC rep
Dampiera 1A				1221		D	Barbwire Terr.	Pillara basinal facies	431				0.54		174		WMC rep
Dampiera 1A				1251.8		D	Barbwire Terr.	Pillara basinal facies	437				0.52		255		WMC rep
Dampiera 1A				1256.9		D	Barbwire Terr.	Pillara basinal facies					0.33				WMC rep
Dampiera 1A				1280.9		D	Barbwire Terr.	Pillara basinal facies					0.27				WMC rep
Dampiera 1A				1286.8		D	Barbwire Terr.	Pillara basinal facies					0.39				WMC rep
Dampiera 1A				1364.1		D	Barbwire Terr.	Pillara basinal facies					0.3				WMC rep
Dampiera 1A				1478.9		D	Barbwire Terr.	Pillara basinal facies					0.2				WMC rep
Dampiera 1A				1486.7		D	Barbwire Terr.	Pillara basinal facies					0.26				WMC rep
Dampiera 1A				1580.5		D	Barbwire Terr.	Pillara basinal facies					0.24				WMC rep
Dampiera 1A				1595.1		D	Barbwire Terr.	Pillara basinal facies					0.39				WMC rep
Dampiera 1A				1675.2		D	Barbwire Terr.	Pillara basinal facies					0.23				WMC rep
Dampiera 1A				1675.3		D	Barbwire Terr.	Pillara basinal facies					0.08				WMC rep
Dampiera 1A				1749.3		D	Barbwire Terr.	Boab sst (Lycopod coals)	441				0.78		57	14	WMC rep
Dampiera 1A				1749.75		D	Barbwire Terr.	Boab sst (Lycopod coals)	443				1.46		34	19	WMC rep
Dampiera 1A				1756.75		D	Barbwire Terr.	Boab sst (Lycopod coals)	441				0.92		32	17	WMC rep
Dampiera 1A				1757.2		D	Barbwire Terr.	Boab sst (Lycopod coals)	458				3.24		33	16	WMC rep
Dampiera 1A				1770.8		D	Barbwire Terr.	Boab sst (Lycopod coals)	447				2.77		22	22	WMC rep

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Darriwell 1	65691			571	571	H	Willara sub-basin	Grant (unit II)					0.3				orgchem
Darriwell 1	65692			611	611	H	Willara sub-basin	Grant (unit II)					0.6				orgchem
Darriwell 1	65693			635	635	H	Willara sub-basin	Grant (unit II)					0.1				orgchem
Darriwell 1	65694			662	662	H	Willara sub-basin	Grant (unit II)					0.3				orgchem
Darriwell 1	65695			668	668	H	Willara sub-basin	Grant (unit II)					0.05				orgchem
Darriwell 1	65696			721	721	H	Willara sub-basin	Grant (unit II)					0.2				orgchem
Darriwell 1	65697			773	773	H	Willara sub-basin	Grant (unit II)					0.08				orgchem
Darriwell 1	65698			1010	1010	G	Willara sub-basin	Grant (D Birk)					0				orgchem
Darriwell 1	65699			1052	1052	G	Willara sub-basin	Grant (D Birk)					0				orgchem
Darriwell 1	65700			1193.3	1193.3	G	Willara sub-basin	Grant (D Birk)					0				orgchem
Darriwell 1	65702			1450	1450	B1	Willara sub-basin	Carlbuddy					0				orgchem
Darriwell 1	65701			1451.6	1451.6	B1	Willara sub-basin	Carlbuddy					0				orgchem
Darriwell 1	65703			1494.1	1494.1	A2	Willara sub-basin	Nlita					0				orgchem
Darriwell 1	65706			1575	1575	A2	Willara sub-basin	Goldwyer	416	0.11	0.25	0.36	0.19				orgchem
Darriwell 1	65707			1575	1575	A2	Willara sub-basin	Goldwyer	477	0.05	0.2	0.25	0.16				orgchem
Darriwell 1	65704			1576.5	1576.5	A2	Willara sub-basin	Goldwyer					0				orgchem
Darriwell 1	65705			1588.5	1588.5	A2	Willara sub-basin	Goldwyer	349	0.14	0.69	0.83	0.13				orgchem

Well Name	Other Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Dodonea 1	WM 3069				1033.12	D	Barbwire Terr.	Mellinjerle	426	0.92	12.11	0.61	4.00	0.07	302	15	WMC/Amdel
Dodonea 1	WM 3070				1537.8	A1	Barbwire Terr.	Goldwyer Fm	441	1.11	23.56		3.60	0.04	654		foster et al
Dodonea 1	WM 3071				1538.28	A1	Barbwire Terr.	Goldwyer Fm	442	0.75	8.34		1.70	0.08	490		WMC/foster et al
Dodonea 1	WM 3073				1539.67	A2	Barbwire Terr.	Goldwyer Fm	442	0.94	10.30		1.80	0.08	572		WMC/foster et al
Dodonea 1	WM 3074				1539.98	A2	Barbwire Terr.	Goldwyer Fm	441	0.81	12.84		2.10	0.06	611		WMC/foster et al
Dodonea 1	WM 3075				1540.1	A2	Barbwire Terr.	Goldwyer Fm	440	1.25	28.32		4.05	0.04	699		WMC/foster et al
Dodonea 1	WM 3076				1541.59	A2	Barbwire Terr.	Goldwyer Fm	443	0.18	1.79		0.60	0.09	298		WMC/foster et al
Dodonea 1					1541.95	A2	Barbwire Terr.	Goldwyer Fm					0.83		267		WMC
Dodonea 1					1542.31	A2	Barbwire Terr.	Goldwyer Fm					0.67		302		WMC
Dodonea 1	WM 3078				1542.31	A2	Barbwire Terr.	Goldwyer Fm	444	0.26	2.64		0.87	0.09	303		foster et al
Dodonea 1	WM 3079				1542.48	A2	Barbwire Terr.	Goldwyer Fm	442	0.35	2.98		1.05	0.11	283		foster et al
Dodonea 1	WM 3077				1542.95	A2	Barbwire Terr.	Goldwyer Fm	443	0.24	2.22		0.83	0.1	267		foster et al
Dodonea 1					1546.24	A2	Barbwire Terr.	Goldwyer Fm					1.40		487		WMC
Dodonea 1					1546.77	A2	Barbwire Terr.	Goldwyer Fm					1.50		471		WMC
Dodonea 1	WM 3080				1548.24	A2	Barbwire Terr.	Goldwyer Fm	444	0.59	6.83		1.40	0.08	487		foster et al
Dodonea 1	WM 3081				1548.77	A2	Barbwire Terr.	Goldwyer Fm	443	0.62	7.07		1.50	0.08	471		foster et al
Dodonea 1	WM 3082				1548.99	A2	Barbwire Terr.	Goldwyer Fm	441	0.64	2.06		0.74	0.24	278		foster et al
Dodonea 1	WM 3083				2034.74	A1	Barbwire Terr.	Nambeet	461	0.01	0.10	0.43	0.17	0.09	58	252	WMC/Amdel
Dodonea 1	WM 3084				2038.02	A1	Barbwire Terr.	Nambeet	491	0.02	0.15	0.15	0.24	0.12	62	62	WMC/Amdel
Dodonea 1	WM 3085				2040.89	A1	Barbwire Terr.	Nambeet	345	0.01	0.03	0.84	0.20	0.25	15	420	WMC/Amdel

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
East Crab Creek 1				1446	1455	E	Dampler Terr.	Famennian					0.08				wcr/analabs
East Crab Creek 1				1473	1482	E	Dampler Terr.	Famennian					0.11				wcr/analabs
East Crab Creek 1				1500	1509	E	Dampler Terr.	Famennian					0.14				wcr/analabs
East Crab Creek 1				1527	1536	E	Dampler Terr.	Famennian					0.12				wcr/analabs
East Crab Creek 1				1554	1565	E	Dampler Terr.	Famennian					0.14				wcr/analabs
East Crab Creek 1				1581	1590	E	Dampler Terr.	Famennian					0.12				wcr/analabs
East Crab Creek 1				1608	1617	E	Dampler Terr.	Famennian					0.17				wcr/analabs
East Crab Creek 1				1635	1644	E	Dampler Terr.	Famennian					0.18				wcr/analabs
East Crab Creek 1				1662	1671	E	Dampler Terr.	Famennian					0.15				wcr/analabs
East Crab Creek 1				1689	1698	E	Dampler Terr.	Famennian					0.15				wcr/analabs
East Crab Creek 1				2391	2400	E	Dampler Terr.	Pillara Fm					0.07				wcr/analabs
East Crab Creek 1				2427	2436	E	Dampler Terr.	Pillara Fm					0.08				wcr/analabs
East Crab Creek 1				2451	2460	E	Dampler Terr.	Pillara Fm					0.05				wcr/analabs
East Crab Creek 1				2487	2496	D	Dampler Terr.	Pillara Fm					0.08				wcr/analabs
East Crab Creek 1				2514	2523	D	Dampler Terr.	Pillara Fm					0.08				wcr/analabs
East Crab Creek 1				2541	2550	D	Dampler Terr.	Pillara Fm					0.12				wcr/analabs
East Crab Creek 1				2577	2586	D	Dampler Terr.	Pillara Fm					0.09				wcr/analabs
East Crab Creek 1				2604	2613	D	Dampler Terr.	Pillara Fm					0.07				wcr/analabs
East Crab Creek 1				2631	2640	D	Dampler Terr.	Pillara Fm					0.1				wcr/analabs
East Crab Creek 1				2658	2667	C	Dampler Terr.	Tandalgoo/Carlubby					0.07				wcr/analabs
East Crab Creek 1				2685	2694	B1	Dampler Terr.	Tandalgoo/Carlubby					0.11				wcr/analabs
East Crab Creek 1				2712	2721	B1	Dampler Terr.	Tandalgoo/Carlubby					0.09				wcr/analabs
East Crab Creek 1				2739	2748	B1	Dampler Terr.	Tandalgoo/Carlubby					0.14				wcr/analabs
East Crab Creek 1				2766	2775	B1	Dampler Terr.	Tandalgoo/Carlubby					0.17				wcr/analabs
East Crab Creek 1				2793	2802	B1	Dampler Terr.	Tandalgoo/Carlubby					0.17				wcr/analabs

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Edgar Range 1				841		A2	Damplert Terr.	Niita	427	0.02	0.03	0.79	0.15	0.50	20.00	526.00	Esso
Edgar Range 1	5583			925.1	926.6	A2	Damplert Terr.	Niita	371	1.04	1.02	0.66	0.3	0.50	340.00	220.00	Ogchem
Edgar Range 1					947.9	A2	Damplert Terr.	Goldwyer		0.4	0.1		0.17	0.80	59.00		BP Res Cent
Edgar Range 1	5576			948.6	948.7	A2	Damplert Terr.	Goldwyer	432	0.03	0.09	0.06	0.15	0.25	60.00	40.00	Ogchem
Edgar Range 1					948.8	A2	Damplert Terr.	Goldwyer		0.2	0.5		0.17	0.29	294.12		BP Res Cent
Edgar Range 1					949.1	A2	Damplert Terr.	Goldwyer		0.2	0.1		0.19	0.67	53.00		BP Res Cent
Edgar Range 1					949.5	A2	Damplert Terr.	Goldwyer		0.2	0.5		0.29	0.29	172.00		BP Res Cent
Edgar Range 1					950.4	A2	Damplert Terr.	Goldwyer		0.8	0.3		0.29	0.73	103.00		BP Res Cent
Edgar Range 1					951	A2	Damplert Terr.	Goldwyer		0.3	0.1		0.2	0.75	50.00		BP Res Cent
Edgar Range 1	5584			978.4	979.9	A2	Damplert Terr.	Goldwyer	404	0.27	0.25	0.71	0.24	0.52	104.17	295.83	Ogchem
Edgar Range 1	5585			1012	1013.5	A2	Damplert Terr.	Goldwyer					0.25		0.00	0.00	Ogchem
Edgar Range 1				1039		A2	Damplert Terr.	Goldwyer	377	0.06	0.13	0.4	0.19	0.33	68.00	210.00	Esso
Edgar Range 1					1042.7	A2	Damplert Terr.	Goldwyer		0.3	0.4		0.29	0.43	138.00		BP Res Cent
Edgar Range 1					1043.6	A2	Damplert Terr.	Goldwyer		0.2	0.5		0.36	0.29	139.00		BP Res Cent
Edgar Range 1	5577			1044.2	1044.3	A2	Damplert Terr.	Goldwyer	434	0.05	0.19		0.26	0.21	73.08	0.00	Ogchem
Edgar Range 1					1044.9	A2	Damplert Terr.	Goldwyer		0.4	0.5		0.4	0.44	125.00		BP Res Cent
Edgar Range 1					1045.2	A2	Damplert Terr.	Goldwyer		0.6	0.7		0.42	0.46	167.00		BP Res Cent
Edgar Range 1	5586			1048.5	1050.1	A2	Damplert Terr.	Goldwyer	432	0.12	0.18	0.12	0.26	0.40	69.23	46.15	Ogchem
Edgar Range 1	5586			1048.5	1050.1	A2	Damplert Terr.	Goldwyer	432	0.12	0.18	0.12	0.32	0.40	56.00	38.00	Ogchem
Edgar Range 1	5587			1080.5	1082.1	A2	Damplert Terr.	Goldwyer	433	0.11	0.15	0.02	0.23	0.42	65.22	8.70	Ogchem
Edgar Range 1				1136		A2	Damplert Terr.	Goldwyer	438	0.07	0.28	0.4	0.27	0.21	103.00	148.00	Esso
Edgar Range 1	5588			1144.5	1146.1	A2	Damplert Terr.	Goldwyer	426	0.41	0.39	0.26	0.33	0.51	118.18	78.79	Ogchem
Edgar Range 1					1188.7	A2	Damplert Terr.	Goldwyer		0.2			0.16				BP Res Cent

Edgar Range 1	5578			1188.9	1189	A2	Dampler Terr.	Goldwyer	380	0.04	0.06	0.2	0.12		50.00	166.67	Ogchem
Edgar Range 1					1189.6	A2	Dampler Terr.	Goldwyer		0.2			0.16				BP Res Cent
Edgar Range 1					1190.5	A2	Dampler Terr.	Goldwyer		0.1	0.2		1.1	0.33	18.00		BP Res Cent
Edgar Range 1					1191.2	A2	Dampler Terr.	Goldwyer		0.6	0.9		0.68	0.40	132.35		BP Res Cent
Edgar Range 1	5589			1214.6	1216.2	A2	Dampler Terr.	Goldwyer	435	0.12	0.29	0.05	0.34	0.29	85.29	14.71	Ogchem
Edgar Range 1				1264.9	1271	A2	Dampler Terr.	Goldwyer									BP Res Cent
Edgar Range 1	5590			1271	1272.6	A2	Dampler Terr.	Goldwyer	435	1.19	2.2	0.68	1.68	0.35	130.95	40.48	Ogchem
Edgar Range 1	5591			1306.1	1307.6	A2	Dampler Terr.	Goldwyer	435	0.93	1.15	0.83	1.17	0.45	98.29	70.94	Ogchem
Edgar Range 1				1313.6	1316.7	A2	Dampler Terr.	Goldwyer									BP Res Cent
Edgar Range 1	5592			1348.8	1350.3	A2	Dampler Terr.	Goldwyer	425	0.49	0.49	0.82	0.65	0.50	75.38	126.15	Ogchem
Edgar Range 1				1350		A2	Dampler Terr.	Goldwyer	367	0.03	0.07	0.62	0.16	0.30	43.00	387.00	Esso
Edgar Range 1					1356.4	A2	Dampler Terr.	Willara		0.1			0.69				BP Res Cent
Edgar Range 1					1357.6	A2	Dampler Terr.	Willara		0.1			0.07				BP Res Cent
Edgar Range 1					1358.6	A2	Dampler Terr.	Willara		0.1			0.22				BP Res Cent
Edgar Range 1				1676		A1	Dampler Terr.	Willara	375	0.04	0.04	0.22	0.19	0.50	21.00	115.00	Esso
Edgar Range 1	5579			1683.8	1683.9	A1	Dampler Terr.	Willara	274	0.03	0.03	0.07	0.22	0.50	13.64	31.82	Ogchem
Edgar Range 1				1773		A1	Dampler Terr.	Nambeet	275	0.03	0.08	0.32	0.44	0.30	18.00	72.00	Esso
Edgar Range 1	5580			1779.1	1779.2	A1	Dampler Terr.	Nambeet	481	0.23	0.19	0.08	1.32	0.55	14.39	6.06	Ogchemr
Edgar Range 1	5581			1780.8	1781	A1	Dampler Terr.	Nambeet	486	0.19	0.23	0.01	1.48	0.45	15.54	0.68	Ogchem
Edgar Range 1	5582			1785.2	1785.3	A1	Dampler Terr.	Nambeet	481	0.28	0.25	0.01	1.52	0.53	16.45	0.66	Ogchem
Edgar Range 1				1935		A1	Dampler Terr.	basement	434	0.09	1.69	0.29	2.39	0.05	70.00	12.00	Esso

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Ellendale 1	46480			1330		nd	Fitzroy Trough	Grant Fm	474	0.09	0.35		0.3				orgchem
Ellendale 1	46481			1530		nd	Fitzroy Trough	Anderson Fm	491	0.12	0.56		0.39				orgchem
Ellendale 1	46482			1570		nd	Fitzroy Trough	Laurel Fm	486	0.17	1.19		0.84				orgchem
Ellendale 1	46483			1590		nd	Fitzroy Trough	Laurel Fm	475	0.06	0.32		0.44				orgchem
Ellendale 1	46484			1610		nd	Fitzroy Trough	Laurel Fm	487	0.09	0.57		0.57				orgchem
Ellendale 1	46485			1630		nd	Fitzroy Trough	Laurel Fm	476	0.1	0.47		0.48				orgchem
Ellendale 1	46486			1650		nd	Fitzroy Trough	Laurel Fm	493	0.13	0.78		0.64				orgchem
Ellendale 1	46487			1670		nd	Fitzroy Trough	Laurel Fm	478	1.09	1.17		0.42				orgchem
Ellendale 1	46488			1690		nd	Fitzroy Trough	Laurel Fm	530	0.43	2.53		1.3				orgchem
Ellendale 1	46489			1710		nd	Fitzroy Trough	Laurel Fm	473	0.18	1.29		0.73				orgchem
Ellendale 1	46490			1730		nd	Fitzroy Trough	Laurel Fm	512	0.21	1.22		0.78				orgchem
Ellendale 1	46491			1750		nd	Fitzroy Trough	Laurel Fm	501	0.11	0.54		0.33				orgchem
Ellendale 1	46492			1770		nd	Fitzroy Trough	Laurel Fm	519	0.19	0.77		0.4				orgchem
Ellendale 1	46493			1790		nd	Fitzroy Trough	Laurel Fm	495	0.19	1.54		0.99				orgchem
Ellendale 1	46494			1810		nd	Fitzroy Trough	Laurel Fm	483	0.17	1		0.78				orgchem
Ellendale 1	46495			1830		nd	Fitzroy Trough	Laurel Fm	491	0.19	0.61		0.31				orgchem
Ellendale 1	46496			1850		nd	Fitzroy Trough	Laurel Fm	492	0.13	0.54		0.3				orgchem
Ellendale 1	46527			1860		nd	Fitzroy Trough	Laurel Fm					0.3				orgchem
Ellendale 1	46528			1880		nd	Fitzroy Trough	Laurel Fm					0.89				orgchem
Ellendale 1	46529			1900		nd	Fitzroy Trough	Laurel Fm					0.75				orgchem
Ellendale 1	46530			1920		nd	Fitzroy Trough	Laurel Fm					0.81				orgchem
Ellendale 1	46531			1940		nd	Fitzroy Trough	Laurel Fm					0.78				orgchem
Ellendale 1	46532			1960		nd	Fitzroy Trough	Laurel Fm					0.71				orgchem
Ellendale 1	4504			1965.1		nd	Fitzroy Trough	Laurel Fm	446	0.04	0.16	0.06					orgchem
Ellendale 1	4505			1971		nd	Fitzroy Trough	Laurel Fm	449	0.16	0.78						orgchem
Ellendale 1	46533			1980		nd	Fitzroy Trough	Laurel Fm					0.71				orgchem
Ellendale 1	46534			2000		nd	Fitzroy Trough	Laurel Fm					0.63				orgchem
Ellendale 1	46535			2020		nd	Fitzroy Trough	Laurel Fm					0.63				orgchem
Ellendale 1	46520			2040		nd	Fitzroy Trough	Laurel Fm					0.62				orgchem
Ellendale 1	46521			2060		nd	Fitzroy Trough	Luluigui equiv?					0.65				orgchem
Ellendale 1	46522			2080		nd	Fitzroy Trough	Luluigui equiv?					0.63				orgchem
Ellendale 1	46523			2100		nd	Fitzroy Trough	Luluigui equiv?					0.63				orgchem
Ellendale 1	4506			2100		nd	Fitzroy Trough	Luluigui equiv?	441	0.36	0.33	0.43					orgchem
Ellendale 1	46524			2120		nd	Fitzroy Trough	Luluigui equiv?					0.64				orgchem
Ellendale 1	46536			2140		nd	Fitzroy Trough	Luluigui equiv?					0.56				orgchem
Ellendale 1	46526			2180		nd	Fitzroy Trough	Luluigui equiv?					0.56				orgchem

Ellendale 1	46497		2195	nd	Fitzroy Trough	Luluigul equiv?	440	0.23	0.28		0.22		orgchem
Ellendale 1	46537		2215	nd	Fitzroy Trough	Luluigul equiv?					0.22		orgchem
Ellendale 1	46498		2285	nd	Fitzroy Trough	Luluigul equiv?	426	0.14	0.12		0.21		orgchem
Ellendale 1	46538		2300	nd	Fitzroy Trough	Luluigul equiv?					0.21		orgchem
Ellendale 1	46499		2305	nd	Fitzroy Trough	Luluigul equiv?	435	0.2	0.21		0.22		orgchem
Ellendale 1	46539		2320	nd	Fitzroy Trough	Luluigul equiv?					0.22		orgchem
Ellendale 1	46500		2395	nd	Fitzroy Trough	Luluigul equiv?	438	0.22	0.28		0.2		orgchem
Ellendale 1	46540		2400	nd	Fitzroy Trough	Luluigul equiv?					0.2		orgchem
Ellendale 1	46501		2625	nd	Fitzroy Trough	Luluigul equiv?	445	0.1	0.13		0.21		orgchem
Ellendale 1	46541		2640	nd	Fitzroy Trough	Luluigul equiv?					0.21		orgchem
Ellendale 1	46502		2645	nd	Fitzroy Trough	Luluigul equiv?	442	0.21	0.3		0.26		orgchem
Ellendale 1	46542		2660	nd	Fitzroy Trough	Luluigul equiv?					0.26		orgchem
Ellendale 1	46503		2665	nd	Fitzroy Trough	Luluigul equiv?	460	0.11	0.15		0.29		orgchem
Ellendale 1	46543		2680	nd	Fitzroy Trough	Luluigul equiv?					0.29		orgchem
Ellendale 1	46504		2685	nd	Fitzroy Trough	Luluigul equiv?	459	0.16	0.23		0.31		orgchem
Ellendale 1	46544		2700	nd	Fitzroy Trough	Luluigul equiv?					0.31		orgchem
Ellendale 1	46505		2705	nd	Fitzroy Trough	Dev. clastics	457	0.12	0.17		0.2		orgchem
Ellendale 1	46545		2710	nd	Fitzroy Trough	Dev. clastics					0.2		orgchem
Ellendale 1	46506		2715	nd	Fitzroy Trough	Dev. clastics	465	0.08	0.12		0.21		orgchem
Ellendale 1	46546		2720	nd	Fitzroy Trough	Dev. clastics					0.21		orgchem
Ellendale 1	46507		2725	nd	Fitzroy Trough	Dev. clastics	457	0.1	0.14		0.22		orgchem
Ellendale 1	46547		2730	nd	Fitzroy Trough	Dev. clastics					0.22		orgchem
Ellendale 1	46508		2745	nd	Fitzroy Trough	Dev. clastics	445	0.18	0.28		0.24		orgchem
Ellendale 1	46548		2750	nd	Fitzroy Trough	Dev. clastics					0.24		orgchem
Ellendale 1	46509		2755	nd	Fitzroy Trough	Dev. clastics	445	0.25	0.35		0.22		orgchem
Ellendale 1	46549		2760	nd	Fitzroy Trough	Dev. clastics					0.22		orgchem
Ellendale 1	46510		2765	nd	Fitzroy Trough	Dev. clastics	455	0.1	0.19		0.22		orgchem
Ellendale 1	46550		2770	nd	Fitzroy Trough	Dev. clastics					0.22		orgchem
Ellendale 1	46551		2810	nd	Fitzroy Trough	Dev. clastics					0.17		orgchem
Ellendale 1	46552		2910	nd	Fitzroy Trough	Dev. clastics					0.12		orgchem
Ellendale 1	46553		2930	nd	Fitzroy Trough	Dev. clastics					0.15		orgchem
Ellendale 1	46554		3010	nd	Fitzroy Trough	Dev. clastics					0.09		orgchem
Ellendale 1	46555		3110	nd	Fitzroy Trough	Dev. clastics					0.08		orgchem
Ellendale 1	46556		3190	nd	Fitzroy Trough	Dev. clastics					0.19		orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Eremophila 1				859.6		nd	Barbwire Terr.	Devonian (Gogo facies)					0.45				WMC
Eremophila 1	3244			884		nd	Barbwire Terr.	Devonian (Gogo facies)	434	0.14	1.66	0.47	0.69				orgchem
Eremophila 1				886.4		nd	Barbwire Terr.	Devonian (Gogo facies)					0.28				WMC
Eremophila 1				903.9		nd	Barbwire Terr.	Devonian (Gogo facies)					0.34				WMC
Eremophila 1				905.3		nd	Barbwire Terr.	Devonian (Gogo facies)	427				0.77		211	81	WMC
Eremophila 1				937.5		nd	Barbwire Terr.	Devonian (Gogo facies)					0.27				WMC
Eremophila 1				948.3		nd	Barbwire Terr.	Devonian (Gogo facies)					0.11				WMC
Eremophila 1				971.3		nd	Barbwire Terr.	Devonian (Gogo facies)	428	0.14	1.96	0.78	1.49	0.07	131	52	WAMPRI
Eremophila 1				992		nd	Barbwire Terr.	Devonian (Gogo facies)	424				0.5		94	112	WMC
Eremophila 1				1000.2		nd	Barbwire Terr.	Devonian (Gogo facies)	424				0.73		106	58	WMC
Eremophila 1				1011.9		nd	Barbwire Terr.	Devonian (Gogo facies)	423				0.5		82	78	WMC
Eremophila 1				1058.4		nd	Barbwire Terr.	Devonian (Gogo facies)	428	0.16	5.06	1.22	3.1	0.08	163	39	WAMPRI
Eremophila 1				1073.4		nd	Barbwire Terr.	Devonian (Gogo facies)	428				0.57		152	36	WMC
Eremophila 1				1141.9		nd	Barbwire Terr.	Devonian (Gogo facies)					0.15				WMC
Eremophila 1				1168		nd	Barbwire Terr.	Devonian (Gogo facies)					0.25				WMC
Eremophila 1				1176.5		nd	Barbwire Terr.	Devonian (Gogo facies)	430				0.61		214	116	WMC
Eremophila 1				1186.7		nd	Barbwire Terr.	Devonian (Gogo facies)	427	0.36	3.03	0.77	1.08	0.11	280	64	WAMPRI
Eremophila 1				1223		nd	Barbwire Terr.	Devonian (Gogo facies)	425				0.52		307	128	WMC
Eremophila 1				1231.9		nd	Barbwire Terr.	Devonian (Gogo facies)					0.24				WMC
Eremophila 1				1251.2		nd	Barbwire Terr.	Devonian (Gogo facies)					0.38				WMC

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Frankenstein 1				434.54		H	Tabletop Sh.	Grant Shales					0.23				Amdel/WCR
Frankenstein 1				451.49		H	Tabletop Sh.	Grant Shales					0.35				Amdel/WCR
Frankenstein 1				475.04		H	Tabletop Sh.	Grant Shales					0.21				Amdel/WCR
Frankenstein 1				530		H	Tabletop Sh.	Grant Shales	392	0.01	0.17	0.36	0.44	0.06	38	81	Amdel/WCR
Frankenstein 1				603		H	Tabletop Sh.	Grant	423	0	0.21	0.3	0.64	0	32	46	Amdel/WCR
Frankenstein 1				650	670	H	Tabletop Sh.	Grant	430	0	0.09	0.13	0.43	0	20	30	Amdel/WCR
Frankenstein 1				680		H	Tabletop Sh.	Grant	350	0.03	0.13	0.28	0.49	0.19	26	57	Amdel/WCR
Frankenstein 1				690	710	H	Tabletop Sh.	Grant					0.19				Amdel/WCR
Frankenstein 1				710	730	H	Tabletop Sh.	Grant					0.12				Amdel/WCR
Frankenstein 1				730	750	H	Tabletop Sh.	Grant					0.17				Amdel/WCR
Frankenstein 1				741.99		H	Tabletop Sh.	Grant					0.16				Amdel/WCR
Frankenstein 1				750	770	H	Tabletop Sh.	Grant					0.1				Amdel/WCR
Frankenstein 1				770	790	H	Tabletop Sh.	Grant					0.11				Amdel/WCR
Frankenstein 1				790	810	H	Tabletop Sh.	Grant					0.08				Amdel/WCR
Frankenstein 1				810	830	H	Tabletop Sh.	Grant					0.08				Amdel/WCR
Frankenstein 1				830	850	H	Tabletop Sh.	Grant					0.09				Amdel/WCR
Frankenstein 1				850	870	H	Tabletop Sh.	Grant					0.07				Amdel/WCR
Frankenstein 1				870	890	H	Tabletop Sh.	Grant					0.15				Amdel/WCR
Frankenstein 1				882.01		G	Tabletop Sh.	Grant					0.16				Amdel/WCR
Frankenstein 1				890	910	G	Tabletop Sh.	Grant					0.11				Amdel/WCR
Frankenstein 1				901.05		G	Tabletop Sh.	Grant					0.22				Amdel/WCR
Frankenstein 1				930	950	C	Tabletop Sh.	Tandalgoo Fm					0.11				Amdel/WCR
Frankenstein 1				1120	1140	C	Tabletop Sh.	Tandalgoo Fm					0.06				Amdel/WCR
Frankenstein 1				1140	1160	C	Tabletop Sh.	Worrall Fm					0.06				Amdel/WCR
Frankenstein 1				1160	1180	C	Tabletop Sh.	Worrall Fm					0.05				Amdel/WCR
Frankenstein 1				1180	1200	C	Tabletop Sh.	Worrall Fm					0.04				Amdel/WCR
Frankenstein 1				1200	1220	C	Tabletop Sh.	Worrall Fm					0.02				Amdel/WCR
Frankenstein 1				1220	1240	B2	Tabletop Sh.	Caribuddy group					0.04				Amdel/WCR
Frankenstein 1				1240	1260	B2	Tabletop Sh.	Caribuddy group					0.06				Amdel/WCR
Frankenstein 1				1260	1280	B2	Tabletop Sh.	Caribuddy group					0.05				Amdel/WCR
Frankenstein 1				1280	1300	B2	Tabletop Sh.	Caribuddy group					0.04				Amdel/WCR
Frankenstein 1				1379.32		B2	Tabletop Sh.	Caribuddy group					<.05				Amdel/WCR
Frankenstein 1				1880.04		B2	Tabletop Sh.	Caribuddy group					<.05				Amdel/WCR
Frankenstein 1				1920	1940	B1	Tabletop Sh.	Caribuddy group					0.13				Amdel/WCR
Frankenstein 1				1940	1960	B1	Tabletop Sh.	Caribuddy group					0.16				Amdel/WCR
Frankenstein 1				1960	1980	B1	Tabletop Sh.	Caribuddy group					0.16				Amdel/WCR
Frankenstein 1				1980	2000	B1	Tabletop Sh.	Caribuddy group					0.16				Amdel/WCR
Frankenstein 1				2000	2015	B1	Tabletop Sh.	Caribuddy group					0.14				Amdel/WCR
Frankenstein 1				2015	2033	B1	Tabletop Sh.	Caribuddy group					0.2				Amdel/WCR

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Frankenstein 1				2033	2051	B1	Tabletop Sh.	Caribuddy group					0.12				Amdel/WCR
Frankenstein 1				2051	2069	B1	Tabletop Sh.	Caribuddy group					0.03				Amdel/WCR
Frankenstein 1				2069	2087	B1	Tabletop Sh.	Caribuddy group					0.08				Amdel/WCR
Frankenstein 1				2087	2105	B1	Tabletop Sh.	Caribuddy group					0.09				Amdel/WCR
Frankenstein 1				2100.55		B1	Tabletop Sh.	Caribuddy group					0.17				Amdel/WCR
Frankenstein 1				2105	2123	B1	Tabletop Sh.	Caribuddy group					0.08				Amdel/WCR
Frankenstein 1				2123	2141	B1	Tabletop Sh.	Caribuddy group					0.07				Amdel/WCR
Frankenstein 1				2141	2159	B1	Tabletop Sh.	Caribuddy group					0.1				Amdel/WCR
Frankenstein 1				2159	2177	B1	Tabletop Sh.	Caribuddy group					0.07				Amdel/WCR
Frankenstein 1				2166.73		B1	Tabletop Sh.	Caribuddy group					0.15				Amdel/WCR
Frankenstein 1				2177	2195	B1	Tabletop Sh.	Caribuddy group					0.08				Amdel/WCR
Frankenstein 1				2186	2204	B1	Tabletop Sh.	Caribuddy group					0.07				Amdel/WCR
Frankenstein 1				2195	2218	B1	Tabletop Sh.	Caribuddy group					0.07				Amdel/WCR
Frankenstein 1				2203.15		B1	Tabletop Sh.	Caribuddy group					0.16				Amdel/WCR
Frankenstein 1				2213	2231	B1	Tabletop Sh.	Caribuddy group					0.07				Amdel/WCR
Frankenstein 1				2231	2249	A2	Tabletop Sh.	Nita Fm					0.08				Amdel/WCR
Frankenstein 1				2233.52		A2	Tabletop Sh.	Nita Fm					0.11				Amdel/WCR
Frankenstein 1				2249	2267	A2	Tabletop Sh.	Nita Fm					0.08				Amdel/WCR
Frankenstein 1				2249.47		A2	Tabletop Sh.	Nita Fm					0.1				Amdel/WCR
Frankenstein 1				2259.4		A2	Tabletop Sh.	Nita Fm					0.18				Amdel/WCR
Frankenstein 1				2267	2285	A2	Tabletop Sh.	Nita Fm					0.07				Amdel/WCR
Frankenstein 1				2285	2303	A2	Tabletop Sh.	Goldwyer (upper)					0.18				Amdel/WCR
Frankenstein 1				2303	2321	A2	Tabletop Sh.	Goldwyer (upper)					0.25				Amdel/WCR
Frankenstein 1				2321	2339	A2	Tabletop Sh.	Goldwyer (upper)					0.32				Amdel/WCR
Frankenstein 1				2327.14		A2	Tabletop Sh.	Goldwyer (upper)					0.3				Amdel/WCR
Frankenstein 1				2339	2357	A2	Tabletop Sh.	Goldwyer (upper)					0.25				Amdel/WCR
Frankenstein 1				2347		A2	Tabletop Sh.	Goldwyer (upper)					0.37				Amdel/WCR
Frankenstein 1				2357	2375	A2	Tabletop Sh.	Goldwyer (upper)					0.25				Amdel/WCR
Frankenstein 1				2375	2393	A2	Tabletop Sh.	Goldwyer (upper)					0.27				Amdel/WCR
Frankenstein 1				2393	2411	A2	Tabletop Sh.	Goldwyer (mid)					0.26				Amdel/WCR
Frankenstein 1				2397.99		A2	Tabletop Sh.	Goldwyer (mid)					0.19				Amdel/WCR
Frankenstein 1				2411	2429	A2	Tabletop Sh.	Goldwyer (mid)					0.27				Amdel/WCR
Frankenstein 1				2429	2447	A1	Tabletop Sh.	Goldwyer (mid)					0.31				Amdel/WCR
Frankenstein 1				2441		A1	Tabletop Sh.	Goldwyer (mid)	419	0.09	0.28	0.7	0.44	0.25	63	159	
Frankenstein 1				2441.59		A1	Tabletop Sh.	Goldwyer (mid)					0.44				Amdel/WCR
Frankenstein 1				2447	2456	A1	Tabletop Sh.	Goldwyer (mid)					0.25				Amdel/WCR
Frankenstein 1				2454.51		A1	Tabletop Sh.	Goldwyer (mid)					0.21				Amdel/WCR
Frankenstein 1				2465	2483	A1	Tabletop Sh.	Goldwyer (lower)					0.32				Amdel/WCR
Frankenstein 1				2479.46		A1	Tabletop Sh.	Goldwyer (lower)					<.05				Amdel/WCR
Frankenstein 1				2483	2501	A1	Tabletop Sh.	Goldwyer (lower)					0.3				Amdel/WCR

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Frankenstein 1				2501	2519	A1	Tabletop Sh.	Goldwyer (lower)					0.22				Amdel/WCR
Frankenstein 1				2517.88		A1	Tabletop Sh.	Goldwyer (lower)					0.26				Amdel/WCR
Frankenstein 1				2519	2537	A1	Tabletop Sh.	Goldwyer (lower)					0.15				Amdel/WCR
Frankenstein 1				2537	2555	A1	Tabletop Sh.	Goldwyer (lower)					0.27				Amdel/WCR
Frankenstein 1				2542.83		A1	Tabletop Sh.	Goldwyer (lower)					0.27				Amdel/WCR
Frankenstein 1				2555	2573	A1	Tabletop Sh.	Goldwyer (lower)					0.15				Amdel/WCR
Frankenstein 1				2571.25		A1	Tabletop Sh.	Goldwyer (lower)					0.22				Amdel/WCR
Frankenstein 1				2573	2591	A1	Tabletop Sh.	Goldwyer (lower)					0.17				Amdel/WCR
Frankenstein 1				2591	2609	A1	Tabletop Sh.	Goldwyer (lower)					0.19				Amdel/WCR
Frankenstein 1				2601.2		A1	Tabletop Sh.	Goldwyer (lower)					0.23				Amdel/WCR
Frankenstein 1				2609	2627	A1	Tabletop Sh.	Goldwyer (lower)					0.15				Amdel/WCR
Frankenstein 1				2627	2645	A1	Tabletop Sh.	Goldwyer (lower)					0.16				Amdel/WCR
Frankenstein 1				2645	2663	Ao	Tabletop Sh.	Goldwyer (lower)					0.18				Amdel/WCR
Frankenstein 1				2652.13		Ao	Tabletop Sh.	Goldwyer (lower)					0.36				Amdel/WCR
Frankenstein 1				2663	2681	nd	Tabletop Sh.	prot					0.08				Amdel/WCR
Frankenstein 1				2681	2699	nd	Tabletop Sh.	prot					0.15				Amdel/WCR
Frankenstein 1				2699	2717	nd	Tabletop Sh.	prot					0.16				Amdel/WCR
Frankenstein 1				2717	2735	nd	Tabletop Sh.	prot					0.18				Amdel/WCR
Frankenstein 1				2735	2753	nd	Tabletop Sh.	prot					0.11				Amdel/WCR
Frankenstein 1				2753	2771	nd	Tabletop Sh.	prot					0.08				Amdel/WCR
Frankenstein 1				2771	2789	nd	Tabletop Sh.	prot					0.11				Amdel/WCR
Frankenstein 1				2789	2807	nd	Tabletop Sh.	prot					0.13				Amdel/WCR

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Gap Creek 1				425		D	Lennard Shelf	Gogo	427	0.21	0.38	0.28	0.45	0.36	84	62	wcr & orgchem
Gap Creek 1				500		D	Lennard Shelf	Gogo					0.15				wcr & orgchem
Gap Creek 1				593		D	Lennard Shelf	Pillara Fm					0.21				wcr & orgchem
Gap Creek 1				865		D	Lennard Shelf	Pillara Fm					0.27				wcr & orgchem
Gap Creek 1				1015		C	Lennard Shelf	Poulton Fm					0.11				wcr & orgchem
Gap Creek 1				1133	1136	A1	Lennard Shelf	Gap Creek Fm					0.19				wcr & orgchem
Gap Creek 1				1218		A1	Lennard Shelf	Emmanual Fm	436	0.16	1.67	0.18	0.68	0.09	245	26	wcr & orgchem
Gap Creek 1				1244	1247	A1	Lennard Shelf	Emmanual Fm	336	0.41	1.39	2.51	0.75	0.23	185	334	wcr & orgchem
Gap Creek 1				1271	1274	A1	Lennard Shelf	Emmanual Fm					0.4				wcr & orgchem
Gap Creek 1				1337	1340	A1	Lennard Shelf	Emmanual Fm	337	0.77	1.94	3.17	0.81	0.28	239	391	wcr & orgchem
Gap Creek 1				1373	1376	A1	Lennard Shelf	Emmanual Fm					0.37				wcr & orgchem
Gap Creek 1				1400		Ao	Lennard Shelf	Kudata Dol.					0.12				wcr & orgchem
Gap Creek 1				1455		Ao	Lennard Shelf	Kumlan Sst					0.08				wcr & orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Gingerah Hill 1	3713			812.4	812.3	B2	Willara s-basin	Carriduddy	394	2.26	0.17	0.29					orgchem
Gingerah Hill 1	3714			821.5	821.63	B2	Willara s-basin	Carriduddy	245	9.43		0.6					orgchem
Gingerah Hill 1	3715			824.3	824.4	B2	Willara s-basin	Carriduddy	344	7.8	0.25	0.66					orgchem
Gingerah Hill 1	3716			841.5	841.6	B2	Willara s-basin	Carriduddy	355	0.66	0.09	0.54					orgchem
Gingerah Hill 1	3717			1038.06	1038.13	B1	Willara s-basin	Carriduddy	436	3.34	2.31	0.09					orgchem
Gingerah Hill 1	3718			1084.75	1084.8	B1	Willara s-basin	Carriduddy	519	9.43	0.65	3.6					orgchem
Gingerah Hill 1	3719			1118.95	1119.08	B1	Willara s-basin	Carriduddy	548	1.83	0.62	2.17					orgchem
Gingerah Hill 1	3720			1123	1123.18	B1	Willara s-basin	Carriduddy	389	1.45	0.41	5.8					orgchem
Gingerah Hill 1	3721			1262.6	1262.65	B1	Willara s-basin	Carriduddy	547	0.86	2	2.64					orgchem
Gingerah Hill 1	3722			1271.1	1271.3	B1	Willara s-basin	Carriduddy	443	1.44	6.33	0.28					orgchem
Gingerah Hill 1	3723			1276.25	1276.33	B1	Willara s-basin	Carriduddy	434	4.83	8.85	0.41					orgchem
Gingerah Hill 1	3724			1307.95	1308.05	B1	Willara s-basin	Carriduddy	381	5.68	1.25	2.82					orgchem
Gingerah Hill 1	3725			1394.4	1394.6	B1	Willara s-basin	Carriduddy	374	1.8	1.92	1.88					orgchem
Gingerah Hill 1	3726			1396.5	1396.7	B1	Willara s-basin	Carriduddy	359	2.79	1.69	1.96					orgchem
Gingerah Hill 1	3727			1444.7	1444.9	B1	Willara s-basin	Carriduddy	361	2.65	1.35	1.97					orgchem
Gingerah Hill 1	3728			1467.6	1468	B1	Willara s-basin	Carriduddy	387	0.06	3.57	1.02					orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Grant Range 1		1394	1399	424.891	426.415	H	Fitzroy Trough	Grant Formation	432	0.39	1.03	0.2	0.82	0.27	125	24	Analabs/Pet Sc
Grant Range 1		5559	5562	1694.38	1695.3	H	Fitzroy Trough	Grant Formation					0.12				Analabs/Pet Sc
Grant Range 1				1695	1695	H	Fitzroy Trough	Grant Formation					0.1				orgchem
Grant Range 1		6097	6106	1858.37	1861.11	H	Fitzroy Trough	Grant Formation					0.13				Analabs/Pet Sc
Grant Range 1				1880.64	1880.64	H	Fitzroy Trough	Grant Formation					0.13				Analabs/Pet Sc
Grant Range 1				2223	2223	H	Fitzroy Trough	Grant Formation					0.1				orgchem
Grant Range 1		7503		2286.91		F	Fitzroy Trough	Anderson Formation					0.15				Analabs/Pet Sc
Grant Range 1		7908		2410.36		F	Fitzroy Trough	Anderson Formation					0.27				Analabs/Pet Sc
Grant Range 1				2411	2411	F	Fitzroy Trough	Anderson Formation	483	0.09	0.15	0.02	0.51	0.38	29	3	Analabs/Pet Sc
Grant Range 1		7976		2431.08		F	Fitzroy Trough	Anderson Formation					0.39				Analabs/Pet Sc
Grant Range 1		7979		2432		F	Fitzroy Trough	Anderson Formation	455	0.12	0.15	0.03	0.45	0.44	33	6	Analabs/Pet Sc
Grant Range 1				2432.1	2432.1	F	Fitzroy Trough	Anderson Formation					1				orgchem
Grant Range 1				2567	2567	F	Fitzroy Trough	Anderson Formation					0.2				orgchem
Grant Range 1		8532		2600.55		F	Fitzroy Trough	Anderson Formation	444	0.56	0.36	0.06	1.04	0.61	34	5	Analabs/Pet Sc
Grant Range 1				2777.5	2777.5	F	Fitzroy Trough	Anderson Formation					0.1				orgchem
Grant Range 1		9431	9435	2874.57	2875.79	F	Fitzroy Trough	Anderson Formation					0.4				Analabs/Pet Sc
Grant Range 1				2874.6	2875.82	F	Fitzroy Trough	Anderson Formation					0.4				orgchem
Grant Range 1		9778		2980.33		F	Fitzroy Trough	Anderson Formation					0.34				Analabs/Pet Sc
Grant Range 1		9784		2982.16		F	Fitzroy Trough	Anderson Formation					0.35				Analabs/Pet Sc
Grant Range 1		9796		2985.82		F	Fitzroy Trough	Anderson Formation					0.34				Analabs/Pet Sc
Grant Range 1		9799		2986.74		F	Fitzroy Trough	Anderson Formation	461	0.06	0.05	0.06	0.77	0.55	6	7	Analabs/Pet Sc
Grant Range 1		9816		2991.92		F	Fitzroy Trough	Anderson Formation					0.07				Analabs/Pet Sc
Grant Range 1				3711.5	3711.5	F	Fitzroy Trough	Anderson Formation					0.4				orgchem
Grant Range 1				3833.5	3833.5	F	Fitzroy Trough	Anderson Formation					0.03				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Great Sandy 1				1600	1615	A2	Broome Plat	Goldwyer (mid)					0.23				WAIT
Great Sandy 1				1608		A2	Broome Plat	Goldwyer (mid)	397	0.14	0.41	0.21	0.23	0.26	178	91	WAIT
Great Sandy 1				1608		A2	Broome Plat	Goldwyer (mid)	445	0.04	0.24	1.2	0.23	0.14	104	521	WAIT
Great Sandy 1				1615	1630	A2	Broome Plat	Goldwyer (mid)					0.18				WAIT
Great Sandy 1				1623		A2	Broome Plat	Goldwyer (mid)	409	0.05	0.23	0.19	0.18	0.18	127	105	WAIT
Great Sandy 1				1623		A2	Broome Plat	Goldwyer (lower)	430	0.03	0.11	1.01	0.18	0.21	61	561	WAIT
Great Sandy 1				1635	1645	A2	Broome Plat	Goldwyer (lower)					0.23				WAIT
Great Sandy 1				1640		A2	Broome Plat	Goldwyer (lower)	397	0.06	0.23	0.26	0.23	0.21	100	113	WAIT
Great Sandy 1				1640		A2	Broome Plat	Goldwyer (lower)	421	0.06	0.18	1.49	0.23	0.25	78	647	WAIT
Great Sandy 1				1645	1660	A2	Broome Plat	Goldwyer (lower)					0.25				WAIT
Great Sandy 1				1653		A2	Broome Plat	Goldwyer (lower)	373	0.06	0.19	0.3	0.25	0.25	76	120	WAIT
Great Sandy 1				1653		A2	Broome Plat	Goldwyer (lower)	423	0.07	0.22	2.22	0.25	0.25	88	888	WAIT
Great Sandy 1				1660	1675	A2	Broome Plat	Goldwyer (lower)					0.18				WAIT
Great Sandy 1				1668		A2	Broome Plat	Goldwyer (lower)	378	0.03	0.15	0.13	0.18	0.17	83	72	WAIT
Great Sandy 1				1668		A2	Broome Plat	Goldwyer (lower)	460	0.02	0.14	1.34	0.18	0.12	77	744	WAIT
Great Sandy 1				1675	1690	A2	Broome Plat	Goldwyer (lower)					0.2				WAIT
Great Sandy 1				1683		A2	Broome Plat	Goldwyer (lower)	270	0.07	0.13	0.19	0.2	0.35	65	95	WAIT
Great Sandy 1				1683		A2	Broome Plat	Goldwyer (lower)	405	0.07	0.31	2.37	0.2	0.18	155	1185	WAIT
Great Sandy 1				1690	1705	A2	Broome Plat	Goldwyer (lower)					0.27				WAIT
Great Sandy 1				1698		A2	Broome Plat	Goldwyer (lower)	290	0.03	0.09	0.14	0.27	0.25	33	51	WAIT
Great Sandy 1				1698		A2	Broome Plat	Goldwyer (lower)	468	0.03	0.17	1.78	0.27	0.15	62	659	WAIT
Great Sandy 1				1705	1720	A2	Broome Plat	Goldwyer (lower)					0.35				WAIT
Great Sandy 1				1713		A2	Broome Plat	Goldwyer (lower)	270	0.03	0.06	0.17	0.35	0.37	17	48	WAIT
Great Sandy 1				1713		A2	Broome Plat	Goldwyer (lower)	473	0.03	0.27	4.51	0.35	0.1	77	1288	WAIT
Great Sandy 1				1735	1740	A2	Broome Plat	Goldwyer (lower)					0.24				WAIT
Great Sandy 1				1738		A2	Broome Plat	Goldwyer (lower)	364	0.03	0.12	0.2	0.24	0.21	50	83	WAIT
Great Sandy 1				1738		A2	Broome Plat	Goldwyer (lower)	454	0.04	0.19	6.81	0.24	0.18	79	2837	WAIT

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Grevillea 1				1403.5		D	Margaret R. Embaym.	Pillara Slope facies					0.13				wcr/orgchem
Grevillea 1				1631		D	Margaret R. Embaym.	Pillara Limestone					0.14				wcr/orgchem
Grevillea 1				1636.5		D	Margaret R. Embaym.	Pillara Limestone					0.13				wcr/orgchem
Grevillea 1				1638.9		D	Margaret R. Embaym.	Pillara Limestone					0.12				wcr/orgchem
Grevillea 1				1646		D	Margaret R. Embaym.	Pillara Limestone					0.23				wcr/orgchem
Grevillea 1				1653		D	Margaret R. Embaym.	Pillara Limestone					0.13				wcr/orgchem
Grevillea 1				1700		D	Margaret R. Embaym.	Pillara Limestone					0.12				wcr/orgchem
Grevillea 1				1714.5		D	Margaret R. Embaym.	Pillara Limestone					0.17				wcr/orgchem
Grevillea 1				1771.7		D	Margaret R. Embaym.	Pillara Limestone					0.19				wcr/orgchem
Grevillea 1				1800		D	Margaret R. Embaym.	Pillara Limestone					0.18				wcr/orgchem
Grevillea 1				2172.5	2175	A1	Margaret R. Embaym.	Emanuel Fm					0.13				wcr/orgchem
Grevillea 1				2412.5	2415	A0	Margaret R. Embaym.	Kudata Dol.					0.24				wcr/orgchem
Grevillea 1				2425	2427.5	A0	Margaret R. Embaym.	Kudata Dol.					0.29				wcr/orgchem
Grevillea 1				2425	2427.5	A0	Margaret R. Embaym.	Kudata Dol.					0.1				wcr/orgchem
Grevillea 1				2435	2437.5	A0	Margaret R. Embaym.	Kudata Dol.					0.3				wcr/orgchem
Grevillea 1				2447.5	2450	A0	Margaret R. Embaym.	Kudata Dol.					0.29				wcr/orgchem
Grevillea 1				2465	2467.5	A0	Margaret R. Embaym.	Kudata Dol.					0.09				wcr/orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Hakea 1				549.1		I	Fitzroy Trough	Nookanbah	434	0.07	1.34	0.19	2.33	0.05	57	8	Analabs/IEDC
Hakea 1				657.8		H	Fitzroy Trough	Grant 'C'	431	0.22	9.08	0.2	2.85	0.02	318	7	Analabs/IEDC
Hakea 1	4509			657.8		H	Fitzroy Trough	Grant	429	0.21	4.48	0.09					orgchem
Hakea 1				796.9		H	Fitzroy Trough	Grant 'B'					0.14				Analabs/IEDC
Hakea 1				826.5		H	Fitzroy Trough	Grant 'A'	437	0.02	0.3	0.06		0.06			Analabs/IEDC
Hakea 1				827.5		H	Fitzroy Trough	Grant 'A'	436	0.01	0.13	0.04		0.07			Analabs/IEDC
Hakea 1				835.5		H	Fitzroy Trough	Grant 'A'	435	0.03	0.04	0.14		0.18			Analabs/IEDC
Hakea 1	4510			836		H	Fitzroy Trough	Grant	393	0.01	0.13						orgchem
Hakea 1				836		H	Fitzroy Trough	Grant 'A'	431	0.02	0.23	0.06		0.08			Analabs/IEDC
Hakea 1				836.5		H	Fitzroy Trough	Grant 'A'	438	0.02	0.14	0.04		0.13			Analabs/IEDC
Hakea 1				1347		G	Fitzroy Trough	Preglacial unit					0.36				Analabs/IEDC
Hakea 1				1387.2		G	Fitzroy Trough	Preglacial unit					0.06				Analabs/IEDC
Hakea 1				1417		G	Fitzroy Trough	Preglacial unit	477	0.06	0.15	0.43	0.47	0.29	31	91	Analabs/IEDC
Hakea 1				1476.5		F	Fitzroy Trough	Anderson					0.25				Analabs/IEDC
Hakea 1				1561		F	Fitzroy Trough	Anderson					0.13				Analabs/IEDC
Hakea 1				1664.9		F	Fitzroy Trough	Anderson					0.33				Analabs/IEDC
Hakea 1				1699		F	Fitzroy Trough	Laurel?					0.13				Analabs/IEDC
Hakea 1				1703		F	Fitzroy Trough	Laurel?	426	0.02	0.07	0.17	0.17	0.22	41	100	Analabs/IEDC

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	Type	where from
Hangover 1				100		J	Laurel Downs Terr.	Blina Sh.					0.3				cuttings	Home Energy/WCR
Hangover 1				130		J	Laurel Downs Terr.	Blina Sh.	428	0.01	0.5	0.12	0.45	0.02	111	26	cuttings	Home Energy/WCR
Hangover 1				160		J	Laurel Downs Terr.	Blina Sh.					0.72				cuttings	Home Energy/WCR
Hangover 1				170		J	Laurel Downs Terr.	Blina Sh.	432	0.02	2.9	0.77	1.02	0.01	284	75	cuttings	Home Energy/WCR
Hangover 1				190		J	Laurel Downs Terr.	Blina Sh.	436	0.01	2.28	0.52	0.84	4.38	271	61	cuttings	Home Energy/WCR
Hangover 1				200		J	Laurel Downs Terr.	Blina Sh.	431	0.02	1.78	0.22	0.74	8.09	240	29	cuttings	Home Energy/WCR
Hangover 1				230		I	Laurel Downs Terr.	Liveringa Fm	433	0.02	0.94	1.09	2.01	0.86	46	54	cuttings	Home Energy/WCR
Hangover 1				250		I	Laurel Downs Terr.	Liveringa Fm					1.13				cuttings	Home Energy/WCR
Hangover 1				270		I	Laurel Downs Terr.	Liveringa Fm	435	0.02	0.61	0.95	2.47	0.03	24	38	cuttings	Home Energy/WCR
Hangover 1				390		I	Laurel Downs Terr.	Liveringa Fm	427	0.01	0.47	0.19	1.16	0.02	40	16	cuttings	Home Energy/WCR
Hangover 1				405		I	Laurel Downs Terr.	Liveringa Fm	432	0.01	0.28	0.36	1.22	0.03	22	29	cuttings	Home Energy/WCR
Hangover 1				425		I	Laurel Downs Terr.	Liveringa Fm	433	0.01	0.13	0.09	0.63	0.07	20	14	cuttings	Home Energy/WCR
Hangover 1				465		I	Laurel Downs Terr.	Noonkanbah Fm	427	0.02	0.11	0.23	0.63	0.15	17	36	cuttings	Home Energy/WCR
Hangover 1				485		I	Laurel Downs Terr.	Noonkanbah Fm					1.17				cuttings	Home Energy/WCR
Hangover 1				510		I	Laurel Downs Terr.	Noonkanbah Fm	432	0.03	0.57	0.51	1.97	0.05	28	25	SWC	Home Energy/WCR
Hangover 1				510		I	Laurel Downs Terr.	Noonkanbah Fm	430	0.03	0.37	0.24	1.62	0.08	22	14	cuttings	Home Energy/WCR
Hangover 1				535		I	Laurel Downs Terr.	Noonkanbah Fm					1.88				cuttings	Home Energy/WCR
Hangover 1				560		I	Laurel Downs Terr.	Noonkanbah Fm					1.02				cuttings	Home Energy/WCR
Hangover 1				580		I	Laurel Downs Terr.	Noonkanbah Fm					1.63				cuttings	Home Energy/WCR
Hangover 1				595		I	Laurel Downs Terr.	Noonkanbah Fm	436	0.04	0.4	0.42	2.13	0.09	18	19	cuttings	Home Energy/WCR
Hangover 1				613		I	Laurel Downs Terr.	Noonkanbah Fm	438	0.05	0.55	0.67	2.61	0.08	21	25	SWC	Home Energy/WCR
Hangover 1				615		I	Laurel Downs Terr.	Noonkanbah Fm	434	0.03	0.48	0.29	2.06	0.06	23	14	cuttings	Home Energy/WCR
Hangover 1				660		I	Laurel Downs Terr.	Noonkanbah Fm					1.87				cuttings	Home Energy/WCR
Hangover 1				680		I	Laurel Downs Terr.	Noonkanbah Fm					2.12				cuttings	Home Energy/WCR
Hangover 1				695		I	Laurel Downs Terr.	Noonkanbah Fm	435	0.03	0.4	0.1	2.05	0.07	19	4	cuttings	Home Energy/WCR
Hangover 1				705		I	Laurel Downs Terr.	Noonkanbah Fm					2.59				cuttings	Home Energy/WCR
Hangover 1				715		I	Laurel Downs Terr.	Noonkanbah Fm					2.8				cuttings	Home Energy/WCR
Hangover 1				725		I	Laurel Downs Terr.	Noonkanbah Fm	434	0.08	2.33	1.06	3.81	0.03	61	27	cuttings	Home Energy/WCR

Hangover 1				735	I	Laurel Downs Terr.	Noonkanbah Fm	430	0.05	1.87	0.62	3.41	0.03	54	18	cuttings	Home Energy/WCR
Hangover 1				750	I	Laurel Downs Terr.	Noonkanbah Fm					1.07				cuttings	Home Energy/WCR
Hangover 1				756	I	Laurel Downs Terr.	Noonkanbah Fm	430	0.07	1.46	0.75	2.51	0.05	58	29	SWC	Home Energy/WCR
Hangover 1				760	I	Laurel Downs Terr.	Noonkanbah Fm	433	0.06	1.92	0.93	2.71	0.03	70	34	cuttings	Home Energy/WCR
Hangover 1				820	I	Laurel Downs Terr.	Poole Sst	432	0.04	0.81	0.34	1.25	0.05	64	27	cuttings	Home Energy/WCR
Hangover 1				822	I	Laurel Downs Terr.	Poole Sst	434	0.04	0.57	0.14	1.31	0.07	43	10	SWC	Home Energy/WCR
Hangover 1				825	I	Laurel Downs Terr.	Poole Sst	436	0.04	1.08	0.4	1.54	0.04	70	25	cuttings	Home Energy/WCR
Hangover 1				885	H	Laurel Downs Terr.	Grant Fm (shales)					0.79				cuttings	Home Energy/WCR
Hangover 1				888	H	Laurel Downs Terr.	Grant Fm (shales)	435	0.04	0.15	0.05	0.52	0.21	28	9	SWC	Home Energy/WCR
Hangover 1				890	H	Laurel Downs Terr.	Grant Fm (shales)	434	0.02	0.17	0.01	0.51	0.11	33	1	cuttings	Home Energy/WCR
Hangover 1				995	H	Laurel Downs Terr.	Grant Fm (shales)	426	0.02	0.02	0.01	0.28	0.5	7	3	cuttings	Home Energy/WCR
Hangover 1				1000	H	Laurel Downs Terr.	Grant Fm (shales)					0.25				cuttings	Home Energy/WCR
Hangover 1				1007	H	Laurel Downs Terr.	Grant Fm (shales)					0.32				SWC	Home Energy/WCR
Hangover 1				1010	H	Laurel Downs Terr.	Grant Fm (shales)	320	0.03	0.03	0.01	0.3	0.5	10	3	cuttings	Home Energy/WCR
Hangover 1				1021	H	Laurel Downs Terr.	Grant Fm (shales)					0.29				SWC	Home Energy/WCR
Hangover 1				1025	H	Laurel Downs Terr.	Grant Fm (shales)	340	0.04	0.08	0.01	0.33	0.33	24	3	cuttings	Home Energy/WCR
Hangover 1				1117	H	Laurel Downs Terr.	Grant Fm (shales)	427	0.06	0.28	0.2	0.53	0.18	52	37	SWC	Home Energy/WCR
Hangover 1				1120	H	Laurel Downs Terr.	Grant Fm (shales)	428	0.07	0.4	0.01	0.65	0.15	61	1	cuttings	Home Energy/WCR
Hangover 1				1122	H	Laurel Downs Terr.	Grant Fm (shales)	431	0.06	0.44	0.14	0.59	0.12	74	23	SWC	Home Energy/WCR
Hangover 1				1125	H	Laurel Downs Terr.	Grant Fm (shales)	429	0.05	0.37	0.15	0.6	0.12	61	25	cuttings	Home Energy/WCR
Hangover 1				1130	H	Laurel Downs Terr.	Grant Fm (shales)					0.52				cuttings	Home Energy/WCR
Hangover 1				1145	H	Laurel Downs Terr.	Grant Fm (shales)					0.35				cuttings	Home Energy/WCR
Hangover 1				1155	H	Laurel Downs Terr.	Grant Fm (shales)					0.34				cuttings	Home Energy/WCR
Hangover 1				1165	H	Laurel Downs Terr.	Grant Fm (shales)	429	0.02	0.11	0.16	0.39	0.15	28	41	cuttings	Home Energy/WCR
Hangover 1				1175	H	Laurel Downs Terr.	Grant Fm (shales)					0.39				cuttings	Home Energy/WCR
Hangover 1				1187	H	Laurel Downs Terr.	Grant Fm (shales)	434	0.05	0.12	0.07	0.52	0.29	23	13	SWC	Home Energy/WCR
Hangover 1				1190	H	Laurel Downs Terr.	Grant Fm (shales)	436	0.03	0.14	0.01	0.46	0.18	30	2	cuttings	Home Energy/WCR
Hangover 1				1562	F	Laurel Downs Terr.	Anderson fm					0.14				SWC	Home Energy/WCR
Hangover 1				1570	F	Laurel Downs Terr.	Anderson fm	409	0.1	0.31	0.04	0.47	0.24	65	8	cuttings	Home Energy/WCR
Hangover 1				1575	F	Laurel Downs Terr.	Anderson fm					0.29				cuttings	Home Energy/WCR
Hangover 1				1642	F	Laurel Downs Terr.	Anderson fm					0.09				SWC	Home Energy/WCR
Hangover 1				1645	F	Laurel Downs Terr.	Anderson fm	313	0.05	0.03	0.1	0.34	0.63	8	29	cuttings	Home Energy/WCR
Hangover 1				1650	F	Laurel Downs Terr.	Anderson fm					0.28				cuttings	Home Energy/WCR
Hangover 1				1655	F	Laurel Downs Terr.	Anderson fm					0.17				cuttings	Home Energy/WCR

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Hedonia 1				145	150	L	Broome Platform	Jowlaenga Fm					0.07				orgchem
Hedonia 1					200	K	Broome Platform	Jarlemal Slit					0.44				orgchem
Hedonia 1					243.5	K	Broome Platform	AlexanderFm	421	0.05	0.65	0.46	0.84	0.07	77	54	orgchem
Hedonia 1					243.5	K	Broome Platform	AlexanderFm					0.84				WCR/Gulf
Hedonia 1					288.3	K	Broome Platform	AlexanderFm	406	0.15	0.69	8.93	1.17	0.18	58	763	orgchem
Hedonia 1					288.3	K	Broome Platform	AlexanderFm					1.17				WCR/Gulf
Hedonia 1					309.5	K	Broome Platform	Wallal Sandstone					0.15				orgchem
Hedonia 1					328.2	K	Broome Platform	Wallal Sandstone					0.1				orgchem
Hedonia 1					343	K	Broome Platform	Wallal Sandstone					0.13				orgchem
Hedonia 1					378.6	K	Broome Platform	Wallal Sandstone					0.14				orgchem
Hedonia 1					423.3	K	Broome Platform	Wallal Sandstone					0.13				orgchem
Hedonia 1					457.2	K	Broome Platform	Wallal Sandstone					2.05				WCR/Gulf
Hedonia 1					459.2	K	Broome Platform	Wallal Sandstone	417	0.46	3.98	0.64	2.05	0.1	194	31	orgchem
Hedonia 1					476.4	K	Broome Platform	Wallal Sandstone	421	0.6	7.28	0.89	2.55	0.08	285	34	orgchem
Hedonia 1					476.4	K	Broome Platform	Wallal Sandstone					2.55				WCR/Gulf
Hedonia 1					489.5	H	Broome Platform	Grant					0.17				orgchem
Hedonia 1					492.7	H	Broome Platform	Grant	429	0.08	0.22	1.54	0.53	0.27	41	290	orgchem
Hedonia 1					508.5	H	Broome Platform	Grant					0.08				orgchem
Hedonia 1					516	H	Broome Platform	Grant					0.13				orgchem
Hedonia 1				540	555	H	Broome Platform	Grant					0.08				orgchem
Hedonia 1					569.5	H	Broome Platform	Grant					0.1				orgchem
Hedonia 1					570	H	Broome Platform	Grant					0.12				orgchem
Hedonia 1					585	H	Broome Platform	Grant					0.18				orgchem
Hedonia 1					595	H	Broome Platform	Grant					0.1				orgchem
Hedonia 1				600	615	H	Broome Platform	Grant					0.15				orgchem
Hedonia 1					605.3	H	Broome Platform	Grant					0.1				orgchem
Hedonia 1					610	H	Broome Platform	Grant	447	0.06	0.24	0.13	0.55	0.2	43	23	orgchem
Hedonia 1				630	645	H	Broome Platform	Grant					0.15				orgchem
Hedonia 1					638.3	H	Broome Platform	Grant	420	0.08	0.32	0.33	0.71	0.2	45	46	orgchem
Hedonia 1					656	H	Broome Platform	Grant					0.26				orgchem
Hedonia 1				660	675	H	Broome Platform	Grant					0.18				orgchem
Hedonia 1					674.6	H	Broome Platform	Grant					0.38				orgchem
Hedonia 1				690	705	H	Broome Platform	Grant					0.22				orgchem
Hedonia 1					702.5	H	Broome Platform	Grant					0.45				orgchem
Hedonia 1				705	720	H	Broome Platform	Grant					0.08				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Hedonia 1					729.3	H	Broome Platform	Grant					0.47				orgchem
Hedonia 1				750	765	H	Broome Platform	Grant	415	0.12	0.4	1.55	0.66	0.23	60	234	orgchem
Hedonia 1				750	795	H	Broome Platform	Grant					0.55				WCR/Gulf
Hedonia 1					757	H	Broome Platform	Grant	427	0.09	0.2	0.23	0.52	0.31	38	44	orgchem
Hedonia 1				765	780	H	Broome Platform	Grant	403	0.09	0.08	1.37	0.45	0.53	17	304	orgchem
Hedonia 1				780	795	H	Broome Platform	Grant	425	0.09	0.27	0.51	0.49	0.25	55	104	orgchem
Hedonia 1				795	810	H	Broome Platform	Grant					0.3				orgchem
Hedonia 1					796	H	Broome Platform	Grant					0.1				orgchem
Hedonia 1					808.2	H	Broome Platform	Grant					0.21				orgchem
Hedonia 1				810	825	H	Broome Platform	Grant					0.14				orgchem
Hedonia 1				840	855	H	Broome Platform	Grant					0.11				orgchem
Hedonia 1					848	H	Broome Platform	Grant					0.17				orgchem
Hedonia 1				870	885	H	Broome Platform	Grant					0.3				orgchem
Hedonia 1					873	H	Broome Platform	Grant					0.11				orgchem
Hedonia 1				885	900	H	Broome Platform	Grant					0.06				orgchem
Hedonia 1				900	915	H	Broome Platform	Grant					0.1				orgchem
Hedonia 1				915	930	A2	Broome Platform	Goldwyer	433	1.19	4.07	0.35	1.53	0.23	266	22	orgchem
Hedonia 1				915	1020	A2	Broome Platform	Goldwyer					1.335				WCR/Gulf
Hedonia 1					922	A2	Broome Platform	Goldwyer		0.48	0.61						BP Res Cent
Hedonia 1					922	A2	Broome Platform	Goldwyer		0.48	0.61						BP Res Cent
Hedonia 1				930	945	A2	Broome Platform	Goldwyer	439	0.26	0.96	0.27	0.64	0.21	150	42	orgchem
Hedonia 1				935.4	944	A2	Broome Platform	Goldwyer	430	0.3	0.69	0.33	0.6	0.3	115	55	orgchem
Hedonia 1					936.9	A2	Broome Platform	Goldwyer		0.58	0.61						BP Res Cent
Hedonia 1				945	960	A2	Broome Platform	Goldwyer	430	0.84	2.09	0.42	1.19	0.29	175	35	orgchem
Hedonia 1				960	975	A2	Broome Platform	Goldwyer	435	1.72	4.28	0.41	2.07	0.29	206	19	orgchem
Hedonia 1				975	990	A2	Broome Platform	Goldwyer	427	1.3	2.69	0.62	1.48	0.33	181	41	orgchem
Hedonia 1					976	A2	Broome Platform	Goldwyer									BP Res Cent
Hedonia 1				990	1005	A2	Broome Platform	Goldwyer	435	0.91	1.93	0.26	1.19	0.32	162	21	orgchem
Hedonia 1				1005	1020	A2	Broome Platform	Goldwyer	427	0.95	1.69	0.37	1.19	0.36	142	31	orgchem
Hedonia 1				1020	1035	A2	Broome Platform	Goldwyer	430	0.49	0.95	0.3	0.84	0.34	113	25	orgchem
Hedonia 1				1020	1035	A2	Broome Platform	Goldwyer					0.99				WCR/Gulf
Hedonia 1					1022.5	A2	Broome Platform	Goldwyer	432	0.84	1.14	0.14	1	0.42	114	13	orgchem
Hedonia 1					1022.5	A2	Broome Platform	Goldwyer					0.84				WCR/Gulf
Hedonia 1					1046.7	A2	Broome Platform	Goldwyer	428	0.58	0.86	0.62	0.99	0.4	86	62	orgchem
Hedonia 1					1075.8	A2	Broome Platform	Willara					0.37				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Hedonia 1					1075.9	A2	Broome Platform	Willara					0.11				orgchem
Hedonia 1					1122.2	A1	Broome Platform	Willara					0.16				orgchem
Hedonia 1					1192	A1	Broome Platform	Willara					0.09				orgchem
Hedonia 1				1201	1216	A1	Broome Platform	Willara	333	0.1	0.33	2.72	0.46	0.23	71	591	orgchem
Hedonia 1					1219	A1	Broome Platform	Willara					0.29				orgchem
Hedonia 1				1231	1246	A1	Broome Platform	Willara					0.16				orgchem
Hedonia 1				1261	1276	A1	Broome Platform	Willara					0.22				orgchem
Hedonia 1					1274	A1	Broome Platform	Willara					0.38				orgchem
Hedonia 1				1291	1306	A1	Broome Platform	Nambeet	390	0.41	0.49	0.92	0.65	0.46	75	141	orgchem
Hedonia 1				1291	1351	A1	Broome Platform	Nambeet					0.57				WCR/Gulf
Hedonia 1					1298	A1	Broome Platform	Nambeet	402	0.58	0.44	0.62	0.8	0.57	55	77	orgchem
Hedonia 1				1306	1321	A1	Broome Platform	Nambeet	407	0.24	0.18	0.99	0.49	0.57	36	202	orgchem
Hedonia 1				1321	1336	A1	Broome Platform	Nambeet	419	0.29	0.34	0.62	0.63	0.46	53	98	orgchem
Hedonia 1				1336	1351	A1	Broome Platform	Nambeet	416	0.25	0.18	0.95	0.56	0.58	32	169	orgchem
Hedonia 1					1344	A1	Broome Platform	Nambeet	405	0.27	0.13	0.51	0.55	0.67	23	92	orgchem
Hedonia 1				1351	1366	A1	Broome Platform	Nambeet	403	0.24	0.29	0.29	0.52	0.45	55	55	orgchem
Hedonia 1				1351	1366	A1	Broome Platform	Nambeet					0.52				WCR/Gulf
Hedonia 1				1366	1381	A1	Broome Platform	Nambeet	402	0.22	0.14	0.48	0.57	0.61	24	84	orgchem
Hedonia 1				1366	1411	A1	Broome Platform	Nambeet					0.525				WCR/Gulf
Hedonia 1					1369.5	A1	Broome Platform	Nambeet	405	0.28	0.1	0.62	0.6	0.74	16	103	orgchem
Hedonia 1				1381	1396	A1	Broome Platform	Nambeet	430	0.16	0.19	0.38	0.51	0.46	37	74	orgchem
Hedonia 1				1396	1411	A1	Broome Platform	Nambeet	364	0.16	0.11	0.74	0.48	0.59	22	154	orgchem
Hedonia 1				1411	1126	A1	Broome Platform	Nambeet					0.38				orgchem
Hedonia 1				1441	1456	A1	Broome Platform	Nambeet	437	0.14	0.12	0.45	0.59	0.54	20	76	orgchem
Hedonia 1					1450.6	A1	Broome Platform	Nambeet	464	0.34	0.21	0.3	1.09	0.62	19	27	orgchem
Hedonia 1				1471	1486	A1	Broome Platform	Nambeet	353	0.1	0.05	0.23	0.44	0.67	11	52	orgchem
Hedonia 1				1471	1486	A1	Broome Platform	Nambeet					0.44				WCR/Gulf
Hedonia 1					1473	A1	Broome Platform	Nambeet	475	0.15	0.1	0.53	0.53	0.6	18	100	orgchem
Hedonia 1				1486	1501	A1	Broome Platform	Nambeet					0.47				orgchem
Hedonia 1				1501	1516	A1	Broome Platform	Nambeet					0.18				orgchem
Hedonia 1				1516	1531	A1	Broome Platform	Nambeet					0.41				orgchem
Hedonia 1				1531	1543		Broome Platform	Basement					0.23				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	\$1	\$2	\$3	TOC	PI	HI	OI	where from
Hilltop 1	66175			1052.5		A2	Broome Plat.	Goldwyer (lower Shale)	433	1.68	4.74	0.25	2.1	0.26	225	11	orgchem/analabs
Hilltop 1	66176			1079.1		A2	Broome Plat.	Goldwyer (lower Shale)	438	1.1	2.37	0.31	1.45	0.32	163	21	orgchem/analabs
Hilltop 1	66177			1098		A2	Broome Plat.	Goldwyer (lower Shale)	432	2.29	4.51	0.34	2.5	0.34	180	13	orgchem/analabs
Hilltop 1	66178			1128.1		A2	Broome Plat.	Goldwyer (lower Shale)	438	0.92	1.42	0.28	1.3	0.39	109	21	orgchem/analabs
Hilltop 1	66179			1170		A2	Broome Plat.	Goldwyer (lower Shale)	447	0.42	0.54	0.31	0.8	0.44	67	38	orgchem/analabs
Hilltop 1	66180			1286.1		A1	Broome Plat.	Willara Fm	399	0.03	0.02	0.4	0.06	0.6	33	666	orgchem/analabs
Hilltop 1	66181			1353.1		A1	Broome Plat.	Willara Fm	424	0.1	0.15	0.5	0.32	0.4	46	156	orgchem/analabs
Hilltop 1	66182			1420.7		A1	Broome Plat.	Willara Fm	433	0.19	0.18	0.42	0.64	0.51	28	65	orgchem/analabs
Hilltop 1	66183			1436		A1	Broome Plat.	Nambeet Fm	462	0.24	0.17	0.38	0.73	0.59	23	52	orgchem/analabs
Hilltop 1	66184			1483.5		A1	Broome Plat.	Nambeet Fm	395	0.07	0.05	0.33	0.59	0.58	8	55	orgchem/analabs
Hilltop 1	66185			1505		A1	Broome Plat.	Nambeet Fm	330	0.04	0.07	0.42	0.43	0.36	16	97	orgchem/analabs
Hilltop 1	66186			1538		A1	Broome Plat.	Nambeet Fm	335	0.02	0.04	0.4	0.6	0.33	6	66	orgchem/analabs
Hilltop 1	66187			1605		A1	Broome Plat.	Nambeet Fm	345	0.01	0.02	0.51	0.47	0.33	4	108	orgchem/analabs
Hilltop 1	66188			1630		A1	Broome Plat.	Nambeet Fm	331	0.06	0.05	0.71	0.72	0.55	6	98	orgchem/analabs

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	Imax	S1	S2	S3	TOC	PI	HI	OI	where from
Janpam 1	46797			1450	1455	F	Laurel Downs Terr.	Laurel Fm					0.19				orgchem
Janpam 1	46798			1460	1465	F	Laurel Downs Terr.	Laurel Fm					0.15				orgchem
Janpam 1	46799			1470	1475	F	Laurel Downs Terr.	Laurel Fm					0.16				orgchem
Janpam 1	46800			1485	1490	F	Laurel Downs Terr.	Laurel Fm					0.22				orgchem
Janpam 1	46801			1500	1505	F	Laurel Downs Terr.	Laurel Fm					0.27				orgchem
Janpam 1	46802			1515	1520	F	Laurel Downs Terr.	Laurel Fm					0.48				orgchem
Janpam 1	46803			1530	1535	F	Laurel Downs Terr.	Yellow Drum equiv	434	0.01	0.15	0.21	0.33	0.06	31	43	orgchem
Janpam 1	46804			1535	1540	F	Laurel Downs Terr.	Yellow Drum equiv					0.4				orgchem
Janpam 1	46805			1550	1555	F	Laurel Downs Terr.	Yellow Drum equiv	428	0.14	0.13	0.17	0.2	0.18	35	32	orgchem
Janpam 1	46806			1565	1570	F	Laurel Downs Terr.	Yellow Drum equiv					0.23				orgchem
Janpam 1	46807			1590	1595	F	Laurel Downs Terr.	Yellow Drum equiv					0.09				orgchem
Janpam 1	46808			1605	1610	E	Laurel Downs Terr.	Yellow Drum equiv					0.07				orgchem
Janpam 1	46809			1620	1625	E	Laurel Downs Terr.	Yellow Drum equiv					0.1				orgchem
Janpam 1	46810			1640	1645	E	Laurel Downs Terr.	Yellow Drum equiv					0.26				orgchem
Janpam 1	46811			1660	1665	E	Laurel Downs Terr.	Gumhole Fm					0.16				orgchem
Janpam 1	46812			1675	1680	E	Laurel Downs Terr.	Gumhole Fm					0.18				orgchem
Janpam 1	46813			1695	1700	E	Laurel Downs Terr.	Gumhole Fm					0.1				orgchem
Janpam 1	46814			1710	1715	E	Laurel Downs Terr.	Gumhole Fm					0.15				orgchem
Janpam 1	46815			1720	1725	E	Laurel Downs Terr.	Gumhole Fm					0.12				orgchem
Janpam 1	46816			1740	1745	E	Laurel Downs Terr.	May River unit					0.09				orgchem
Janpam 1	46817			1745	1750	E	Laurel Downs Terr.	May River unit					0.13				orgchem

Janpam 1	46818			1775	1780	E	Laurel Downs Terr.	Nullara Lst					0.05				orgchem
Janpam 1	46819			1820	1825	E	Laurel Downs Terr.	Nullara Lst					0.04				orgchem
Janpam 1	46820			1850	1855	E	Laurel Downs Terr.	Nullara Lst					0.05				orgchem
Janpam 1	46821			1895	1900	E	Laurel Downs Terr.	Nullara Lst					0.04				orgchem
Janpam 1	46822			1920	1925	E	Laurel Downs Terr.	Nullara Lst					0.04				orgchem
Janpam 1	46823			1950	1955	E	Laurel Downs Terr.	Nullara Lst					0.05				orgchem
Janpam 1	46824			1975	1980	E	Laurel Downs Terr.	Nullara Lst					0.04				orgchem
Janpam 1	46825			2000	2005	E	Laurel Downs Terr.	Nullara Lst					0.04				orgchem
Janpam 1	46826			2035	2040	E	Laurel Downs Terr.	Nullara Lst					0.04				orgchem
Janpam 1	46827			2070	2075	E	Laurel Downs Terr.	Nullara Lst					0.04				orgchem
Janpam 1	46828			2075	2080	D	Laurel Downs Terr.	Frasnian clastics					0.09				orgchem
Janpam 1	46829			2085	2090	D	Laurel Downs Terr.	Frasnian clastics					0.13				orgchem
Janpam 1	46830			2095	2100	D	Laurel Downs Terr.	Frasnian clastics					0.08				orgchem
Janpam 1	46831			2110	2115	D	Laurel Downs Terr.	Frasnian clastics					0.09				orgchem
Janpam 1	46832			2120	2125	D	Laurel Downs Terr.	Frasnian clastics					0.07				orgchem
Janpam 1	46833			2140	2145	D	Laurel Downs Terr.	Frasnian clastics					0.16				orgchem
Janpam 1	46834			2155	2160	D	Laurel Downs Terr.	Frasnian clastics					0.08				orgchem
Janpam 1	46835			2170	2175	D	Laurel Downs Terr.	Frasnian clastics					0.32				orgchem
Janpam 1	46836			2175	2180	D	Laurel Downs Terr.	Frasnian clastics	434	0.19	0.79	0.2	0.39	0.19	202	51	orgchem
Janpam 1	46837			2200	2205	D	Laurel Downs Terr.	Frasnian clastics					0.1				orgchem
Janpam 1	46838			2220	2225	D	Laurel Downs Terr.	Frasnian clastics	435	0.21	1.38	0.39	0.53	0.13	260	73	orgchem
Janpam 1	46839			2235	2240	D	Laurel Downs Terr.	Frasnian clastics					0.08				orgchem
Janpam 1	46840			2250	2255	D	Laurel Downs Terr.	Frasnian clastics					0.05				orgchem
Janpam 1	4512			2257.9	2257.9	D	Laurel Downs Terr.	Frasnian clastics	439	0.95	9.48	0.03	2.1				orgchem
Janpam 1	4513			2259.5	2259.5	D	Laurel Downs Terr.	Frasnian clastics	429	0.12	0.21	0.17					orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Jones Range 1	65617				380	nd	Fitzroy trough	Grant Fm					0.46				orgchem
Jones Range 1	42048			1000	1000	nd	Fitzroy trough	Anderson Fm					0.11				orgchem
Jones Range 1	42049			1160	1160	nd	Fitzroy trough	Anderson Fm					0.2				orgchem
Jones Range 1	42050			1570	1570	nd	Fitzroy trough	Anderson Fm					0.18				orgchem
Jones Range 1	42051			1700	1700	nd	Fitzroy trough	Laurel					0.36				orgchem
Jones Range 1	42044			1830	1830	nd	Fitzroy trough	Laurel	444	0.27	0.29	0.03	0.51				orgchem
Jones Range 1	42052			1830	1830	nd	Fitzroy trough	Laurel					0.51				orgchem
Jones Range 1	42053			2060	2060	nd	Fitzroy trough	Laurel					0.3				orgchem
Jones Range 1	65618			2090	2090	nd	Fitzroy trough	Laurel					0.26				orgchem
Jones Range 1	65619			2515	2515	nd	Fitzroy trough	Lululgu					0.15				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Liho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Juno 1				630	660	nd	Willara Sub basin	Grant	423	0.03	0.28	1.4	0.61	0.10	45.90	229.51	WCR(Analabs)
Juno 1				660	690	nd	Willara Sub basin	Grant	423	0.01	0.16	0.96	0.59	0.06	27.12	162.71	WCR(Analabs)
Juno 1				690	720	nd	Willara Sub basin	Grant	423	0.01	0.15	1.05	0.53	0.06	28.30	198.11	WCR(Analabs)
Juno 1				720	750	nd	Willara Sub basin	Grant	423	0.03	0.15	0.62	0.5	0.17	30.00	124.00	WCR(Analabs)
Juno 1				750	780	nd	Willara Sub basin	Grant	427	0.02	0.14	0.51	0.46	0.13	30.43	110.87	WCR(Analabs)
Juno 1				780	810	nd	Willara Sub basin	Grant	426	0.02	0.12	0.68	0.38	0.14	31.58	178.95	WCR(Analabs)
Juno 1				1530	1560	nd	Willara Sub basin	Carlbuddy					0.14				WCR(Analabs)
Juno 1				1560	1590	nd	Willara Sub basin	Carlbuddy					0.15				WCR(Analabs)
Juno 1				1590	1620	nd	Willara Sub basin	Carlbuddy					0.14				WCR(Analabs)
Juno 1				1620	1650	nd	Willara Sub basin	Nlita					0.16				WCR(Analabs)
Juno 1				1650	1680	nd	Willara Sub basin	Nlita					0.16				WCR(Analabs)
Juno 1				1680	1710	nd	Willara Sub basin	Nlita					0.09				WCR(Analabs)
Juno 1				1710	1740	nd	Willara Sub basin	Nlita					0.1				WCR(Analabs)
Juno 1				1740	1770	nd	Willara Sub basin	Nlita					0.1				WCR(Analabs)

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Justago 1	66130			215	215		Bulka Hills Sh.						0.17				orgchem
Justago 1	66131			385	385		Bulka Hills Sh.						0.1				orgchem
Justago 1	66132			681	681		Bulka Hills Sh.						0.08				orgchem
Justago 1	66133			681	681		Bulka Hills Sh.										orgchem
Justago 1	66134			892.5	892.5		Bulka Hills Sh.	Bugle Gap Lst					0.14				orgchem
Justago 1	66135			910	910		Bulka Hills Sh.	Bugle Gap Lst					0.13				orgchem
Justago 1	66137			942.5	942.5	nd	Bulka Hills Shelf	Bugle Gap Lst					0.15				orgchem
Justago 1	66136			942.5	942.5	nd	Bulka Hills Shelf	Bugle Gap Lst					0.21				orgchem
Justago 1	66138			1020	1020	nd	Bulka Hills Shelf	Bugle Gap Lst					0.08				orgchem
Justago 1	66143			1891.5	1891.5	nd	Bulka Hills Shelf	Pillara Lst	441	0.33	0.37	0.1	0.55				orgchem
Justago 1	66145			1950	1950	nd	Bulka Hills Shelf	Pillara Lst	443	0.19	0.38	0.17	0.42				orgchem
Justago 1	66147			2027	2027	nd	Bulka Hills Shelf	Pillara Lst	443	0.25	0.49	0.2	0.55				orgchem
Justago 1	66151			2450.1	2450.1	nd	Bulka Hills Shelf	Gap Creek Fm					0.19				orgchem
Justago 1	66157			3047.5	3047.5	nd	Bulka Hills Shelf	Kudata Dol.					0.18				orgchem
Justago 1	66158			3052.1	3052.1	nd	Bulka Hills Shelf	Kudata Dol.					0.42				orgchem
Justago 1	66159			3056.1	3056.1	nd	Bulka Hills Shelf	Kunlan Sst					0.11				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Kambara 1	54846			802.8	802.8	nd	Pender Embay.	Noonkanbah	434	0.7	2.4	0.4	3.27	0.23	73.39	12.23	orgchem
Kambara 1	54847			831.2	831.2	nd	Pender Embay.	Poole Sst	429	0.02	0.03	0.1	0.86	0.40	3.49	11.63	orgchem
Kambara 1	54848			881	881	nd	Pender Embay.	Grant Fm	436	0.3	0.4	0.1	0.71	0.43	56.34	14.08	orgchem
Kambara 1	54849			919.2	919.2	nd	Pender Embay.	Grant Fm	423	0.2	0.1	0.3	1.08	0.67	9.26	27.78	orgchem
Kambara 1	54850			944	944	nd	Pender Embay.	Grant Fm	429	0.2	0.3	0.4	0.59	0.40	50.85	67.80	orgchem
Kambara 1	54851			1119	1119	nd	Pender Embay.	Grant Fm									orgchem
Kambara 1	54852			1129.8	1129.8	nd	Pender Embay.	Grant Fm					0.28				orgchem
Kambara 1	54853			1168.4	1168.4	nd	Pender Embay.	Grant Fm					0.45				orgchem
Kambara 1	54854			1188.4	1188.4	nd	Pender Embay.	Grant Fm					0.42				orgchem
Kambara 1	54855			1198.8	1198.8	nd	Pender Embay.	Grant Fm	426	0.2	0.3	0.1	0.57	0.40	52.63	17.54	orgchem
Kambara 1	54856			1205	1205	nd	Pender Embay.	Grant Fm	396		0.2	0.1	0.56		35.71	17.86	orgchem
Kambara 1	54857			1520	1520	nd	Pender Embay.	Grant Fm					0.01				orgchem
Kambara 1	54858			1610	1610	nd	Pender Embay.	Laurel Fm	430		0.1	0.1	0.56		17.86	17.86	orgchem
Kambara 1	54859			1667.4	1667.4	nd	Pender Embay.	Laurel Fm	432	0.2	0.5	0.6	1.89	0.29	26.46	31.75	orgchem
Kambara 1	54860			1695.5	1695.5	nd	Pender Embay.	Laurel Fm	429	0.3	0.3	1.4	1.65	0.50	18.18	84.85	orgchem
Kambara 1	54861			1702	1702	nd	Pender Embay.	Laurel Fm	427	0.2	0.2	1	1.77	0.50	11.30	56.50	orgchem
Kambara 1	54862			1739.8	1739.8	nd	Pender Embay.	Laurel Fm	429	1.2	14.6	2.4	3.49	0.08	418.34	68.77	orgchem
Kambara 1	54863			1753.8	1753.8	nd	Pender Embay.	Laurel Fm	423	0.3	0.9	1.4	1.88	0.25	47.87	74.47	orgchem

Kambara 1	54864			2097.8	2097.8	nd	Pender Embay.	Pillara Lst	430	0.3	0.4	0.4	0.82	0.43	48.78	48.78	orgchem
Kambara 1	54865			2135.1	2135.1	nd	Pender Embay.	Pillara Lst	415	0.3	0.3	0.4	1.16	0.50	25.86	34.48	orgchem
Kambara 1	54866			2320	2320	nd	Pender Embay.	Pillara Lst					0.11				orgchem
Kambara 1	54867			2415	2415	nd	Pender Embay.	Pillara Lst					0.09				orgchem
Kambara 1	54868			2445	2445	nd	Pender Embay.	Pillara Lst					0.07				orgchem
Kambara 1	54869			2565	2565	nd	Pender Embay.	Pillara Lst					0.05				orgchem
Kambara 1	54870			2655	2655	nd	Pender Embay.	Pillara Lst	430		0.2	0.2	0.88		22.73	22.73	orgchem
Kambara 1	54871			2685	2685	nd	Pender Embay.	Pillara Lst					0.15				orgchem
Kambara 1	54872			2715	2715	nd	Pender Embay.	Pillara Lst					0.1				orgchem
Kambara 1	54873			2805	2805	nd	Pender Embay.	Sadler/Gogo					0.08				orgchem
Kambara 1	54874			2819.6	2819.6	nd	Pender Embay.	Sadler/Gogo	424	0.3	0.5	0.1	0.53	0.38	94.34	18.87	orgchem
Kambara 1	54875			2835	2835	nd	Pender Embay.	Sadler/Gogo					0.07				orgchem
Kambara 1	54876			2865	2865	nd	Pender Embay.	Sadler/Gogo					0.11				orgchem
Kambara 1	54877			2895	2895	nd	Pender Embay.	Sadler/Gogo					0.19				orgchem
Kambara 1	54878			2955	2955	nd	Pender Embay.	Sadler/Gogo					0.13				orgchem
Kambara 1	54879			2985	2985	nd	Pender Embay.	Sadler/Gogo	432	1.2	0.7	0.1	0.17	0.63	411.76	58.82	orgchem
Kambara 1	54880			2985	2985	nd	Pender Embay.	Sadler/Gogo					1.61				orgchem
Kambara 1	54881			3015	3015	nd	Pender Embay.	Sadler/Gogo	444	0.1	0.3	0.1	0.44	0.25	68.18	22.73	orgchem
Kambara 1	54882			3045	3045	nd	Pender Embay.	Sadler/Gogo	444	0.1	0.2	0.1	0.37	0.33	54.05	27.03	orgchem
Kambara 1	54883			3065	3065	nd	Pender Embay.	Sadler/Gogo									orgchem
Kambara 1	54884			3105	3105	nd	Pender Embay.	Sadler/Gogo					0.18				orgchem
Kambara 1	54885			3135	3135	nd	Pender Embay.	Sadler/Gogo				0.2	0.23			86.96	orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Katy 1	46774			475		I	Laurel Downs Terr	Noonkanbah Fm	435	0.01	0.62	0.39	2.48	0.03	25	15	orgchem/wcr
Katy 1	46775			530		I	Laurel Downs Terr	Noonkanbah Fm	435	0.02	0.4	0.17	1.61	0.05	24	10	orgchem/wcr
Katy 1	46776			585		I	Laurel Downs Terr	Noonkanbah Fm	434	0.01	0.55	0.18	2.03	0.02	27	8	orgchem/wcr
Katy 1	46777			605		I	Laurel Downs Terr	Noonkanbah Fm	433	0.03	1.05	0.4	2.62	0.03	40	15	orgchem/wcr
Katy 1	46778			625		I	Laurel Downs Terr	Noonkanbah Fm	431	0.04	1.29	0.6	3.02	0.03	42	19	orgchem/wcr
Katy 1	46779			650		I	Laurel Downs Terr	Noonkanbah Fm	430	0.05	2.3	0.99	3.6	0.02	63	27	orgchem/wcr
Katy 1	46780			675		I	Laurel Downs Terr	Noonkanbah Fm	430	0.03	1.26	0.46	2.18	0.02	57	21	orgchem/wcr
Katy 1	46781			695		I	Laurel Downs Terr	Noonkanbah Fm	431	0.06	2.78	0.64	2.8	0.02	99	22	orgchem/wcr
Katy 1	46782			715		I	Laurel Downs Terr	Poole Sst	431	0.02	0.55	0.26	0.92	0.04	59	28	orgchem/wcr
Katy 1	46783			730		I	Laurel Downs Terr	Poole Sst	435	0.04	1.4	0.49	1.55	0.03	90	31	orgchem/wcr
Katy 1	46784			830		H	Laurel Downs Terr	Grant	435	0.02	0.25	0.02	0.44	0.07	56	4	orgchem/wcr
Katy 1	46785			915		H	Laurel Downs Terr	Grant	434	0.03	0.28	0.01	0.47	0.1	59	2	orgchem/wcr
Katy 1	46786			1090		H	Laurel Downs Terr	Grant					0.36				orgchem/wcr
Katy 1	46787			1095		H	Laurel Downs Terr	Grant	429	0.05	0.24	0.01	0.45	0.17	53	2	orgchem/wcr
Katy 1	46788			1100		H	Laurel Downs Terr	Grant	396	0.6	1.18	0.01	0.77	0.34	153	1	orgchem/wcr
Katy 1	46789			1240		H	Laurel Downs Terr	Grant					0.29				orgchem/wcr
Katy 1	46790			1795		F	Laurel Downs Terr	Anderson Fm					0.21				orgchem/wcr
Katy 1	46791			1815		F	Laurel Downs Terr	Anderson Fm					0.37				orgchem/wcr
Katy 1	46792			1825		F	Laurel Downs Terr	Anderson Fm					0.23				orgchem/wcr
Katy 1	46793			1835		F	Laurel Downs Terr	Anderson Fm					0.22				orgchem/wcr
Katy 1	46794			1855		F	Laurel Downs Terr	Anderson Fm					0.38				orgchem/wcr
Katy 1	46795			1915		F	Laurel Downs Terr	Anderson Fm					0.35				orgchem/wcr
Katy 1	46796			1920		F	Laurel Downs Terr	Anderson Fm					0.21				orgchem/wcr

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Kemp Field 1				617		I	Munro Terr.	Dora Shale	437	0.03	0.1	0.32	0.81	0.25	12	39	Esso
Kemp Field 1				667		I	Munro Terr.	Dora shale	432	0.05	0.23	0.13	0.26	0.18	88	50	Esso
Kemp Field 1				1123		H	Munro Terr.	Grant	435	0.03	0	0.11	0.06	1	0	183	Esso
Kemp Field 1				1865	1875	H	Munro Terr.	Grant					0.24				Analabs
Kemp Field 1				1865	1875	H	Munro Terr.	Grant					0.35				Analabs
Kemp Field 1				2025	2035	D	Munro Terr.	Mellinjerle	433	0.1	0.6	0.22	0.44	0.14	136	50	Analabs
Kemp Field 1				2025	2035	D	Munro Terr.	Mellinjerle					0.38				Analabs
Kemp Field 1				2185	2190	D	Munro Terr.	Mellinjerle	428	0.04	0.37	0.34	0.34	0.1	108	100	Analabs
Kemp Field 1				2185	2190	D	Munro Terr.	Mellinjerle					0.3				Analabs

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Kennedia 1	46632			588.5	588.5	nd	Laurel Downs Terr.	Nura Nura mem	433	0.07	4.47	1.19	3.74	0.02	120		orgchem
Kennedia 1	46633			871	871	nd	Laurel Downs Terr.	Grant Fm					0.35				orgchem
Kennedia 1	46634			1232	1232	nd	Laurel Downs Terr.	Luluigui					0.38				orgchem
Kennedia 1	46635			1555	1555	nd	Laurel Downs Terr.	Luluigui					0.18				orgchem
Kennedia 1	46636			2038.2	2038.2	nd	Laurel Downs Terr.	Clanmyer					0.24				orgchem
Kennedia 1	4514			2367.5	2367.5	nd	Laurel Downs Terr.	Frasnian clastics	453	0.35	0.49	0.76					orgchem
Kennedia 1	46638			2368.9	2368.9	nd	Laurel Downs Terr.	Frasnian clastics	444	3.22	4.92	0.36	2.02	0.40	244		orgchem
Kennedia 1	4515			2542.5	2542.5	nd	Laurel Downs Terr.	Frasnian clastics	369	0.22	0.31	0.92					orgchem
Kennedia 1	46639			2549.5	2549.5	nd	Laurel Downs Terr.	Frasnian clastics					0.16				orgchem
Kennedia 1	46640			2605.5	2605.5	nd	Laurel Downs Terr.	Frasnian clastics	420	0.7	0.46		0.82		56		orgchem
Kennedia 1	46641			2884.2	2884.2	nd	Laurel Downs Terr.	Frasnian clastics	430	0.51	0.26	0.06	0.48	0.66	54		orgchem
Kennedia 1	46642			2943.1	2943.1	nd	Laurel Downs Terr.	Frasnian clastics	419	0.79	0.53	0.2	1.03	0.60	51		orgchem
Kennedia 1	46643			3180	3180	nd	Laurel Downs Terr.	Frasnian clastics					0.09				orgchem
Kennedia 1	46637			3257.5	3257.5	nd	Laurel Downs Terr.	Frasnian clastics	374	0.29	0.55	0.26	0.27	0.35	204		orgchem
Kennedia 1	46668			3257.5	3257.5	nd	Laurel Downs Terr.	Frasnian clastics									orgchem
Kennedia 1	46644			3311.9	3311.9	nd	Laurel Downs Terr.	Frasnian clastics					0.3				orgchem
Kennedia 1	46645			3368.5	3368.5	nd	Laurel Downs Terr.	Frasnian clastics					0.32				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Kidson 1	30063			1553.9	1553.9	D	Kidson s-basin	Mellinjerle Lst					0.03				orgchem
Kidson 1	31385			1576	1576	D	Kidson s-basin	Mellinjerle Lst									orgchem
Kidson 1	42054			1615.4	1615.4	D	Kidson s-basin	Mellinjerle Lst					0.17				orgchem
Kidson 1	52114			1615.44	1615.44	D	Kidson s-basin	Mellinjerle Lst					0.17				orgchem
Kidson 1	30064			1791	1791	D	Kidson s-basin	Mellinjerle Lst					0.03				orgchem
Kidson 1	30061			2609.7	2609.7	B	Kidson s-basin	Caribuddy Fm					0.1				orgchem
Kidson 1	30062			3743.9	3743.9	B	Kidson s-basin	Caribuddy Fm					0.2				orgchem
Kidson 1	31386			4184	4184	B	Kidson s-basin	Caribuddy Fm									orgchem
Kidson 1	48817			4284.4	4285.5	A2	Kidson s-basin	Goldwyer		8	5.8		2.1	0.58	276		orgchem
Kidson 1	48844			4284.4	4285.5	A2	Kidson s-basin	Goldwyer		0.6	3.4			0.15			orgchem
Kidson 1	48818			4297.7	4300.7	A2	Kidson s-basin	Goldwyer		7.2	6.7		2.4	0.52	279		orgchem
Kidson 1	48819			4312.9	4316.7	A2	Kidson s-basin	Goldwyer		7.1	6.5		1.5	0.52	433		orgchem
Kidson 1	48820			4328.2	4331.2	A2	Kidson s-basin	Goldwyer		7.6	8.6		3	0.47	287		orgchem
Kidson 1	48821			4343.4	4346.4	A2	Kidson s-basin	Goldwyer		9.2	9.5		3.5	0.49	271		orgchem
Kidson 1	48822			4358.6	4361.7	A2	Kidson s-basin	Goldwyer		9.8	8.8		3.4	0.53	259		orgchem
Kidson 1	48845			4358.6	4361.7	A2	Kidson s-basin	Goldwyer		0.9	5.7			0.14			orgchem
Kidson 1	48823			4364.4	4364.4	A2	Kidson s-basin	Goldwyer		0.1			0.18				orgchem
Kidson 1	5596			4364.43	4364.43	A2	Kidson s-basin	Goldwyer	380	0.01		0.1	0.07				orgchem
Kidson 1	48824			4365	4365	A2	Kidson s-basin	Goldwyer		0.2	0.1		0.32	0.67	31		orgchem
Kidson 1	48825			4365.7	4365.7	A2	Kidson s-basin	Goldwyer		0.2			0.27				orgchem
Kidson 1	48826			4366.3	4366.3	A2	Kidson s-basin	Goldwyer					0.24				orgchem

Kidson 1	48827			4366.9	4366.9	A2	Kidson s-basin	Goldwyer		0.1	0.1		0.2	0.50	50		orgchem
Kidson 1	48828			4367.5	4367.5	A2	Kidson s-basin	Goldwyer		0.2			0.29				orgchem
Kidson 1	30059			4367.5	4367.5	A2	Kidson s-basin	Goldwyer					0.2				orgchem
Kidson 1	5597			4367.8	4367.8	A2	Kidson s-basin	Goldwyer	364	0.02	0.04		0.24	0.33	17		orgchem
Kidson 1	48829			4368.1	4368.1	A2	Kidson s-basin	Goldwyer		0.1	0.1		0.2	0.50	50		orgchem
Kidson 1	48830			4368.7	4368.7	A2	Kidson s-basin	Goldwyer		0.2			0.27				orgchem
Kidson 1	48843			4368.75	4369.06	A2	Kidson s-basin	Goldwyer									orgchem
Kidson 1	48831			4373.9	4376.9	A2	Kidson s-basin	Goldwyer		11.7	11		0.2	0.52	5500		orgchem
Kidson 1	48832			4389.1	4392.2	A2	Kidson s-basin	Goldwyer		10.5	10		3.8	0.51	263		orgchem
Kidson 1	48833			4404.4	4404.7	A2	Kidson s-basin	Goldwyer		9.2	8.4		3	0.52	280		orgchem
Kidson 1	48835			4419.6	4422.6	A2	Kidson s-basin	Goldwyer		7.2	8.6		1.7	0.46	506		orgchem
Kidson 1	48846			4419.6	4422.6	A2	Kidson s-basin	Goldwyer		1	8.8			0.10			orgchem
Kidson 1	48834			4422.6	4422.6	A2	Kidson s-basin	Goldwyer		0.4	0.1		0.13	0.80	77		orgchem
Kidson 1	48836			4423.3	4423.3	A2	Kidson s-basin	Goldwyer		0.1			0.9				orgchem
Kidson 1	48837			4423.9	4423.9	A2	Kidson s-basin	Goldwyer		0.4	0.2		0.07	0.67	286		orgchem
Kidson 1	48838			4424.5	4424.5	A2	Kidson s-basin	Goldwyer		0.4	0.1		0.07	0.80	143		orgchem
Kidson 1	48839			4425.1	4425.1	A2	Kidson s-basin	Goldwyer		0.6	0.2		0.11	0.75	182		orgchem
Kidson 1	5598			4425.69	4425.69	A2	Kidson s-basin	Goldwyer	323	0.13	0.02		0.15	0.87	13		orgchem
Kidson 1	48840			4425.7	4425.7	A2	Kidson s-basin	Goldwyer		0.3			0.15				orgchem
Kidson 1	48841			4426.3	4426.3	A2	Kidson s-basin	Goldwyer		1.3	0.4		0.2	0.76	200		orgchem
Kidson 1	48842			4426.9	4426.9	A2	Kidson s-basin	Goldwyer		0.9	0.3		0.11	0.75	273		orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Liho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Kilang Kilang 1				360	390	I	Gregory s-basin	Noonkanbah Fm	425	0.04	0.33	1.01	1.79	0.11	18	56	company rep.
Kilang Kilang 1				390	420	I	Gregory s-basin	Noonkanbah Fm	430	0.02	0.13	1.21	1.32	0.13	9	91	company rep.
Kilang Kilang 1				406.4		I	Gregory s-basin	Noonkanbah Fm	429	0.17	0.48	0.3	2.39	0.26	20	12	company rep.
Kilang Kilang 1				420	450	I	Gregory s-basin	Noonkanbah Fm	433	0.04	0.2	1	1.39	0.17	14	71	company rep.
Kilang Kilang 1				437.7		I	Gregory s-basin	Noonkanbah Fm	437	0.12	0.07	2.56	0.56	0.63	12	457	company rep.
Kilang Kilang 1				450		I	Gregory s-basin	Noonkanbah Fm	426	0.14	0.32	0.24	1.51	0.3	21	15	company rep.
Kilang Kilang 1				450	480	I	Gregory s-basin	Noonkanbah Fm	431	0.04	0.14	1.98	1.19	0.22	11	166	company rep.
Kilang Kilang 1				476		I	Gregory s-basin	Noonkanbah Fm	431	0.1	0.23	0.66	1.52	0.3	15	43	company rep.
Kilang Kilang 1				480	510	I	Gregory s-basin	Noonkanbah Fm	436	0.02	0.14	1.06	1.29	0.13	10	127	company rep.
Kilang Kilang 1				510	540	I	Gregory s-basin	Noonkanbah Fm	433	0.03	0.2	1.76	1.41	0.13	14	124	company rep.
Kilang Kilang 1				524		I	Gregory s-basin	Noonkanbah Fm	430	0.09	0.38	0.22	1.96	0.19	19	11	company rep.
Kilang Kilang 1				540	570	I	Gregory s-basin	Noonkanbah Fm	435	0.03	0.23	1.88	1.3	0.12	17	144	company rep.
Kilang Kilang 1				545		I	Gregory s-basin	Noonkanbah Fm	431	0.24	0.53	0.26	1.54	0.31	34	16	company rep.
Kilang Kilang 1				570	600	I	Gregory s-basin	Noonkanbah Fm	437	0.07	0.24	2.3	0.88	0.23	27	261	company rep.
Kilang Kilang 1				600	630	I	Gregory s-basin	Noonkanbah Fm	428	0.27	1.57	1.35	1.99	0.15	78	67	company rep.
Kilang Kilang 1				610		I	Gregory s-basin	Noonkanbah Fm	430	0.13	0.7	0.33	2.48	0.16	28	13	company rep.
Kilang Kilang 1				630	660	I	Gregory s-basin	Noonkanbah Fm	429	0.1	3.77	0.11	2.62	0.03	143	4	company rep.
Kilang Kilang 1				631		I	Gregory s-basin	Noonkanbah Fm	428	0.14	3.07	1.61	3.48	0.04	88	46	company rep.
Kilang Kilang 1				642		I	Gregory s-basin	Noonkanbah Fm	430	0.11	2.04	0.15	2.39	0.05	85	6	company rep.
Kilang Kilang 1				660	690	I	Gregory s-basin	Noonkanbah Fm	429	0.09	3.33	0.24	2.63	0.03	126	9	company rep.

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Kunzea 1				354.42	354.42	A2	Barbwire Terr.	Goldwyer Fm	436	0.07	10.28		1.34	0.01	767		wmc/orgchem
Kunzea 1				379.95	379.95	A2	Barbwire Terr.	Goldwyer Fm	434	0.65	41.45		4.8	0.02	863		wmc/orgchem
Kunzea 1				390.18	390.18	A2	Barbwire Terr.	Goldwyer Fm	437	0.16	12.5		1.84	0.01	679		wmc/orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Lake Betty 1		300		91.44		nd	Gregory s-basin	Liveringa Fm					0.72				wcr
Lake Betty 1		400		121.92		nd	Gregory s-basin	Liveringa Fm					0.24				wcr
Lake Betty 1		500		152.4		nd	Gregory s-basin	Liveringa Fm					0.70				wcr
Lake Betty 1		600		182.88		nd	Gregory s-basin	Liveringa Fm					0.58				wcr
Lake Betty 1		700		213.36		nd	Gregory s-basin	Liveringa Fm	430	<.1	0.58	1.84	1.95		30	94	wcr
Lake Betty 1		800		243.84		nd	Gregory s-basin	Liveringa Fm		<.1	0.14	0.54	0.75		18	72	wcr
Lake Betty 1		900		274.32		nd	Gregory s-basin	Liveringa Fm	431	<.1	0.19	1.23	1.01		19	122	wcr
Lake Betty 1		1000		304.8		nd	Gregory s-basin	Liveringa Fm	430	<.1	0.17	1.19	1.10		15	108	wcr
Lake Betty 1		1100		335.28		nd	Gregory s-basin	Liveringa Fm	432	<.1	0.17	1	0.87		20	115	wcr
Lake Betty 1		1200		365.76		nd	Gregory s-basin	Liveringa Fm	430	0.13	0.54	2.09	1.96	0.19	27	107	wcr
Lake Betty 1		1300		396.24		nd	Gregory s-basin	Noonkanbah Fm	430	0.11	0.57	1.7	1.97	0.16	29	86	wcr
Lake Betty 1		1400		426.72		nd	Gregory s-basin	Noonkanbah Fm	429	0.1	0.35	1.95	1.71	0.22	21	114	wcr
Lake Betty 1		1500		457.2		nd	Gregory s-basin	Noonkanbah Fm	422	0.24	1.73	4.94	1.44	0.12	120	343	wcr
Lake Betty 1		1600		487.68		nd	Gregory s-basin	Noonkanbah Fm		0.1	0.19	3.25	1.39	0.35	13	234	wcr
Lake Betty 1		1700		518.16		nd	Gregory s-basin	Noonkanbah Fm	432	<.1	0.34	2.32	1.59		22	146	wcr
Lake Betty 1		1800		548.64		nd	Gregory s-basin	Noonkanbah Fm	433	<.1	0.62	2.59	2.13		29	122	wcr
Lake Betty 1		1900		579.12		nd	Gregory s-basin	Noonkanbah Fm	431	<.1	0.62	2.22	2.17		29	103	wcr
Lake Betty 1		2000		609.6		nd	Gregory s-basin	Noonkanbah Fm	435	<.1	0.45	1.92	2.07		22	93	wcr
Lake Betty 1		2100		640.08		nd	Gregory s-basin	Noonkanbah Fm	434	<.1	0.98	1.8	3.09		32	58	wcr
Lake Betty 1		2200		670.56		nd	Gregory s-basin	Noonkanbah Fm	434	<.1	2.19	1.61	3.29		67	49	wcr
Lake Betty 1		2300		701.04		nd	Gregory s-basin	Poole Sst	435	<.1	1.54	1.52	1.94		80	79	wcr
Lake Betty 1		2400		731.52		nd	Gregory s-basin	Poole Sst	436	0.15	1.53	1.43	1.94	0.09	79	74	wcr
Lake Betty 1		2500		762		nd	Gregory s-basin	Poole Sst	434	0.3	3.18	2.46	3.19	0.09	100	77	wcr
Lake Betty 1		2600		792.48		nd	Gregory s-basin	Grant Fm	432	0.3	10.45	1.4	4.81	0.03	217	29	wcr
Lake Betty 1		2700		822.96		nd	Gregory s-basin	Grant Fm	433	0.37	4.29	1.16	2.73	0.08	157	43	wcr
Lake Betty 1		2800		853.44		nd	Gregory s-basin	Grant Fm					0.35				wcr
Lake Betty 1		2900		883.92		nd	Gregory s-basin	Grant Fm					0.93				wcr
Lake Betty 1		3000		914.4		nd	Gregory s-basin	Grant Fm					0.51				wcr
Lake Betty 1		3100		944.88		nd	Gregory s-basin	Grant Fm					0.41				wcr
Lake Betty 1		3200		975.36		nd	Gregory s-basin	Grant Fm					0.55				wcr
Lake Betty 1		3300		1005.84		nd	Gregory s-basin	Grant Fm					0.45				wcr
Lake Betty 1		3400		1036.32		nd	Gregory s-basin	Grant Fm					0.51				wcr
Lake Betty 1		3500		1066.8		nd	Gregory s-basin	Grant Fm					0.51				wcr
Lake Betty 1		3600		1097.28		nd	Gregory s-basin	Grant Fm					0.27				wcr
Lake Betty 1		3700		1127.76		nd	Gregory s-basin	Grant Fm					0.16				wcr
Lake Betty 1		3800		1158.24		nd	Gregory s-basin	Grant Fm					0.16				wcr
Lake Betty 1		3900		1188.72		nd	Gregory s-basin	Grant Fm					0.41				wcr
Lake Betty 1				1200		nd	Gregory s-basin	Grant Fm	430	0.13	0.54	2.09	1.96	0.19	27	107	wcr
Lake Betty 1		4000		1219.2		nd	Gregory s-basin	Grant Fm					0.21				wcr

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Liitho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Lake Betty 1		4100		1249.68		nd	Gregory s-basin	Grant Fm					0.31				wcr
Lake Betty 1		4200		1280.16		nd	Gregory s-basin	Grant Fm					0.16				wcr
Lake Betty 1				1300		nd	Gregory s-basin	Grant Fm	430	0.11	0.57	1.7	1.97	0.16	29	86	wcr
Lake Betty 1		4300		1310.64		nd	Gregory s-basin	Grant Fm					0.32				wcr
Lake Betty 1		4400		1341.12		nd	Gregory s-basin	Grant Fm					0.16				wcr
Lake Betty 1		4500		1371.6		nd	Gregory s-basin	Grant Fm					0.18				wcr
Lake Betty 1				1400		nd	Gregory s-basin	Grant Fm	429	0.1	0.35	1.95	1.71	0.22	21	114	wcr
Lake Betty 1		4600		1402.08		nd	Gregory s-basin	Grant Fm					0.23				wcr
Lake Betty 1		4700		1432.56		nd	Gregory s-basin	Grant Fm					0.21				wcr
Lake Betty 1		4800		1463.04		nd	Gregory s-basin	Grant Fm					0.09				wcr
Lake Betty 1		4900		1493.52		nd	Gregory s-basin	Grant Fm					0.09				wcr
Lake Betty 1				1500		nd	Gregory s-basin	Grant Fm	422	0.24	1.73	4.94	1.44	0.12	120	343	wcr
Lake Betty 1		5000		1524		nd	Gregory s-basin	Grant Fm					0.16				wcr
Lake Betty 1		5100		1554.48		nd	Gregory s-basin	Grant Fm					0.11				wcr
Lake Betty 1		5200		1584.96		nd	Gregory s-basin	Grant Fm					0.21				wcr
Lake Betty 1				1600		nd	Gregory s-basin	Grant Fm		0.1	0.19	3.25	1.39	0.35	13	234	wcr
Lake Betty 1		5300		1615.44		nd	Gregory s-basin	Grant Fm					0.10				wcr
Lake Betty 1		5400		1645.92		nd	Gregory s-basin	Grant Fm					0.09				wcr
Lake Betty 1				1700		nd	Gregory s-basin	Grant Fm	432	0.1	0.34	2.32	1.59		22	146	wcr
Lake Betty 1				1800		nd	Gregory s-basin	Grant Fm	433	0.1	0.62	2.59	2.13		29	122	wcr
Lake Betty 1		6100		1859.28		nd	Gregory s-basin	Anderson Fm	449	0.2	1.64	0.93	1.98	0.11	83	47	wcr
Lake Betty 1		6200		1889.76		nd	Gregory s-basin	Anderson Fm	452	0.16	1.42	0.74	1.36	0.1	105	55	wcr
Lake Betty 1				1900		nd	Gregory s-basin	Anderson Fm	431	0.1	0.62	2.22	2.17		29	103	wcr
Lake Betty 1		6300		1920.24		nd	Gregory s-basin	Anderson Fm					0.37				wcr
Lake Betty 1		6400		1950.72		nd	Gregory s-basin	Anderson Fm	449	0.17	1.31	0.76	1.41	0.11	93	54	wcr
Lake Betty 1		6500		1981.2		nd	Gregory s-basin	Anderson Fm	447	0.15	0.91	0.65	1.16	0.14	78	56	wcr
Lake Betty 1				2000		nd	Gregory s-basin	Anderson Fm	435	0.1	0.45	1.92	2.07		22	93	wcr
Lake Betty 1		6600		2011.68		nd	Gregory s-basin	Anderson Fm	453	0.14	1.54	0.41	2.08	0.08	74	20	wcr
Lake Betty 1		6700		2042.16		nd	Gregory s-basin	Anderson Fm					0.28				wcr
Lake Betty 1		6800		2072.64		nd	Gregory s-basin	Anderson Fm					0.33				wcr
Lake Betty 1				2100		nd	Gregory s-basin	Anderson Fm	434	0.1	0.98	1.8	3.09		32	58	wcr
Lake Betty 1		6900		2103.12		nd	Gregory s-basin	Anderson Fm					0.22				wcr
Lake Betty 1		7000		2133.6		nd	Gregory s-basin	Anderson Fm					0.44				wcr
Lake Betty 1		7100		2164.08		nd	Gregory s-basin	Anderson Fm					0.76				wcr
Lake Betty 1		7200		2194.56		nd	Gregory s-basin	Anderson Fm					0.82				wcr
Lake Betty 1				2200		nd	Gregory s-basin	Anderson Fm	434	0.1	2.19	1.61	3.29		67	49	wcr
Lake Betty 1		7300		2225.04		nd	Gregory s-basin	Anderson Fm					0.62				wcr
Lake Betty 1		7400		2255.52		nd	Gregory s-basin	Anderson Fm					0.49				wcr
Lake Betty 1		7500		2286		nd	Gregory s-basin	Anderson Fm					0.53				wcr

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Lake Betty 1		7600		2316.48		nd	Gregory s-basin	Laurel Fm					0.57				wcr
Lake Betty 1		7700		2346.96		nd	Gregory s-basin	Laurel Fm					0.32				wcr
Lake Betty 1		7800		2377.44		nd	Gregory s-basin	Laurel Fm					0.41				wcr
Lake Betty 1		7900		2407.92		nd	Gregory s-basin	Laurel Fm					0.22				wcr
Lake Betty 1		8000		2438.4		nd	Gregory s-basin	Laurel Fm					0.27				wcr
Lake Betty 1		8100		2468.88		nd	Gregory s-basin	Laurel Fm					0.30				wcr
Lake Betty 1		8200		2499.36		nd	Gregory s-basin	Laurel Fm					0.42				wcr
Lake Betty 1		8300		2529.84		nd	Gregory s-basin	Laurel Fm					0.42				wcr
Lake Betty 1		8400		2560.32		nd	Gregory s-basin	Laurel Fm					0.60				wcr
Lake Betty 1		8500		2590.8		nd	Gregory s-basin	Luluigul Fm					0.31				wcr
Lake Betty 1		8600		2621.28		nd	Gregory s-basin	Luluigul Fm					0.37				wcr
Lake Betty 1		8700		2651.76		nd	Gregory s-basin	Luluigul Fm					0.36				wcr
Lake Betty 1		8800		2682.24		nd	Gregory s-basin	Luluigul Fm					0.73				wcr
Lake Betty 1		8900		2712.72		nd	Gregory s-basin	Luluigul Fm					0.91				wcr
Lake Betty 1		9000		2743.2		nd	Gregory s-basin	Luluigul Fm					0.78				wcr
Lake Betty 1		9100		2773.68		nd	Gregory s-basin	Luluigul Fm					0.41				wcr
Lake Betty 1		9200		2804.16		nd	Gregory s-basin	Luluigul Fm					0.46				wcr
Lake Betty 1		9300		2834.64		nd	Gregory s-basin	Luluigul Fm					0.45				wcr
Lake Betty 1		9400		2865.12		nd	Gregory s-basin	Luluigul Fm					0.18				wcr
Lake Betty 1		9500		2895.6		nd	Gregory s-basin	Luluigul Fm					0.22				wcr
Lake Betty 1		9600		2926.08		nd	Gregory s-basin	Luluigul Fm					0.58				wcr
Lake Betty 1		9700		2956.56		nd	Gregory s-basin	Luluigul Fm					0.21				wcr
Lake Betty 1		9800		2987.04		nd	Gregory s-basin	Luluigul Fm					0.14				wcr
Lake Betty 1		9900		3017.52		nd	Gregory s-basin	Luluigul Fm					0.21				wcr
Lake Betty 1		10000		3048		nd	Gregory s-basin	Luluigul Fm					0.41				wcr
Lake Betty 1		10100		3078.48		nd	Gregory s-basin	Luluigul Fm					0.33				wcr
Lake Betty 1		10200		3108.96		nd	Gregory s-basin	PoultonFm					0.57				wcr
Lake Betty 1		10300		3139.44		nd	Gregory s-basin	PoultonFm					0.70				wcr

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Langoora 1				1382		F	Laurel Downs Terr	Laurel Fm	427	0.03	0.33	0.83	0.75	0.12	29	110	WAMPRI
Langoora 1				1491		E	Laurel Downs Terr	Yellow Drum	427	0.2	0.87	0.47	0.85	0.19	102	55	WAMPRI

well name	BMR Lab No.	depth top (feet)	depth base (feet)	depth top (m)	depth base (m)	St II Unit	Structural Element	litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Leo 1				0	223	L	Broome Platform	Broome					nd				
Leo 1				223	573	K	Broome Platform	Jarlemi-Wallal					nd				
Leo 1				660	680	H	Broome Platform	Grant	426	0.04	0.30	0.40	0.80	0.12	37	50	wcr(amdel)
Leo 1				680	700	H	Broome Platform	Grant	430	0.04	0.27	0.26	0.70	0.13	38	37	wcr(amdel)
Leo 1				700	720	H	Broome Platform	Grant	305	0.07	0.21	0.60	0.56	0.25	37	107	wcr(amdel)
Leo 1				720	740	H	Broome Platform	Grant	430	0.20	0.72	1.09	0.58	0.22	124	187	wcr(amdel)
Leo 1				740	760	H	Broome Platform	Grant	426	0.11	0.38	0.63	0.52	0.23	73	121	wcr(amdel)
Leo 1				760	780	H	Broome Platform	Grant	426	0.10	0.45	0.65	0.46	0.19	97	141	wcr(amdel)
Leo 1				780	800	H	Broome Platform	Grant	322	0.06	0.25	0.52	0.56	0.20	44	92	wcr(amdel)
Leo 1				800	820	H	Broome Platform	Grant	275	0.05	0.12	0.53	0.51	0.31	23	103	wcr(amdel)
Leo 1				820	840	H	Broome Platform	Grant	336	0.02	0.14	0.29	0.92	0.12	15	31	wcr(amdel)
Leo 1				840	860	H	Broome Platform	Grant					0.28				wcr(amdel)
Leo 1				860	880	H	Broome Platform	Grant					0.29				wcr(amdel)
Leo 1				880	900	H	Broome Platform	Grant					0.15				wcr(amdel)
Leo 1				900	920	H	Broome Platform	Grant					0.10				wcr(amdel)
Leo 1				920	940	H	Broome Platform	Grant					0.08				wcr(amdel)
Leo 1				940	960	C	Broome Platform	Worral					0.10				wcr(amdel)
Leo 1				960	980	C	Broome Platform	Worral					0.23				wcr(amdel)
Leo 1				980	1000	C	Broome Platform	Worral					0.09				wcr(amdel)
Leo 1				1000	1020	C	Broome Platform	Worral					0.10				wcr(amdel)
Leo 1				1020	1040	C	Broome Platform	Worral					0.07				wcr(amdel)
Leo 1				1040	1060	C	Broome Platform	Worral					0.04				wcr(amdel)
Leo 1				1060	1080	B2	Broome Platform	Sahara (A)					0.03				wcr(amdel)
Leo 1				1080	1100	B2	Broome Platform	Sahara (A)					0.16				wcr(amdel)
Leo 1				1100	1120	B2	Broome Platform	Sahara (A)					0.09				wcr(amdel)
Leo 1				1120	1140	B2	Broome Platform	Sahara (A)					0.08				wcr(amdel)
Leo 1				1140	1160	B1	Broome Platform	Mallowa Salt (B)					0.17				wcr(amdel)
Leo 1				1160	1180	B1	Broome Platform	Mallowa Salt (B)					0.22				wcr(amdel)
Leo 1				1180	1200	B1	Broome Platform	Mallowa Salt (B)					0.09				wcr(amdel)
Leo 1				1200	1220	B1	Broome Platform	Mallowa Salt (B)					0.16				wcr(amdel)
Leo 1				1220	1240	B1	Broome Platform	Mallowa Salt (B)					0.16				wcr(amdel)
Leo 1				1240	1260	B1	Broome Platform	Mallowa Salt (B)					0.22				wcr(amdel)
Leo 1				1260	1280	B1	Broome Platform	Low. Mallowa Salt (B)	427	0.99	3.03	1.44	0.76	0.25	398	189	wcr(amdel)
Leo 1				1280	1300	B1	Broome Platform	Low. Mallowa Salt (B)	410	2.71	6.26	2.10	1.28	0.30	489	164	wcr(amdel)
Leo 1				1300	1320	B1	Broome Platform	Low. Mallowa Salt (B)	426	0.53	1.30	1.13	0.52	0.29	250	217	wcr(amdel)
Leo 1				1320	1340	B1	Broome Platform	Low. Mallowa Salt (B)					0.28				wcr(amdel)
Leo 1				1340	1360	B1	Broome Platform	Nibil (C)					0.16				wcr(amdel)
Leo 1				1360	1380	B1	Broome Platform	Nibil (C)					0.15				wcr(amdel)
Leo 1				1380	1400	B1	Broome Platform	Nibil (C)					0.09				wcr(amdel)
Leo 1				1400	1420	B1	Broome Platform	Nibil (C)					0.13				wcr(amdel)
Leo 1				1420	1440	B1	Broome Platform	Minjoo Salt (D)					0.21				wcr(amdel)
Leo 1				1440	1460	B1	Broome Platform	Minjoo Salt (D)	397	0.41	1.34	1.04	0.61	0.24	219	170	wcr(amdel)

Leo 1				1460	1475	B1	Broome Platform	Bongabinni (E)					0.24				wcr(amdel)
Leo 1				1475	1490	B1	Broome Platform	Bongabinni (E)					0.16				wcr(amdel)
Leo 1				1490	1505	B1	Broome Platform	Bongabinni (E)					0.20				wcr(amdel)
Leo 1				1505	1520	B1	Broome Platform	Bongabinni (E)					0.13				wcr(amdel)
Leo 1				1520	1535	B1	Broome Platform	Bongabinni (E)					0.15				wcr(amdel)
Leo 1				1535	1550	A2	Broome Platform	Nita					0.12				wcr(amdel)
Leo 1				1550	1565	A2	Broome Platform	Nita					0.15				wcr(amdel)
Leo 1				1565	1580	A2	Broome Platform	Nita	403	0.30	1.80	0.31	0.41	0.14	439	75	wcr(amdel)
Leo 1				1577.5	1577.5	A2	Broome Platform	Nita	481	0.01	0.03	1.14					orgchem
Leo 1				1578.25	1578.25	A2	Broome Platform	Nita	336	0.01	0.02	1.21					orgchem
Leo 1				1578.5	1578.5	A2	Broome Platform	Nita	281	0.01	0.03	1.48					orgchem
Leo 1				1580	1595	A2	Broome Platform	Nita					0.22				wcr(amdel)
Leo 1				1581	1581	A2	Broome Platform	Nita	258			1.17					orgchem
Leo 1				1584.8	1584.8	A2	Broome Platform	Nita	337	0.01	0.04	1.31					orgchem
Leo 1				1595	1610	A2	Broome Platform	Nita					0.08				wcr(amdel)
Leo 1				1610	1625	A2	Broome Platform	Nita					0.10				wcr(amdel)
Leo 1				1625	1640	A2	Broome Platform	Nita					0.10				wcr(amdel)
Leo 1				1640	1655	A2	Broome Platform	Nita					0.11				wcr(amdel)
Leo 1				1655	1670	A2	Broome Platform	Goldwyer					0.15				wcr(amdel)
Leo 1				1670	1685	A2	Broome Platform	Goldwyer					0.16				wcr(amdel)
Leo 1				1685	1700	A2	Broome Platform	Goldwyer					0.23				wcr(amdel)
Leo 1				1700	1715	A2	Broome Platform	Goldwyer					0.20				wcr(amdel)
Leo 1				1715	1730	A2	Broome Platform	Goldwyer					0.14				wcr(amdel)
Leo 1				1730	1745	A2	Broome Platform	Goldwyer					0.10				wcr(amdel)
Leo 1				1745	1760	A2	Broome Platform	Goldwyer					0.12				wcr(amdel)
Leo 1				1760	1775	A2	Broome Platform	Goldwyer					0.15				wcr(amdel)
Leo 1				1775	1790	A2	Broome Platform	Goldwyer					0.12				wcr(amdel)
Leo 1				1790	1805	A2	Broome Platform	Goldwyer					0.15				wcr(amdel)
Leo 1				1805	1820	A2	Broome Platform	Goldwyer					0.14				wcr(amdel)
Leo 1				1820	1835	A2	Broome Platform	Goldwyer					0.17				wcr(amdel)
Leo 1				1835	1850	A2	Broome Platform	Goldwyer					0.19				wcr(amdel)
Leo 1				1850	1865	A2	Broome Platform	Goldwyer					0.18				wcr(amdel)
Leo 1				1865	1880	A2	Broome Platform	Goldwyer					0.22				wcr(amdel)
Leo 1				1880	1895	A2	Broome Platform	Goldwyer					0.18				wcr(amdel)
Leo 1				1895	1910	A2	Broome Platform	Goldwyer					0.17				wcr(amdel)
Leo 1				1910	1925	A2	Broome Platform	Goldwyer					0.21				wcr(amdel)
Leo 1				1925	1940	A2	Broome Platform	Goldwyer					0.16				wcr(amdel)
Leo 1				1940	1955	A2	Broome Platform	Goldwyer					0.23				wcr(amdel)
Leo 1				1955	1970	A2	Broome Platform	Willara					0.22				wcr(amdel)
Leo 1				1970	1985	A1	Broome Platform	Willara					0.21				wcr(amdel)
Leo 1				1985	2000	A1	Broome Platform	Willara					0.10				wcr(amdel)
Leo 1				2000	2015	A1	Broome Platform	Willara					0.15				wcr(amdel)
Leo 1				2015	2030	A1	Broome Platform	Willara					0.18				wcr(amdel)
Leo 1				2030	2045	A1	Broome Platform	Willara					0.19				wcr(amdel)
Leo 1				2045	2060	A1	Broome Platform	Willara					0.19				wcr(amdel)
Leo 1				2060	2075	A1	Broome Platform	Willara					0.24				wcr(amdel)

Leo 1				2075	2090	A1	Broome Platform	Willara						0.16			wcr(amdel)
Leo 1				2090	2105	A1	Broome Platform	Willara						0.22			wcr(amdel)
Leo 1				2105	2120	A1	Broome Platform	Willara						0.18			wcr(amdel)
Leo 1				2120	2135	A1	Broome Platform	Willara						0.17			wcr(amdel)
Leo 1				2135	2150	A1	Broome Platform	Willara						0.16			wcr(amdel)
Leo 1				2150	2165	A1	Broome Platform	Willara						0.12			wcr(amdel)
Leo 1				2165	2180	A1	Broome Platform	Willara						0.14			wcr(amdel)
Leo 1				2180	2195	A1	Broome Platform	Willara						0.15			wcr(amdel)
Leo 1				2195	2210	A1	Broome Platform	Willara						0.17			wcr(amdel)
Leo 1				2210	2225	A1	Broome Platform	Willara						0.17			wcr(amdel)
Leo 1				2225	2240	A1	Broome Platform	Willara						0.23			wcr(amdel)
Leo 1				2240	2255	A1	Broome Platform	Willara						0.16			wcr(amdel)
Leo 1				2255	2270	Ao	Broome Platform	Nambeef						0.18			wcr(amdel)
Leo 1				2270	2285	Ao	Broome Platform	Nambeef						0.20			wcr(amdel)
Leo 1				2285	2300	Ao	Broome Platform	Nambeef						0.15			wcr(amdel)
Leo 1				2300	2315	Ao	Broome Platform	Nambeef						0.09			wcr(amdel)
Leo 1				2315	2330	Ao	Broome Platform	Nambeef						0.11			wcr(amdel)
Leo 1				2330	2345	bsmnt	Broome Platform	Metaseds (basement)						0.08			wcr(amdel)

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Lloyd 1				1765.00		F	Laurel Downs Terr.	Laurel Fm	428	0.03	0.15	0.74		0.17			Analabs/Home
Lloyd 1				1767.50		F	Laurel Downs Terr.	Laurel Fm	429	0.06	0.29	0.55		0.17			Analabs/Home
Lloyd 1				1770.00		F	Laurel Downs Terr.	Laurel Fm	430	0.05	0.22	0.39		0.19			Analabs/Home
Lloyd 1				1772.50		F	Laurel Downs Terr.	Laurel Fm	407	0.15	0.14	0.47		0.52			Analabs/Home
Lloyd 1				1775.00		F	Laurel Downs Terr.	Laurel Fm	420	0.16	0.12	0.44		0.57			Analabs/Home
Lloyd 1				1777.50		F	Laurel Downs Terr.	Laurel Fm	426	0.05	0.11	0.49		0.31			Analabs/Home
Lloyd 1				1780.00		F	Laurel Downs Terr.	Laurel Fm	427	0.06	0.16	0.52		0.27			Analabs/Home
Lloyd 1				1837.50		F	Laurel Downs Terr.	Laurel Fm	430	0.02	0.09	0.64		0.18			Analabs/Home
Lloyd 1				1840.00		F	Laurel Downs Terr.	Laurel Fm	430	0.02	0.07	0.45		0.22			Analabs/Home
Lloyd 1				1842.50		F	Laurel Downs Terr.	Laurel Fm	422	0.02	0.05	0.47		0.29			Analabs/Home
Lloyd 1				1845.00		F	Laurel Downs Terr.	Laurel Fm	429	0.04	0.08	0.47		0.33			Analabs/Home
Lloyd 1				1852.50		F	Laurel Downs Terr.	Laurel Fm	426	0.01	0.06	0.38		0.14			Analabs/Home
Lloyd 1				1855.00		F	Laurel Downs Terr.	Laurel Fm	426	0.07	0.11	0.33		0.39			Analabs/Home
Lloyd 1				1857.50		F	Laurel Downs Terr.	Laurel Fm	419	0.09	0.1	0.35		0.47			Analabs/Home
Lloyd 1				1860.00		F	Laurel Downs Terr.	Laurel Fm	423	0.06	0.09	0.49		0.4			Analabs/Home
Lloyd 1				1862.50		F	Laurel Downs Terr.	Laurel Fm	425	0.06	0.16	0.5					Analabs/Home
Lloyd 1				1865.00		F	Laurel Downs Terr.	Laurel Fm	429	0.04	0.11	0.5		0.27			Analabs/Home
Lloyd 1				1875.00		F	Laurel Downs Terr.	Laurel Fm	425	0.01	0.02	0.35		0.33			Analabs/Home
Lloyd 1				1877.50		F	Laurel Downs Terr.	Yellow Drum Fm	298	<.01	<.1	0.49		nd			Analabs/Home
Lloyd 1				1880.00		F	Laurel Downs Terr.	Yellow Drum Fm	273	0.01	1.01	0.37		0.5			Analabs/Home

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Logue 1	42055			1527	1527	F	Jurgurra Terrace	Laurel Fm					0.25				orgchem
Logue 1	42056			1834.9	1834.9	E	Jurgurra Terrace	Clanmeyer Fm					0.17				orgchem
Logue 1	42057			1981.2	1981.2	E	Jurgurra Terrace	Clanmeyer Fm					0.15				orgchem
Logue 1	42058			2136.6	2136.6	E	Jurgurra Terrace	Clanmeyer Fm					0.13				orgchem
Logue 1	42059			2286	2286	E	Jurgurra Terrace	Clanmeyer Fm					0.14				orgchem
Logue 1	42060			2438.4	2438.4	E	Jurgurra Terrace	Clanmeyer Fm					0.16				orgchem
Logue 1	42045			2590.8	2590.8	E	Jurgurra Terrace	Clanmeyer Fm	447	0.2	0.08	0.06	1.6	0.71	5	3.75	orgchem
Logue 1	42061			2590.8	2590.8	E	Jurgurra Terrace	Clanmeyer Fm					1.6				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Matches Springs 1				53.30		K	Dampler Terr.	Wallal Sandstone					0.1	0.00	100		BP Res Cen
Matches Springs 1				123.40	173.70	H	Dampler Terr.	Grant Sandstone					0.1	0.00	100		BP Res Cen
Matches Springs 1				239.30	294.10	H	Dampler Terr.	Grant Sandstone					0.1	0.00	100		BP Res Cen
Matches Springs 1				353.60	400.80	H	Dampler Terr.	Grant Sandstone					0.2	0.00	50		BP Res Cen
Matches Springs 1				483.10	541.00	H	Dampler Terr.	Grant Sandstone					0.2	0.10	50		BP Res Cen
Matches Springs 1				630.90		E	Dampler Terr.	Nullara					0	0.00			BP Res Cen
Matches Springs 1				690.10		E	Dampler Terr.	Nullara					0	0.00			BP Res Cen
Matches Springs 1				778.80	868.70	E	Dampler Terr.	Nullara					1	0.10	130		BP Res Cen
Matches Springs 1				1028.70		E	Dampler Terr.	Nullara					0	0.00			BP Res Cen
Matches Springs 1				1133.90		E	Dampler Terr.	Nullara					0	0.00			BP Res Cen
Matches Springs 1				1185.70		E	Dampler Terr.	Nullara					0.1	0.00	100		BP Res Cen
Matches Springs 1				1211.60		D	Dampler Terr.	Pillara/Gogo					0.1	0.00	100		BP Res Cen
Matches Springs 1				1221.60		D	Dampler Terr.	Pillara/Gogo					0.1	0.00	100		BP Res Cen
Matches Springs 1				1234.00		D	Dampler Terr.	Pillara/Gogo	425	0.02	0.1		0.32	0.17			WAIT
Matches Springs 1				1237.00		D	Dampler Terr.	Pillara/Gogo	383	0.03	0.02	0.44	0.3	0.75	6	146	Esso
Matches Springs 1				1306.10	1370.10	D	Dampler Terr.	Pillara/Gogo					0.1	0.00	100		BP Res Cen
Matches Springs 1				1346.00		D	Dampler Terr.	Pillara/Gogo	444	0.03	0.05	1.27	0.1	0.37	50	1270	Esso
Matches Springs 1				1388.00		D	Dampler Terr.	Pillara/Gogo					0.1	0.00	100		BP Res Cen
Matches Springs 1				1450.80	1505.70	D	Dampler Terr.	Pillara/Gogo					0.2	0.00	50		BP Res Cen
Matches Springs 1				1533.10	1536.10	D	Dampler Terr.	Pillara/Gogo		0.3	0.27						BP Res Cen
Matches Springs 1				1533.75		D	Dampler Terr.	Pillara/Gogo					0.1	0.00	100		BP Res Cen
Matches Springs 1				1533.78		D	Dampler Terr.	Pillara/Gogo					1.7	0.10	88		BP Res Cen
Matches Springs 1		5032.3		1533.85		D	Dampler Terr.	Pillara/Gogo					3.43				Exxon Prod Res co
Matches Springs 1		5032.5		1533.91		D	Dampler Terr.	Pillara/Gogo					1.43				Exxon Prod Res co
Matches Springs 1				1534.00		D	Dampler Terr.	Pillara/Gogo		0.35	0.31						Fry BP Res Cent
Matches Springs 1				1536.10		D	Dampler Terr.	Pillara/Gogo		0.3	0.27						BP Res Cen
Matches Springs 1				1583.40	1696.20	D	Dampler Terr.	Pillara/Gogo					0.2	0.10	150		BP Res Cen
Matches Springs 1				1691.70		D	Dampler Terr.	Pillara/Gogo					0.3	0.00	100		BP Res Cen
Matches Springs 1		5552		1692.25		D	Dampler Terr.	Pillara/Gogo					4.11				Exxon Prod Res co
Matches Springs 1				1694.20		D	Dampler Terr.	Pillara/Gogo					0.2	0.00	50		BP Res Cen
Matches Springs 1				1709.00		D	Dampler Terr.	Dominic Sh	280	0.02	0.03		0.23	0.00			WAIT
Matches Springs 1				1709.90		D	Dampler Terr.	Dominic Sh					0.1	0.00	200		BP Res Cen
Matches Springs 1				1710.60		D	Dampler Terr.	Dominic Sh					0.2	0.00	50		BP Res Cen
Matches Springs 1				1816.60	1874.50	C	Dampler Terr.	Carribuddy (dol sh)					0.2	0.00	50		BP Res Cen
Matches Springs 1				2049.80		B1	Dampler Terr.	Nlita					0.2	0.00	100		BP Res Cen
Matches Springs 1				2079.00		B1	Dampler Terr.	Nlita	423	0.06	0.17	0.29	0.21	0.27	80	138	Esso

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Matches Springs 1				2081.80		B1	Damplerr Terr.	Niita					0.1	0.00			BP Res Cen
Matches Springs 1				2101.00		B1	Damplerr Terr.	Niita	414	0.02	0.1		0.14	0.17			WAIT
Matches Springs 1				2200.00		A2	Damplerr Terr.	Niita					0.1	0.00	100		BP Res Cen
Matches Springs 1				2215.90		A2	Damplerr Terr.	Niita					0.2	0.00	100		BP Res Cen
Matches Springs 1	5563			2258.60	2260.10	A2	Damplerr Terr.	Niita	425	0.11	0.18	0.01	0.18		100	5.6	orgchem
Matches Springs 1				2280.00	2372.90	A2	Damplerr Terr.	Goldwyer					0.4	0.00	75		BP Res Cen
Matches Springs 1	5564			2293.70	2295.20	A2	Damplerr Terr.	Goldwyer	425	0.29	0.32		0.24	0.48	133		orgchem
Matches Springs 1	5565			2321.10	2322.60	A2	Damplerr Terr.	Goldwyer	438	0.01	0.21		0.21	0.05	100		orgchem
Matches Springs 1	5566			2340.90	2342.40	A2	Damplerr Terr.	Goldwyer	434	0.08	0.34		0.3	0.19	113		orgchem
Matches Springs 1	5567			2348.50	2350.00	A2	Damplerr Terr.	Goldwyer	434	0.18	0.4	0.01	0.32		125	3	orgchem
Matches Springs 1	5568			2366.80	2368.30	A2	Damplerr Terr.	Goldwyer	436	0.03	0.26		0.26	0.10	100		orgchem
Matches Springs 1	5569			2383.60	2385.10	A2	Damplerr Terr.	Goldwyer	436	0.09	0.34	0.03	0.26	0.21	131	11.5	orgchem
Matches Springs 1	5570			2398.80	2400.30	A2	Damplerr Terr.	Goldwyer	442	0.3	1.44	0.01	0.53	0.17	271	1.9	orgchem
Matches Springs 1	5559			2404.90	2404.90	A2	Damplerr Terr.	Goldwyer	443	2.3	9.56	0.49	1.52	0.19	629	32	orgchem
Matches Springs 1				2407.50	2409.90	A2	Damplerr Terr.	Goldwyer		0.45	0.62						BP Res Cen
Matches Springs 1	5560			2408.00	2408.00	A2	Damplerr Terr.	Goldwyer	443	1.78	9.93	0.85	1.77		561	23	orgchem
Matches Springs 1				2408.80		A2	Damplerr Terr.	Goldwyer					3.7	1.30	397		BP Res Cen
Matches Springs 1				2409.00		A2	Damplerr Terr.	Goldwyer		0.52	0.64						BP Res Cen
Matches Springs 1				2409.90		A2	Damplerr Terr.	Goldwyer		0.45	0.62						BP Res Cen
Matches Springs 1				2430.00		A2	Damplerr Terr.	Goldwyer	443	1.18	5.1	0.64	1.88	0.19	270	38	WAIT
Matches Springs 1				2448.70	2548.10	A2	Damplerr Terr.	Goldwyer					0.3	0.00	67		BP Res Cen
Matches Springs 1				2609.10	2688.30	A2	Damplerr Terr.	Goldwyer					0.8	0.10	88		BP Res Cen
Matches Springs 1				2730.90	2733.90	A2	Damplerr Terr.	Goldwyer									BP Res Cen
Matches Springs 1	5571			2732.60	2734.10	A2	Damplerr Terr.	Goldwyer	441	1.09	2.35	0.68	1.38	0.32	170	49	orgchem
Matches Springs 1				2733.90		A2	Damplerr Terr.	Goldwyer		0.21	0.47						BP Res Cen
Matches Springs 1				2750.00		A2	Damplerr Terr.	Goldwyer	347	0.04	0.06	0.29	0.16	0.40	37	181	Esso
Matches Springs 1	5561			2753.00	2753.00	A2	Damplerr Terr.	Goldwyer	369	0.16	0.07	0.06	0.14	0.70	50	42	orgchem
Matches Springs 1				2754.30		A2	Damplerr Terr.	Goldwyer					0.3		67		BP Res Cen
Matches Springs 1	5562			2754.80	2754.80	A2	Damplerr Terr.	Goldwyer	430	0.78	0.91	0.4	0.62		147	65	orgchem
Matches Springs 1				2761.50	2819.40	A2	Damplerr Terr.	Goldwyer					1.2	0.30	92		BP Res Cen
Matches Springs 1	5572			2764.60	2766.10	A2	Damplerr Terr.	Goldwyer	439	0.96	2.43	0.6	1.48	0.28	164	41	orgchem
Matches Springs 1	5573			2769.10	2770.70	A2	Damplerr Terr.	Goldwyer	441	1.3	3.21	0.83	2.11	0.29	152	39	orgchem
Matches Springs 1	5574			2801.20	2802.70	A2	Damplerr Terr.	Goldwyer	445	0.56	0.93	0.72	0.82	0.38	113	88	orgchem
Matches Springs 1	5575			2811.80	2813.30	A2	Damplerr Terr.	Goldwyer	443	0.18	0.18	0.19	0.34	0.50	53	56	orgchem
Matches Springs 1				2833.80		A2	Damplerr Terr.	Goldwyer					0.6	0.10	33		BP Res Cen

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
McLarty 1				1661.00	1661.00	A2	S Broome Arch	Goldwyer	468	0.27	1.88	0.37	0.28	0.13	671.00	132	Esso
McLarty 1	5609			1663.90	1663.90	A2	S Broome Arch	Goldwyer	390	0.08	0.19	0.92	0.19	0.30	100.00	484	orgchem
McLarty 1	5610			1665.80	1665.80	A2	S Broome Arch	Goldwyer	294	0.15	0.02	1.48	0.12	0.88	16.67	1233	orgchem
McLarty 1	49443			1685.50	1694.70	A2	S Broome Arch	Goldwyer		7.4	3.1		1.9	0.70	163.16		orgchem/BP
McLarty 1		5540		1688.59		A2	S Broome Arch	Goldwyer	391	11.91	2.69	1.91	1.22	0.82	220.49	157	wcr/amdel
McLarty 1	49444			1694.70	1703.80	A2	S Broome Arch	Goldwyer		6.3	2.7		1.9	0.70	142.11		orgchem/BP
McLarty 1		5570		1697.74		A2	S Broome Arch	Goldwyer	393	11.01	2.54	1.85	1.14	0.81	222.81	162	wcr/amdel
McLarty 1	49445			1703.80	1713.00	A2	S Broome Arch	Goldwyer		6.6	3.4		2	0.66	170.00		orgchem/BP
McLarty 1		5600		1706.88		A2	S Broome Arch	Goldwyer	419	10.14	2.99	1.84	0.93	0.77	321.51	198	wcr/amdel
McLarty 1	49446			1713.00	1722.10	A2	S Broome Arch	Goldwyer		5	2.3		1.1	0.68	209.09		orgchem/BP
McLarty 1		5630		1716.02		A2	S Broome Arch	Goldwyer	394	11.56	2.74	1.88	1.02	0.81	268.63	184	wcr/amdel
McLarty 1	49447			1722.10	1731.30	A2	S Broome Arch	Goldwyer		5.8	2.5		1.6	0.70	156.25		orgchem/BP
McLarty 1		5660		1725.17		A2	S Broome Arch	Goldwyer	408	13.01	3.09	1.86	1.13	0.81	273.45	165	wcr/amdel
McLarty 1	49448			1731.30	1740.40	A2	S Broome Arch	Goldwyer		6.1	2.8		1.8	0.69	155.56		orgchem/BP
McLarty 1		5690		1734.31		A2	S Broome Arch	Goldwyer	396	13.47	2.8	1.81	1.05	0.83	266.67	172	wcr/amdel
McLarty 1	49449			1740.40	1749.50	A2	S Broome Arch	Goldwyer		6.3	2.9		2	0.68	145.00		orgchem/BP
McLarty 1		5720		1743.46		A2	S Broome Arch	Goldwyer	400	11.38	2.48	1.75	1.03	0.82	240.78	170	wcr/amdel
McLarty 1	49450			1749.50	1757.20	A2	S Broome Arch	Goldwyer		6.6	3.2		1.3	0.67	246.15		orgchem/BP
McLarty 1		5750		1752.60		A2	S Broome Arch	Goldwyer	398	9.1	2.11	1.57	1.1	0.81	191.82	143	wcr/amdel
McLarty 1	49451			1757.88		A2	S Broome Arch	Goldwyer		0.2	0.1		0.1	0.67	100.00		orgchem/BP
McLarty 1	49452			1757.93		A2	S Broome Arch	Goldwyer		0.2	0.1		0.1	0.67	100.00		orgchem/BP
McLarty 1	49453			1758.00		A2	S Broome Arch	Goldwyer		0.1	0.1		0.1	0.50	100.00		orgchem/BP
McLarty 1		5768		1758.09		A2	S Broome Arch	Goldwyer	299	1.13	0.26	0.2	0.31	0.81	83.87	65	wcr/amdel
McLarty 1	49454			1758.10		A2	S Broome Arch	Goldwyer		0.1	0.1		0.1	0.50	100.00		orgchem/BP
McLarty 1	49455			1758.20		A2	S Broome Arch	Goldwyer		0.2	0.2		0.2	0.50	100.00		orgchem/BP
McLarty 1	49456			1758.40		A2	S Broome Arch	Goldwyer		0.2	0.1		0.2	0.67	50.00		orgchem/BP
McLarty 1	49457			1758.60		A2	S Broome Arch	Goldwyer		0.1	0.1		0.1	0.50	100.00		orgchem/BP
McLarty 1		5770		1758.70		A2	S Broome Arch	Goldwyer	289	0.45	0.18	0.24	0.38	0.71	47.37	63	wcr/amdel
McLarty 1	49458			1758.80		A2	S Broome Arch	Goldwyer		0.3	0.2		0.2	0.60	100.00		orgchem/BP
McLarty 1	49459			1759.00		A2	S Broome Arch	Goldwyer		0.3	0.1		0.1	0.75	100.00		orgchem/BP
McLarty 1	5611			1759.00	1759.00	A2	S Broome Arch	Goldwyer	338	0.2	0.1	0.19	0.11	0.67	90.91	173	orgchem
McLarty 1	49460			1759.10		A2	S Broome Arch	Goldwyer		0.1	0.1		0.2	0.50	50.00		orgchem/BP
McLarty 1	49461			1759.30		A2	S Broome Arch	Goldwyer		0.1	0.1		0.2	0.50	50.00		orgchem/BP
McLarty 1	49462			1759.50		A2	S Broome Arch	Goldwyer			0.1		0.1		100.00		orgchem/BP

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
McLarty 1	49463			1759.60		A2	S Broome Arch	Goldwyer		0.1	0.2		0.2	0.33	100.00		orgchem/BP
McLarty 1	5612			1759.60	1759.60	A2	S Broome Arch	Goldwyer	442	0.07	0.26	0.02	0.22	0.21	118.18	9	orgchem
McLarty 1	49464			1759.80		A2	S Broome Arch	Goldwyer		0.2	0.2		0.2	0.50	100.00		orgchem/BP
McLarty 1	49465			1759.90		A2	S Broome Arch	Goldwyer		0.5	0.4		0.2	0.56	200.00		orgchem/BP
McLarty 1	49466			1760.10		A2	S Broome Arch	Goldwyer		0.4	0.4		0.2	0.50	200.00		orgchem/BP
McLarty 1	49467			1760.20		A2	S Broome Arch	Goldwyer		0.3	0.1		0.1	0.75	100.00		orgchem/BP
McLarty 1	49468			1760.40		A2	S Broome Arch	Goldwyer		0.2	0.1		0.2	0.67	50.00		orgchem/BP
McLarty 1	49469			1760.50		A2	S Broome Arch	Goldwyer		0.1			0.3		#VALUE!		orgchem/BP
McLarty 1		5780		1761.74		A2	S Broome Arch	Goldwyer	388	11.63	2.66	1.04	1.1	0.81	241.82	95	wcr/amdel
McLarty 1	49470			1766.30	1769.40	A2	S Broome Arch	Goldwyer		6.9	3.2		1.9	0.68	168.42		orgchem/BP
McLarty 1		5810		1770.89		A2	S Broome Arch	Goldwyer	417	9.01	2.28	1.54	0.78	0.80	292.31	197	wcr/amdel
McLarty 1		5840		1780.03		A2	S Broome Arch	Goldwyer	424	9.56	2.76	1.34	0.6	0.78	460.00	223	wcr/amdel
McLarty 1		5870		1789.18		A2	S Broome Arch	Goldwyer	420	5.65	1.84	1.73	0.56	0.75	328.57	309	wcr/amdel
McLarty 1		5900		1798.32		A2	S Broome Arch	Goldwyer	395	4.98	1.39	1.77	0.53	0.78	262.26	334	wcr/amdel
McLarty 1		5930		1807.46		A2	S Broome Arch	Goldwyer	398	10.93	2.39	1.52	0.81	0.82	295.06	188	wcr/amdel
McLarty 1		5960		1816.61		A2	S Broome Arch	Goldwyer	427	13.93	3.59	1.64	1.14	0.80	314.91	144	wcr/amdel
McLarty 1	49471			1823.30	1932.40	A2	S Broome Arch	Goldwyer		5.8	3.1		2.6	0.65	119.23		orgchem/BP
McLarty 1		5990		1825.75		A2	S Broome Arch	Goldwyer	423	10.82	2.74	1.55	0.92	0.80	297.83	168	wcr/amdel
McLarty 1		6020		1834.90		A2	S Broome Arch	Goldwyer	429	10.27	3.37	1.43	0.93	0.75	362.37	154	wcr/amdel
McLarty 1		6050		1844.04		A2	S Broome Arch	Goldwyer	429	9.55	3.17	1.72	0.96	0.75	330.21	179	wcr/amdel
McLarty 1		6080		1853.18		A2	S Broome Arch	Goldwyer	434	7.1	2.29	0.88	0.83	0.76	275.90	106	wcr/amdel
McLarty 1		6110		1862.33		A2	S Broome Arch	Goldwyer	426	7.93	2.57	1.23	0.69	0.76	372.46	178	wcr/amdel
McLarty 1		6140		1871.47		A2	S Broome Arch	Goldwyer	427	9.65	2.49	1.46	1.05	0.79	237.14	139	wcr/amdel
McLarty 1		6170		1880.62		A2	S Broome Arch	Goldwyer	422	11.6	3.21	1.69	1.15	0.78	279.13	147	wcr/amdel
McLarty 1	49472			1883.70	1892.80	A2	S Broome Arch	Goldwyer		0.1	0.1		2.4	0.50	4.17		orgchem/BP
McLarty 1		6205		1891.28		A2	S Broome Arch	Goldwyer	427	15.98	5.7	1.32	2.2	0.74	259.09	60	wcr/amdel
McLarty 1	49473			1892.80	1901.90	A2	S Broome Arch	Goldwyer		0.4	0.2		3.6	0.67	5.56		orgchem/BP
McLarty 1	49474			1892.90		A2	S Broome Arch	Goldwyer		0.3	0.2		0.2	0.60	100.00		orgchem/BP
McLarty 1	49475			1893.00	1893.00	A2	S Broome Arch	Goldwyer		0.3	0.1		0.3	0.75	33.33		orgchem/BP
McLarty 1				1893.00	1893.00	A2	S Broome Arch	Goldwyer	338	0.7	0.3	1.57	0.16	0.70	187.00	981	Esso
McLarty 1	49476			1893.10		A2	S Broome Arch	Goldwyer		0.1	0.2		0.2	0.33	100.00		orgchem/BP
McLarty 1	5613			1893.10	1893.10	A2	S Broome Arch	Goldwyer	416	0.34	0.12	0.2	0.22	0.74	54.55	91	orgchem
McLarty 1	49477			1893.50		A2	S Broome Arch	Goldwyer		0.1	0.1		0.2	0.50	50.00		orgchem/BP

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McLarty 1	49478			1893.60		A2	S Broome Arch	Goldwyer		0.3	0.1		0.2	0.75	50.00		orgchem/BP
McLarty 1	49479			1893.90		A2	S Broome Arch	Goldwyer		5.9	3		0.2	0.66	1500.00		orgchem/BP
McLarty 1	49480			1894.00		A2	S Broome Arch	Goldwyer		6	3.1		0.3	0.66	1033.33		orgchem/BP
McLarty 1	5620			1895.90	1897.40	A2	S Broome Arch	Goldwyer	384	21.19	3.04	0.75	1.75	0.87	173.71	43	orgchem
McLarty 1		6225		1897.38		A2	S Broome Arch	Goldwyer	384	15.01	3.88	0.58	1.82	0.79	213.19	32	wcr/amdel
McLarty 1		6235		1900.43		A2	S Broome Arch	Goldwyer	398	17.33	4.9	1.1	2.05	0.78	239.02	54	wcr/amdel
McLarty 1		6240		1901.95		A2	S Broome Arch	Goldwyer	429	18.21	4.77	1.52	2.4	0.79	198.75	63	wcr/amdel
McLarty 1		6245		1903.48		A2	S Broome Arch	Goldwyer	430	20.46	6.16	1.54	2.5	0.77	246.40	62	wcr/amdel
McLarty 1		6250		1905.00		A2	S Broome Arch	Goldwyer	422	13.51	3.51	1.6	1.66	0.79	211.45	96	wcr/amdel
McLarty 1	49481			1905.00	1914.10	A2	S Broome Arch	Goldwyer		6	3.2		2.3	0.65	139.13		orgchem/BP
McLarty 1		6280		1914.14		A2	S Broome Arch	Goldwyer	422	14.72	3.66	1.63	1.89	0.80	193.65	86	wcr/amdel
McLarty 1	5621			1917.20	1918.70	A2	S Broome Arch	Goldwyer	428	16.91	3.91	1.8	1.87	0.81	209.09	96	orgchem
McLarty 1		6310		1923.29		A2	S Broome Arch	Goldwyer	427	14.86	3.6	1.64	1.85	0.80	194.59	89	wcr/amdel
McLarty 1		6340		1932.43		A2	S Broome Arch	Goldwyer	430	15.03	3.95	1.63	1.95	0.79	202.56	84	wcr/amdel
McLarty 1		6370		1941.58		A2	S Broome Arch	Goldwyer	430	11.93	3.47	1.49	1.41	0.77	246.10	106	wcr/amdel
McLarty 1	49482			1941.60	1950.70	A2	S Broome Arch	Goldwyer		8.8	4.4		4.7	0.67	93.62		orgchem/BP
McLarty 1		6400		1950.72		A2	S Broome Arch	Goldwyer	429	13.45	3.9	1.39	1.86	0.78	209.68	75	wcr/amdel
McLarty 1		6430		1959.86		A2	S Broome Arch	Goldwyer	416	12.94	3.34	1.48	1.56	0.79	214.10	95	wcr/amdel
McLarty 1	5622			1961.40	1962.90	A2	S Broome Arch	Goldwyer	428	12.95	3.1	2.29	1.22	0.81	254.10	188	orgchem
McLarty 1	49483			1961.40	1967.50	A2	S Broome Arch	Goldwyer		7.3	3.1		1.4	0.70	221.43		orgchem/BP
McLarty 1		6460		1969.01		A2	S Broome Arch	Goldwyer	428	3.06	4.48	1.69	2.2	0.41	203.64	77	wcr/amdel
McLarty 1	5623			1973.60	1975.10	A2	S Broome Arch	Goldwyer	429	16.8	3.55	1.84	1.9	0.83	186.84	97	orgchem
McLarty 1		6490		1978.15		A2	S Broome Arch	Goldwyer	419	17.08	4.37	1.62	2.2	0.80	198.64	74	wcr/amdel
McLarty 1	49484			1978.20	1987.30	A2	S Broome Arch	Goldwyer		6.9	2.9		1.7	0.70	170.59		orgchem/BP
McLarty 1		6520		1987.30		A2	S Broome Arch	Goldwyer	428	14.15	3.54	1.42	2.15	0.80	164.65	66	wcr/amdel
McLarty 1				1996.00	1996.00	A2	S Broome Arch	Goldwyer	413	0.16	0.99	0.21	0.22	0.14	450.00	95	Esso
McLarty 1	49485			1996.40	2005.60	A2	S Broome Arch	Goldwyer		2.7	3.3		2	0.45	165.00		orgchem/BP
McLarty 1		6550		1996.44		A2	S Broome Arch	Goldwyer	429	19.12	4.64	1.5	3.1	0.80	149.68	48	wcr/amdel
McLarty 1	5624			1998.00	1999.50	A2	S Broome Arch	Goldwyer	428	19.14	3.92	1.97	2.71	0.83	144.65	73	orgchem
McLarty 1	49486			2002.20	2002.20	A2	S Broome Arch	Goldwyer		1.4	1.4		3	0.50	46.67		orgchem/BP
McLarty 1	49487			2002.40	2002.40	A2	S Broome Arch	Goldwyer		1.6	1.3		1.8	0.55	72.22		orgchem/BP
McLarty 1	49488			2002.50	2002.50	A2	S Broome Arch	Goldwyer		2.6	3.3		1.6	0.44	206.25		orgchem/BP
McLarty 1	49489			2002.70	2002.70	A2	S Broome Arch	Goldwyer		2.8	3.5		2	0.44	175.00		orgchem/BP
McLarty 1	49490			2002.80	2002.80	A2	S Broome Arch	Goldwyer		2.8	3.2		3.1	0.47	103.23		orgchem/BP
McLarty 1	5614			2002.90	2002.90	A2	S Broome Arch	Goldwyer	433	3.43	2.65	0.73	2.48	0.56	106.85	29	orgchem

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McLarty 1	49491			2003.00		A2	S Broome Arch	Goldwyer		2.3	3		3.1	0.43	96.77		orgchem/BP
McLarty 1	49492			2003.10	2003.10	A2	S Broome Arch	Goldwyer		2.1	2.1		3	0.50	70.00		orgchem/BP
McLarty 1		6572		2003.15		A2	S Broome Arch	Goldwyer	441	3.06	3.99	0.53	3.6	0.43	110.83	15	wcr/amdel
McLarty 1	49493			2003.30	2003.30	A2	S Broome Arch	Goldwyer		2.2	3		2.5	0.42	120.00		orgchem/BP
McLarty 1	49494			2003.50	2003.50	A2	S Broome Arch	Goldwyer		2.5	2.9		2.2	0.46	131.82		orgchem/BP
McLarty 1	49495			2003.60		A2	S Broome Arch	Goldwyer		2.8	3.7		2.3	0.43	160.87		orgchem/BP
McLarty 1	49496			2003.80		A2	S Broome Arch	Goldwyer		3.1	4.6		2.3	0.40	200.00		orgchem/BP
McLarty 1	49497			2003.90		A2	S Broome Arch	Goldwyer		1.8	2.1		2.6	0.46	80.77		orgchem/BP
McLarty 1	49498			2004.10	2004.10	A2	S Broome Arch	Goldwyer		6.6	2.6		3	0.72	86.67		orgchem/BP
McLarty 1		6580		2005.58		A2	S Broome Arch	Goldwyer	432	17.06	4.06	1.21	2.35	0.81	172.77	51	wcr/amdel
McLarty 1	49499			2005.60		A2	S Broome Arch	Goldwyer		1.9	2.4		2.9	0.44	82.76		orgchem/BP
McLarty 1		6610		2014.73		A2	S Broome Arch	Goldwyer	425	12.22	2.64	1.8	1.14	0.82	231.58	158	wcr/amdel
McLarty 1	49500			2017.70	2026.90	A2	S Broome Arch	Goldwyer		6.5	2.7		1.7	0.71	158.82		orgchem/BP
McLarty 1		6640		2023.87		A2	S Broome Arch	Goldwyer	424	12.4	2.29	1.83	0.93	0.84	246.24	197	wcr/amdel
McLarty 1		6670		2033.02		A2	S Broome Arch	Goldwyer	398	5.44	1.42	1.72	0.83	0.79	171.08	207	wcr/amdel
McLarty 1	49501			2036.10	2045.20	A2	S Broome Arch	Goldwyer		9.9	4.5		4	0.69	112.50		orgchem/BP
McLarty 1		6700		2042.16		A2	S Broome Arch	Goldwyer	425	7.43	1.93	1.6	0.78	0.79	247.44	205	wcr/amdel
McLarty 1		6730		2051.30		A2	S Broome Arch	Goldwyer	417	11.91	3.11	1.82	1.46	0.79	213.01	125	wcr/amdel
McLarty 1				2060.00	2060.00	A2	S Broome Arch	Goldwyer	371	0.22	0.91	0.18	0.25	0.20	364.00	72	Esso
McLarty 1				2157.00	2157.00	A1	S Broome Arch	Thangoo Fm	435	1.33	2.49	0.61	3.13	0.35	79.00	19	Esso
McLarty 1	5615			2157.70	2157.70	A1	S Broome Arch	Thangoo Fm	427	1.72	1.37	1.18	1.35	0.56	101.48	87	orgchem
McLarty 1	5616			2157.70	2157.70	A1	S Broome Arch	Thangoo Fm	453	0.01			1.02	1.00	0.00	0	orgchem
McLarty 1	5617			2157.70	2157.70	A1	S Broome Arch	Thangoo Fm	440	0.87	0.28	0.75	0.09	0.76	311.11	833	orgchem
McLarty 1	5618			2158.90	2158.90	A1	S Broome Arch	Thangoo Fm	365	0.31	0.03	0.25	0.21	0.91	14.29	119	orgchem
McLarty 1	5619			2158.90	2158.90	A1	S Broome Arch	Thangoo Fm	442	0.87	0.29	0.85	1.16	0.75	25.00	73	orgchem
McLarty 1				2487.00	2487.00	A0	S Broome Arch	Thangoo Fm	472	0.29	0.6	0.76	1.41	0.33	42.00	53	Esso

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Meda 1	30098			595	595	I	Lennard Shelf	Noonkanbah					2.2				orgchem
Meda 1	30099			1051	1051	H	Lennard Shelf	Grant					0.5				orgchem
Meda 1	30096			1542	1542	F	Lennard Shelf	Laurel Fm					0.2				orgchem
Meda 1	31065			1542.2	1542.2	F	Lennard Shelf	Laurel Fm					0.67				orgchem
Mead 1				1556		F	Lennard Shelf	Laurel Fm	431	0.08	0.18	0.53	0.46				wampri
Meda 1	31066			1597.1	1597.1	F	Lennard Shelf	Laurel Fm					0.73				orgchem
Meda 1	30097			2015	2015	E	Lennard Shelf	Gumhole					0.03				orgchem
Meda 1	30094			2163	2163	E	Lennard Shelf	Napier Fm					0.1				orgchem
Meda 1	30095			2617.6	2617.6	D	Lennard Shelf	May River Cong					0.03				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Meda 2				1673		F	Laurel Downs Terr.	Laurel Fm	435	0.18	1.11	0.6	1.04	0.14	106	57	wcr
Meda 2				1724		F	Laurel Downs Terr.	Laurel Fm	479	0.07	0.37	0.86	0.75	0.16	49	114	wcr

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Mt Hardman 1	34474			1999.40	1999.40	E	Fitzroy Trough	Laurel Fm					0.68				orgchem
Mt Hardman 1	34475			2008.60	2008.60	E	Fitzroy Trough	Laurel Fm					0.64				orgchem
Mt Hardman 1	34476			2017.70	2017.70	E	Fitzroy Trough	Laurel Fm					0.62				orgchem
Mt Hardman 1	34477			2026.90	2026.90	E	Fitzroy Trough	Laurel Fm					0.69				orgchem
Mt Hardman 1	34478			2036.00	2036.00	E	Fitzroy Trough	Laurel Fm					0.65				orgchem
Mt Hardman 1	34479			2045.20	2045.20	E	Fitzroy Trough	Laurel Fm					0.68				orgchem
Mt Hardman 1	34480			2054.30	2054.30	E	Fitzroy Trough	Laurel Fm					0.66				orgchem
Mt Hardman 1	34481			2063.50	2063.50	E	Fitzroy Trough	Laurel Fm	436	*	1.73	1.45	0.97		178	149	orgchem
Mt Hardman 1	34482			2072.60	2072.60	E	Fitzroy Trough	Laurel Fm					0.95				orgchem
Mt Hardman 1	34483			2081.70	2081.70	E	Fitzroy Trough	Laurel Fm	441	*	0.9	0.9	1.05		86	86	orgchem
Mt Hardman 1	34484			2090.90	2090.90	E	Fitzroy Trough	Laurel Fm	441	*	0.4	1.2	1.11		36	108	orgchem
Mt Hardman 1	34485			2100.00	2100.00	E	Fitzroy Trough	Laurel Fm	441	*	0.3	1.3	1.03		29	126	orgchem
Mt Hardman 1	34486			2109.20	2109.20	E	Fitzroy Trough	Laurel Fm	446	*	0.7	1.6	1.22		57	131	orgchem
Mt Hardman 1	34487			2118.30	2118.30	E	Fitzroy Trough	Laurel Fm	451	*	0.3	0.9	0.81		37	111	orgchem
Mt Hardman 1	34488			2127.50	2127.50	E	Fitzroy Trough	Laurel Fm	441	*	0.2	0.9	0.72		28	125	orgchem
Mt Hardman 1	34489			2136.60	2136.60	E	Fitzroy Trough	Laurel Fm	416	*	0.3	0.8	0.55		55	145	orgchem
Mt Hardman 1	34490			2145.70	2145.70	E	Fitzroy Trough	Laurel Fm					0.48				orgchem
Mt Hardman 1	34491			2154.90	2154.90	E	Fitzroy Trough	Laurel Fm					0.32				orgchem
Mt Hardman 1	34492			2164.00	2164.00	E	Fitzroy Trough	Laurel Fm					0.41				orgchem
Mt Hardman 1	34493			2173.20	2173.20	E	Fitzroy Trough	Laurel Fm					0.42				orgchem
Mt Hardman 1	34494			2182.30	2182.30	E	Fitzroy Trough	Laurel Fm					0.37				orgchem
Mt Hardman 1	34495			2191.50	2191.50	E	Fitzroy Trough	Laurel Fm					0.47				orgchem
Mt Hardman 1	34496			2200.60	2200.60	E	Fitzroy Trough	Laurel Fm					0.53				orgchem
Mt Hardman 1	34497			2209.80	2209.80	E	Fitzroy Trough	Laurel Fm					0.57				orgchem
Mt Hardman 1	34498			2218.90	2218.90	E	Fitzroy Trough	Laurel Fm					0.37				orgchem
Mt Hardman 1	34499			2228.00	2228.00	E	Fitzroy Trough	Laurel Fm					0.54				orgchem
Mt Hardman 1	34500			2237.20	2237.20	E	Fitzroy Trough	Laurel Fm					0.4				orgchem
Mt Hardman 1	34501			2246.30	2246.30	E	Fitzroy Trough	Laurel Fm					0.38				orgchem
Mt Hardman 1	34502			2255.50	2255.50	E	Fitzroy Trough	Laurel Fm					0.37				orgchem
Mt Hardman 1	34503			2264.60	2264.60	E	Fitzroy Trough	Laurel Fm					0.58				orgchem
Mt Hardman 1	34504			2273.80	2273.80	E	Fitzroy Trough	Laurel Fm					0.49				orgchem
Mt Hardman 1	34505			2282.90	2282.90	E	Fitzroy Trough	Laurel Fm					0.63				orgchem
Mt Hardman 1	34506			2292.10	2292.10	E	Fitzroy Trough	Laurel Fm					0.36				orgchem
Mt Hardman 1	34507			2301.20	2301.20	E	Fitzroy Trough	Laurel Fm					0.54				orgchem
Mt Hardman 1	34508			2319.50	2319.50	E	Fitzroy Trough	Luluigul					0.59				orgchem
Mt Hardman 1	34509			2328.60	2328.60	E	Fitzroy Trough	Luluigul					0.63				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Mt Hardman 1	34510			2337.80	2337.80	E	Fitzroy Trough	Lululgui					0.62				orgchem
Mt Hardman 1	34511			2346.90	2346.90	E	Fitzroy Trough	Lululgui					0.53				orgchem
Mt Hardman 1	34512			2356.10	2356.10	E	Fitzroy Trough	Lululgui					0.36				orgchem
Mt Hardman 1	34513			2383.50	2383.50	E	Fitzroy Trough	Lululgui					0.81				orgchem
Mt Hardman 1	34514			2392.60	2392.60	E	Fitzroy Trough	Lululgui					0.5				orgchem
Mt Hardman 1	34515			2401.80	2401.80	E	Fitzroy Trough	Lululgui					0.62				orgchem
Mt Hardman 1	34516			2410.90	2410.90	E	Fitzroy Trough	Lululgui	411 *		0.2	1.4	0.87		23	161	orgchem
Mt Hardman 1	34517			2420.10	2420.10	E	Fitzroy Trough	Lululgui					0.65				orgchem
Mt Hardman 1	34518			2429.20	2429.20	E	Fitzroy Trough	Lululgui					0.33				orgchem
Mt Hardman 1	34519			2438.40	2438.40	E	Fitzroy Trough	Lululgui					0.27				orgchem
Mt Hardman 1	34520			2447.50	2447.50	E	Fitzroy Trough	Lululgui					0.41				orgchem
Mt Hardman 1	34521			2456.60	2456.60	E	Fitzroy Trough	Lululgui					0.34				orgchem
Mt Hardman 1	34522			2465.80	2465.80	E	Fitzroy Trough	Lululgui					0.28				orgchem
Mt Hardman 1	34523			2474.90	2474.90	E	Fitzroy Trough	Lululgui					0.29				orgchem
Mt Hardman 1	34524			2484.10	2484.10	E	Fitzroy Trough	Lululgui					0.32				orgchem
Mt Hardman 1	34525			2493.20	2493.20	E	Fitzroy Trough	Lululgui					0.21				orgchem
Mt Hardman 1	34526			2502.40	2502.40	E	Fitzroy Trough	Lululgui					0.29				orgchem
Mt Hardman 1	34527			2511.50	2511.50	E	Fitzroy Trough	Lululgui					0.22				orgchem
Mt Hardman 1	34528			2520.60	2520.60	E	Fitzroy Trough	Lululgui					0.29				orgchem
Mt Hardman 1	34529			2529.80	2529.80	E	Fitzroy Trough	Lululgui					0.3				orgchem
Mt Hardman 1	34530			2538.90	2538.90	E	Fitzroy Trough	Lululgui					0.24				orgchem
Mt Hardman 1	34531			2548.10	2548.10	E	Fitzroy Trough	Lululgui					0.28				orgchem
Mt Hardman 1	34532			2557.20	2557.20	E	Fitzroy Trough	Lululgui					0.46				orgchem
Mt Hardman 1	34533			2566.40	2566.40	E	Fitzroy Trough	Lululgui					0.35				orgchem
Mt Hardman 1	34534			2575.50	2575.50	E	Fitzroy Trough	Lululgui					0.31				orgchem
Mt Hardman 1	34535			2584.70	2584.70	E	Fitzroy Trough	Lululgui					0.51				orgchem
Mt Hardman 1	34536			2593.80	2593.80	E	Fitzroy Trough	Lululgui					0.42				orgchem
Mt Hardman 1	34537			2602.90	2602.90	E	Fitzroy Trough	Lululgui					0.32				orgchem
Mt Hardman 1	34538			2612.10	2612.10	E	Fitzroy Trough	Lululgui					0.37				orgchem
Mt Hardman 1	34539			2621.20	2621.20	E	Fitzroy Trough	Lululgui					0.28				orgchem
Mt Hardman 1	34540			2630.40	2630.40	E	Fitzroy Trough	Lululgui					0.48				orgchem
Mt Hardman 1	34541			2639.50	2639.50	E	Fitzroy Trough	Lululgui					0.38				orgchem
Mt Hardman 1	34542			2648.60	2648.60	E	Fitzroy Trough	Lululgui					0.38				orgchem
Mt Hardman 1	34543			2657.80	2657.80	E	Fitzroy Trough	Lululgui					0.33				orgchem
Mt Hardman 1	34544			2666.90	2666.90	E	Fitzroy Trough	Lululgui					0.24				orgchem
Mt Hardman 1	34545			2676.10	2676.10	E	Fitzroy Trough	Lululgui					0.29				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from	
Mt Hardman 1	34546			2685.20	2685.20	E	Fitzroy Trough	Luluigui					0.34				orgchem	
Mt Hardman 1	34547			2694.30	2694.30	E	Fitzroy Trough	Luluigui					0.35				orgchem	
Mt Hardman 1	34548			2703.40	2703.40	E	Fitzroy Trough	Luluigui		*	0.11	1.2	1.18			9	102	orgchem
Mt Hardman 1	34549			2712.50	2712.50	E	Fitzroy Trough	Luluigui					0.38				orgchem	
Mt Hardman 1	34550			2721.60	2721.60	E	Fitzroy Trough	Luluigui					0.31				orgchem	
Mt Hardman 1	34551			2730.80	2730.80	E	Fitzroy Trough	Luluigui					0.36				orgchem	
Mt Hardman 1	34552			2739.90	2739.90	E	Fitzroy Trough	Luluigui					0.3				orgchem	
Mt Hardman 1	34553			2749.20	2749.20	E	Fitzroy Trough	Luluigui					0.3				orgchem	
Mt Hardman 1	34554			2758.30	2758.30	E	Fitzroy Trough	Luluigui					0.28				orgchem	
Mt Hardman 1	34555			2767.40	2767.40	E	Fitzroy Trough	Luluigui					0.3				orgchem	
Mt Hardman 1	34556			2776.50	2776.50	E	Fitzroy Trough	Luluigui					0.26				orgchem	
Mt Hardman 1	34557			2785.80	2785.80	E	Fitzroy Trough	Luluigui					0.32				orgchem	
Mt Hardman 1	34558			2794.90	2794.90	E	Fitzroy Trough	Luluigui					0.24				orgchem	
Mt Hardman 1	31069			2796.20	2796.20	E	Fitzroy Trough	Luluigui					0.59				orgchem	
Mt Hardman 1		9174		2796.24		E	Fitzroy Trough	Upper Dev					0.59				Exxon Prod Res Co	
Mt Hardman 1		9176		2796.84		E	Fitzroy Trough	Upper Dev					0.59				Exxon Prod Res Co	
Mt Hardman 1		9179	9181	2797.76	2798.37	E	Fitzroy Trough	Upper Dev					0.67				Exxon Prod Res Co	
Mt Hardman 1	31070			2798.30	2798.30	E	Fitzroy Trough	Luluigui					0.67				orgchem	
Mt Hardman 1		9181		2798.37		E	Fitzroy Trough	Upper Dev					0.49				Exxon Prod Res Co	
Mt Hardman 1	31071			2798.90	2798.90	E	Fitzroy Trough	Luluigui					0.85				orgchem	
Mt Hardman 1		9183		2798.98		E	Fitzroy Trough	Upper Dev					0.85				Exxon Prod Res Co	
Mt Hardman 1	34559			2804.10	2804.10	E	Fitzroy Trough	Luluigui					0.14				orgchem	
Mt Hardman 1	34560			2813.30	2813.30	E	Fitzroy Trough	Luluigui					0.22				orgchem	
Mt Hardman 1	34561			2822.40	2822.40	E	Fitzroy Trough	Luluigui					0.19				orgchem	
Mt Hardman 1	34562			2831.50	2831.50	E	Fitzroy Trough	Luluigui					0.13				orgchem	
Mt Hardman 1	34563			2840.60	2840.60	E	Fitzroy Trough	Luluigui					0.13				orgchem	
Mt Hardman 1	34564			2849.80	2849.80	E	Fitzroy Trough	Luluigui					0.16				orgchem	
Mt Hardman 1	34565			2859.00	2859.00	E	Fitzroy Trough	Luluigui					0.15				orgchem	
Mt Hardman 1	34566			2868.10	2868.10	E	Fitzroy Trough	Luluigui					0.14				orgchem	
Mt Hardman 1	34567			2877.30	2877.30	E	Fitzroy Trough	Luluigui					0.14				orgchem	
Mt Hardman 1	34568			2886.40	2886.40	E	Fitzroy Trough	Luluigui					0.21				orgchem	
Mt Hardman 1	34569			2895.60	2895.60	E	Fitzroy Trough	Luluigui					0.2				orgchem	
Mt Hardman 1	34570			2904.70	2904.70	E	Fitzroy Trough	Luluigui					0.23				orgchem	
Mt Hardman 1	34571			2913.80	2913.80	E	Fitzroy Trough	Luluigui					0.15				orgchem	
Mt Hardman 1	34572			2923.00	2923.00	E	Fitzroy Trough	Luluigui					0.2				orgchem	
Mt Hardman 1	34573			2932.10	2932.10	E	Fitzroy Trough	Luluigui					0.17				orgchem	

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Mt Hardman 1	34574			2941.30	2941.30	E	Fitzroy Trough	Lululgul					0.2				orgchem
Mt Hardman 1	34575			2950.40	2950.40	E	Fitzroy Trough	Lululgul					0.47				orgchem
Mt Hardman 1	34576			2959.60	2959.60	E	Fitzroy Trough	Lululgul					0.34				orgchem
Mt Hardman 1	34577			2968.70	2968.70	E	Fitzroy Trough	Lululgul					0.23				orgchem
Mt Hardman 1	34578			2977.80	2977.80	E	Fitzroy Trough	Lululgul					0.21				orgchem
Mt Hardman 1	34579			2987.00	2987.00	E	Fitzroy Trough	Lululgul					0.17				orgchem
Mt Hardman 1	34580			2996.10	2996.10	E	Fitzroy Trough	Lululgul					0.15				orgchem
Mt Hardman 1	34581			3005.30	3005.30	E	Fitzroy Trough	Lululgul					0.18				orgchem
Mt Hardman 1	34582			3014.40	3014.40	E	Fitzroy Trough	Lululgul					0.15				orgchem
Mt Hardman 1	34583			3023.50	3023.50	E	Fitzroy Trough	Lululgul					0.12				orgchem
Mt Hardman 1	34584			3032.70	3032.70	E	Fitzroy Trough	Lululgul					0.12				orgchem
Mt Hardman 1	34585			3041.80	3041.80	E	Fitzroy Trough	Lululgul					0.23				orgchem
Mt Hardman 1	34586			3051.00	3051.00	E	Fitzroy Trough	Lululgul					0.16				orgchem
Mt Hardman 1	34587			3060.10	3060.10	E	Fitzroy Trough	Lululgul					0.19				orgchem
Mt Hardman 1	34588			3069.30	3069.30	E	Fitzroy Trough	Lululgul					0.16				orgchem
Mt Hardman 1	34589			3078.40	3078.40	E	Fitzroy Trough	Lululgul					0.16				orgchem
Mt Hardman 1	34590			3087.60	3087.60	E	Fitzroy Trough	Lululgul					0.17				orgchem
Mt Hardman 1	34591			3096.70	3096.70	E	Fitzroy Trough	Lululgul					0.11				orgchem
Mt Hardman 1	34592			3115.00	3115.00	E	Fitzroy Trough	Lululgul					0.13				orgchem
Mt Hardman 1	34593			3124.20	3124.20	E	Fitzroy Trough	Lululgul					0.11				orgchem
Mt Hardman 1	34594			3133.30	3133.30	E	Fitzroy Trough	Lululgul					0.11				orgchem
Mt Hardman 1	34595			3151.60	3151.60	E	Fitzroy Trough	Lululgul					0.17				orgchem
Mt Hardman 1	34596			3160.70	3160.70	E	Fitzroy Trough	Lululgul					0.16				orgchem
Mt Hardman 1	34597			3179.00	3179.00	E	Fitzroy Trough	Lululgul					0.13				orgchem
Mt Hardman 1	34598			3197.30	3197.30	E	Fitzroy Trough	Lululgul					0.1				orgchem
Mt Hardman 1	34599			3224.70	3224.70	E	Fitzroy Trough	Lululgul					0.11				orgchem
Mt Hardman 1	34600			3233.90	3233.90	E	Fitzroy Trough	Lululgul					0.09				orgchem

NOTE: * values as shown in Orgchem data base; S1 not given, although S2 & S3 shown, unable to confirm reliability.

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Mimosa 1				105.00		J	Laurel Downs Terrace	Blina Shale					0.7	0	57		BP Res Cen
Mimosa 1				340.00		I	Laurel Downs Terrace	Liverlinga GP					0.9	0	11		BP Res Cen
Mimosa 1				405.00	480.00	I	Laurel Downs Terrace	Noonkanbah					1.5	0	13		BP Res Cen
Mimosa 1				510.00	560.00	I	Laurel Downs Terrace	Noonkanbah					2.2	0	9		BP Res Cen
Mimosa 1				595.00	640.00	I	Laurel Downs Terrace	Poole Sandstone					1.8	0	22		BP Res Cen
Mimosa 1				670.00		I	Laurel Downs Terrace	Nura Nura mbr					0.7	0	29		BP Res Cen
Mimosa 1				750.00	860.00	H	Laurel Downs Terrace	Grant					0.9	0	11		BP Res Cen
Mimosa 1				905.00	980.00	H	Laurel Downs Terrace	Grant					0.8	0	13		BP Res Cen
Mimosa 1				1030.00	1085.00	H	Laurel Downs Terrace	Grant					0.4	0	25		BP Res Cen
Mimosa 1				1125.00		F	Laurel Downs Terrace	Lululgui					0.4	0	25		BP Res Cen
Mimosa 1				1285.00	1355.00	F/E	Laurel Downs Terrace	Lululgui					0.2	0	50		BP Res Cen
Mimosa 1				1420.00	1515.00	E	Laurel Downs Terrace	Clanmeyer					0.1	0	100		BP Res Cen
Mimosa 1				1595.00	1730.00	E	Laurel Downs Terrace	Clanmeyer					0.2	0	50		BP Res Cen
Mimosa 1				1845.00	1945.00	E	Laurel Downs Terrace	Clanmeyer					0.1	0			BP Res Cen
Mimosa 1				2080.00	2215.00	E	Laurel Downs Terrace	Clanmeyer					0.1	0			BP Res Cen
Mimosa 1				2350.00		E	Laurel Downs Terrace	Gogo					0.1	0			BP Res Cen
Mimosa 1				2415.00	2500.00	E	Laurel Downs Terrace	Gogo					0.2	0.1	50		BP Res Cen
Mimosa 1		7957	7967	2425.29	2428.34	E	Laurel Downs Terrace	Upper Dev					1.44				Exxon Prod Res Co
Mimosa 1				2426.75		E	Laurel Downs Terrace	Gogo					1.9	0.5	126		BP Res Cen
Mimosa 1				2427.00		E	Laurel Downs Terrace	Gogo		0.57	0.7						Fry BP Res Cent
Mimosa 1				2427.50		E	Laurel Downs Terrace	Gogo					0.4	0.1	50		BP Res Cen
Mimosa 1		7970		2429.26		E	Laurel Downs Terrace	Upper Dev					1.39				Exxon Prod Res Co
Mimosa 1				2430.00		E	Laurel Downs Terrace	nd	433	0.85	1.73	0.72	1.73	0.33	100	42	WAIT
Mimosa 1				2430.70		E	Laurel Downs Terrace	Gogo					1.7	0	171		BP Res Cen
Mimosa 1		7975		2430.78		E	Laurel Downs Terrace	Upper Dev					2.05				Exxon Prod Res Co
Mimosa 1				2431.00		E	Laurel Downs Terrace	Gogo		0.61							Fry BP Res Cent
Mimosa 1		7978		2431.69		E	Laurel Downs Terrace	Upper Dev					2.58				Exxon Prod Res Co
Mimosa 1		7984		2433.52		E	Laurel Downs Terrace	Upper Dev					1.99				Exxon Prod Res Co
Mimosa 1				2605.00	2675.00	D	Laurel Downs Terrace	Gogo					0.3	0.1	33		BP Res Cen
Mimosa 1				2800.00	2915.00	D	Laurel Downs Terrace	Gogo					0.3	0	133		BP Res Cen
Mimosa 1				3045.00	3140.00	D	Laurel Downs Terrace	Gogo					0.3	0			BP Res Cen
Mimosa 1				3325.00	3410.00	D	Laurel Downs Terrace	Gogo					0.2	0			BP Res Cen
Mimosa 1				3372.00		D	Laurel Downs Terrace	nd		0.01	0.12	-	0.47	0.08	-	-	WAIT
Mimosa 1				3372.75		D	Laurel Downs Terrace	Gogo					0.1	0			BP Res Cen
Mimosa 1		11071		3374.44		D	Laurel Downs Terrace	Upper Dev					0.45				Exxon Prod Res Co
Mimosa 1				3550.00	3640.00	D	Laurel Downs Terrace	Gogo					0.2	0			BP Res Cen
Mimosa 1				3790.00	3915.00	D	Laurel Downs Terrace	Gogo					0.3	0	33		BP Res Cen
Mimosa 1				3975.00	4080.00	D	Laurel Downs Terrace	Gogo					0.2	0	50		BP Res Cen
Mimosa 1				4112.00		D	Laurel Downs Terrace	nd	394	0.01	0.39	-	0.27	0.07	-	-	WAIT

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Munro 1	42062			1424.90	1424.90	B	Willara s-basin	Carribuddy					0.29				orgchem
Munro 1	42063			1563.60	1563.60	B	Willara s-basin	Carribuddy					0.1				orgchem
Munro 1		5200		1584.96		B	Willara s-basin	Carribuddy	222	0.04	0	0.94	0.42	1.00	0.00	223.00	wcr/amdel
Munro 1		5230		1594.10		B	Willara s-basin	Carribuddy	282	0.06	0	1.08	0.49	1.00	0.00	220.00	wcr/amdel
Munro 1		5260		1603.25		A2	Willara s-basin	Goldwyer					0.28				wcr/amdel
Munro 1	5601			1606.30	1609.40	A2	Willara s-basin	Goldwyer	436	0.05	0.04	1.47	0.24	0.56	16.67	612.50	orgchem
Munro 1		5290		1612.39		A2	Willara s-basin	Goldwyer					0.26				wcr/amdel
Munro 1	5602			1618.50	1621.60	A2	Willara s-basin	Goldwyer	354	0.01	0.04	1.06	0.18	0.20	22.22	588.89	orgchem
Munro 1		5320		1621.54		A2	Willara s-basin	Goldwyer					0.28				wcr/amdel
Munro 1		5350		1630.68		A2	Willara s-basin	Goldwyer					0.21				wcr/amdel
Munro 1	5603			1636.80	1639.80	A2	Willara s-basin	Goldwyer	349	0.02	0.04	0.65	0.15	0.33	26.67	433.33	orgchem
Munro 1		5380		1639.82		A2	Willara s-basin	Goldwyer					0.2				wcr/amdel
Munro 1		5410		1648.97		A2	Willara s-basin	Goldwyer					0.23				wcr/amdel
Munro 1	5604			1652.00	1655.10	A2	Willara s-basin	Goldwyer	345	0.01	0.04	0.7	0.7	0.20	5.71	100.00	orgchem
Munro 1	42064			1652.00	1652.00	A2	Willara s-basin	Goldwyer					0.31				orgchem
Munro 1		5440		1658.11		A2	Willara s-basin	Goldwyer					0.24				wcr/amdel
Munro 1		5470		1667.26		A2	Willara s-basin	Goldwyer					0.21				wcr/amdel
Munro 1		5500		1676.40		A2	Willara s-basin	Goldwyer					0.24				wcr/amdel
Munro 1		5530		1685.54		A2	Willara s-basin	Goldwyer	285	0.05	0.04	0.67	0.34	0.62	11.00	197.00	wcr/amdel
Munro 1		5560		1694.69		A2	Willara s-basin	Goldwyer					0.23				wcr/amdel
Munro 1		5590		1703.83		A2	Willara s-basin	Goldwyer		0.4	0.2		0.24				wcr/amdel
Munro 1	5605			1710.00	1713.00	A2	Willara s-basin	Goldwyer	368	0.02	0.06	0.53	0.17	0.25	35.29	311.76	orgchem
Munro 1	5606			1722.10	1725.20	A2	Willara s-basin	Goldwyer	393	0.02	0.05	0.33	0.16	0.29	31.25	206.25	orgchem
Munro 1		5650		1722.12		A2	Willara s-basin	Goldwyer	259	0.03	0.03	0.57	0.3	0.50	10.00	190.00	wcr/amdel
Munro 1		5680		1731.26		A2	Willara s-basin	Goldwyer					0.23				wcr/amdel
Munro 1		5710		1740.41		A2	Willara s-basin	Goldwyer					0.23				wcr/amdel
Munro 1	42065			1744.90	1744.90	A2	Willara s-basin	Goldwyer					0.3				orgchem
Munro 1	5607			1746.50	1749.60	A2	Willara s-basin	Goldwyer	371	0.02	0.05	0.38	0.17	0.29	29.41	223.53	orgchem
Munro 1		5740		1749.55		A2	Willara s-basin	Goldwyer		0.4	0.2		0.25				wcr/amdel
Munro 1		5770		1758.70		A2	Willara s-basin	Goldwyer					0.22				wcr/amdel
Munro 1	5608			1758.70	1761.80	A2	Willara s-basin	Goldwyer	371	0.01	0.05	0.47	0.15	0.17	33.33	313.33	orgchem
Munro 1		5800		1767.84		A2	Willara s-basin	Goldwyer					0.25				wcr/amdel
Munro 1		5830		1776.98		A2	Willara s-basin	Goldwyer					0.23				wcr/amdel
Munro 1		5860		1786.13		A2	Willara s-basin	Goldwyer					0.24				wcr/amdel
Munro 1		5890		1795.27		A2	Willara s-basin	Goldwyer					0.25				wcr/amdel
Munro 1	42066			1883.60	1883.60	A1	Willara s-basin	Willara					0.45				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Musca 1				540		H	Broome Plat.	Grant (Shale)					0.42				Analabs(WCR)
Musca 1				560		H	Broome Plat.	Grant (Shale)					0.44				Analabs(WCR)
Musca 1				580		H	Broome Plat.	Grant (Shale)	410	0.13	0.49	1.04	0.73	0.21	67	142	Analabs(WCR)
Musca 1				600		H	Broome Plat.	Grant (Shale)	421	0.05	0.22	0.32	0.54	0.19	40	59	Analabs(WCR)
Musca 1				620		H	Broome Plat.	Grant (Shale)	423	0.05	0.23	0.29	0.55	0.18	41	52	Analabs(WCR)
Musca 1				621		H	Broome Plat.	Grant (Shale)	430	0.03	0.17	1.3	0.56	0.15	30	232	Analabs(WCR)
Musca 1				640		H	Broome Plat.	Grant (Shale)					0.34				Analabs(WCR)
Musca 1				660		H	Broome Plat.	Grant (Shale)					0.25				Analabs(WCR)
Musca 1				680		H	Broome Plat.	Grant (Shale)					0.31				Analabs(WCR)
Musca 1				700		H	Broome Plat.	Grant (Shale)					0.46				Analabs(WCR)
Musca 1				720		H	Broome Plat.	Grant (Shale)					0.42				Analabs(WCR)
Musca 1				740		H	Broome Plat.	Grant					0.14				Analabs(WCR)
Musca 1				760		H	Broome Plat.	Grant					0.16				Analabs(WCR)
Musca 1				840		H	Broome Plat.	Grant					0.17				Analabs(WCR)
Musca 1				860		C	Broome Plat.	Grant					0.43				Analabs(WCR)
Musca 1				880		C	Broome Plat.	Grant					0.28				Analabs(WCR)
Musca 1				900		C	Broome Plat.	Grant					0.28				Analabs(WCR)
Musca 1				914.6		C	Broome Plat.	Carribuddy (A)					0.11				Analabs(WCR)
Musca 1				920		B2	Broome Plat.	Carribuddy (A)					0.2				Analabs(WCR)
Musca 1				940		B2	Broome Plat.	Carribuddy (A)					0.2				Analabs(WCR)
Musca 1				960		B2	Broome Plat.	Carribuddy (A)					0.15				Analabs(WCR)
Musca 1				980		B2	Broome Plat.	Carribuddy (A)					0.26				Analabs(WCR)
Musca 1				1000		B2	Broome Plat.	Carribuddy (A)					0.28				Analabs(WCR)
Musca 1				1020		B2	Broome Plat.	Carribuddy (A)					0.24				Analabs(WCR)
Musca 1				1040		B2	Broome Plat.	Carribuddy (A)					0.21				Analabs(WCR)

Musca 1				1060	B2	Broome Plat.	Carribuddy (B)					0.25				Analabs(WCR)
Musca 1				1080	B2	Broome Plat.	Carribuddy (B)					0.31				Analabs(WCR)
Musca 1				1100	B2	Broome Plat.	Carribuddy (B)					0.3				Analabs(WCR)
Musca 1				1120	B2	Broome Plat.	Carribuddy (B)					0.3				Analabs(WCR)
Musca 1				1140	B2	Broome Plat.	Carribuddy (B)					0.24				Analabs(WCR)
Musca 1				1160	B2	Broome Plat.	Carribuddy (B)					0.29				Analabs(WCR)
Musca 1				1180	B2	Broome Plat.	Carribuddy (B)					0.21				Analabs(WCR)
Musca 1				1200	B2	Broome Plat.	Carribuddy (C)					0.26				Analabs(WCR)
Musca 1				1220	B1	Broome Plat.	Carribuddy (C)					0.19				Analabs(WCR)
Musca 1				1240	B1	Broome Plat.	Carribuddy (C)					0.19				Analabs(WCR)
Musca 1				1260	B1	Broome Plat.	Carribuddy (C)					0.18				Analabs(WCR)
Musca 1				1280	B1	Broome Plat.	Carribuddy (C)					0.23				Analabs(WCR)
Musca 1				1300	B1	Broome Plat.	Carribuddy (C)					0.22				Analabs(WCR)
Musca 1				1320	B1	Broome Plat.	Carribuddy (C)					0.22				Analabs(WCR)
Musca 1				1340	B1	Broome Plat.	Carribuddy (D)					0.25				Analabs(WCR)
Musca 1				1360	B1	Broome Plat.	Carribuddy (D)					0.16				Analabs(WCR)
Musca 1				1380	B1	Broome Plat.	Carribuddy (D)					0.15				Analabs(WCR)
Musca 1				1410	B1	Broome Plat.	Carribuddy (D)					0.2				Analabs(WCR)
Musca 1				1420	B1	Broome Plat.	Carribuddy (D)					0.12				Analabs(WCR)
Musca 1				1440	B1	Broome Plat.	Carribuddy (D)					0.18				Analabs(WCR)
Musca 1				1460	B1	Broome Plat.	Nlita					0.16				Analabs(WCR)
Musca 1				1480	A2	Broome Plat.	Nlita					0.16				Analabs(WCR)
Musca 1				1500	A2	Broome Plat.	Nlita					0.16				Analabs(WCR)
Musca 1				1510	A2	Broome Plat.	Goldwyer					0.17				wcr/amdel
Musca 1				1520	A2	Broome Plat.	Goldwyer					0.24				Analabs(WCR)
Musca 1				1520	A2	Broome Plat.	Goldwyer					0.1				wcr/amdel
Musca 1				1530	A2	Broome Plat.	Goldwyer					0.29				Analabs(WCR)
Musca 1				1530	A2	Broome Plat.	Goldwyer					0.14				wcr/amdel
Musca 1				1535	A2	Broome Plat.	Goldwyer					0.24				wcr/amdel

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Ngalti 1				120	150	I	Balgo Terrace	Noonkanbah Fm					1.04				company rep.
Ngalti 1				137.3		I	Balgo Terrace	Noonkanbah Fm	492	0.01	0.01	0.19	0.27	0.5	3	70	company rep.
Ngalti 1				150	180	I	Balgo Terrace	Noonkanbah Fm					0.34				company rep.
Ngalti 1				175.5		I	Balgo Terrace	Noonkanbah Fm	429	0.06	3.23	0.34	4	0.02	80	8	company rep.
Ngalti 1				790	820	F	Balgo Terrace	Laurel Fm									company rep.
Ngalti 1				817.6		F	Balgo Terrace	Laurel Fm									company rep.
Ngalti 1				820	850	F	Balgo Terrace	Laurel Fm					0.13				company rep.
Ngalti 1				850	880	F	Balgo Terrace	Laurel Fm	365	0.37	0.49	0.08	0.12	0.43	408	66	company rep.
Ngalti 1				880	910	F	Balgo Terrace	Laurel Fm					0.2				company rep.
Ngalti 1				910	940	F	Balgo Terrace	Laurel Fm					0.11				company rep.
Ngalti 1				940	970	F	Balgo Terrace	Laurel Fm					0.12				company rep.
Ngalti 1				970	1000	F	Balgo Terrace	Laurel Fm					0.14				company rep.
Ngalti 1				1000	1030	F	Balgo Terrace	Laurel Fm					0.15				company rep.
Ngalti 1				1030	1060	F	Balgo Terrace	Laurel Fm					0.17				company rep.
Ngalti 1				nd		F	Balgo Terrace	Laurel Fm					0.08				company rep.
Ngalti 1				nd		F	Balgo Terrace	Laurel Fm					0.14				company rep.

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Nita Downs 1	4544			1540.4	1540.4	A2	Broome Plat.	Nita Formation	405	0.11	0.1	1.94					

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Notabills 1				713.5		H	E Jugurra Terrace	Grant					0.38				amdel/swc
Notabills 1				735		H	E Jugurra Terrace	Grant					0.38				amdel/swc

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Olios 1				45		I	Balgo Terr	Liveringa Gp					0.04				company rep.
Olios 1				75		I	Balgo Terr	Noonkanbah Fm					0.07				company rep.
Olios 1				105		I	Balgo Terr	Noonkanbah Fm	432	0.04	0.31	0.76	1.45	0.11	21	52	company rep.
Olios 1				135		I	Balgo Terr	Noonkanbah Fm	435	0.02	0.24	0.48	1.55	0.08	15	30	company rep.
Olios 1				165		I	Balgo Terr	Noonkanbah Fm	434	0.02	0.23	0.3	1.36	0.08	16	22	company rep.
Olios 1				195		I	Balgo Terr	Noonkanbah Fm	434	0.01	0.31	0.27	1.58	0.03	19	17	company rep.
Olios 1				225		I	Balgo Terr	Noonkanbah Fm	436	0.03	0.27	1.76	1.28	0.1	21	137	company rep.
Olios 1				225		I	Balgo Terr	Noonkanbah Fm	432	0.02	0.33	1.56	1.39	0.06	23	112	company rep.
Olios 1				285		I	Balgo Terr	Poole sst	430	0.04	1.5	0.06	1.37	0.03	109	43	company rep.
Olios 1				810		F	Balgo Terr	Anderson Fm					0.15				company rep.
Olios 1				825		F	Balgo Terr	Anderson Fm					0.18				company rep.
Olios 1				840		F	Balgo Terr	Anderson Fm					0.34				company rep.
Olios 1				855		F	Balgo Terr	Anderson Fm	432	0.11	0.42	0.39	0.55	0.21	76	70	company rep.
Olios 1				870		F	Balgo Terr	Anderson Fm					0.19				company rep.
Olios 1				885		F	Balgo Terr	Anderson Fm					0.09				company rep.
Olios 1				900		F	Balgo Terr	Anderson Fm					0.14				company rep.
Olios 1				915		F	Balgo Terr	Anderson Fm					0.25				company rep.
Olios 1				930		F	Balgo Terr	Anderson Fm					0.2				company rep.
Olios 1				945		F	Balgo Terr	Anderson Fm	422	2.52	2.08	0.76	0.86	0.55	241	88	company rep.
Olios 1				960		F	Balgo Terr	Anderson Fm					0.39				company rep.
Olios 1				975		F	Balgo Terr	Anderson Fm					0.13				company rep.
Olios 1				990		F	Balgo Terr	Anderson Fm					0.19				company rep.
Olios 1				1005		F	Balgo Terr	Anderson Fm					0.09				company rep.
Olios 1				1020		F	Balgo Terr	Anderson Fm					0.12				company rep.
Olios 1				1035		F	Balgo Terr	Anderson Fm					0.06				company rep.

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Olios 1				1050		F	Balgo Terr	Anderson Fm					0.1				company rep.
Olios 1				1065		F	Balgo Terr	Anderson Fm					0.13				company rep.
Olios 1				1080		F	Balgo Terr	Anderson Fm					0.09				company rep.
Olios 1				1095		F	Balgo Terr	Anderson Fm					0.21				company rep.
Olios 1				1110		F	Balgo Terr	Anderson Fm					0.19				company rep.
Olios 1				1125		F	Balgo Terr	Anderson Fm					0.24				company rep.
Olios 1				1140		F	Balgo Terr	Fairfield Gp					0.22				company rep.
Olios 1				1155		F	Balgo Terr	Fairfield Gp					0.18				company rep.
Olios 1				1170		F	Balgo Terr	Fairfield Gp					0.19				company rep.
Olios 1				1185		F	Balgo Terr	Fairfield Gp					0.17				company rep.
Olios 1				1200		F	Balgo Terr	Fairfield Gp					0.19				company rep.
Olios 1				1215		F	Balgo Terr	Fairfield Gp					0.17				company rep.
Olios 1				1230		F	Balgo Terr	Fairfield Gp					0.15				company rep.
Olios 1				1245		F	Balgo Terr	Fairfield Gp					0.18				company rep.
Olios 1				1260		F	Balgo Terr	Fairfield Gp					0.14				company rep.
Olios 1				1275		F	Balgo Terr	Fairfield Gp					0.18				company rep.
Olios 1				1290		F	Balgo Terr	Fairfield Gp					0.3				company rep.
Olios 1				1305		F	Balgo Terr	Fairfield Gp					0.18				company rep.
Olios 1				1320		F	Balgo Terr	Fairfield Gp					0.18				company rep.
Olios 1				1335		F	Balgo Terr	Fairfield Gp					0.45				company rep.
Olios 1				1350		F	Balgo Terr	Fairfield Gp					0.31				company rep.
Olios 1				1365		F	Balgo Terr	Fairfield Gp					0.12				company rep.
Olios 1				1380		F	Balgo Terr	Fairfield Gp					0.13				company rep.
Olios 1				1395		F	Balgo Terr	Fairfield Gp					0.08				company rep.
Olios 1				1410		F	Balgo Terr	Fairfield Gp					0.13				company rep.

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Orange Pool 1				717.7		F	Laurel Downs Terrace	Anderson Fm					0.28				wcr/Home
Orange Pool 1				888.1		F	Laurel Downs Terrace	Laurel Fm					0.48				wcr/Home
Orange Pool 1				923.3		F	Laurel Downs Terrace	Laurel Fm					1.12				wcr/Home
Orange Pool 1				971.3		F	Laurel Downs Terrace	Laurel Fm					0.7				wcr/Home
Orange Pool 1				982.6		F	Laurel Downs Terrace	Laurel Fm					0.55				wcr/Home
Orange Pool 1				1034.5		F	Laurel Downs Terrace	Laurel Fm					0.17				wcr/Home

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Parda 1		2730	2760	832.104	841.248	H	S Broome Plat.	Grant/Perm	407	0.2	0.22	0.45	0.48	0.48	46	94	WA Cen Pet Expl
Parda 1		3090	3100	941.832	944.88	H	S Broome Plat.	Grant/Perm	353	0.06	0.2	7.6	18.9	0.23	1	40	WA Cen Pet Expl
Parda 1	51071			1277.1	1280.2	A2	S Broome Plat.	Goldwyer		0.7	0.1		0.18	0.88	56		BP Res Cent
Parda 1	5540			1286.3	1289.3	A2	S Broome Plat.	Goldwyer	424		0.04		0.15		17		orgchem
Parda 1	51072			1292.3	1295.4	A2	S Broome Plat.	Goldwyer		0.5	0.1		0.22	0.83	45		BP Res Cent
Parda 1	51073			1307.6	1310.6	A2	S Broome Plat.	Goldwyer		0.5	0.2		0.29	0.71	69		BP Res Cent
Parda 1	5541			1310.7	1313.7	A2	S Broome Plat.	Goldwyer	434	0.03	0.1		0.18	0.23	45		orgchem
Parda 1	51074				1314.9	A2	S Broome Plat.	Goldwyer		0.3	0.1		0.17	0.75	59		BP Res Cent
Parda 1	51075				1315	A2	S Broome Platform	Goldwyer		0.1	0.2		0.27	0.33	74		BP Res Cent
Parda 1	5538			1315.5	1315.5	A2	S Broome Platform	Goldwyer	426	0.03	0.15		0.19	0.17	71		orgchem
Parda 1	51076				1316	A2	S Broome Platform	Goldwyer		0.3	0.3		0.3	0.50	100		BP Res Cent
Parda 1	51077				1316.7	A2	S Broome Platform	Goldwyer		0.2	0.3		0.28	0.40	107		BP Res Cent
Parda 1	5539			1316.8	1316.8	A2	S Broome Platform	Goldwyer	428	0.03	0.13		0.22	0.19	59		orgchem
Parda 1	51078				1317.3	A2	S Broome Platform	Goldwyer		0.4	0.7		0.3	0.36	233		BP Res Cent
Parda 1	51079			1322.8	1325.9	A2	S Broome Platform	Goldwyer		0.4	0.2		0.24	0.67	83		BP Res Cent
Parda 1	5542			1332	1335	A2	S Broome Platform	Goldwyer	430	0.01	0.07		0.17	0.13	33		orgchem
Parda 1	51080			1338.1	1341.1	A2	S Broome Platform	Goldwyer		0.5	0.2		0.26	0.71	77		BP Res Cent
Parda 1	51081			1365.5	1368.5	A2	S Broome Platform	Goldwyer		0.8	0.2		0.3	0.80	67		BP Res Cent
Parda 1	51082			1380.7	1383.8	A2	S Broome Platform	Goldwyer		0.4	0.2		0.23	0.67	87		BP Res Cent
Parda 1	51083			1396	1399	A2	S Broome Platform	Goldwyer		0.6	0.1		0.23	0.86	43		BP Res Cent
Parda 1	51084			1411.2	1414.3	A2	S Broome Platform	Goldwyer		0.5	0.3		0.28	0.63	107		BP Res Cent
Parda 1	51085			1426.6	1429.5	A2	S Broome Platform	Goldwyer		1.1	0.2		0.29	0.85	69		BP Res Cent
Parda 1	51086			1441.7	1444.7	A2	S Broome Platform	Goldwyer		0.4	0.1		0.25	0.80	40		BP Res Cent
Parda 1	51087			1456.9	1460	A2	S Broome Platform	Goldwyer		0.5	0.2		0.25	0.71	80		BP Res Cent
Parda 1	51088			1472.2	1475.2	A2	S Broome Platform	Goldwyer		0.4	0.2		0.25	0.67	80		BP Res Cent
Parda 1	51089				1486.5	A2	S Broome Platform	Goldwyer		0.3	0.2		0.27	0.60	74		BP Res Cent
Parda 1	51092			1486.5	1488	A2	S Broome Platform	Goldwyer		0.6	0.3		0.3	0.67	100		BP Res Cent
Parda 1	51090				1487.1	A2	S Broome Platform	Goldwyer		0.3	0.2		0.22	0.60	91		BP Res Cent
Parda 1	51091				1487.7	A2	S Broome Platform	Goldwyer		0.3	0.1		0.28	0.75	36		BP Res Cent
Parda 1	51093				1488.3	A2	S Broome Platform	Goldwyer		0.4	0.2		0.24	0.67	83		BP Res Cent
Parda 1	51094				1488.9	A2	S Broome Platform	Goldwyer		0.4			0.06	1.00			BP Res Cent

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Pegasus 1	62924			590		D	Munro Terrace	Mellenjeri/Devonian					0.3				orgchem (orig. AMOCO)
Pegasus 1	62925			2120		B1	Munro Terrace	Carribud/Sil-Low Dev					0.3				orgchem (orig. AMOCO)
Pegasus 1	62926			2191		B1	Munro Terrace	Carribud/Sil-Low Dev					0.3				orgchem (orig. AMOCO)
Pegasus 1	62927			2385		A2	Munro Terrace	Nlita Fm			0.07	0.21	0.4		17.50		orgchem (orig. AMOCO)
Pegasus 1	62928			2392.5		A2	Munro Terrace	Goldwyer/ Mid Ord			0.05	0.23	0.4		12.50		orgchem (orig. AMOCO)
Pegasus 1	62929			2487.5		A2	Munro Terrace	Goldwyer/ Mid Ord					0.2				orgchem (orig. AMOCO)
Pegasus 1	62930			2605.5		A2	Munro Terrace	Goldwyer/ Mid Ord					0.3				orgchem (orig. AMOCO)
Pegasus 1	62931			2730.5		A1	Munro Terrace	Willara/ Low Ord			0.19	0.3	0.7		27.14		orgchem (orig. AMOCO)
Pegasus 1	62932			2752		A1	Munro Terrace	Willara/ Low Ord			0.22	0.37	0.9		24.44		orgchem (orig. AMOCO)
Pegasus 1	62933			2971		A0	Munro Terrace	Nambeet/ Low Ord					0.2				orgchem (orig. AMOCO)

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Percival 1	63040			2068	2068	A2	Barbwire Terr	Goldwyer Fm	434	0.19	0.44	0.1	0.59	0.30	74.58	16.95	orgchem
note: this appears to be only analysis done																	

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Perindi 1	54672			215	215	L	MooganaTerr.	Broome Sst					0.05				orgchem
Perindi 1	54673			245	245	L	MooganaTerr.	Broome Sst					0.11				orgchem
Perindi 1	54674			275	275	L	MooganaTerr.	Broome Sst					0.10				orgchem
Perindi 1	54675			305	305	L	MooganaTerr.	Broome Sst					0.13				orgchem
Perindi 1	54676			335	335	L	MooganaTerr.	Broome Sst					0.39				orgchem
Perindi 1	54677			365	365	L	MooganaTerr.	Broome Sst					0.33				orgchem
Perindi 1	54678			395	395	L	MooganaTerr.	Broome Sst					0.13				orgchem
Perindi 1	54679			425	425	L	MooganaTerr.	Broome Sst					0.33				orgchem
Perindi 1	54680			455	455	L	MooganaTerr.	Broome Sst					0.53				orgchem
Perindi 1	54681			485	485	K	MooganaTerr.	Jarlemal Silts.					0.84				orgchem
Perindi 1	54682			500	500	K	MooganaTerr.	Jarlemal Silts.	421	0.17	2.08	0.94	1.07				orgchem
Perindi 1	54683			515	515	K	MooganaTerr.	Alexander Fm					1.03				orgchem
Perindi 1	54684			545	545	K	MooganaTerr.	Alexander Fm					0.96				orgchem
Perindi 1	54685			590	590	K	MooganaTerr.	Alexander Fm					1.06				orgchem
Perindi 1	54686			620	620	K	MooganaTerr.	Alexander Fm					0.96				orgchem
Perindi 1	54687			650	650	K	MooganaTerr.	Alexander Fm					1.62				orgchem
Perindi 1	54688			770	770	K	MooganaTerr.	Alexander Fm					51.80				orgchem
Perindi 1	54690			828.8	828.8	I	MooganaTerr.	Poole Sst	454	0.39	0.84	0.5	2.52				orgchem
Perindi 1	54691			830.8	830.8	I	MooganaTerr.	Poole Sst	453	0.05	0.15	0.14	0.60				orgchem
Perindi 1	54692			831.8	831.8	I	MooganaTerr.	Poole Sst	460	0.18	0.56	0.31	2.35				orgchem
Perindi 1	54693			832.8	832.8	I	MooganaTerr.	Poole Sst	441	0.26	0.59	0.28	1.19				orgchem
Perindi 1	54694			833.1	833.1	I	MooganaTerr.	Poole Sst					0.24				orgchem
Perindi 1	54695			835.8	835.8	I	MooganaTerr.	Poole Sst	442	0.16	0.28	0.22	0.77				orgchem
Perindi 1	54696			838.7	838.7	I	MooganaTerr.	Poole Sst					0.10				orgchem
Perindi 1	54697			839.8	839.8	I	MooganaTerr.	Poole Sst	422	0.11	3.16	1.74	3.31				orgchem
Perindi 1	54698			860	860	I	MooganaTerr.	Poole Sst					37.10				orgchem
Perindi 1	54699			868	868	I	MooganaTerr.	Poole Sst	427	0.09	0.05	0.17	0.58				orgchem
Perindi 1	54700			878	878	H	MooganaTerr.	Grant Fm	321	0.08	0.04	0.13	0.84				orgchem
Perindi 1	54701			878	878	H	MooganaTerr.	Grant Fm					0.94				orgchem
Perindi 1	54702			879	879	H	MooganaTerr.	Grant Fm	274	0.09	0.02	0.04	0.68				orgchem
Perindi 1	54703			879.5	879.5	H	MooganaTerr.	Grant Fm					0.66				orgchem
Perindi 1	54704			890	890	H	MooganaTerr.	Grant Fm					2.04				orgchem
Perindi 1	54705			920	920	H	MooganaTerr.	Grant Fm					2.38				orgchem
Perindi 1	54706			950	950	H	MooganaTerr.	Grant Fm					0.88				orgchem
Perindi 1	54707			966.3	966.3	H	MooganaTerr.	Grant Fm	321	0.08	0.03	0.01	0.25				orgchem
Perindi 1	54708			980	980	H	MooganaTerr.	Grant Fm					1.25				orgchem
Perindi 1	54709			1010	1010	H	MooganaTerr.	Grant Fm					0.81				orgchem
Perindi 1	54710			1018.5	1018.5	H	MooganaTerr.	Grant Fm	303	0.18	0.01	0.01	0.48				orgchem
Perindi 1	54711			1040	1040	H	MooganaTerr.	Grant Fm					0.40				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Perindi 1	54712			1070	1070	H	MooganaTerr.	Grant Fm					0.72				orgchem
Perindi 1	54713			1087.8	1087.8	H	MooganaTerr.	Grant Fm					0.07				orgchem
Perindi 1	54714			1100	1100	H	MooganaTerr.	Grant Fm					0.94				orgchem
Perindi 1	54715			1130	1130	H	MooganaTerr.	Grant Fm					1.63				orgchem
Perindi 1	54716			1135	1135	H	MooganaTerr.	Grant Fm	274	0.17	0.02	0.01	0.34				orgchem
Perindi 1	54717			1152.1	1152.1	H	MooganaTerr.	Grant Fm	305	0.09	0.01	0.03	0.26				orgchem
Perindi 1	54718			1164.7	1164.7	H	MooganaTerr.	Grant Fm	274	0.1	0.01	0.01	0.37				orgchem
Perindi 1	54719			1173	1173	H	MooganaTerr.	Grant Fm					0.22				orgchem
Perindi 1	54720			1205	1205	H	MooganaTerr.	Grant Fm					0.18				orgchem
Perindi 1	54721			1207.9	1207.9	H	MooganaTerr.	Grant Fm					0.07				orgchem
Perindi 1	54722			1235	1235	H	MooganaTerr.	Grant Fm					0.58				orgchem
Perindi 1	54723			1265	1265	H	MooganaTerr.	Grant Fm					0.50				orgchem
Perindi 1	54724			1294.3	1294.3	H	MooganaTerr.	Grant Fm					0.04				orgchem
Perindi 1	54725			1295	1295	H	MooganaTerr.	Grant Fm					0.39				orgchem
Perindi 1	54726			1325	1325	H	MooganaTerr.	Grant Fm					0.44				orgchem
Perindi 1	54727			1355	1355	H	MooganaTerr.	Grant Fm					0.44				orgchem
Perindi 1	54728			1364.5	1364.5	H	MooganaTerr.	Grant Fm					0.02				orgchem
Perindi 1	54729			1366.7	1366.7	H	MooganaTerr.	Grant Fm					0.03				orgchem
Perindi 1	54730			1385	1385	H	MooganaTerr.	Grant Fm					0.12				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Perindi 1	54731			1415	1415	H	MooganaTerr.	Grant Fm					0.06				orgchem
Perindi 1	54732			1475	1475	H	MooganaTerr.	Grant Fm					0.06				orgchem
Perindi 1	54733			1505	1505	H	MooganaTerr.	Grant Fm					0.05				orgchem
Perindi 1	54734			1535	1535	H	MooganaTerr.	Grant Fm					0.05				orgchem
Perindi 1	54735			1565	1565	H	MooganaTerr.	Grant Fm					0.07				orgchem
Perindi 1	54736			1594	1594	H	MooganaTerr.	Grant Fm					0.06				orgchem
Perindi 1	54737			1595	1595	H	MooganaTerr.	Grant Fm					0.11				orgchem
Perindi 1	54738			1625	1625	H	MooganaTerr.	Grant Fm					0.15				orgchem
Perindi 1	54739			1655	1655	H	MooganaTerr.	Grant Fm					0.20				orgchem
Perindi 1	54740			1685	1685	H	MooganaTerr.	Grant Fm					0.16				orgchem
Perindi 1	54741			1720	1720	H	MooganaTerr.	Grant Fm					0.25				orgchem
Perindi 1	54742			1750	1750	H	MooganaTerr.	Grant Fm					0.14				orgchem
Perindi 1	54743			1772	1772	F	MooganaTerr.	Laurel Fm	422	0.92	0.41	0.21	0.29				orgchem
Perindi 1	54744			1773.6	1773.6	F	MooganaTerr.	Laurel Fm					0.21				orgchem
Perindi 1	54745			1780	1780	D	MooganaTerr.	Pillara Limestone					1.01				orgchem
Perindi 1	54746			1781.8	1781.8	D	MooganaTerr.	Pillara Limestone					0.03				orgchem
Perindi 1	54747			1786.8	1786.8	D	MooganaTerr.	Pillara Limestone					0.09				orgchem
Perindi 1	54748			1804	1804	D	MooganaTerr.	Pillara Limestone	414	0.17	0.04	0.1	0.22				orgchem
Perindi 1	54750			1812	1812	D	MooganaTerr.	Pillara Limestone	438	0.18	0.12	0.15	0.51				orgchem
Perindi 1	54751			1854.4	1854.4	D	MooganaTerr.	Pillara Limestone					0.02				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Philydrum 1	57151			512		I	Laurel Downs Terr.	Noonkanbah	428	0.19	5.04	1.1	4.65	0.04	108	23	Analabs/wcr
Philydrum 1	57152			551		I	Laurel Downs Terr.	Noonkanbah					0.08				Analabs/wcr
Philydrum 1	57153			890		H	Laurel Downs Terr.	Grant Fm	367	1.63	2.7	0.37	0.94	0.38	287	39	Analabs/wcr
Philydrum 1	57154			1250.9		H	Laurel Downs Terr.	Grant Fm					0.35				Analabs/wcr
Philydrum 1	57155			1450		F	Laurel Downs Terr.	Laurel Fm					0.37				Analabs/wcr
Philydrum 1	57156			1587.8		E	Laurel Downs Terr.	Clanmeyer Fm					0.14				Analabs/wcr

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Pictor 1				620	620	C	Damplir Terr.	Tandalgoo					0.24				orgchem
Pictor 1				710	710	C	Damplir Terr.	Tandalgoo					0.09				orgchem
Pictor 1				800	800	B1	Damplir Terr.	Carlbuddy					0.14				orgchem
Pictor 1				890	890	B1	Damplir Terr.	Nlita					0.12				orgchem
Pictor 1				980	980	A2	Damplir Terr.	Nlita					0.12				orgchem
Pictor 1				1070	1070	A2	Damplir Terr.	Goldwyer (upp)					0.18				orgchem
Pictor 1				1160	1160	A2	Damplir Terr.	Goldwyer (upp)					0.31				orgchem
Pictor 1				1250	1250	A2	Damplir Terr.	Goldwyer (mld)					0.22				orgchem
Pictor 1				1340	1340	A2	Damplir Terr.	Goldwyer (mld)					0.21				orgchem
Pictor 1				1355	1355	A2	Damplir Terr.	Goldwyer (low)					0.2				orgchem
Pictor 1				1370	1370	A2	Damplir Terr.	Goldwyer (low)					0.2				orgchem
Pictor 1				1385	1385	A2	Damplir Terr.	Goldwyer (low)					0.2				orgchem
Pictor 1				1400	1400	A2	Damplir Terr.	Goldwyer (low)					0.32				orgchem
Pictor 1				1415	1415	A2	Damplir Terr.	Goldwyer (low)					0.46				orgchem
Pictor 1				1430	1430	A2	Damplir Terr.	Goldwyer (low)	429	0.58	0.51	0.56	0.83	0.53	61	67	orgchem
Pictor 1				1445	1445	A2	Damplir Terr.	Goldwyer (low)	434	1.15	1.31	0.3	1.54	0.47	85	19	orgchem
Pictor 1				1460	1460	A2	Damplir Terr.	Goldwyer (low)	435	0.52	0.54	0.24	0.92	0.49	58	26	orgchem
Pictor 1				1475	1475	A2	Damplir Terr.	Goldwyer (low)					0.46				orgchem
Pictor 1				1490	1490	A2	Damplir Terr.	Goldwyer (low)					0.32				orgchem
Pictor 1				1505	1505	A2	Damplir Terr.	Goldwyer (low)					0.42				orgchem
Pictor 1				1520	1520	A2	Damplir Terr.	Willara					0.32				orgchem
Pictor 1				1610	1610	A1	Damplir Terr.	Willara					0.22				orgchem
Pictor 1				1700	1700	A1	Damplir Terr.	Willara					0.22				orgchem
Pictor 1				1790	1790	A1	Damplir Terr.	Willara					0.18				orgchem
Pictor 1				1880	1880	A1	Damplir Terr.	Willara					0.25				orgchem
Pictor 1				1895	1895	A1	Damplir Terr.	Willara					0.19				orgchem
Pictor 1				1910	1910	A1	Damplir Terr.	Willara					0.27				orgchem
Pictor 1				1925	1925	A1	Damplir Terr.	Willara					0.28				orgchem
Pictor 1				1940	1940	A1	Damplir Terr.	Nambeet	345	0.07	0.06	0.29	0.52	0.54	11	55	orgchem
Pictor 1				1955	1955	A1	Damplir Terr.	Nambeet	358	0.07	0.06	0.37	0.84	0.54	7	44	orgchem
Pictor 1				1970	1970	A1	Damplir Terr.	Nambeet	439	0.07	0.03	1.06	0.65	0.7	4	163	orgchem
Pictor 1				1985	1985	A1	Damplir Terr.	Nambeet	305	0.09	0.07	0.32	0.65	0.56	10	49	orgchem
Pictor 1				2000	2000	A1	Damplir Terr.	Nambeet					0.43				orgchem
Pictor 1				2015	2015	A1	Damplir Terr.	Nambeet					0.4				orgchem
Pictor 1				2030	2030	A1	Damplir Terr.	Nambeet					0.21				orgchem
Pictor 1				2045	2045	A1	Damplir Terr.	Nambeet					0.21				orgchem
Pictor 1				2060	2060	A1	Damplir Terr.	Nambeet					0.21				orgchem
Pictor 1				2135	2135	nd	Damplir Terr.	Basement					0.09				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Point Moody 1		2000		609.60		nd	Ryan shelf	Grant Fm					0.39				Mobil
Point Moody 1		2320		707.14		nd	Ryan shelf	Grant Fm					0.46				Mobil
Point Moody 1		2600		792.48		nd	Ryan shelf	Grant Fm					0.07				Mobil
Point Moody 1		2910		886.97		nd	Ryan shelf	Grant Fm					0.79				Mobil
Point Moody 1		2910		886.97		nd	Ryan shelf	Grant Fm					0.8				Mobil
Point Moody 1		3200		975.36		nd	Ryan shelf	Grant Fm					0.38				Mobil
Point Moody 1		3510		1069.85		nd	Ryan shelf	Grant Fm					0.09				Mobil
Point Moody 1		3800		1158.24		nd	Ryan shelf	Grant Fm					0.2				Mobil
Point Moody 1		4100		1249.68		nd	Ryan shelf	Grant Fm					0.13				Mobil
Point Moody 1		4420		1347.22		nd	Ryan shelf	Grant Fm					0.13				Mobil
Point Moody 1		4710		1435.61		nd	Ryan shelf	Grant Fm					0.08				Mobil
Point Moody 1		5000		1524.00		nd	Ryan shelf	Grant Fm					0.15				Mobil
Point Moody 1		5300		1615.44		nd	Ryan shelf	Grant Fm					0.15				Mobil
Point Moody 1		5300		1615.44		nd	Ryan shelf	Grant Fm					0.15				Mobil
Point Moody 1		5600		1706.88		nd	Ryan shelf	Grant Fm					0.1				Mobil
Point Moody 1		5900		1798.32		nd	Ryan shelf	Grant Fm					0.08				Mobil
Point Moody 1		6200		1889.76		nd	Ryan shelf	Grant Fm					0.06				Mobil
Point Moody 1		6500		1981.20		nd	Ryan shelf	Anderson Fm?					0.13				Mobil
Point Moody 1		6800		2072.64		nd	Ryan shelf	Anderson Fm?					0.23				Mobil
Point Moody 1		7100		2164.08		nd	Ryan shelf	Anderson Fm?					0.15				Mobil
Point Moody 1		7400		2255.52		nd	Ryan shelf	Anderson Fm?					0.07				Mobil
Point Moody 1		7700		2346.96		nd	Ryan shelf	Anderson Fm?					0.06				Mobil
Point Moody 1		7990		2435.35		nd	Ryan shelf	Anderson Fm?					0.08				Mobil
Point Moody 1		7990		2435.35		nd	Ryan shelf	Anderson Fm?					0.07				Mobil

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Sahara 1		3117	3127	950.06	953.11	D	Kidson s-basin	Mellinjerle Fm					0.14				Analabs
Sahara 1		3611	3621	1100.63	1103.68	D	Kidson s-basin	Mellinjerle Fm					0.16				Analabs
Sahara 1		3611	3621	1100.63	1103.68	D	Kidson s-basin	Mellinjerle Fm	434	0.03	0.3	0.28	0.39	0.09	76	71	Analabs

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Santalum 1A				373.98	373.98	A2	Barbwire Terr.	Nita Fm									WMC
Santalum 1A				406.76	406.76	A2	Barbwire Terr.	Nita Fm									WMC
Santalum 1A				442	442	A2	Barbwire Terr.	Nita Fm					0.45				WMC
Santalum 1A				447.75	447.75	A2	Barbwire Terr.	Nita Fm					0.42				WMC
Santalum 1A				450	450	A2	Barbwire Terr.	Nita Fm					0.23				WMC
Santalum 1A				452	452	A2	Barbwire Terr.	Nita Fm					0.23				WMC
Santalum 1A				453.81	453.81	A2	Barbwire Terr.	Nita Fm	434	0.11	6.36		1.03	0.02	616		WMC
Santalum 1A				459.6	459.6	A2	Barbwire Terr.	Nita Fm					0.3				WMC
Santalum 1A				464.4	464.4	A2	Barbwire Terr.	Nita Fm					0.26				WMC
Santalum 1A				468.2	468.2	A2	Barbwire Terr.	Nita Fm					0.26				WMC
Santalum 1A				470	470	A2	Barbwire Terr.	Goldwyer Fm	433	0.5	52.96		6.4	0.01	828		WMC
Santalum 1A				470.71	470.71	A2	Barbwire Terr.	Goldwyer Fm	435	0.06	7.94		1.15	0.01	690		WMC
Santalum 1A				478.5	478.5	A2	Barbwire Terr.	Goldwyer Fm	435	0.06	3.53		0.65	0.01	543		WMC
Santalum 1A				486.95	486.95	A2	Barbwire Terr.	Goldwyer Fm	440	0.02	2.36		0.46	0.01	513		WMC
Santalum 1A				490.8	490.8	A2	Barbwire Terr.	Goldwyer Fm	437	0.14	8.34		1.28	0.02	652		WMC
Santalum 1A				494.8	494.8	A2	Barbwire Terr.	Goldwyer Fm	434	0.07	1.39		0.46	0.05	302		WMC
Santalum 1A				495.4	495.4	A2	Barbwire Terr.	Goldwyer Fm	437	0.18	5.81		1.35	0.03	430		WMC
Santalum 1A				495.8	495.8	A2	Barbwire Terr.	Goldwyer Fm	438	0.24	10.74		1.86	0.02	577		WMC
Santalum 1A				499.35	499.35	A2	Barbwire Terr.	Goldwyer Fm	440	0.06	1.81		0.52	0.03	348		WMC
Santalum 1A				503	503	A2	Barbwire Terr.	Goldwyer Fm	438	0.1	3.73		0.78	0.03	478		WMC
Santalum 1A				507.9	507.9	A2	Barbwire Terr.	Goldwyer Fm					0.22				WMC

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	Imax	S1	S2	S3	TOC	PI	HI	OI	where from
Setaria 1				453.4		A1	Barbwire terr.	Acacia sst	422	0.04	0.41	0.07	0.4	0.09	103	18	wcr/orgchem
Setaria 1				453.95		A1	Barbwire terr.	Acacia sst	414	0.17	0.8	0.09	0.57	0.18	140	16	wcr/orgchem
Setaria 1				457.29		A1	Barbwire terr.	Acacia sst	370	0.05	0.3	0.07	0.37	0.15	81	19	wcr/orgchem
Setaria 1				458.71		A1	Barbwire terr.	Acacia sst	275	0.03	0.09	0.1	0.31	0.25	29	32	wcr/orgchem
Setaria 1				460.6		A1	Barbwire terr.	Acacia sst	275	0	0.06	0.32	0.28	0	21	114	wcr/orgchem

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Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Solanum 1				315.34		A2	Barbwire Terr	Goldwyer Fm	442	0.63	16.59		2.32	0.04	715		foster et al
Solanum 1				326.43		A2	Barbwire Terr	Goldwyer Fm	441	0.17	3.44		0.85	0.05	404		foster et al
Solanum 1				397.63		A2	Barbwire Terr	Goldwyer Fm					0.26				foster et al
Solanum 1				406.1		A2	Barbwire Terr	Goldwyer Fm					0.14				foster et al
Solanum 1				449.1		A2	Barbwire Terr	Goldwyer Fm					0.12				foster et al
Solanum 1				519.58		A2	Barbwire Terr	Goldwyer Fm	437	0.67	2.52		1.17	0.21	215		foster et al
Solanum 1				556.04		A2	Barbwire Terr	Goldwyer Fm					0.22				foster et al
Solanum 1				667.2		A2	Barbwire Terr	Goldwyer Fm	427	0.06	0.87		0.83	0.07	104		foster et al

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
St Georges Range 1	30052			740.10	740.10	nd	Fitzroy Trough	Grant					0.1				orgchem
St Georges Range 1	30049			2503.30	2503.30	nd	Fitzroy Trough	Anderson Fm					1.1				orgchem
St Georges Range 1	30050			2594.70	2594.70	nd	Fitzroy Trough	Anderson Fm					0.1				orgchem
St Georges Range 1	30047			2694.20	2694.20	nd	Fitzroy Trough	Anderson Fm					3.3				orgchem
St Georges Range 1	30048			2902.60	2902.60	nd	Fitzroy Trough	Laurel Fm					0.5				orgchem
St Georges Range 1				3032.00		nd	Fitzroy Trough	Laurel Fm	489	0.05	0.47	0.45	2.61	0.1	18	17	orgchem
St Georges Range 1	30045			3124.50	3124.50	nd	Fitzroy Trough	Laurel Fm					0.2				orgchem
St Georges Range 1	30046			3442.20	3442.20	nd	Fitzroy Trough	Laurel Fm					0.1				orgchem
St Georges Range 1				3474.00		nd	Fitzroy Trough	Laurel Fm	521	0.05	0.39	0.54	0.67	0.11	58	80	orgchem
St Georges Range 1				3773.00		nd	Fitzroy Trough	Laurel Fm	419	0.01	0.04		0.63	0.25			orgchem
St Georges Range 1	30043			3997.30	3997.30	nd	Fitzroy Trough	Laurel Fm					0.1				orgchem
St Georges Range 1	30044			4285.50	4285.50	nd	Fitzroy Trough	Laurel Fm					0.2				orgchem
St Georges Range 1				4326.00		nd	Fitzroy Trough	Laurel Fm	312	0.01	0.01		0.53	0.5			orgchem

Well Name	BMR Lab No	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from	swc (otherwise cuttings)
Sundown 1	63258	818.8	818.8	I	Laurel D. Terr.	Poole Sandstone	435	0.1	4.07	1.62	2.82	0.02	144.33	57.45	orgchem	swc
Sundown 1	63259	818.9	818.9	I	Laurel D. Terr.	Poole Sandstone	432	0.11	4.57	1.3	3.2	0.02	142.81	40.63	orgchem	swc
Sundown 1	63260	892.5	892.5	H	Laurel D. Terr.	Grant Fm A	433	0.03	0.27	0.32	0.41	0.10	65.85	78.05	orgchem	swc
Sundown 1	63744	901.5	901.5	H	Laurel D. Terr.	Grant Fm A									orgchem	
Sundown 1	63261	915	915	H	Laurel D. Terr.	Grant Fm A	427	0.17	0.42	0.32	0.55	0.29	76.36	58.18	orgchem	swc
Sundown 1	63262	1081.5	1081.5	H	Laurel D. Terr.	Grant Fm B	434	0.1	0.19	0.86	0.42	0.34	45.24	204.76	orgchem	swc
Sundown 1	63745	1098	1098	H	Laurel D. Terr.	Grant Fm B									orgchem	
Sundown 1	63263	1172.5	1172.5	H	Laurel D. Terr.	Grant Fm C					0.38				orgchem	swc
Sundown 1	63264	1371.5	1371.5	G	Laurel D. Terr.	Grant Fm C					0.36				orgchem	swc
Sundown 1	63265	1452	1452	G	Laurel D. Terr.	Grant Fm C	438	0.08	0.36	0.73	1.21	0.18	29.75	60.33	orgchem	swc
Sundown 1	63266	1467.7	1467.7	F	Laurel D. Terr.	Anderson Fm	429	0.06	0.3	0.18	0.43	0.17	69.77	41.86	orgchem	swc
Sundown 1	63267	1480	1485	F	Laurel D. Terr.	Anderson Fm					0.21				orgchem	
Sundown 1	63268	1485	1490	F	Laurel D. Terr.	Anderson Fm	433	0.03	0.18	0.22	0.33	0.14	54.55	66.67	orgchem	
Sundown 1	63269	1530.5	1530.5	F	Laurel D. Terr.	Anderson Fm					0.08				orgchem	swc
Sundown 1	63270	1555	1560	F	Laurel D. Terr.	Anderson Fm					0.21				orgchem	
Sundown 1	63271	1560	1565	F	Laurel D. Terr.	Anderson Fm					0.16				orgchem	
Sundown 1	63272	1567.3	1567.3	F	Laurel D. Terr.	Anderson Fm					0.09				orgchem	swc
Sundown 1	63273	1575	1580	F	Laurel D. Terr.	Anderson Fm					0.11				orgchem	
Sundown 1	63274	1580	1585	F	Laurel D. Terr.	Anderson Fm					0.08				orgchem	
Sundown 1	63275	1585	1590	F	Laurel D. Terr.	Anderson Fm					0.09				orgchem	
Sundown 1	63276	1592.5	1592.5	F	Laurel D. Terr.	Anderson Fm					0.33				orgchem	swc
Sundown 1	63746	1608	1608	F	Laurel D. Terr.	Anderson Fm									orgchem	
Sundown 1	63277	1645	1650	F	Laurel D. Terr.	Anderson Fm					0.12				orgchem	
Sundown 1	63278	1680	1685	F	Laurel D. Terr.	Anderson Fm					0.15				orgchem	
Sundown 1	63279	1738	1738	F	Laurel D. Terr.	Anderson Fm					0.26				orgchem	swc
Sundown 1	63280	1782.8	1782.8	FF	Laurel D. Terr.	Anderson Fm					0.3				orgchem	swc
Sundown 1	63281	1805	1810	F	Laurel D. Terr.	Laurel Fm	434	0.08	0.17	0.12	0.33	0.32	51.52	36.36	orgchem	
Sundown 1	63282	1815	1820	F	Laurel D. Terr.	Laurel Fm					0.27				orgchem	
Sundown 1	63283	1855.5	1855.5	F	Laurel D. Terr.	Laurel Fm	432	0.24	0.43	1.1	0.52	0.36	82.69	211.54	orgchem	swc
Sundown 1	63284	1860	1865	F	Laurel D. Terr.	Laurel Fm	432	0.1	0.2	0.14	0.3	0.33	66.67	46.67	orgchem	
Sundown 1	63285	1865	1870	F	Laurel D. Terr.	Laurel Fm					0.25				orgchem	
Sundown 1	63286	1880	1885	F	Laurel D. Terr.	Laurel Fm					0.25				orgchem	
Sundown 1	63287	1890	1895	F	Laurel D. Terr.	Laurel Fm					0.29				orgchem	
Sundown 1	63288	1900	1905	F	Laurel D. Terr.	Laurel Fm					0.27				orgchem	
Sundown 1	63289	1900.5	1900.5	F	Laurel D. Terr.	Laurel Fm	437	0.11	0.3	0.41	0.51	0.27	58.82	80.39	orgchem	swc

Well Name	BMR Lab No	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	lmax	S1	S2	S3	TOC	PI	HI	OI	where from	swc (otherwise cuttings)
Sundown 1	63290	1935	1940	F	Laurel D. Terr.	Laurel Fm					0.28				orgchem	
Sundown 1	63291	1950	1955	F	Laurel D. Terr.	Laurel Fm					0.27				orgchem	
Sundown 1	63292	1955	1960	F	Laurel D. Terr.	Laurel Fm					0.22				orgchem	
Sundown 1	63293	1965	1970	F	Laurel D. Terr.	Laurel Fm					0.26				orgchem	
Sundown 1	63294	1968.1	1968.1	F	Laurel D. Terr.	Laurel Fm	441	0.16	0.46	0.29	0.58	0.26	79.31	50.00	orgchem	swc
Sundown 1	63295	1977.5	1977.5	F	Laurel D. Terr.	Laurel Fm	437	0.19	0.53	0.32	0.76	0.26	69.74	42.11	orgchem	swc
Sundown 1	63296	1980	1985	F	Laurel D. Terr.	Laurel Fm					0.25				orgchem	
Sundown 1	63297	2030	2035	E	Laurel D. Terr.	Undliff carbonates					0.09				orgchem	
Sundown 1	63298	2040	2045	E	Laurel D. Terr.	Undliff carbonates					0.04				orgchem	
Sundown 1	63299	2065	2070	E	Laurel D. Terr.	Undliff carbonates					0.04				orgchem	
Sundown 1	63300	2100	2105	E	Laurel D. Terr.	Undliff carbonates					0.04				orgchem	
Sundown 1	63301	2150	2155	E	Laurel D. Terr.	Undliff carbonates					0.09				orgchem	
Sundown 1	63302	2200	2205	E	Laurel D. Terr.	Undliff carbonates					0.04				orgchem	
Sundown 1	63303	2270	2275	E	Laurel D. Terr.	Undliff carbonates					0.03				orgchem	
Sundown 1	63304	2325	2330	E	Laurel D. Terr.	Undliff carbonates					0.05				orgchem	
Sundown 1	63305	2350	2355	E	Laurel D. Terr.	Undliff carbonates					0.05				orgchem	
Sundown 1	63306	2400	2405	E	Laurel D. Terr.	Undliff carbonates					0.08				orgchem	
Sundown 1	63307	2450	2455	E	Laurel D. Terr.	Undliff carbonates					0.05				orgchem	
Sundown 1	63308	2500	2505	E	Laurel D. Terr.	Undliff carbonates					0.04				orgchem	
Sundown 1	63309	2550	2555	E	Laurel D. Terr.	Undliff carbonates					0.03				orgchem	
Sundown 1	63310	2600	2605	E	Laurel D. Terr.	Undliff carbonates					0.03				orgchem	
Sundown 1	63311	2650	2655	E	Laurel D. Terr.	Undliff carbonates					0.04				orgchem	
Sundown 1	63312	2700	2705	E	Laurel D. Terr.	Undliff carbonates					0.04				orgchem	

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	Imax	S1	S2	S3	TOC	PI	HI	OI	where from
Tappers Inlet 1		2290.00	3000.00	697.99	914.40	nd	Moogana Terr.	Noonkanbah/Perm	417	0.08	0.19	0.81	1.94	0.3	10	42	WA Centre Pet Expl
Tappers Inlet 1		2500.00	2520.00	762.00	768.10	nd	Moogana Terr.	Noonkanbah/Perm	428	0.07	0.33	1	2.42	0.18	14	41	WA Centre Pet Expl
Tappers Inlet 1		2700.00	2720.00	822.96	829.06	nd	Moogana Terr.	Noonkanbah/Perm	430	0.07	0.46	1.04	2.77	0.13	17	38	WA Centre Pet Expl
Tappers Inlet 1		2980.00	3000.00	908.30	914.40	nd	Moogana Terr.	Noonkanbah/Perm	431	0.1	0.77	1.01	2.77	0.11	28	36	WA Centre Pet Expl
Tappers Inlet 1		4000.00	4020.00	1219.20	1225.30	nd	Moogana Terr.	Grant/ Permian	423	0.08	0.33	0.4	1.03	0.17	37	39	WA Centre Pet Expl
Tappers Inlet 1		4390.00	4410.00	1338.07	1344.17	nd	Moogana Terr.	Grant/ Permian	422	0.09	0.49	0.43	0.87	0.17	51	49	WA Centre Pet Expl
Tappers Inlet 1		4950.00	4970.00	1508.76	1514.86	nd	Moogana Terr.	Grant/ Permian	426	0.1	0.58	0.59	1.37	0.15	42	43	WA Centre Pet Expl
Tappers Inlet 1		6420.00	6430.00	1956.82	1959.86	nd	Moogana Terr.	Pillara/Devonian	426	0.68	1.17	0.65	0.75	0.37	156	87	WA Centre Pet Expl
Tappers Inlet 1		6382.00		1945.23		nd	Moogana Terr.	Pillara/Devonian					0.31				Exxon Prod Res Co
Tappers Inlet 1		6386.00		1946.45		nd	Moogana Terr.	Pillara/Devonian					0.68				Exxon Prod Res Co
Tappers Inlet 1		6387.00		1946.76		nd	Moogana Terr.	Pillara/Devonian					0.73				Exxon Prod Res Co
Tappers Inlet 1		6393.00		1948.59		nd	Moogana Terr.	Pillara/Devonian					0.13				Exxon Prod Res Co
Tappers Inlet 1		6395.00		1949.20		nd	Moogana Terr.	Pillara/Devonian					0.23				Exxon Prod Res Co
Tappers Inlet 1	5525			2170.20	2173.25	nd	Moogana Terr.	Willara Fm	424	0.31	0.25	0.05	0.24				orgchem
Tappers Inlet 1	5526			2212.90	2215.92	nd	Moogana Terr.	Nambeet Fm	440	0.37	0.29	0.01	0.32				orgchem
Tappers Inlet 1	5527			2243.40	2246.40	nd	Moogana Terr.	Nambeet Fm	438	0.41	0.48		0.59				orgchem
Tappers Inlet 1	5528			2295.20	2298.22	nd	Moogana Terr.	Nambeet Fm	430	0.3	0.29	0.05	0.51				orgchem
Tappers Inlet 1	5529			2322.60	2325.65	nd	Moogana Terr.	Nambeet Fm	377	1.41	1.74	0.7	1.10				orgchem
Tappers Inlet 1	5530			2368.30	2371.37	nd	Moogana Terr.	Nambeet Fm	430	0.4	0.34	0.06	0.86				orgchem
Tappers Inlet 1	5531			2395.80	2398.81	nd	Moogana Terr.	Nambeet Fm	425	0.37	0.29	0.09	0.60				orgchem
Tappers Inlet 1	5532			2438.40	2441.48	nd	Moogana Terr.	Nambeet Fm	355	0.19	0.15		0.43				orgchem
Tappers Inlet 1	5533			2441.50	2444.53	nd	Moogana Terr.	Nambeet Fm	372	0.16	0.11		0.41				orgchem
Tappers Inlet 1	5534			2472.00	2475.01	nd	Moogana Terr.	Nambeet Fm	401	0.09	0.11		0.40				orgchem
Tappers Inlet 1	5535			2511.60	2514.63	nd	Moogana Terr.	Nambeet Fm	341	0.22	0.13		0.28				orgchem
Tappers Inlet 1	5536			2563.40	2566.45	nd	Moogana Terr.	Nambeet Fm	387	0.19	0.13		0.34				orgchem
Tappers Inlet 1	5537			2600.00	2603.02	nd	Moogana Terr.	Nambeet Fm	410	0.12	0.13		0.65				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Thangoo 1				869.3	871.4	A2	Broome Platform	Goldwyer Fm		0.42	0.66						BP Rep.
Thangoo 1				959.52	959.52	A2	Broome Platform	Goldwyer Fm	441	1.43	5.88	0.63	2.57	0.20	228.79	24.51	orgchem
Thangoo 1				961.05	961.05	A2	Broome Platform	Goldwyer Fm	443	1.86	7.86	1.03	3.4	0.19	231.18	30.29	orgchem
Thangoo 1				959.2	961.6	A2	Broome Platform	Goldwyer Fm		0.45	0.55						BP Rep.

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	lmax	S1	S2	S3	TOC	PI	HI	OI	where from
Vela 1				340	340	H	Broome Plat/Willara sb	Grant	429	0.01	0.26	0.52	0.67	0.04	38	77	wcr (Analabs)
Vela 1				380	380	H	Broome Plat/Willara sb	Grant	430	0.01	0.12	0.39	0.55	0.08	21	70	wcr (Analabs)
Vela 1				460	460	H	Broome Plat/Willara sb	Grant					0.33				wcr (Analabs)
Vela 1				1756.3	1756.3	B1	Broome Plat/Willara sb	Carribuddy (D)					0.11				wcr (Analabs)
Vela 1				1772	1772	B1	Broome Plat/Willara sb	Nita					0.07				wcr (Analabs)
Vela 1				1852.1	1852.1	A2	Broome Plat/Willara sb	Nita					0.13				wcr (Analabs)
Vela 1				1860	1860	A2	Broome Plat/Willara sb	Goldwyer					0.1				wcr(Amdel)
Vela 1				1867	1867	A2	Broome Plat/Willara sb	Goldwyer					0.23				wcr (Analabs)
Vela 1				1870	1870	A2	Broome Plat/Willara sb	Goldwyer					0.14				wcr(Amdel)
Vela 1				1890	1890	A2	Broome Plat/Willara sb	Goldwyer					0.14				wcr(Amdel)
Vela 1				1900	1900	A2	Broome Plat/Willara sb	Goldwyer					0.14				wcr(Amdel)
Vela 1				1910	1910	A2	Broome Plat/Willara sb	Goldwyer					0.14				wcr(Amdel)

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Wamac 1				1940	1945	K	FitzroyTrough	Jurassic	422	0.65	12.89	6.5	12.7	0.05	101	51	WA Centre Pet Expl
Wamac 1				2050		F	FitzroyTrough	Anderson/Carb	427	0.14	2.37	1.25	2.57	0.06	92	49	WA Centre Pet Expl
Wamac 1				2200	2210	F	FitzroyTrough	Anderson/Carb	424	1.06	13.58	2.9	10.3	0.07	133	29	WA Centre Pet Expl
Wamac 1				2300	2310	F	FitzroyTrough	Anderson/Carb	424	2.35	4.5	1.2	7.7	0.34	58	16	WA Centre Pet Expl

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
West Philydrum 1				400		I	Laurel Downs Terr.	Noonkanbah Fm	436	0.05	0.96	0.42	2.38	0.05	40	17	wcr/orgchem
West Philydrum 1				805		H	Laurel Downs Terr.	Grant Fm (shale)					0.42				wcr/orgchem
West Philydrum 1				978.5		H	Laurel Downs Terr.	Grant Fm (Mudite)					0.32				wcr/orgchem
West Philydrum 1				1020.5		H	Laurel Downs Terr.	Grant Fm					0.17				wcr/orgchem
West Philydrum 1				1042		H	Laurel Downs Terr.	Grant Fm					0.21				wcr/orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
West Terrace 1				1077.5		H	Laurel Downs Terr	Grant Fm					0.34				WCR
West Terrace 1				1078.9		H	Laurel Downs Terr	Grant Fm	422	0.6	37.34	0.44	7.45	0.02	501	5	WCR

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
White Hills 1	63403			105	115	nd	Ryan Shelf	Poole Sandstone					0.43				orgchem
White Hills 1	63404			115	125	nd	Ryan Shelf	Poole Sandstone		0	0	0.08	0.47				orgchem
White Hills 1	63405			125	135	nd	Ryan Shelf	Poole Sandstone		0	0	0.12	0.46				orgchem
White Hills 1	63406			135	145	nd	Ryan Shelf	Poole Sandstone		0	0	0.15	0.45				orgchem
White Hills 1	63407			145	155	nd	Ryan Shelf	Poole Sandstone		0	0	0.17	0.46				orgchem
White Hills 1	63408			155	165	nd	Ryan Shelf	Poole Sandstone		0	0	0.15	0.56				orgchem
White Hills 1	63409			165	175	nd	Ryan Shelf	Poole Sandstone		0	0	0.22	0.48				orgchem
White Hills 1	63410			175	185	nd	Ryan Shelf	Poole Sandstone		0	0	0.19	0.48				orgchem
White Hills 1	63411			185	195	nd	Ryan Shelf	Poole Sandstone		0	0	0.16	0.59				orgchem
White Hills 1	63412			195	205	nd	Ryan Shelf	Grant Fm	439	0	0	0.22	0.5				orgchem
White Hills 1	63413			205	215	nd	Ryan Shelf	Grant Fm					0.29				orgchem
White Hills 1	63414			215	225	nd	Ryan Shelf	Grant Fm					0.19				orgchem
White Hills 1	63415			225	235	nd	Ryan Shelf	Grant Fm					0.17				orgchem
White Hills 1	63416			235	245	nd	Ryan Shelf	Grant Fm					0.33				orgchem
White Hills 1	63417			245	255	nd	Ryan Shelf	Grant Fm					0.15				orgchem
White Hills 1	63418			255	265	nd	Ryan Shelf	Grant Fm					0.22				orgchem
White Hills 1	63419			265	275	nd	Ryan Shelf	Grant Fm					0.3				orgchem
White Hills 1	63420			275	285	nd	Ryan Shelf	Grant Fm					0.15				orgchem
White Hills 1	63421			285	295	nd	Ryan Shelf	Grant Fm					0.16				orgchem
White Hills 1	63422			295	305	nd	Ryan Shelf	Grant Fm					0.41				orgchem
White Hills 1	63423			305	315	nd	Ryan Shelf	Grant Fm					0.4				orgchem
White Hills 1	63424			325	335	nd	Ryan Shelf	Grant Fm					0.36				orgchem
White Hills 1	63425			335	345	nd	Ryan Shelf	Grant Fm					0.35				orgchem
White Hills 1	63426			345	355	nd	Ryan Shelf	Grant Fm					0.35				orgchem
White Hills 1	63427			355	365	nd	Ryan Shelf	Grant Fm					0.27				orgchem
White Hills 1	63428			365	375	nd	Ryan Shelf	Grant Fm					0.35				orgchem
White Hills 1	63429			375	385	nd	Ryan Shelf	Grant Fm					0.37				orgchem
White Hills 1	63430			385	395	nd	Ryan Shelf	Grant Fm					0.38				orgchem
White Hills 1	63431			405	415	nd	Ryan Shelf	Grant Fm					0.41				orgchem
White Hills 1	63432			785	795	nd	Ryan Shelf	Grant Fm					0.18				orgchem
White Hills 1	63433			795	805	nd	Ryan Shelf	Grant Fm					0.13				orgchem
White Hills 1	63434			825	835	nd	Ryan Shelf	Grant Fm					0.34				orgchem
White Hills 1	63435			835	845	nd	Ryan Shelf	Grant Fm		0	0	0.23	0.45				orgchem
White Hills 1	63436			845	855	nd	Ryan Shelf	Grant Fm					0.26				orgchem
White Hills 1	63437			855	865	nd	Ryan Shelf	Grant Fm					0.15				orgchem
White Hills 1	63438			865	875	nd	Ryan Shelf	Grant Fm					0.21				orgchem
White Hills 1	63439			875	885	nd	Ryan Shelf	Grant Fm					0.16				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
White Hills 1	63440			885	895	nd	Ryan Shelf	Grant Fm					0.16				orgchem
White Hills 1	63441			895	905	nd	Ryan Shelf	Grant Fm					0.12				orgchem
White Hills 1	63442			905	915	nd	Ryan Shelf	Grant Fm					0.11				orgchem
White Hills 1	63443			915	925	nd	Ryan Shelf	Grant Fm					0.12				orgchem
White Hills 1	63444			925	935	nd	Ryan Shelf	Grant Fm					0.11				orgchem
White Hills 1	63445			935	945	nd	Ryan Shelf	Grant Fm					0.22				orgchem
White Hills 1	63446			945	955	nd	Ryan Shelf	Grant Fm					0.21				orgchem
White Hills 1	63447			955	965	nd	Ryan Shelf	Grant Fm					0.2				orgchem
White Hills 1	63448			965	975	nd	Ryan Shelf	Grant Fm					0.28				orgchem
White Hills 1	63449			975	985	nd	Ryan Shelf	Grant Fm					0.23				orgchem
White Hills 1	63450			1000	1010	nd	Ryan Shelf	Grant Fm					0.27				orgchem
White Hills 1	63451			1010	1020	nd	Ryan Shelf	Grant Fm					0.36				orgchem
White Hills 1	63452			1020	1030	nd	Ryan Shelf	Grant Fm					0.27				orgchem
White Hills 1	63453			1030	1040	nd	Ryan Shelf	Grant Fm					0.19				orgchem
White Hills 1	63454			1040	1050	nd	Ryan Shelf	Grant Fm					0.17				orgchem
White Hills 1	63455			1050	1060	nd	Ryan Shelf	Grant Fm					0.33				orgchem
White Hills 1	63456			1060	1070	nd	Ryan Shelf	Grant Fm			0	0	0.59				orgchem
White Hills 1	63457			1070	1080	nd	Ryan Shelf	Grant Fm					0.36				orgchem
White Hills 1	63458			1080	1090	nd	Ryan Shelf	Grant Fm					0.27				orgchem
White Hills 1	63459			1090	1100	nd	Ryan Shelf	Anderson Fm					0.25				orgchem
White Hills 1	63460			1100	1110	nd	Ryan Shelf	Anderson Fm					0.17				orgchem
White Hills 1	63461			1105	1105	nd	Ryan Shelf	Anderson Fm					0.43				orgchem
White Hills 1	63462			1110	1120	nd	Ryan Shelf	Anderson Fm					0.33				orgchem
White Hills 1	63463			1120	1130	nd	Ryan Shelf	Anderson Fm					0.4				orgchem
White Hills 1	63464			1130	1140	nd	Ryan Shelf	Anderson Fm					0.35				orgchem
White Hills 1	63465			1140	1150	nd	Ryan Shelf	Anderson Fm			0	0	0.29				orgchem
White Hills 1	63466			1150	1160	nd	Ryan Shelf	Anderson Fm					0.29				orgchem
White Hills 1	63467			1160	1170	nd	Ryan Shelf	Anderson Fm					0.19				orgchem
White Hills 1	63468			1173	1173	nd	Ryan Shelf	Anderson Fm					0.27				orgchem
White Hills 1	63469			1180	1190	nd	Ryan Shelf	Anderson Fm			0	0	0.17				orgchem
White Hills 1	63470			1190	1200	nd	Ryan Shelf	Anderson Fm			0	0	0.13				orgchem
White Hills 1	63471			1200	1210	nd	Ryan Shelf	Anderson Fm					0.27				orgchem
White Hills 1	63472			1210	1220	nd	Ryan Shelf	Anderson Fm					0.23				orgchem
White Hills 1	63473			1220	1230	nd	Ryan Shelf	Anderson Fm					0.36				orgchem
White Hills 1	63474			1230	1240	nd	Ryan Shelf	Anderson Fm					0.3				orgchem
White Hills 1	63475			1239	1239	nd	Ryan Shelf	Anderson Fm					0.29				orgchem
White Hills 1	63476			1240	1250	nd	Ryan Shelf	Anderson Fm	438		0	0.21	0.19	0.63			orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
White Hills 1	63477			1250	1260	nd	Ryan Shelf	Anderson Fm					0.22				orgchem
White Hills 1	63478			1260	1270	nd	Ryan Shelf	Anderson Fm					0.28				orgchem
White Hills 1	63479			1270	1280	nd	Ryan Shelf	Anderson Fm			0	0	0.15	0.52			orgchem
White Hills 1	63480			1280	1290	nd	Ryan Shelf	Anderson Fm	438	0.23	0.47	0.18	0.88				orgchem
White Hills 1	63481			1290	1300	nd	Ryan Shelf	Anderson Fm	437	0.15	0.41	0.17	0.79				orgchem
White Hills 1	63482			1300	1310	nd	Ryan Shelf	Anderson Fm					0.37				orgchem
White Hills 1	63483			1310	1320	nd	Ryan Shelf	Anderson Fm					0.29				orgchem
White Hills 1	63484			1320	1330	nd	Ryan Shelf	Anderson Fm					0.37				orgchem
White Hills 1	63485			1330	1340	nd	Ryan Shelf	Anderson Fm		0	0	0.07	0.5				orgchem
White Hills 1	63486			1340	1350	nd	Ryan Shelf	Anderson Fm	438	0.21	0.32	0.11	0.63				orgchem
White Hills 1	63487			1350	1360	nd	Ryan Shelf	Anderson Fm		0	0	0.13	0.62				orgchem
White Hills 1	63488			1360	1370	nd	Ryan Shelf	Anderson Fm	440	0	0.16	0.06	0.46				orgchem
White Hills 1	63489			1369	1369	nd	Ryan Shelf	Anderson Fm	420	0.15	0.32	0.62	0.62				orgchem
White Hills 1	63490			1370	1380	nd	Ryan Shelf	Anderson Fm	438	0	0.31	0.16	0.79				orgchem
White Hills 1	63491			1380	1390	nd	Ryan Shelf	Anderson Fm	435	0	0.27	0.17	0.72				orgchem
White Hills 1	63492			1390	1400	nd	Ryan Shelf	Anderson Fm		0	0	0.09	0.46				orgchem
White Hills 1	63493			1400	1410	nd	Ryan Shelf	Anderson Fm		0	0	0.13	0.54				orgchem
White Hills 1	63494			1410	1420	nd	Ryan Shelf	Anderson Fm	440	0	0.21	0.23	0.59				orgchem
White Hills 1	63495			1414	1414	nd	Ryan Shelf	Anderson Fm					0.38				orgchem
White Hills 1	63496			1420	1430	nd	Ryan Shelf	Anderson Fm	444	0	0.15	0.15	0.51				orgchem
White Hills 1	63497			1430	1440	nd	Ryan Shelf	Anderson Fm		0	0	0.21	0.45				orgchem
White Hills 1	63498			1440	1450	nd	Ryan Shelf	Anderson Fm		0	0	0.24	0.51				orgchem
White Hills 1	63499			1450	1460	nd	Ryan Shelf	Anderson Fm		0	0	0.21	0.45				orgchem
White Hills 1	63500			1460	1470	nd	Ryan Shelf	Anderson Fm	447	0	0	0.18	0.59				orgchem
White Hills 1	63501			1470	1480	nd	Ryan Shelf	Anderson Fm	442	0	0.3	0.35	0.71				orgchem
White Hills 1	63502			1480	1490	nd	Ryan Shelf	Anderson Fm	443	0	0.15	0.21	0.74				orgchem
White Hills 1	63503			1490	1500	nd	Ryan Shelf	Anderson Fm					0.4				orgchem
White Hills 1	63504			1500	1510	nd	Ryan Shelf	Anderson Fm					0.36				orgchem
White Hills 1	63505			1510	1520	nd	Ryan Shelf	Anderson Fm		0	0	0.3	0.53				orgchem
White Hills 1	63506			1516.4	1516.4	nd	Ryan Shelf	Anderson Fm	433	0.13	0.54	0.83	0.84				orgchem
White Hills 1	63507			1520	1530	nd	Ryan Shelf	Anderson Fm	440	0.1	0.35	0.19	0.53				orgchem
White Hills 1	63508			1530	1540	nd	Ryan Shelf	Anderson Fm					0.43				orgchem
White Hills 1	63509			1540	1550	nd	Ryan Shelf	Anderson Fm		0.1	0.28	0.18	0.47				orgchem
White Hills 1	63510			1550	1560	nd	Ryan Shelf	Anderson Fm	449	0.16	0.48	0.13	0.65				orgchem
White Hills 1	63511			1560	1570	nd	Ryan Shelf	Anderson Fm					0.43				orgchem
White Hills 1	63512			1570	1580	nd	Ryan Shelf	Anderson Fm		0.24	0.45	0.19	0.5				orgchem
White Hills 1	63513			1580	1590	nd	Ryan Shelf	Anderson Fm	448	0.15	0.45	0.16	0.66				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
White Hills 1	63514			1590	1600	nd	Ryan Shelf	Anderson Fm		0.35	0.7	0.12	0.46				orgchem
White Hills 1	63515			1600	1610	nd	Ryan Shelf	Anderson Fm	453	0.22	0.64	0.19	0.84				orgchem
White Hills 1	63516			1610	1620	nd	Ryan Shelf	Anderson Fm	456	0	0.19	0.28	0.7				orgchem
White Hills 1	63517			1620	1630	nd	Ryan Shelf	Anderson Fm	456	0.1	0.15	0.27	0.6				orgchem
White Hills 1	63518			1621.7	1621.7	nd	Ryan Shelf	Anderson Fm	434	0.11	0.25	1.11	0.45				orgchem
White Hills 1	63519			1630	1640	nd	Ryan Shelf	Anderson Fm		0	0.13	0.21	0.55				orgchem
White Hills 1	63520			1640	1650	nd	Ryan Shelf	Anderson Fm		0	0.11	0.18	0.59				orgchem
White Hills 1	63521			1650	1660	nd	Ryan Shelf	Anderson Fm	453	0	0.17	0.2	0.65				orgchem
White Hills 1	63522			1660	1670	nd	Ryan Shelf	Anderson Fm	457	0	0.18	0.21	0.66				orgchem
White Hills 1	63523			1670	1680	nd	Ryan Shelf	Anderson Fm		0	0.1	0.17	0.61				orgchem
White Hills 1	63524			1675.5	1675.5	nd	Ryan Shelf	Anderson Fm	448	0.31	0.89	0.57	1.95				orgchem
White Hills 1	63525			1680	1690	nd	Ryan Shelf	Anderson Fm	456	0	0.15	0.24	0.7				orgchem
White Hills 1	63526			1690	1700	nd	Ryan Shelf	Anderson Fm	459	0	0.16	0.24	0.74				orgchem
White Hills 1	63527			1692.5	1692.5	nd	Ryan Shelf	Anderson Fm	445	0.12	0.27	0.39	0.57				orgchem
White Hills 1	63528			1700	1710	nd	Ryan Shelf	Anderson Fm		0	0.13	0.23	0.65				orgchem
White Hills 1	63529			1710	1720	nd	Ryan Shelf	Anderson Fm		0	0.1	0.23	0.48				orgchem
White Hills 1	63530			1720	1730	nd	Ryan Shelf	Anderson Fm		0	0	0.14	0.47				orgchem
White Hills 1	63531			1730	1740	nd	Ryan Shelf	Anderson Fm		0	0	0.1	0.57				orgchem
White Hills 1	63532			1740	1750	nd	Ryan Shelf	Anderson Fm		0	0	0.08	0.6				orgchem
White Hills 1	63533			1750	1760	nd	Ryan Shelf	Anderson Fm		0	0.11	0.17	0.71				orgchem
White Hills 1	63534			1760	1770	nd	Ryan Shelf	Anderson Fm		0	0	0.09	0.51				orgchem
White Hills 1	63535			1770	1780	nd	Ryan Shelf	Anderson Fm	455	0.12	0.18	0.08	0.64				orgchem
White Hills 1	63536			1773	1773	nd	Ryan Shelf	Anderson Fm		0.12	0.23	0.86	0.62				orgchem
White Hills 1	63537			1780	1790	nd	Ryan Shelf	Anderson Fm	456	0.1	0.18	0.18	0.78				orgchem
White Hills 1	63538			1789.1	1789.1	nd	Ryan Shelf	Anderson Fm					0.41				orgchem
White Hills 1	63539			1790	1800	nd	Ryan Shelf	Anderson Fm	460	0	0.18	0.2	0.78				orgchem
White Hills 1	63540			1800	1810	nd	Ryan Shelf	Anderson Fm	454	0	0.18	0.21	0.64				orgchem
White Hills 1	63541			1810	1820	nd	Ryan Shelf	Anderson Fm					0.44				orgchem
White Hills 1	63542			1820	1830	nd	Ryan Shelf	Anderson Fm		0	0.14	0.18	0.45				orgchem
White Hills 1	63543			1830	1840	nd	Ryan Shelf	Anderson Fm		0.11	0.14	0.27	0.57				orgchem
White Hills 1	63544			1840	1850	nd	Ryan Shelf	Anderson Fm		0	0.18	0.2	0.51				orgchem
White Hills 1	63545			1850	1860	nd	Ryan Shelf	Anderson Fm					0.44				orgchem
White Hills 1	63546			1860	1870	nd	Ryan Shelf	Anderson Fm		0	0.1	0.23	0.52				orgchem
White Hills 1	63547			1860	1860	nd	Ryan Shelf	Anderson Fm	460	0.13	0.3	0.74	0.65				orgchem
White Hills 1	63548			1870	1880	nd	Ryan Shelf	Anderson Fm	456	0	0.19	0.26	0.71				orgchem
White Hills 1	63549			1876.5	1876.5	nd	Ryan Shelf	Anderson Fm	446	0.37	1.05	0.4	1.43				orgchem
White Hills 1	63550			1880	1890	nd	Ryan Shelf	Anderson Fm	456	0.1	0.23	0.25	0.6				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
White Hills 1	63551			1890	1900	nd	Ryan Shelf	Anderson Fm	458	0.1	0.29	0.24	0.72				orgchem
White Hills 1	63552			1900	1910	nd	Ryan Shelf	Anderson Fm	453	0	0.17	0.16	0.61				orgchem
White Hills 1	63553			1910	1920	nd	Ryan Shelf	Anderson Fm		0	0.13	0.22	0.55				orgchem
White Hills 1	63554			1910.4	1910.4	nd	Ryan Shelf	Anderson Fm	469	0.11	0.21	0.91	0.72				orgchem
White Hills 1	63555			1920	1930	nd	Ryan Shelf	Anderson Fm	447	0	0.38	0.16	0.6				orgchem
White Hills 1	63556			1930	1940	nd	Ryan Shelf	Anderson Fm		0	0	0.24	0.52				orgchem
White Hills 1	63557			1938.8	1938.8	nd	Ryan Shelf	Anderson Fm	425	0.12	0.32	0.68	1.06				orgchem
White Hills 1	63558			1950	1960	nd	Ryan Shelf	Anderson Fm		0.18	0.15	0.37	0.67				orgchem
White Hills 1	63559			1958.3	1958.3	nd	Ryan Shelf	Anderson Fm	431	0.31	0.58	1.27	0.98				orgchem
White Hills 1	63560			1960	1970	nd	Ryan Shelf	Anderson Fm		0.19	0.24	0.37	0.83				orgchem
White Hills 1	63561			1970	1980	nd	Ryan Shelf	Anderson Fm	454	0.23	0.39	0.39	0.99				orgchem
White Hills 1	63562			1980	1990	nd	Ryan Shelf	Anderson Fm		0	0.12	0.3	0.65				orgchem
White Hills 1	63563			1990	2000	nd	Ryan Shelf	Anderson Fm	463	0.17	0.42	0.35	1.11				orgchem
White Hills 1	63564			2000	2010	nd	Ryan Shelf	Anderson Fm	460	0.12	0.17	0.37	0.79				orgchem
White Hills 1	63565			2010	2020	nd	Ryan Shelf	Anderson Fm		0.12	0.16	0.2	0.76				orgchem
White Hills 1	63566			2020	2030	nd	Ryan Shelf	Anderson Fm		0	0.19	0.18	0.76				orgchem
White Hills 1	63567			2029.9	2029.9	nd	Ryan Shelf	Anderson Fm	482	0.12	0.35	0.62	0.87				orgchem
White Hills 1	63568			2030	2040	nd	Ryan Shelf	Anderson Fm		0	0.14	0.19	0.68				orgchem
White Hills 1	63569			2040	2050	nd	Ryan Shelf	Anderson Fm		0	0.16	0.33	0.87				orgchem
White Hills 1	63570			2050	2060	nd	Ryan Shelf	Anderson Fm		0	0.13	0.31	0.79				orgchem
White Hills 1	63571			2060	2070	nd	Ryan Shelf	Anderson Fm	465	0.2	0.35	0.45	1.17				orgchem
White Hills 1	63572			2070	2080	nd	Ryan Shelf	Anderson Fm	465	0.28	0.45	0.4	1.28				orgchem
White Hills 1	63573			2080	2090	nd	Ryan Shelf	Anderson Fm	468	0.22	0.42	0.39	1.2				orgchem
White Hills 1	63574			2090	2100	nd	Ryan Shelf	Anderson Fm		0.22	0.33	0.41	0.93				orgchem
White Hills 1	63575			2100	2110	nd	Ryan Shelf	Anderson Fm		0.14	0.21	0.3	0.83				orgchem
White Hills 1	63576			2104.8	2104.8	nd	Ryan Shelf	Anderson Fm	485	0.12	0.24	0.46	0.7				orgchem
White Hills 1	63577			2110	2120	nd	Ryan Shelf	Anderson Fm		0.16	0.21	0.31	0.65				orgchem
White Hills 1	63578			2120	2130	nd	Ryan Shelf	Anderson Fm		0.16	0.25	0.29	0.8				orgchem
White Hills 1	63579			2140	2150	nd	Ryan Shelf	Anderson Fm		0.1	0.16	0.38	0.83				orgchem
White Hills 1	63580			2150	2160	nd	Ryan Shelf	Anderson Fm		0	0.12	0.35	0.89				orgchem
White Hills 1	63581			2160	2170	nd	Ryan Shelf	Anderson Fm		0	0.1	0.32	0.83				orgchem
White Hills 1	63582			2170	2180	nd	Ryan Shelf	Anderson Fm	497	0.1	0.2	0.3	0.51				orgchem
White Hills 1	63583			2180	2190	nd	Ryan Shelf	Anderson Fm		0	0	0.24	0.58				orgchem
White Hills 1	63584			2188	2188	nd	Ryan Shelf	Anderson Fm		0.12	0.18	0.43	0.72				orgchem
White Hills 1	63585			2190	2200	nd	Ryan Shelf	Anderson Fm		0	0	0.21	0.51				orgchem
White Hills 1	63586			2200	2210	nd	Ryan Shelf	Anderson Fm		0	0.19	0.14	0.53				orgchem
White Hills 1	63587			2210	2220	nd	Ryan Shelf	Anderson Fm	497	0	0.18	0.24	0.51				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	\$1	\$2	\$3	TOC	PI	HI	OI	where from
White Hills 1	63588			2220	2230	nd	Ryan Shelf	Laurel Fm		0	0.2	0.13	0.62				orgchem
White Hills 1	63589			2222.5	2222.5	nd	Ryan Shelf	Laurel Fm	489	0.12	0.16	0.26	0.59				orgchem
White Hills 1	63590			2230	2240	nd	Ryan Shelf	Laurel Fm		0	0.22	0.08	0.59				orgchem
White Hills 1	63591			2240	2250	nd	Ryan Shelf	Laurel Fm		0.1	0.21	0.12	0.63				orgchem
White Hills 1	63592			2252.5	2260	nd	Ryan Shelf	Laurel Fm	488	0.13	0.26	0.2	0.81				orgchem
White Hills 1	63593			2262.5	2270	nd	Ryan Shelf	Laurel Fm		0.17	0.29	0.16	1.11				orgchem
White Hills 1	63594			2267.2	2267.2	nd	Ryan Shelf	Laurel Fm	471	0.21	0.29	0.57	1.39				orgchem
White Hills 1	63595			2269.5	2269.5	nd	Ryan Shelf	Laurel Fm	537	0.1	0.21	1	1.21				orgchem
White Hills 1	63596			2272.5	2280	nd	Ryan Shelf	Laurel Fm	494	0.14	0.11	0.23	1.18				orgchem
White Hills 1	63597			2282.5	2290	nd	Ryan Shelf	Laurel Fm	482	0.24	0.4	0.25	1.46				orgchem
White Hills 1	63598			2292.5	2300	nd	Ryan Shelf	Laurel Fm	481	0.14	0.25	0.27	1.09				orgchem
White Hills 1	63599			2299.5	2299.5	nd	Ryan Shelf	Laurel Fm	453	0.1	0.21	1	1.21				orgchem
White Hills 1	63600			2302.5	2310	nd	Ryan Shelf	Laurel Fm		0	0	0.25	0.8				orgchem
White Hills 1	63601			2312.5	2320	nd	Ryan Shelf	Laurel Fm		0	0	0.29	0.54				orgchem
White Hills 1	63602			2317	2317	nd	Ryan Shelf	Laurel Fm	480	0.13	0.24	0.72	1.72				orgchem
White Hills 1	63603			2322.5	2330	nd	Ryan Shelf	Laurel Fm		0	0	0.3	0.83				orgchem
White Hills 1	63604			2332	2332	nd	Ryan Shelf	Laurel Fm	446	0.1	0.19	0.82	1.21				orgchem
White Hills 1	63605			2332.5	2340	nd	Ryan Shelf	Laurel Fm		0	0	0.38	1				orgchem
White Hills 1	63606			2338.4	2338.4	nd	Ryan Shelf	Laurel Fm		0.15	0.27	1.21	1.49				orgchem
White Hills 1	63607			2342.5	2350	nd	Ryan Shelf	Laurel Fm	392	0.14	0.36	0.73	1.08				orgchem
White Hills 1	63608			2342.5	2342.5	nd	Ryan Shelf	Laurel Fm	532	0	0.1	0.24	1.41				orgchem
White Hills 1	63609			2352.5	2360	nd	Ryan Shelf	Laurel Fm		0	0	0.31	1.2				orgchem
White Hills 1	63610			2362.5	2370	nd	Ryan Shelf	Laurel Fm		0	0	0.15	1.24				orgchem
White Hills 1	63611			2372.5	2380	nd	Ryan Shelf	Laurel Fm		0	0	0.3	1.12				orgchem
White Hills 1	63612			2382.5	2390	nd	Ryan Shelf	Laurel Fm		0	0	0.16	1.15				orgchem
White Hills 1	63613			2392.5	2400	nd	Ryan Shelf	Laurel Fm		0	0	0.32	1.04				orgchem
White Hills 1	63614			2402.5	2410	nd	Ryan Shelf	Laurel Fm		0	0	0.11	0.89				orgchem
White Hills 1	63615			2412.5	2420	nd	Ryan Shelf	Laurel Fm		0	0	0.21	0.81				orgchem
White Hills 1	63616			2422.5	2430	nd	Ryan Shelf	Laurel Fm		0	0	0.15	0.76				orgchem
White Hills 1	63617			2432.5	2440	nd	Ryan Shelf	Laurel Fm		0	0	0.2	0.8				orgchem
White Hills 1	63618			2439.8	2439.8	nd	Ryan Shelf	Laurel Fm		0.12	0.27	0.79	1.77				orgchem
White Hills 1	63619			2442.5	2450	nd	Ryan Shelf	Laurel Fm		0	0	0.15	0.72				orgchem
White Hills 1	63620			2452.5	2460	nd	Ryan Shelf	Laurel Fm		0	0	0.25	0.64				orgchem
White Hills 1	63621			2462.5	2470	nd	Ryan Shelf	Laurel Fm		0	0	0.18	0.69				orgchem
White Hills 1	63622			2472.5	2480	nd	Ryan Shelf	Laurel Fm		0	0	0.29	0.63				orgchem
White Hills 1	63623			2482.5	2490	nd	Ryan Shelf	Laurel Fm		0	0	0.18	0.58				orgchem
White Hills 1	63624			2492.5	2500	nd	Ryan Shelf	Laurel Fm		0	0	0.28	0.7				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
White Hills 1	63625			2500	2510	nd	Ryan Shelf	Laurel Fm		0	0.14	0.27	0.8				orgchem
White Hills 1	63626			2508	2508	nd	Ryan Shelf	Laurel Fm		0	0.14	1.05	0.62				orgchem
White Hills 1	63627			2510	2520	nd	Ryan Shelf	Laurel Fm		0	0.13	0.34	0.83				orgchem
White Hills 1	63628			2520	2520	nd	Ryan Shelf	Laurel Fm		0	0.14	0.3	0.55				orgchem
White Hills 1	63629			2520	2530	nd	Ryan Shelf	Laurel Fm		0	0.12	0.32	0.74				orgchem
White Hills 1	63630			2530	2540	nd	Ryan Shelf	Laurel Fm		0	0.11	0.25	0.69				orgchem
White Hills 1	63631			2540	2550	nd	Ryan Shelf	Laurel Fm		0	0.13	0.33	0.82				orgchem
White Hills 1	63632			2546	2546	nd	Ryan Shelf	Laurel Fm		0.12	0.18	1.49	0.81				orgchem
White Hills 1	63633			2550	2560	nd	Ryan Shelf	Laurel Fm		0	0.14	0.34	0.82				orgchem
White Hills 1	63634			2560	2570	nd	Ryan Shelf	Laurel Fm		0	0.12	0.31	0.69				orgchem
White Hills 1	63635			2561	2561	nd	Ryan Shelf	Laurel Fm		0	0.15	0.53	0.48				orgchem
White Hills 1	63636			2570	2580	nd	Ryan Shelf	Laurel Fm		0	0.13	0.43	0.95				orgchem
White Hills 1	63637			2580	2590	nd	Ryan Shelf	Laurel Fm		0	0.11	0.42	0.76				orgchem
White Hills 1	63638			2590	2600	nd	Ryan Shelf	Laurel Fm		0	0.1	0.32	0.98				orgchem
White Hills 1	63639			2600	2610	nd	Ryan Shelf	Laurel Fm		0	0.12	0.33	0.98				orgchem
White Hills 1	63640			2601.5	2601.5	nd	Ryan Shelf	Laurel Fm		0	0.13	0.99	0.64				orgchem
White Hills 1	63641			2604	2604	nd	Ryan Shelf	Laurel Fm		0	0.17	0.94	0.7				orgchem
White Hills 1	63642			2610	2620	nd	Ryan Shelf	Laurel Fm		0	0.11	0.24	1				orgchem
White Hills 1	63643			2618.8	2618.8	nd	Ryan Shelf	Laurel Fm		0	0.15	0.55	0.54				orgchem
White Hills 1	63644			2620	2630	nd	Ryan Shelf	Laurel Fm		0	0.1	0.29	0.94				orgchem
White Hills 1	63645			2630	2640	nd	Ryan Shelf	Laurel Fm		0	0.1	0.39	0.93				orgchem
White Hills 1	63646			2640	2650	nd	Ryan Shelf	Laurel Fm		0	0.12	0.43	0.94				orgchem
White Hills 1	63647			2650	2660	nd	Ryan Shelf	Laurel Fm		0	0.1	0.45	0.92				orgchem
White Hills 1	63648			2651.3	2651.3	nd	Ryan Shelf	Laurel Fm		0	0.12	1.37	0.47				orgchem
White Hills 1	63649			2660	2670	nd	Ryan Shelf	Laurel Fm		0	0.1	0.49	1				orgchem
White Hills 1	63650			2665.3	2665.3	nd	Ryan Shelf	Laurel Fm		0	0.23	0.97	0.92				orgchem
White Hills 1	63651			2670	2680	nd	Ryan Shelf	Laurel Fm		0	0.1	0.43	0.99				orgchem
White Hills 1	63652			2680	2690	nd	Ryan Shelf	Laurel Fm		0	0	0.34	0.69				orgchem
White Hills 1	63653			2690	2700	nd	Ryan Shelf	Laurel Fm		0	0	0.33	0.88				orgchem
White Hills 1	63654			2700	2710	nd	Ryan Shelf	Laurel Fm		0	0	0.75	0.92				orgchem
White Hills 1	63655			2710	2720	nd	Ryan Shelf	Laurel Fm	435	0	0.2	0.94	0.73				orgchem
White Hills 1	63656			2720	2730	nd	Ryan Shelf	Laurel Fm	415	0.11	0.24	1.19	0.76				orgchem
White Hills 1	63657			2730	2740	nd	Ryan Shelf	Laurel Fm		0	0.11	1.13	0.85				orgchem
White Hills 1	63658			2740	2750	nd	Ryan Shelf	Laurel Fm		0	0	0.64	2.37				orgchem
White Hills 1	63659			2750	2760	nd	Ryan Shelf	Laurel Fm		0	0.11	0.77	0.62				orgchem
White Hills 1	63660			2760	2770	nd	Ryan Shelf	Laurel Fm		0	0	1.56	0.91				orgchem
White Hills 1	63661			2770	2780	nd	Ryan Shelf	Laurel Fm		0	0.2	1	1.08				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
White Hills 1	63662			2800	2810	nd	Ryan Shelf	Luluigui		0	0	0.61	0.99				orgchem
White Hills 1	63663			2820	2830	nd	Ryan Shelf	Luluigui		0	0	0.89	1.25				orgchem
White Hills 1	63664			2830	2840	nd	Ryan Shelf	Luluigui		0	0.12	0.44	0.7				orgchem
White Hills 1	63665			2850	2860	nd	Ryan Shelf	Luluigui		0	0.1	0.86	0.77				orgchem
White Hills 1	63666			2890	2900	nd	Ryan Shelf	Luluigui		0	0	0.36	0.58				orgchem
White Hills 1	63667			2900	2910	nd	Ryan Shelf	Luluigui		0	0.12	0.34	0.46				orgchem
White Hills 1	63668			2910	2920	nd	Ryan Shelf	Luluigui		0	0	1.07	0.74				orgchem
White Hills 1	63669			2930	2940	nd	Ryan Shelf	Luluigui		0	0	0.84	0.65				orgchem
White Hills 1	63670			2940	2950	nd	Ryan Shelf	Luluigui		0	0	2.27	1.13				orgchem
White Hills 1	63671			2950	2960	nd	Ryan Shelf	Luluigui		0	0	0.91	0.95				orgchem
White Hills 1	63672			2960	2970	nd	Ryan Shelf	Luluigui		0	0	0.71	0.92				orgchem
White Hills 1	63673			2970	2980	nd	Ryan Shelf	Luluigui		0	0	0.55	0.59				orgchem
White Hills 1	63674			2980	2990	nd	Ryan Shelf	Luluigui		0	0.15	0.54	0.71				orgchem
White Hills 1	63675			2990	3000	nd	Ryan Shelf	Luluigui		0	0	0.46	0.53				orgchem
White Hills 1	63676			3030	3040	nd	Ryan Shelf	Luluigui		0	0	0.46	0.61				orgchem
White Hills 1	63677			3040	3050	nd	Ryan Shelf	Luluigui					0.38				orgchem
White Hills 1	63678			3050	3060	nd	Ryan Shelf	Luluigui					0.31				orgchem
White Hills 1	63679			3090	3100	nd	Ryan Shelf	Luluigui					0.41				orgchem
White Hills 1	63680			3100	3110	nd	Ryan Shelf	Luluigui		0	0.21	0.32	0.56				orgchem
White Hills 1	63681			3110	3120	nd	Ryan Shelf	Luluigui					0.32				orgchem
White Hills 1	63682			3130	3140	nd	Ryan Shelf	Luluigui		0	0	0.54	0.57				orgchem
White Hills 1	63683			3140	3150	nd	Ryan Shelf	Luluigui		0	0	0.32	0.61				orgchem
White Hills 1	63684			3150	3160	nd	Ryan Shelf	Luluigui					0.3				orgchem
White Hills 1	63685			3180	3190	nd	Ryan Shelf	Luluigui					0.44				orgchem
White Hills 1	63686			3190	3200	nd	Ryan Shelf	Luluigui					0.42				orgchem
White Hills 1	63687			3200	3210	nd	Ryan Shelf	Luluigui					0.35				orgchem
White Hills 1	63688			3290	3300	nd	Ryan Shelf	Luluigui		0	0	0.83	0.48				orgchem
White Hills 1	63689			3370	3380	nd	Ryan Shelf	Luluigui					0.44				orgchem
White Hills 1	63690			3380	3390	nd	Ryan Shelf	Luluigui		0	0	0.37	0.51				orgchem
White Hills 1	63691			3410	3420	nd	Ryan Shelf	Luluigui					0.43				orgchem
White Hills 1	63692			3420	3430	nd	Ryan Shelf	Luluigui					0.24				orgchem
White Hills 1	63693			3450	3460	nd	Ryan Shelf	Luluigui		0	0	0.47	0.53				orgchem
White Hills 1	63694			3460	3470	nd	Ryan Shelf	Luluigui					0.37				orgchem
White Hills 1	63695			3470	3480	nd	Ryan Shelf	Luluigui		0	0.1	0.29	0.6				orgchem
White Hills 1	63696			3490	3500	nd	Ryan Shelf	Luluigui		0	0.16	0.79	0.47				orgchem
White Hills 1	63697			3500	3510	nd	Ryan Shelf	Luluigui	455	0	0.17	0.9	0.53				orgchem
White Hills 1	63698			3510	3520	nd	Ryan Shelf	Luluigui		0	0.11	0.6	0.57				orgchem

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White Hills 1	63699			3520	3530	nd	Ryan Shelf	Luluigui					0.24				orgchem
White Hills 1	63700			3530	3540	nd	Ryan Shelf	Luluigui					0.31				orgchem
White Hills 1	63701			3540	3550	nd	Ryan Shelf	Luluigui					0.25				orgchem
White Hills 1	63702			3560	3570	nd	Ryan Shelf	Luluigui					0.34				orgchem
White Hills 1	63703			3570	3580	nd	Ryan Shelf	Luluigui					0.3				orgchem
White Hills 1	63704			3600	3610	nd	Ryan Shelf	Luluigui					0.33				orgchem
White Hills 1	63705			3610	3620	nd	Ryan Shelf	Luluigui					0.24				orgchem
White Hills 1	63706			3640	3650	nd	Ryan Shelf	Luluigui					0.3				orgchem
White Hills 1	63707			3710	3720	nd	Ryan Shelf	Luluigui					0.28				orgchem
White Hills 1	63708			3720	3730	nd	Ryan Shelf	Luluigui					0.29				orgchem
White Hills 1	63709			3730	3740	nd	Ryan Shelf	Luluigui		0	0	0.38	0.49				orgchem
White Hills 1	63710			3740	3750	nd	Ryan Shelf	Luluigui					0.35				orgchem
White Hills 1	63711			3790	3800	nd	Ryan Shelf	Luluigui					0.28				orgchem
White Hills 1	63712			3800	3810	nd	Ryan Shelf	Luluigui					0.32				orgchem
White Hills 1	63713			3820	3830	nd	Ryan Shelf	Luluigui					0.26				orgchem
White Hills 1	63714			3830	3840	nd	Ryan Shelf	Luluigui					0.37				orgchem
White Hills 1	63715			3840	3850	nd	Ryan Shelf	Luluigui					0.3				orgchem
White Hills 1	63716			3850	3860	nd	Ryan Shelf	Luluigui					0.35				orgchem
White Hills 1	63717			3860	3870	nd	Ryan Shelf	Luluigui					0.36				orgchem
White Hills 1	63718			3880	3890	nd	Ryan Shelf	Luluigui					0.37				orgchem
White Hills 1	63719			3890	3900	nd	Ryan Shelf	Luluigui					0.32				orgchem
White Hills 1	63720			3900	3910	nd	Ryan Shelf	Luluigui					0.34				orgchem
White Hills 1	63721			3920	3930	nd	Ryan Shelf	Luluigui		0	0	0.67	0.54				orgchem
White Hills 1	63722			3930	3940	nd	Ryan Shelf	Luluigui		0	0	0.52	0.46				orgchem
White Hills 1	63723			3940	3950	nd	Ryan Shelf	Luluigui					0.4				orgchem
White Hills 1	63724			3950	3960	nd	Ryan Shelf	Luluigui					0.32				orgchem
White Hills 1	63725			3960	3970	nd	Ryan Shelf	Luluigui					0.4				orgchem
White Hills 1	63726			3970	3980	nd	Ryan Shelf	Luluigui		0	0	0.25	0.54				orgchem
White Hills 1	63727			3980	3990	nd	Ryan Shelf	Luluigui		0	0.11	0.4	0.6				orgchem
White Hills 1	63728			3990	4000	nd	Ryan Shelf	Luluigui		0	0	0.37	0.45				orgchem
White Hills 1	63729			4000	4010	nd	Ryan Shelf	Luluigui					0.43				orgchem
White Hills 1	63730			4010	4020	nd	Ryan Shelf	Luluigui		0	0.1	0.39	0.64				orgchem
White Hills 1	63731			4020	4030	nd	Ryan Shelf	Luluigui		0	0	0.5	0.5				orgchem
White Hills 1	63732			4030	4040	nd	Ryan Shelf	Luluigui		0	0	0.58	0.47				orgchem
White Hills 1	63733			4040	4050	nd	Ryan Shelf	Luluigui		0	0.1	0.21	0.53				orgchem
White Hills 1	63734			4050	4060	nd	Ryan Shelf	Luluigui					0.42				orgchem
White Hills 1	63735			4060	4070	nd	Ryan Shelf	Luluigui					0.44				orgchem

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White Hills 1	63736			4070	4080	nd	Ryan Shelf	Luluigui					0.35				orgchem
White Hills 1	63737			4080	4090	nd	Ryan Shelf	Luluigui					0.41				orgchem
White Hills 1	63738			4090	4100	nd	Ryan Shelf	Luluigui		0	0	0.21	0.45				orgchem
White Hills 1	63739			4100	4110	nd	Ryan Shelf	Luluigui		0	0	0.3	0.52				orgchem
White Hills 1	63740			4110	4120	nd	Ryan Shelf	Luluigui		0	0	0.27	0.49				orgchem
White Hills 1	63741			4120	4130	nd	Ryan Shelf	Luluigui		0	0	0.35	0.62				orgchem
White Hills 1	63742			4130	4140	nd	Ryan Shelf	Luluigui		0	0	0.27	0.47				orgchem
White Hills 1	63743			4140	4150	nd	Ryan Shelf	Luluigui		0	0	0.34	0.84				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Willara 1		2100	2160	640.08		H	Willara s bas.	Grant/Perm	421	0.03	0.1	0.45	0.5	0.23	20	90	WA C P E
Willara 1		2310	2370	704.09		H	Willara s bas.	Grant/Perm	413	0.06	0.11	0.36	0.37	0.35	30	97	WA C P E
Willara 1		2910	2970	886.97		H	Willara s bas.	Grant/Perm	432	6.6	76.22	25.18	18.8	0.08	405	134	WA C P E
Willara 1		3390	3450	1033.27		H	Willara s bas.	Grant/Perm	410	0.12	0.13	0.51	0.47	0.48	28	109	WA C P E
Willara 1		3860	3880	1176.53		H	Willara s bas.	Grant/Perm	418	0.1	0.1	1.01	0.51	0.50	20	198	WA C P E
Willara 1	30075			1742.20	1742.20	B1	Willara s bas.	Carribuddy Fm					0.03				orgchem
Willara 1		6150		1874.52		A2	Willara s bas.	Goldwyer Shale					0.22		0	0	wcr/amdel
Willara 1	42069			1880.60	1880.60	A2	Willara s bas.	Goldwyer Shale					0.22				orgchem
Willara 1	63780			1880.60	1880.90	A2	Willara s bas.	Goldwyer Shale									orgchem
Willara 1	63784			1880.60	1883.70	A2	Willara s bas.	Goldwyer Shale		0.7	0.3		0.12	0.70	250		orgchem
Willara 1	63781			1881.20	1881.20	A2	Willara s bas.	Goldwyer Shale		0.1	0.1		0.1	0.50	100		orgchem
Willara 1	5543			1881.22	1881.22	A2	Willara s bas.	Goldwyer Shale	429	0.09	0.2	0.05	0.23	0.31	87	22	orgchem
Willara 1	63782			1881.80	1881.80	A2	Willara s bas.	Goldwyer Shale		0.2	0.8		0.1	0.20	800		orgchem
Willara 1	63783			1883.10	1883.10	A2	Willara s bas.	Goldwyer Shale		0.2	0.1		0.2	0.67	50		orgchem
Willara 1		6190		1886.71		A2	Willara s bas.	Goldwyer Shale	430	0.71	0.86	1.61	0.46	0.45	187	350	wcr/amdel
Willara 1	63785			1895.80	1898.90	A2	Willara s bas.	Goldwyer Shale		1.3	0.6		0.36	0.68	167		orgchem
Willara 1		6220		1895.86		A2	Willara s bas.	Goldwyer Shale	389	0.55	0.56	1.33	0.36	0.50	156	369	wcr/amdel
Willara 1		6250		1905.00		A2	Willara s bas.	Goldwyer Shale					0.24		0	0	wcr/amdel
Willara 1	63786			1911.10	1914.10	A2	Willara s bas.	Goldwyer Shale		0.3	0.3		0.23	0.50	130		orgchem
Willara 1		6280		1914.14		A2	Willara s bas.	Goldwyer Shale					0.18		0	0	wcr/amdel
Willara 1		6310		1923.29		A2	Willara s bas.	Goldwyer Shale					0.15		0	0	wcr/amdel
Willara 1	63787			1926.30	1929.40	A2	Willara s bas.	Goldwyer Shale		0.3	0.1		0.14	0.75	71		orgchem
Willara 1		6340		1932.43		A2	Willara s bas.	Goldwyer Shale	427	0.05	0.37	1.21	0.45	0.12	82	269	wcr/amdel
Willara 1		6370		1941.58		A2	Willara s bas.	Goldwyer Shale	430	0.11	1.01	1.15	0.73	0.10	138	158	wcr/amdel
Willara 1	63788			1941.60	1944.60	A2	Willara s bas.	Goldwyer Shale		0.2	0.1		0.13	0.67	77		orgchem
Willara 1		6400		1950.72		A2	Willara s bas.	Goldwyer Shale					0.26		0	0	wcr/amdel
Willara 1	5547			1953.80	1956.80	A2	Willara s bas.	Goldwyer Shale	231				0.15				orgchem
Willara 1	63789			1956.80	1959.90	A2	Willara s bas.	Goldwyer Shale		0.3			0.27				orgchem
Willara 1		6430		1959.86		A2	Willara s bas.	Goldwyer Shale					0.19		0	0	wcr/amdel
Willara 1	5548			1966.00	1969.00	A2	Willara s bas.	Goldwyer Shale	382	0.02	0.03		0.14	0.40	21		orgchem
Willara 1		6460		1969.01		A2	Willara s bas.	Goldwyer Shale					0.23		0	0	wcr/amdel
Willara 1	63790			1972.00	1975.10	A2	Willara s bas.	Goldwyer Shale		0.1			0.16				orgchem
Willara 1		6490		1978.15		A2	Willara s bas.	Goldwyer Shale					0.2		0	0	wcr/amdel
Willara 1	5549			1981.20	1984.27	A2	Willara s bas.	Goldwyer Shale	359	0.01	0.04		0.19	0.20	21		orgchem
Willara 1		6520		1987.30		A2	Willara s bas.	Goldwyer Shale					0.2		0	0	wcr/amdel
Willara 1	63791			1987.30	1990.30	A2	Willara s bas.	Goldwyer Shale		0.1			0.2				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Willara 1		6550		1996.44		A2	Willara s bas.	Goldwyer Shale					0.24		0	0	wcr/amdel
Willara 1	5550			1999.50	2002.56	A2	Willara s bas.	Goldwyer Shale	439	0.02	0.07	0.02	0.14	0.22	50	14	orgchem
Willara 1		6580		2005.58		A2	Willara s bas.	Goldwyer Shale					0.21		0	0	wcr/amdel
Willara 1		6610		2014.73		A2	Willara s bas.	Goldwyer Shale					0.25		0	0	wcr/amdel
Willara 1	5551			2014.80	2017.80	A2	Willara s bas.	Goldwyer Shale	408	0.01	0.05		0.16	0.17	31		orgchem
Willara 1		6640		2023.87		A2	Willara s bas.	Goldwyer Shale					0.2		0	0	wcr/amdel
Willara 1	5552			2026.90	2029.99	A2	Willara s bas.	Goldwyer Shale	438	0.02	0.07		0.13	0.22	54		orgchem
Willara 1		6670		2033.02		A2	Willara s bas.	Goldwyer Shale					0.2		0	0	wcr/amdel
Willara 1		6700		2042.16		A2	Willara s bas.	Goldwyer Shale					0.19		0	0	wcr/amdel
Willara 1	63792			2042.20	2045.20	A2	Willara s bas.	Goldwyer Shale		0.2			0.2				orgchem
Willara 1		6730		2051.30		A2	Willara s bas.	Goldwyer Shale					0.24		0	0	wcr/amdel
Willara 1		6760		2060.45		A2	Willara s bas.	Goldwyer Shale					0.25		0	0	wcr/amdel
Willara 1		6790		2069.59		A2	Willara s bas.	Goldwyer Shale					0.26		0	0	wcr/amdel
Willara 1	63793			2072.60	2075.70	A2	Willara s bas.	Goldwyer Shale		0.4	0.1		0.17	0.80	59		orgchem
Willara 1		6820		2078.74		A2	Willara s bas.	Goldwyer Shale					0.23		0	0	wcr/amdel
Willara 1	63794			2082.70	2082.70	A2	Willara s bas.	Goldwyer Shale		0.3	0.3		0.2	0.50	150		orgchem
Willara 1	63795			2083.30	2083.30	A2	Willara s bas.	Goldwyer Shale		0.2	0.3		0.11	0.40	273		orgchem
Willara 1	63796			2084.50	2084.50	A2	Willara s bas.	Goldwyer Shale		0.3	0.3		0.24	0.50	125		orgchem
Willara 1	63797			2085.10	2085.10	A2	Willara s bas.	Goldwyer Shale		0.2	0.3		0.1	0.40	300		orgchem
Willara 1	63798			2085.70	2085.70	A2	Willara s bas.	Goldwyer Shale		0.4	0.2		0.3	0.67	67		orgchem
Willara 1	30072			2085.70	2085.70	A2	Willara s bas.	Goldwyer Shale					0.03				orgchem
Willara 1	63799			2086.40	2086.40	A2	Willara s bas.	Goldwyer Shale		0.2	0.1		0.02	0.67	500		orgchem
Willara 1		6850		2087.88		A2	Willara s bas.	Goldwyer Shale					0.22		0	0	wcr/amdel
Willara 1		6880		2097.02		A2	Willara s bas.	Goldwyer Shale					0.26		0	0	wcr/amdel
Willara 1	63800			2103.10	2106.20	A2	Willara s bas.	Goldwyer Shale		0.3	0.1		0.2	0.75	50		orgchem
Willara 1		6910		2106.17		A2	Willara s bas.	Goldwyer Shale					0.22		0	0	wcr/amdel
Willara 1		6940		2115.31		A2	Willara s bas.	Goldwyer Shale					0.27		0	0	wcr/amdel
Willara 1		6970		2124.46		A2	Willara s bas.	Goldwyer Shale					0.25		0	0	wcr/amdel
Willara 1	63801			2133.60	2186.60	A2	Willara s bas.	Goldwyer Shale		0.5	0.2		0.2	0.71	100		orgchem
Willara 1		7000		2133.60		A2	Willara s bas.	Goldwyer Shale					0.21		0	0	wcr/amdel
Willara 1		7030		2142.74		A2	Willara s bas.	Goldwyer Shale	440	3.2	0.07	2.23	0.32	0.98	22	697	wcr/amdel
Willara 1		7060		2151.89		A2	Willara s bas.	Goldwyer Shale					0.22		0	0	wcr/amdel
Willara 1		7090		2161.03		A2	Willara s bas.	Goldwyer Shale					0.25		0	0	wcr/amdel
Willara 1	63802			2164.10	2167.10	A2	Willara s bas.	Goldwyer Shale		0.4	0.2		0.2	0.67	100		orgchem
Willara 1		7120		2170.18		A2	Willara s bas.	Goldwyer Shale					0.26		0	0	wcr/amdel
Willara 1		7150		2179.32		A2	Willara s bas.	Goldwyer Shale					0.24		0	0	wcr/amdel

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Willara 1		7180		2188.46		A2	Willara s bas.	Goldwyer Shale	274	0.04	0.06	0.33	0.37	0.40	16	89	wcr/amdel
Willara 1	63803			2194.60	2197.60	A2	Willara s bas.	Goldwyer Shale		0.5	0.2		0.3	0.71	67		orgchem
Willara 1		7210		2197.61		A2	Willara s bas.	Goldwyer Shale	274	0.05	0.1	0.42	0.47	0.33	21	89	wcr/amdel
Willara 1		7240		2206.75		A2	Willara s bas.	Goldwyer Shale	274	0.4	0.22	0.46	0.4	0.65	55	115	wcr/amdel
Willara 1		7270		2215.90		A2	Willara s bas.	Goldwyer Shale	305	0.56	0.3	0.52	0.31	0.65	97	168	wcr/amdel
Willara 1	63804			2225.00	2228.10	A2	Willara s bas.	Goldwyer Shale		0.3	0.2		0.2	0.60	100		orgchem
Willara 1		7300		2225.04		A2	Willara s bas.	Goldwyer Shale	236	0.19	0.07	0.52	0.55	0.73	13	95	wcr/amdel
Willara 1		7330		2234.18		A2	Willara s bas.	Goldwyer Shale	246	0.05	0.03	0.48	0.44	0.63	7	109	wcr/amdel
Willara 1		7360		2243.33		A2	Willara s bas.	Goldwyer Shale					0.28		0	0	wcr/amdel
Willara 1		7390		2252.47		A2	Willara s bas.	Goldwyer Shale					0.24		0	0	wcr/amdel
Willara 1	63805			2255.50	2258.60	A2	Willara s bas.	Goldwyer Shale		0.2	0.1		0.2	0.67	50		orgchem
Willara 1		7420		2261.62		A2	Willara s bas.	Goldwyer Shale					0.27		0	0	wcr/amdel
Willara 1	63806			2263.70	2263.70	A2	Willara s bas.	Goldwyer Shale		0.1	0.1		0.6	0.50	17		orgchem
Willara 1	63807			2264.40	2264.40	A2	Willara s bas.	Goldwyer Shale		0.2	0.1		0.11	0.67	91		orgchem
Willara 1		7430		2264.66		A2	Willara s bas.	Goldwyer Shale					0.27		0	0	wcr/amdel
Willara 1	42070			2264.90	2264.90	A2	Willara s bas.	Goldwyer Shale					0.38				orgchem
Willara 1		7460		2273.81		A2	Willara s bas.	Goldwyer Shale	253	0.09	0.17	1.03	0.31	0.35	55	332	wcr/amdel
Willara 1		7490		2282.95		A2	Willara s bas.	Goldwyer Shale	250	0.14	0.18	0.73	0.31	0.44	58	235	wcr/amdel
Willara 1	63808			2286.00	2289.00	A2	Willara s bas.	Goldwyer Shale		0.4	0.3		0.1	0.57	300		orgchem
Willara 1		7520		2292.10		A2	Willara s bas.	Goldwyer Shale	274	0.2	0.17	1.44	0.35	0.54	49	411	wcr/amdel
Willara 1		7560		2304.29		A2	Willara s bas.	Goldwyer Shale					0.29		0	0	wcr/amdel
Willara 1		7590		2313.43		A2	Willara s bas.	Goldwyer Shale	225	0.15	0.02	1.99	0.37	0.88	5	538	wcr/amdel
Willara 1	63809			2316.50	2319.50	A2	Willara s bas.	Goldwyer Shale		0.4	0.5		0.3	0.44	167		orgchem
Willara 1		7620		2322.58		A2	Willara s bas.	Goldwyer Shale	305	0.11	0.03	0.91	0.35	0.79	9	260	wcr/amdel
Willara 1		7650		2331.72		A2	Willara s bas.	Goldwyer Shale	181	0.04	0	0.3	0.31	1.00	0	97	wcr/amdel
Willara 1		7680		2340.86		A2	Willara s bas.	Goldwyer Shale					0.22		0	0	wcr/amdel
Willara 1	63810			2347.00	2350.00	A2	Willara s bas.	Goldwyer Shale		0.8	0.3		0.2	0.73	150		orgchem
Willara 1		7710		2350.01		A2	Willara s bas.	Goldwyer Shale	180	0.14	0	0.69	0.32	1.00	0	216	wcr/amdel
Willara 1		7770		2368.30		A2	Willara s bas.	Goldwyer Shale					0.28		0	0	wcr/amdel
Willara 1	63814			2374.80	2378.40	A2	Willara s bas.	Goldwyer Shale		1	1		0.4	0.50	250		orgchem
Willara 1	63811			2376.80	2376.80	A2	Willara s bas.	Goldwyer Shale		0.2			0.1				orgchem
Willara 1	42071			2376.80	2376.80	A2	Willara s bas.	Goldwyer Shale					0.26				orgchem
Willara 1	63812			2377.40	2377.40	A2	Willara s bas.	Goldwyer Shale		0.1			0.06				orgchem
Willara 1		7800		2377.44		A2	Willara s bas.	Goldwyer Shale	220	0.08	0.02	0.54	0.35	0.80	6	154	wcr/amdel
Willara 1	63813			2378.00	2378.00	A2	Willara s bas.	Goldwyer Shale		0.2			0.08				orgchem
Willara 1		7830		2386.58		A2	Willara s bas.	Goldwyer Shale					0.23		0	0	wcr/amdel

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Willara 1		7860		2395.73		A2	Willara s bas.	Goldwyer Shale					0.28		0	0	wcr/amdel
Willara 1		7890		2404.87		A2	Willara s bas.	Goldwyer Shale					0.27		0	0	wcr/amdel
Willara 1	63815			2407.90	2411.00	A2	Willara s bas.	Goldwyer Shale		0.3	0.2		0.2	0.60	100		orgchem
Willara 1		7920		2414.02		A2	Willara s bas.	Goldwyer Shale					0.24		0	0	wcr/amdel
Willara 1		7950		2423.16		A2	Willara s bas.	Goldwyer Shale					0.24		0	0	wcr/amdel
Willara 1		7980		2432.30		A2	Willara s bas.	Goldwyer Shale					0.29		0	0	wcr/amdel
Willara 1	63816			2438.40	2444.50	A2	Willara s bas.	Goldwyer Shale		0.3	0.1		0.3	0.75	33		orgchem
Willara 1		8040		2450.59		A2	Willara s bas.	Goldwyer Shale					0.25		0	0	wcr/amdel
Willara 1		8070		2459.74		A2	Willara s bas.	Goldwyer Shale	274	0.06	0.06	0.86	0.3	0.50	20	287	wcr/amdel
Willara 1	63817			2468.90	2475.00	A2	Willara s bas.	Goldwyer Shale		0.3	0.3		0.41	0.50	73		orgchem
Willara 1		8130		2478.02		A2	Willara s bas.	Goldwyer Shale					0.26		0	0	wcr/amdel
Willara 1		8190		2496.31		A2	Willara s bas.	Goldwyer Shale					0.27		0	0	wcr/amdel
Willara 1	63818			2499.40	2505.50	A2	Willara s bas.	Goldwyer Shale		0.2	0.1		0.1	0.67	100		orgchem
Willara 1		8220		2505.46		A2	Willara s bas.	Goldwyer Shale					0.23		0	0	wcr/amdel
Willara 1		8250		2514.60		A2	Willara s bas.	Goldwyer Shale					0.27		0	0	wcr/amdel
Willara 1		8280		2523.74		A2	Willara s bas.	Goldwyer Shale	297	0.17	0.19	0.49	0.31	0.47	61	158	wcr/amdel
Willara 1	63819			2529.80	2535.90	A2	Willara s bas.	Goldwyer Shale		0.9	0.6		0.3	0.60	200		orgchem
Willara 1		8310		2532.89		A2	Willara s bas.	Goldwyer Shale	237	0.1	0.08	0.36	0.32	0.56	25	113	wcr/amdel
Willara 1		8340		2542.03		A2	Willara s bas.	Goldwyer Shale	218	0.04	0	0.36	0.35	1.00	0	103	wcr/amdel
Willara 1	63820			2545.70	2545.70	A2	Willara s bas.	Goldwyer Shale		0.2			0.4				orgchem
Willara 1	30073			2548.10	2548.10	A2	Willara s bas.	Goldwyer Shale					0.1				orgchem
Willara 1	30889			2548.20	2548.20	A2	Willara s bas.	Goldwyer Shale									orgchem
Willara 1		8370		2551.18		A2	Willara s bas.	Goldwyer Shale					0.25		0	0	wcr/amdel
Willara 1	63821			2560.30	2566.40	A2	Willara s bas.	Goldwyer Shale		0.3	0.2		0.23	0.60	87		orgchem
Willara 1		8400		2560.32		A2	Willara s bas.	Goldwyer Shale	226	0.11	0.06	0.3	0.38	0.65	16	79	wcr/amdel
Willara 1		8430		2569.46		A2	Willara s bas.	Goldwyer Shale	305	0.56	0.3	0.52	0.33	0.65	91	158	wcr/amdel
Willara 1		8460		2578.61		A2	Willara s bas.	Goldwyer Shale	223	0.23	0.16	0.42	0.3	0.59	53	140	wcr/amdel
Willara 1		8490		2587.75		A2	Willara s bas.	Goldwyer Shale					0.26		0	0	wcr/amdel
Willara 1	63822			2590.80	2596.90	A2	Willara s bas.	Goldwyer Shale		0.3	0.1		0.25	0.75	40		orgchem
Willara 1		8520		2596.90		A2	Willara s bas.	Goldwyer Shale					0.24		0	0	wcr/amdel
Willara 1	5544			2684.80	2684.80	A1	Willara s bas.	Willara Fm	248	0.04			0.08				orgchem
Willara 1	30070			3018.70	3018.70	A1	Willara s bas.	Willara Fm					0.1				orgchem
Willara 1	5553			3145.60	3148.62	A1	Willara s bas.	Willara Fm	385		0.03		0.14		21		orgchem
Willara 1	5554			3173.00	3176.05	A1	Willara s bas.	Nambeet Fm	436	0.01			0.23				orgchem
Willara 1	5545			3186.50	3186.50	A1	Willara s bas.	Nambeet Fm	228				0.11				orgchem
Willara 1	5546			3187.60	3187.60	A1	Willara s bas.	Nambeet Fm	238				0.1				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Willara 1	5555			3203.50	3206.53	A1	Willara s bas.	Nambeet Fm	268	0.03	0.01		0.14	0.75	7		orgchem
Willara 1	5556			3234.00	3237.02	A1	Willara s bas.	Nambeet Fm	297	0.02	0.02		0.15	0.50	13		orgchem
Willara 1	5557			3328.50	3331.50	A1	Willara s bas.	Nambeet Fm	396	0.03	0.01		0.15	0.75	7		orgchem
Willara 1	30071			3357.40	3357.40	A1	Willara s bas.	Nambeet Fm					0.03				orgchem
Willara 1	5558			3358.90	3361.98	A1	Willara s bas.	Nambeet Fm	248	0.02	0.01		0.08	0.67	13		orgchem
Willara 1	30068			3659.40	3659.40	Ao	Willara s bas.	Nambeet Fm					0.03				orgchem
Willara 1	30069			3900.80	3900.80	Ao	Willara s bas.	Nambeet Fm					0.03				orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Wilson Cliffs 1		1139.80		347.50	362.80	I	Kidson sub-bas	Noonkanbah					2.48				Roberston Res
Wilson Cliffs 1		1339.88		408.50	426.80	I	Kidson sub-bas	Poole Sst					39.2				Roberston Res
Wilson Cliffs 1		1619.99		493.90	512.20	I	Kidson sub-bas	Poole Sst					30.7				Roberston Res
Wilson Cliffs 1		2069.68		631.00	637.20	H	Kidson sub-bas	"Grant" Fm					2.5				Roberston Res
Wilson Cliffs 1	30782	3325.92		1014.00	1014.00	D	Kidson sub-bas	Mellinjerle Fm					0.03				orgchem
Wilson Cliffs 1		6999.52		2134.00	2149.40	B2	Kidson sub-bas	Carribuddy					0.68				Roberston Res
Wilson Cliffs 1		7225.84		2203.00		B2	Kidson sub-bas	Carribuddy	358	0.03	0.14	0.5	0.28	0.18	50.00	178	Esso
Wilson Cliffs 1	30779	7255.03		2211.90	2211.90	B2	Kidson sub-bas	Carribuddy					0.1				orgchem
Wilson Cliffs 1		8307.91		2532.90		B2	Kidson sub-bas	Carribuddy					0.4				BP Res Cent
Wilson Cliffs 1	63358	8307.91		2532.90	2532.90	B2	Kidson sub-bas	Carribuddy		1.5	0.5		0.4	0.75			orgchem
Wilson Cliffs 1		8383.68		2556.00		A2	Kidson sub-bas	Goldwyer Fm	448	0.04	0.11	0.71	0.12	0.27	91.67	591	Esso
Wilson Cliffs 1		8407.95		2563.40		A2	Kidson sub-bas	Goldwyer Fm					0.38				BP Res Cent
Wilson Cliffs 1	63359	8407.95		2563.40	2563.40	A2	Kidson sub-bas	Goldwyer Fm		1.7	0.7		0.38				orgchem
Wilson Cliffs 1		8424.68		2568.50		A2	Kidson sub-bas	Goldwyer Fm					0.16				BP Res Cent
Wilson Cliffs 1	63360	8424.68		2568.50	2568.50	A2	Kidson sub-bas	Goldwyer Fm		0.2	0.3		0.16				orgchem
Wilson Cliffs 1		8430.91		2570.40		A2	Kidson sub-bas	Goldwyer Fm					0.2				BP Res Cent
Wilson Cliffs 1	63361	8430.91		2570.40	2570.40	A2	Kidson sub-bas	Goldwyer Fm		0.3	0.3		0.2				orgchem
Wilson Cliffs 1		8436.49		2572.10		A2	Kidson sub-bas	Goldwyer Fm					0.07				BP Res Cent
Wilson Cliffs 1	63362	8436.49		2572.10	2572.10	A2	Kidson sub-bas	Goldwyer Fm		0.3			0.07				orgchem
Wilson Cliffs 1		8489.95		2588.40	2594.50	A2	Kidson sub-bas	Goldwyer Fm					0.32				Roberston Res
Wilson Cliffs 1		8517.83		2596.90		A2	Kidson sub-bas	Goldwyer Fm					0.41				BP Res Cent
Wilson Cliffs 1	63363	8517.83		2596.90	2596.90	A2	Kidson sub-bas	Goldwyer Fm		1.5	0.7		0.41	0.68			orgchem
Wilson Cliffs 1	5635	8597.86		2621.30	2624.36	A2	Kidson sub-bas	Goldwyer Fm	411	1.15	0.71	2.38	0.44	0.62	161.36		orgchem
Wilson Cliffs 1		8617.87		2627.40		A2	Kidson sub-bas	Goldwyer Fm					0.72				BP Res Cent
Wilson Cliffs 1	63364	8617.87		2627.40	2627.40	A2	Kidson sub-bas	Goldwyer Fm		2.7	1		0.72		138.89		orgchem
Wilson Cliffs 1		8717.91		2657.90		A2	Kidson sub-bas	Goldwyer Fm					0.65				BP Res Cent
Wilson Cliffs 1	63365	8717.91		2657.90	2657.90	A2	Kidson sub-bas	Goldwyer Fm		2	1.1		0.65				orgchem
Wilson Cliffs 1		8787.78		2679.20		A2	Kidson sub-bas	Goldwyer Fm					0.09				BP Res Cent
Wilson Cliffs 1	63366	8787.78		2679.20	2679.20	A2	Kidson sub-bas	Goldwyer Fm		0.2			0.09				orgchem
Wilson Cliffs 1		8790.40		2680.00		A2	Kidson sub-bas	Goldwyer Fm	327	0.06	0.17	0.17	0.09	0.26	188.89	188	Esso
Wilson Cliffs 1		8792.70		2680.70		A2	Kidson sub-bas	Goldwyer Fm					0.19				BP Res Cent
Wilson Cliffs 1	63367	8792.70		2680.70	2680.70	A2	Kidson sub-bas	Goldwyer Fm		0.2			0.19				orgchem
Wilson Cliffs 1	30076	8793.68		2681.00	2681.00	A2	Kidson sub-bas	Goldwyer Fm					0.03				orgchem
Wilson Cliffs 1		8797.29		2682.10		A2	Kidson sub-bas	Goldwyer Fm					0.09				BP Res Cent
Wilson Cliffs 1	63368	8797.29		2682.10	2682.10	A2	Kidson sub-bas	Goldwyer Fm		0.2	0.1		0.09	0.67	111.11		orgchem
Wilson Cliffs 1		8801.88		2683.50		A2	Kidson sub-bas	Goldwyer Fm					0.06				BP Res Cent
Wilson Cliffs 1	63369	8801.88		2683.50	2683.50	A2	Kidson sub-bas	Goldwyer Fm		0.3			0.06				orgchem
Wilson Cliffs 1		8807.78		2685.30		A2	Kidson sub-bas	Goldwyer Fm					0.42				BP Res Cent
Wilson Cliffs 1	5634	8807.78		2685.30	2688.37	A2	Kidson sub-bas	Goldwyer Fm	419	1.45	0.44	1.13	0.42	0.77	104.76		orgchem
Wilson Cliffs 1	63370	8807.78		2685.30	2685.30	A2	Kidson sub-bas	Goldwyer Fm		2.5	1		0.42				orgchem
Wilson Cliffs 1		8907.82		2715.80		A2	Kidson sub-bas	Goldwyer Fm					0.75				BP Res Cent
Wilson Cliffs 1	63371	8907.82		2715.80	2715.80	A2	Kidson sub-bas	Goldwyer Fm		1.1	0.2		0.75	0.85			orgchem

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Liho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Wilson Cliffs 1	5633	8967.85		2734.10	2737.14	A2	Kidson sub-bas	Goldwyer Fm	415	2.22	0.96	2.06	0.42	0.70	228.57		orgchem
Wilson Cliffs 1		9007.54		2746.20		A2	Kidson sub-bas	Goldwyer Fm					0.37				BP Res Cent
Wilson Cliffs 1	63372	9007.54		2746.20	2746.20	A2	Kidson sub-bas	Goldwyer Fm		1.6	0.9		0.37	0.64	243.24		orgchem
Wilson Cliffs 1	5632	9087.90		2770.70	2773.71	A2	Kidson sub-bas	Goldwyer Fm	411	0.87	0.41	1.13	0.46	0.68	89.13		orgchem
Wilson Cliffs 1		9117.74		2779.80		A2	Kidson sub-bas	Goldwyer Fm					0.7				BP Res Cent
Wilson Cliffs 1	5631	9117.74		2779.80	2781.33	A2	Kidson sub-bas	Goldwyer Fm	430	2.48	2.96	7.48	3.21	0.46	92.21		orgchem
Wilson Cliffs 1	63373	9117.74		2779.80	2779.80	A2	Kidson sub-bas	Goldwyer Fm		1.1	0.2		0.7	0.85			orgchem
Wilson Cliffs 1		9120.04		2780.50	2783.50	A2	Kidson sub-bas	Goldwyer Fm					0.4				Roberston Res
Wilson Cliffs 1		9121.68		2781.00		A2	Kidson sub-bas	Goldwyer Fm					0.08				BP Res Cent
Wilson Cliffs 1	63374	9121.68		2781.00	2781.00	A2	Kidson sub-bas	Goldwyer Fm		0.3			0.08				orgchem
Wilson Cliffs 1		9124.96		2782.00		A2	Kidson sub-bas	Goldwyer Fm	402	0.06	0.28	0.22	0.22	0.18	127.27	100	Esso
Wilson Cliffs 1		9125.62		2782.20		A2	Kidson sub-bas	Goldwyer Fm					0.08				BP Res Cent
Wilson Cliffs 1	63375	9125.62		2782.20	2782.20	A2	Kidson sub-bas	Goldwyer Fm		0.2			0.08				orgchem
Wilson Cliffs 1		9129.55		2783.40		A2	Kidson sub-bas	Goldwyer Fm					0.09				BP Res Cent
Wilson Cliffs 1	63376	9129.55		2783.40	2783.40	A2	Kidson sub-bas	Goldwyer Fm		0.4			0.09				orgchem
Wilson Cliffs 1		9207.62		2807.20		A2	Kidson sub-bas	Goldwyer Fm					0.35				BP Res Cent
Wilson Cliffs 1	63377	9207.62		2807.20	2807.20	A2	Kidson sub-bas	Goldwyer Fm		1.6	0.5		0.35	0.76	142.86		orgchem
Wilson Cliffs 1	5630	9227.62		2813.30	2816.39	A2	Kidson sub-bas	Goldwyer Fm	411	0.64	0.35	1.13	0.37	0.65	94.59		orgchem
Wilson Cliffs 1		9695.68		2956.00		A1	Kidson sub-bas	Goldwyer Fm	444	0.02	0.02	0.56	0.13	0.50	15.38	430	Esso
Wilson Cliffs 1	30077	9704.86		2958.80	2958.80	A1	Kidson sub-bas	Goldwyer Fm					0.2				orgchem
Wilson Cliffs 1	5625	9905.60		3020.00	3020.00	A1	Kidson sub-bas	Goldwyer Fm	432	0.02	0.03	0.22	0.27	0.40	11.11		orgchem
Wilson Cliffs 1	5626	9916.42		3023.30	3023.30	A1	Kidson sub-bas	Goldwyer Fm	433	0.01		0.07	0.1				orgchem
Wilson Cliffs 1	5627	9940.37		3030.60	3030.60	A1	Kidson sub-bas	Goldwyer Fm	295	0.03			0.05				orgchem
Wilson Cliffs 1	5628	9942.43		3031.23	3031.23	A1	Kidson sub-bas	Goldwyer Fm	303	0.04	0.03		0.27	0.57	11.11		orgchem
Wilson Cliffs 1	5629	9957.42		3035.80	3035.84	A1	Kidson sub-bas	Goldwyer Fm	253	0.02			0.13				orgchem
Wilson Cliffs 1		10359.88		3158.50	3243.90	A1	Kidson sub-bas	Goldwyer Fm					0.39				Roberston Res
Wilson Cliffs 1		10639.99		3243.90	3253.10	A1	Kidson sub-bas	Goldwyer Fm					0.27				Roberston Res
Wilson Cliffs 1	30074	10765.94		3282.30	3282.30	A1	Kidson sub-bas	Goldwyer Fm					0.03				orgchem
Wilson Cliffs 1		11749.94		3582.30	3597.60	prof	Kidson sub-bas	Cambrian Fms					1.29				Roberston Res
Wilson Cliffs 1		11869.99		3618.90	3628.10	prof	Kidson sub-bas	Cambrian Fms					1.93/3.21				Roberston Res

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	Imax	S1	S2	S3	TOC	PI	HI	OI	where from
Yarrada 1				1156		H	Laurel Downs Terr.	Grant Fm (unit C)					0.58				orgchem/wcr
Yarrada 1				1570.4		F	Laurel Downs Terr.	Anderson Fm					0.1				orgchem/wcr
Yarrada 1				1679		F	Laurel Downs Terr.	Laurel Fm					0.45				orgchem/wcr
Yarrada 1				1798		F	Laurel Downs Terr.	Laurel Fm					0.64				orgchem/wcr
Yarrada 1				1810		F	Laurel Downs Terr.	Laurel Fm					1.36				orgchem/wcr
Yarrada 1				1836.5		F	Laurel Downs Terr.	Laurel Fm					0.45				orgchem/wcr
Yarrada 1				1861.8		F	Laurel Downs Terr.	Laurel Fm					0.51				orgchem/wcr
Yarrada 1				1891.7		F	Laurel Downs Terr.	Laurel Fm					0.45				orgchem/wcr
Yarrada 1				1903		F	Laurel Downs Terr.	Laurel Fm					0.51				orgchem/wcr
Yarrada 1				1925		F	Laurel Downs Terr.	Laurel Fm					0.46				orgchem/wcr

Well Name	BMR Lab No	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Litho-strat name	tmax	S1	S2	S3	TOC	PI	HI	OI	where from
Yulleroo 1		7332.68		2235		F	Fitzroy trough	Carboniferous (c)	356	0.01	0.05	0.83	0.5	0.17	10	166	wampri rep. (adjusted)
Yulleroo 1		7614.83		2321		F	Fitzroy trough	Carboniferous (c)	436	0.35	0.67	0.39	2.49	0.34	27	16	wampri rep. (adjusted)
Yulleroo 1		8359.58		2548		F	Fitzroy trough	Carboniferous (c)	436	0.16	1.13	0.27	0.65	0.12	174	42	wampri rep. (adjusted)
Yulleroo 1		10308.4		3142		F	Fitzroy trough	Carboniferous (c)	465	0.06	0.35	0.32	0.65	0.15	54	49	wampri rep. (adjusted)
Yulleroo 1		10626.6		3239		F	Fitzroy trough	Carboniferous (c)	499	0.03	0.81	0.35	0.56	0.04	145	63	wampri rep. (adjusted)
Yulleroo 1		11092.5		3381		F	Fitzroy trough	Carboniferous (c)	494	0.04	0.39	0.3	0.52	0.09	75	58	wampri rep. (adjusted)
Yulleroo 1		11561.7		3524		F	Fitzroy trough	Carboniferous (c)	456	0.07	0.11	0.35	0.64	0.39	17	55	wampri rep. (adjusted)
Yulleroo 1		12119.4		3694		F	Fitzroy trough	Carboniferous (c)	449	0.64	0.61		2.48	0.51	25	0	wampri rep. (adjusted)
Yulleroo 1		12122.7		3695		F	Fitzroy trough	Carboniferous (c)	446	0.73	0.73		2.85	0.50	26	0	wampri rep. (adjusted)
Yulleroo 1		12126		3696		F	Fitzroy trough	Carboniferous (c)	449	0.75	1.06	0.56	4.4	0.41	24	13	wampri rep. (adjusted)
Yulleroo 1		12706.7		3873		E	Fitzroy trough	Laurel Fm	377	0.04	0.21	0.19	0.39	0.16	54	49	wampri rep. (adjusted)

POROSITY-PERMEABILITY SPREADSHEETS
(pages 155-238)

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Acacia 1			*		A2	Barbwire Terr.	Nita Fm		8.3	4.7	13.7	core	wmc				6.8	1.4	14
Acacia 1			707.5		A2	Barbwire Terr.	Nita Fm	4.7				core	wmc	1.4					
Acacia 1			716.9		A2	Barbwire Terr.	Nita Fm	13.7				core	wmc	8					
Acacia 1			722.6		A2	Barbwire Terr.	Nita Fm	8				core	wmc	14					
Acacia 1			737.25		A2	Barbwire Terr.	Nita Fm	6.9				core	wmc	3.8					
Acacia 1			*		A2	Barbwire Terr.	Upper Sand (Willara Fm)		14.9	13	18.1	core	wmc				29	1.6	50
Acacia 1			1098.7		A2	Barbwire Terr.	Upper Sand (Willara Fm)	18.1				SEM	wmc	50					
Acacia 1			*		A2	Barbwire Terr.	Middle Sand (Willara Fm)		8.6	6.1	11.2	core	wmc				2	0.014	6.1
Acacia 1			*		A2	Barbwire Terr.	Lower Sand (Willara Fm)		14.7	0.9	20.6	core	wmc				139	0.007	505
Acacia 1			1169.4		A2	Barbwire Terr.	Lower Sand (Willara Fm)	19.7				SEM	wmc	505					
Acacia 1			1170		A2	Barbwire Terr.	Sands (Willara Fm)	14.7				core	wmc	4.08					
Acacia 1			1172.74		A2	Barbwire Terr.	Lower Sand (Willara Fm)	0.9				SEM	wmc	0.007					
Acacia 1			1175.68		A2	Barbwire Terr.	Lower Sand (Willara Fm)	3.4				SEM	wmc	0.54					
Acacia 1			1176		A2	Barbwire Terr.	Sands (Willara Fm)	17.6				core	wmc	7.92					
Acacia 1			1177.25		A2	Barbwire Terr.	Lower Sand (Willara Fm)	10.1				SEM	wmc	2.8					
Acacia 1			1179.2		A2	Barbwire Terr.	Lower Sand (Willara Fm)	15				SEM	wmc	39					
* value average for stratigraphic unit, not specific depth																			

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md	Perm Aver (md)	Perm min (md)	Perm max (md)
Acacia 2			*		A2	Barbwire Terr.	Nita Fm		8.2	0.1	19.3	core/wcr			47	0.22	385
Acacia 2			*		A2	Barbwire Terr.	Nita Fm		6.4	1.8	14.8	core/wcr			4.65	0.22	238
Acacia 2			717.94		B1	Barbwire Terr.	Nita Fm (cores 1&2)	3.7				core/wcr	Gearhart/WMC	<.22			
Acacia 2			718.01		B1	Barbwire Terr.	Nita Fm (cores 1&2)	3.9				core/wcr	Gearhart/WMC	<.22			
Acacia 2			718.73		B1	Barbwire Terr.	Nita Fm (cores 1&2)	6.5				core/wcr	Gearhart/WMC	<.22			
Acacia 2			718.86		B1	Barbwire Terr.	Nita Fm (cores 1&2)	7.4				core/wcr	Gearhart/WMC	<.22			
Acacia 2			719.17		B1	Barbwire Terr.	Nita Fm (cores 1&2)	2.2				core/wcr	Gearhart/WMC	<.22			
Acacia 2			719.59		B1	Barbwire Terr.	Nita Fm (cores 1&2)	5.1				core/wcr	Gearhart/WMC	<.22			
Acacia 2			719.97		B1	Barbwire Terr.	Nita Fm (cores 1&2)	4.5				core/wcr	Gearhart/WMC	<.22			
Acacia 2			720.46		B1	Barbwire Terr.	Nita Fm (cores 1&2)	6.5				core/wcr	Gearhart/WMC	<.22			
Acacia 2			720.8		B1	Barbwire Terr.	Nita Fm (cores 1&2)	8.7				core/wcr	Gearhart/WMC	<.22			
Acacia 2			721.2		B1	Barbwire Terr.	Nita Fm (cores 1&2)	8.1				core/wcr	Gearhart/WMC	<.24			
Acacia 2			721.47		B1	Barbwire Terr.	Nita Fm (cores 1&2)	13.5				core/wcr	Gearhart/WMC	9.7			
Acacia 2			721.7		B1	Barbwire Terr.	Nita Fm (cores 1&2)	13.5				core/wcr	Gearhart/WMC	5.9			
Acacia 2			721.84		B1	Barbwire Terr.	Nita Fm (cores 1&2)	4.2				core/wcr	Gearhart/WMC	<.22			
Acacia 2			722.15		B1	Barbwire Terr.	Nita Fm (cores 1&2)	7.5				core/wcr	Gearhart/WMC	<.22			
Acacia 2			722.48		B1	Barbwire Terr.	Nita Fm (cores 1&2)	6.4				core/wcr	Gearhart/WMC	<.23			
Acacia 2			722.93		B1	Barbwire Terr.	Nita Fm (cores 1&2)	7.7				core/wcr	Gearhart/WMC	<.22			
Acacia 2			723.48		B1	Barbwire Terr.	Nita Fm (cores 1&2)	9.2				core/wcr	Gearhart/WMC	0.32			
Acacia 2			723.81		B1	Barbwire Terr.	Nita Fm (cores 1&2)	11.2				core/wcr	Gearhart/WMC	1.6			
Acacia 2			724.33		B1	Barbwire Terr.	Nita Fm (cores 1&2)	10				core/wcr	Gearhart/WMC	1			
Acacia 2			724.67		B1	Barbwire Terr.	Nita Fm (cores 1&2)	7.7				core/wcr	Gearhart/WMC	<.22			
Acacia 2			724.85		B1	Barbwire Terr.	Nita Fm (cores 1&2)	6.6				core/wcr	Gearhart/WMC	<.23			
Acacia 2			725.3		B1	Barbwire Terr.	Nita Fm (cores 1&2)	7.3				core/wcr	Gearhart/WMC	0.79			
Acacia 2			725.77		B1	Barbwire Terr.	Nita Fm (cores 1&2)	5.8				core/wcr	Gearhart/WMC	<.22			
Acacia 2			726.33		B1	Barbwire Terr.	Nita Fm (cores 1&2)	6.2				core/wcr	Gearhart/WMC	<.22			
Acacia 2			726.84		B1	Barbwire Terr.	Nita Fm (cores 1&2)	7.2				core/wcr	Gearhart/WMC	<.22			
Acacia 2			727.42		B1	Barbwire Terr.	Nita Fm (cores 1&2)	8.9				core/wcr	Gearhart/WMC	0.25			
Acacia 2			727.77		B1	Barbwire Terr.	Nita Fm (cores 1&2)	9.2				core/wcr	Gearhart/WMC	2.3			
Acacia 2			728.15		B1	Barbwire Terr.	Nita Fm (cores 1&2)	6.8				core/wcr	Gearhart/WMC	0.65			
Acacia 2			728.49		B1	Barbwire Terr.	Nita Fm (cores 1&2)	6.4				core/wcr	Gearhart/WMC	<.22			
Acacia 2			728.75		B1	Barbwire Terr.	Nita Fm (cores 1&2)	7.6				core/wcr	Gearhart/WMC	<.22			
Acacia 2			729.1		B1	Barbwire Terr.	Nita Fm (cores 1&2)	9.7				core/wcr	Gearhart/WMC	15			
Acacia 2			729.5		B1	Barbwire Terr.	Nita Fm (cores 1&2)	9.6				core/wcr	Gearhart/WMC	35			
Acacia 2			729.84		B1	Barbwire Terr.	Nita Fm (cores 1&2)	14.8				core/wcr	Gearhart/WMC	238			

Acacia 2		730.45	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	4.1		core/wcr	Gearhart/WMC	<.22		
Acacia 2		730.85	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	10		core/wcr	Gearhart/WMC	12		
Acacia 2		731.28	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	9.9		core/wcr	Gearhart/WMC	12		
Acacia 2		731.89	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	6.5		core/wcr	Gearhart/WMC	<.22		
Acacia 2		732.39	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	8.3		core/wcr	Gearhart/WMC	0.66		
Acacia 2		732.82	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	10.5		core/wcr	Gearhart/WMC	8.8		
Acacia 2		733.2	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	4.3		core/wcr	Gearhart/WMC	<.23		
Acacia 2		733.6	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	2.7		core/wcr	Gearhart/WMC	<.17		
Acacia 2		733.94	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	9		core/wcr	Gearhart/WMC	15		
Acacia 2		734.64	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	5.5		core/wcr	Gearhart/WMC	0.43		
Acacia 2		735.17	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	4.5		core/wcr	Gearhart/WMC	<.22		
Acacia 2		735.61	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	4.5		core/wcr	Gearhart/WMC	<.23		
Acacia 2		736.05	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	3.2		core/wcr	Gearhart/WMC	<.22		
Acacia 2		736.49	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	3.2		core/wcr	Gearhart/WMC	<.22		
Acacia 2		737.16	B1	Barbwire Terr.	Nlita Fm (cores 1&2)	4		core/wcr	Gearhart/WMC	<.22		
Acacia 2		737.53	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	7.2		core/wcr	Gearhart/WMC	0.84		
Acacia 2		737.78	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	10.3		core/wcr	Gearhart/WMC	19		
Acacia 2		738.14	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	6.5		core/wcr	Gearhart/WMC	0.58		
Acacia 2		738.62	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.1		core/wcr	Gearhart/WMC	<.22		
Acacia 2		738.94	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	2.9		core/wcr	Gearhart/WMC	<.22		
Acacia 2		739.28	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	4.4		core/wcr	Gearhart/WMC	<.22		
Acacia 2		739.73	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	8		core/wcr	Gearhart/WMC	6.6		
Acacia 2		740.12	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.8		core/wcr	Gearhart/WMC	<.22		
Acacia 2		740.44	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	6		core/wcr	Gearhart/WMC	<.22		
Acacia 2		740.72	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.5		core/wcr	Gearhart/WMC	<.22		
Acacia 2		741.23	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.6		core/wcr	Gearhart/WMC	0.82		
Acacia 2		741.58	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	3.1		core/wcr	Gearhart/WMC	<.23		
Acacia 2		742.08	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	4.5		core/wcr	Gearhart/WMC	<.22		
Acacia 2		742.72	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	4.7		core/wcr	Gearhart/WMC	<.22		
Acacia 2		743.21	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	4.3		core/wcr	Gearhart/WMC	<.22		
Acacia 2		743.67	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	6.6		core/wcr	Gearhart/WMC	0.38		
Acacia 2		744.04	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.2		core/wcr	Gearhart/WMC	0.48		
Acacia 2		744.4	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	7.1		core/wcr	Gearhart/WMC	0.68		
Acacia 2		744.8	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.7		core/wcr	Gearhart/WMC	0.38		
Acacia 2		745.36	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	6.8		core/wcr	Gearhart/WMC	0.55		
Acacia 2		745.72	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	6.3		core/wcr	Gearhart/WMC	<.22		
Acacia 2		746.24	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.3		core/wcr	Gearhart/WMC	<.22		
Acacia 2		746.53	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.4		core/wcr	Gearhart/WMC	<.22		
Acacia 2		746.95	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	6.8		core/wcr	Gearhart/WMC	0.55		
Acacia 2		747.18	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	7.7		core/wcr	Gearhart/WMC	0.71		
Acacia 2		747.83	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	8.2		core/wcr	Gearhart/WMC	0.79		
Acacia 2		748.31	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	6.3		core/wcr	Gearhart/WMC	<.22		
Acacia 2		748.71	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	6.8		core/wcr	Gearhart/WMC	<.22		
Acacia 2		749.06	A2	Barbwire Terr.	Nlita Fm (cores 1&2)	5.8		core/wcr	Gearhart/WMC	<.22		

Acacia 2		749.45	A2	Barbwire Terr.	Niita Fm (cores 1&2)	5			core/wcr	Gearhart/WMC	<.17			
Acacia 2		750.36	A2	Barbwire Terr.	Niita Fm (cores 1&2)	4.2			core/wcr	Gearhart/WMC	<.22			
Acacia 2		750.6	A2	Barbwire Terr.	Niita Fm (cores 1&2)	3.4			core/wcr	Gearhart/WMC	<.22			
Acacia 2		751.08	A2	Barbwire Terr.	Niita Fm (cores 1&2)	5.8			core/wcr	Gearhart/WMC	<.22			
Acacia 2		751.75	A2	Barbwire Terr.	Niita Fm (cores 1&2)	2.6			core/wcr	Gearhart/WMC	<.22			
Acacia 2		752.12	A2	Barbwire Terr.	Niita Fm (cores 1&2)	4			core/wcr	Gearhart/WMC	<.22			
Acacia 2		752.55	A2	Barbwire Terr.	Niita Fm (cores 1&2)	3.9			core/wcr	Gearhart/WMC	<.22			
Acacia 2		753.16	A2	Barbwire Terr.	Niita Fm (cores 1&2)	2.7			core/wcr	Gearhart/WMC	<.22			
Acacia 2		753.65	A2	Barbwire Terr.	Niita Fm (cores 1&2)	1.8			core/wcr	Gearhart/WMC	<.22			
Acacia 2		754.1	A2	Barbwire Terr.	Niita Fm (cores 1&2)*	6			core/wcr	Gearhart/WMC	1.1			
Acacia 2		837.05	A2	Barbwire Terr.	Goldwyer Fm (core 3)	3.9			core/wcr	Gearhart/WMC	19			
Acacia 2		837.55	A2	Barbwire Terr.	Goldwyer Fm (core 3)	6.6			core/wcr	Gearhart/WMC	4.2			
Acacia 2		838.05	A2	Barbwire Terr.	Goldwyer Fm (core 3)	2.5			core/wcr	Gearhart/WMC	<.22			
Acacia 2		838.73	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.8			core/wcr	Gearhart/WMC	<.22			
Acacia 2		839.1	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.5			core/wcr	Gearhart/WMC	<.20			
Acacia 2		839.77	A2	Barbwire Terr.	Goldwyer Fm (core 3)	2.7			core/wcr	Gearhart/WMC	<.22			
Acacia 2		840.23	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.2			core/wcr	Gearhart/WMC	<.22			
Acacia 2		840.5	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.7			core/wcr	Gearhart/WMC	<.22			
Acacia 2		841.21	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.2			core/wcr	Gearhart/WMC	<.22			
Acacia 2		841.65	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1			core/wcr	Gearhart/WMC	<.22			
Acacia 2		841.94	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.5			core/wcr	Gearhart/WMC	<.22			
Acacia 2		842.6	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.4			core/wcr	Gearhart/WMC	<.22			
Acacia 2		843.03	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.4			core/wcr	Gearhart/WMC	<.22			
Acacia 2		843.62	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.7			core/wcr	Gearhart/WMC	<.22			
Acacia 2		844.05	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.3			core/wcr	Gearhart/WMC	<.22			
Acacia 2		844.55	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.4			core/wcr	Gearhart/WMC	<.22			
Acacia 2		844.82	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.99			core/wcr	Gearhart/WMC	<.22			
Acacia 2		845.25	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.55			core/wcr	Gearhart/WMC	<.22			
Acacia 2		845.62	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.4			core/wcr	Gearhart/WMC	<.22			
Acacia 2		845.86	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.2			core/wcr	Gearhart/WMC	<.22			
Acacia 2		846.28	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.2			core/wcr	Gearhart/WMC	<.22			
Acacia 2		846.86	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.3			core/wcr	Gearhart/WMC	<.22			
Acacia 2		847.37	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.2			core/wcr	Gearhart/WMC	<.22			
Acacia 2		847.8	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.1			core/wcr	Gearhart/WMC	<.22			
Acacia 2		848.33	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1			core/wcr	Gearhart/WMC	<.22			
Acacia 2		848.96	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.2			core/wcr	Gearhart/WMC	<.22			
Acacia 2		849.4	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.8			core/wcr	Gearhart/WMC	<.22			
Acacia 2		849.95	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.3			core/wcr	Gearhart/WMC	<.22			
Acacia 2		850.39	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.1			core/wcr	Gearhart/WMC	<.22			
Acacia 2		850.83	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.7			core/wcr	Gearhart/WMC	<.22			
Acacia 2		851.33	A2	Barbwire Terr.	Goldwyer Fm (core 3)	4.5			core/wcr	Gearhart/WMC	<.22			
Acacia 2		852.05	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.1			core/wcr	Gearhart/WMC	<.22			
Acacia 2		852.44	A2	Barbwire Terr.	Goldwyer Fm (core 3)	1.3			core/wcr	Gearhart/WMC	<.22			
Acacia 2		852.77	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.8			core/wcr	Gearhart/WMC	<.22			

Acacia 2		853.15	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.7				core/wcr	Gearhart/WMC	<.22			
Acacia 2		853.5	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.6				core/wcr	Gearhart/WMC	<.22			
Acacia 2		853.94	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.1				core/wcr	Gearhart/WMC	<.22			
Acacia 2		854.34	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.9				core/wcr	Gearhart/WMC	<.22			
Acacia 2		854.75	A2	Barbwire Terr.	Goldwyer Fm (core 3)	0.8				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1174.13	A2	Barbwire Terr.	?Willara Fm (core 4)	19				core/wcr	Gearhart/WMC	17			
Acacia 2		1174.41	A2	Barbwire Terr.	?Willara Fm (core 4)	19.3				core/wcr	Gearhart/WMC	47			
Acacia 2		1174.6	A2	Barbwire Terr.	?Willara Fm (core 4)	18.8				core/wcr	Gearhart/WMC	372			
Acacia 2		1174.7	A2	Barbwire Terr.	?Willara Fm (core 4)	18.2				core/wcr	Gearhart/WMC	202			
Acacia 2		1175.35	A2	Barbwire Terr.	?Willara Fm (core 4)	18.6				core/wcr	Gearhart/WMC	385			
Acacia 2		1175.68	A2	Barbwire Terr.	?Willara Fm (core 4)	3.4				core/wcr	Gearhart/WMC	0.54			
Acacia 2		1175.92	A2	Barbwire Terr.	?Willara Fm (core 4)	0.9				core/wcr	Gearhart/WMC	<.18			
Acacia 2		1176.13	A2	Barbwire Terr.	?Willara Fm (core 4)	2.9				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1176.37	A2	Barbwire Terr.	?Willara Fm (core 4)	3.1				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1176.69	A2	Barbwire Terr.	?Willara Fm (core 4)	3.1				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1177.05	A2	Barbwire Terr.	?Willara Fm (core 4)	13.1				core/wcr	Gearhart/WMC	23			
Acacia 2		1177.25	A2	Barbwire Terr.	?Willara Fm (core 4)	10.1				core/wcr	Gearhart/WMC	2.8			
Acacia 2		1177.64	A2	Barbwire Terr.	?Willara Fm (core 4)	9.4				core/wcr	Gearhart/WMC	0.91			
Acacia 2		1177.9	A2	Barbwire Terr.	?Willara Fm (core 4)	1.7				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1178.15	A2	Barbwire Terr.	?Willara Fm (core 4)	13.6				core/wcr	Gearhart/WMC	49			
Acacia 2		1178.38	A2	Barbwire Terr.	?Willara Fm (core 4)	0.9				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1178.83	A2	Barbwire Terr.	?Willara Fm (core 4)	1.2				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1179.05	A2	Barbwire Terr.	?Willara Fm (core 4)	9.2				core/wcr	Gearhart/WMC	16			
Acacia 2		1179.2	A2	Barbwire Terr.	?Willara Fm (core 4)	15				core/wcr	Gearhart/WMC	39			
Acacia 2		1179.53	A2	Barbwire Terr.	?Willara Fm (core 4)	1.6				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1180.32	A2	Barbwire Terr.	?Willara Fm (core 4)	0.4				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1180.77	A2	Barbwire Terr.	?Willara Fm (core 4)	19.3				core/wcr	Gearhart/WMC	9.8			
Acacia 2		1180.91	A2	Barbwire Terr.	?Willara Fm (core 4)	2.1				core/wcr	Gearhart/WMC	<.21			
Acacia 2		1568.67		Barbwire Terr.	basement	0.3				core/wcr	Gearhart/WMC	<.22			
Acacia 2		1569.3		Barbwire Terr.	basement	0.1				core/wcr	Gearhart/WMC	<.22			
* note: values are for stratigraphic unit as a whole, they are not individual values measured at a specific depth															
* note: lithostratigraphy shown here is not as in wcr, Nita has been reduced in thickness.															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Antares 1			333.3	387.4	D	E Dampler Terr	Lennard River Group		12	4	25		wcr		
Antares 1			403	485.2	D	E Dampler Terr	Lennard River Group		8	0	22		wcr		
Antares 1			491.6	518	D	E Dampler Terr	Lennard River Group		10	1	21		wcr		
Antares 1			518	550	D	E Dampler Terr	Lennard River Group		3	0	9		wcr		
Antares 1			563	641	D	E Dampler Terr	Lennard River Group		1	0	33		wcr		
Antares 1			641	725	D	E Dampler Terr	Lennard River Group		2	0	8		wcr		
Antares 1			725	810	D	E Dampler Terrace	Lennard River Group		3	0	12		wcr		
Antares 1			810	887	D	E Dampler Terrace	Lennard River Group		5	0	24		wcr		
Antares 1			888.6	889.3	C	E Dampler Terrace	Tandalgoo Fm		10	9	12		wcr		
Antares 1			898.1	899.4	C	E Dampler Terrace	Tandalgoo Fm		7	5	8		wcr		
Antares 1			901.4	905.4	C	E Dampler Terrace	Tandalgoo Fm		2	0	10		wcr		
Antares 1			911.2	912.1	C	E Dampler Terrace	Tandalgoo Fm		10	8	12		wcr		
Antares 1			915.2	915.9	C	E Dampler Terrace	Tandalgoo Fm		16	7	21		wcr		
Antares 1			918.2	919.4	C	E Dampler Terrace	Tandalgoo Fm		18	10	24		wcr		
Antares 1			924.9	926.7	B1	E Dampler Terrace	Carlbuddy Group		16	13	22		wcr		
Antares 1			1058.3	1103.1	A2	E Dampler Terrace	Nita Fm		2	0	14		wcr		
Antares 1			1103.1	1118	A2	E Dampler Terrace	Nita Fm		5	0	16		wcr		
Antares 1			1118	1126	A2	E Dampler Terrace	Nita Fm		3	0	9		wcr		
Antares 1			1126	1139	A2	E Dampler Terrace	Nita Fm		2	0	8		wcr		
Antares 1			1139	1146	A2	E Dampler Terrace	Nita Fm		1	0	3		wcr		
Antares 1			1146	1187	A2	E Dampler Terrace	Nita Fm		2	0	8		wcr		
Antares 1			1187	1246	A2	E Dampler Terrace	Nita Fm		1	0	6		wcr		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (md)	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Aristida 1A			*		E?	Barbwire terr.	Nullara Fm equiv.		4.3	3.9	4.6		WMC				0.08	0.02	0.14
Aristida 1A			*		D	Barbwire terr.	Pillara shoaling Dolo.		2.2	0.3	7.3		WMC				<.09	<.001	1.3
Aristida 1A			580.96		D	Barbwire terr.	Dolomite shoaling source	2.7					WMC				<.001		
Aristida 1A			585.76		D	Barbwire terr.	Dolomite shoaling source	2					WMC				<.001		
Aristida 1A			596.73		D	Barbwire terr.	Dolomite shoaling source	2.2					WMC				<.001		
Aristida 1A			600.8		D	Barbwire terr.	Dolomite shoaling source	1.2					WMC				<.001		
Aristida 1A			609.13		D	Barbwire terr.	Dolomite shoaling source	0.6					WMC				<.001		
Aristida 1A			617.55		D	Barbwire terr.	Dolomite shoaling source	1					WMC				<.001		
Aristida 1A			637.74		D	Barbwire terr.	Dolomite shoaling source	0.3					WMC				<.001		
Aristida 1A			648.54		D	Barbwire terr.	Dolomite shoaling source	0.7					WMC				<.001		
Aristida 1A			656.63		D	Barbwire terr.	Dolomite shoaling source	7.3					WMC				1.3		
Aristida 1A			658.17		D	Barbwire terr.	Dolomite shoaling source	4.1					WMC				<.001		
Aristida 1A			660.44		D	Barbwire terr.	Dolomite shoaling source	5.9					WMC				<.001		
Aristida 1A			682.08		D	Barbwire terr.	Dolomite shoaling source	0.7					WMC				<.001		
Aristida 1A			693.76		D	Barbwire terr.	Dolomite shoaling source	2					WMC				0.006		
Aristida 1A			721.57		D	Barbwire terr.	Dolomite shoaling source	0.4					WMC				<.001		
* average value for stratigraphic unit, not at a specific depth																			

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
														% min	% max
Babrongan 1	897	910			H	E Jurgurra Ter	Grant			1.6	4.9	core/wcr	not known	4.9	7
Babrongan 1	2046	2060			H	E Jurgurra Ter	Grant				nd	core/wcr	not known	nil	
Babrongan 1	2445	2452			E	E Jurgurra Ter	Clanmeyer Fm			0.36	4.5	core/wcr	not known	4.5	
Babrongan 1	2744	2750			E	E Jurgurra Ter	Clanmeyer Fm			nd	nd	core/wcr	not known	nd	
Babrongan 1	3048	3063			E	E Jurgurra Ter	Clanmeyer Fm			nd	nd	core/wcr	not known	nd	
Babrongan 1	3408	3418			E	E Jurgurra Ter	Clanmeyer Fm			nd	nd	core/wcr	not known	nd	
Babrongan 1	3588	3598			E	E Jurgurra Ter	Clanmeyer Fm			nd	nd	core/wcr	not known	nd	
Babrongan 1	3932	3942			E	E Jurgurra Ter	Clanmeyer Fm				2.3	core/wcr	not known	0	43.7
Babrongan 1	4234	4244			E	E Jurgurra Ter	Clanmeyer Fm			1.16	2.17	core/wcr	not known	0	43
Babrongan 1	4470	4480			E	E Jurgurra Ter	Clanmeyer Fm			1.1	1.5	core/wcr	not known	0	21.6
Babrongan 1	4764	4775			E	E Jurgurra Ter	Clanmeyer Fm			nd	nd	core/wcr	not known	nd	
Babrongan 1	5129	5139			E	E Jurgurra Ter	Clanmeyer Fm			1.2	4.1	core/wcr	not known	0	31.8
Babrongan 1	5318	5328			E	E Jurgurra Ter	Clanmeyer Fm			0	0.85	core/wcr	not known	0	
Babrongan 1	5499	5504			E	E Jurgurra Ter	Clanmeyer Fm			0.77	0.8	core/wcr	not known	0	
Babrongan 1	5848	5857			E	E Jurgurra Ter	Babrongan Beds			0	0.57	core/wcr	not known	0	
Babrongan 1	6149	6154			E	E Jurgurra Ter	Babrongan Beds			0.44	1.74	core/wcr	not known	0	
Babrongan 1	6368	6374			E	E Jurgurra Ter	Babrongan Beds			0.7	1.93	core/wcr	not known	0	21

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Bindi 1			910	990	I	Gregory S-basin	Poole Fm		27			nd	company rep		
Bindi 1			990	1070	H	Gregory S-basin	Carolyn Fm		24				company rep		
Bindi 1			1070	1313	H	Gregory S-basin	Winifred Fm		17				company rep		
Bindi 1			1313	1480	H	Gregory S-basin	Betty Fm Upper		12				company rep		
Bindi 1			1480	1496	H	Gregory S-basin	Betty Fm Lower		15				company rep		
Bindi 1			1496	1832	G/F?	Gregory S-basin	U Anderson Preglacial		11				company rep		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Boab 1			nd		D	Broome Plat.	Pillara Bank facies		1.8	6.3		wcr	WMC				<.02	<.001	0.16
Boab 1			441.7	557.2	D	Broome Plat.	low Pillara/upper Boab	19.4		4.2	29.1	wcr	WMC				478	0.049	2700
Boab 1			477.38		D	Broome Plat.	Tandalgoo Sst (top)		22.1			wcr	WMC	119					
Boab 1			508.55		D	Broome Plat.	Tandalgoo sst (mid)		27.1			wcr	WMC	1010					
Boab 1			551.62		D	Broome Plat.	Tandalgoo sst (lower)		4.2			wcr	WMC	2.75					
Boab 1			*		D	Broome Plat.	Tandalgoo (average)		19.4	1	29.2		WMC rep				393	0.004	1680
* note: values are for stratigraphic unit as a whole, they are not individual values measured at a specific depth																			

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Boronla 1			594	697	nd	Fitroy Trough	Poole SS			21	34	log anal	WCR		
Boronla 1			697	829.5	nd	Fitroy Trough	Grant Fm 'C'			20	30	log anal	WCR		
Boronla 1			987	1166	nd	Fitroy Trough	Grant Fm 'A'			10	18	log anal	WCR		
Boronla 1			1166.5	1229	nd	Fitroy Trough	Laurel Fm/limestone			3.5	7	log anal	WCR		
Boronla 1			1229	1625	nd	Fitroy Trough	Luluigul Fm/limestone			3	7	log anal	WCR		
Boronla 1			1229	1625	nd	Fitroy Trough	Luluigul Fm/dolostone			6	8	log anal	WCR		
Boronla 1			1625	2506	nd	Fitroy Trough	Clanmeyer Fm/SS			14	16	log anal	WCR		
Boronla 1			1633.5		nd	Fitroy Trough	Clanmeyer Fm/high clay	39				core	WCR		
Boronla 1			2506	3391	nd	Fitroy Trough	Pillara Fm/limestone			0	4	log anal	WCR		
Boronla 1			2506	3391	nd	Fitroy Trough	Pillara Fm/silts, SS Inter			2	5	log anal	WCR		
Boronla 1			2681	2687	nd	Fitroy Trough	Pillara Fm/ SS			8	12	log anal	WCR		
Boronla 1			2800	2821	nd	Fitroy Trough	Pillara Fm/ SS			7	12	log anal	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Caladenia 1			*		D	Barbwire Terr.	Pillara shoaling Dol.		8.5	4.7	11.7	core	WMC			0.12	0.035	0.32
* no depth available																		

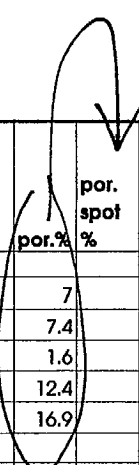
Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Canopus 1			157.2	365.5	H	E Dampler Ter	Grant Fm			12	30	wcr/log anal	nd		
Canopus 1			365.5	707	C	E Dampler Ter	Tandalgoo Fm			27	30	wcr/log anal	nd		
Canopus 1			707	938	C	E Dampler Ter	unamed Tandalgoo sst			12	15	wcr/log anal	nd		
Canopus 1			1135	1137	A2	E Dampler Ter	Nlfa Fm		7		15	wcr/log anal	nd		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Carina 1			0*	367	nd	Broome Plat.	Wallal Fm sands		30			log/wcr	Getty Oil		
Carina 1			491*	694	nd	Broome Plat.	Cuncudgerie & Tandalgoo ssfs		27			log/wcr	Getty Oil		
Carina 1			694*	926	nd	Broome Plat.	Carribuddy A unit (sst)			16	26	log/wcr	Getty Oil		
* values are averages for the stratigraphic units shown, not measured values at specific depths															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Cassia 1			*		nd	Barbwire Terr.	Nullara Fm equiv.		5	1.4	8.1		WMC			<1.78	<.01	11
Cassia 1			*		nd	Barbwire Terr.	Fairfield/Yellowdrum sst		26.6	23.3	29.8		WMC			615	36	2230
* depths not given																		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md	Aver. Perm md	Min. Perm md	Max. Perm md
Contention Heights 1			*		nd	Ryan shelf	Poole			15	30		Roberston res.				1500	5000
Contention Heights 1			*		nd	Ryan shelf	Grant			15	25		Roberston res.			Hlgh		
Contention Heights 1			*		nd	Ryan shelf	Tandalgoo			15	25		Roberston res.			Good		
Contention Heights 1			*		nd	Ryan shelf	Carrlbuddy			12	20		Roberston res.			Low		
Contention Heights 1			*		nd	Ryan shelf	Ordovician Fms		5				Roberston res.			Fractured	0	2.5
* average for stratigraphic units listed, values are not from specific depths																		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Cudalgarra 1			622	1126	H	Broome Plat.	Permo-Carb Grant Fm		20.5	6	27	log/core	WCR/orchem		
Cudalgarra 1			1174	1330	C	Broome Plat.	Carribuddy Sandst. unit		15		26	log/core	WCR/orchem		
Cudalgarra 1					C	Broome Plat.	Carribuddy Sandst. unit		9.4	8	10.4	log/core	WCR/orchem		
Cudalgarra 1					C	Broome Plat.	Carb cemented sand		11	10	13	log/core	WCR/orchem		
Cudalgarra 1			1330	1408.5	A2	Broome Plat.	Nita Fm				8.5	log/core	WCR/orchem	1621	



Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot por.%	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Dampiera 1A			1706.2	1856.8	D	Barbwire Terr.	Boab Sst		8.6	0.7	17.7	core	WMC rep				28.00	0.007	161
Dampiera 1A			1743.25		D	Barbwire Terr.	Boab Sst	7				core	WMC rep	0.12					
Dampiera 1A			1747.51		D	Barbwire Terr.	Boab Sst	7.4				core	WMC rep	5.5					
Dampiera 1A			1751.48		D	Barbwire Terr.	Boab Sst	1.6				core	WMC rep	0.008					
Dampiera 1A			1753.56		D	Barbwire Terr.	Boab Sst	12.4				core	WMC rep	54					
Dampiera 1A			1773.78		D	Barbwire Terr.	Boab Sst	16.9				core	WMC rep	161					
Dampiera 1A			*		E?	Barbwire Terr.	Nullara Fm equiv.		6.8	2.5	12.5	core	WMC rep				12.50	<.01	84
Dampiera 1A			*		D	Barbwire Terr.	Pillara Shoaling Dolomite		3.1	0.2	10.4	core	WMC rep				<.01	<.01	

* depths not given in report

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Darriwell 1	*				H	Willara sub-basin	Grant Unit 4		29		31	Neutron/density	Oil Co Aust		
Darriwell 1	*				H	Willara sub-basin	Grant Unit 2 - upper		25		32	Neutron/density	Oil Co Aust		
Darriwell 1	*				H	Willara sub-basin	Grant Unit 2 - lower		27.5		33	Neutron/density	Oil Co Aust		
Darriwell 1	*				H	Willara sub-basin	Grant Unit 1		27.5		32	Neutron/density	Oil Co Aust		
Darriwell 1	*				G?	Willara sub-basin	Pre-glacial Grant-unit		23.5		29	Neutron/density	Oil Co Aust		
* note: porosities quoted are average calculated values for lithostrat units listed - they are not measured at specific depths															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (KA) md	Perm. (Kh) md	Perm (Kv) md
Dodonea 2			959.095		nd	Barbwire Terr.	Mirbella Dolomite	6.7					WMC/Gearhart	0.062		
Dodonea 2			959.7		nd	Barbwire Terr.	Mirbella Dolomite	3.8					WMC/Gearhart	0.007		
Dodonea 2			960.15		nd	Barbwire Terr.	Mirbella Dolomite	7.6					WMC/Gearhart	0.45		
Dodonea 2			960.43		nd	Barbwire Terr.	Mirbella Dolomite	2.8					WMC/Gearhart	0.012		
Dodonea 2			960.7		nd	Barbwire Terr.	Mirbella Dolomite	6.4					WMC/Gearhart	0.04		
Dodonea 2			960.945		nd	Barbwire Terr.	Mirbella Dolomite	15.5					WMC/Gearhart	4.7		
Dodonea 2			961.14		nd	Barbwire Terr.	Mirbella Dolomite	8.8					WMC/Gearhart	0.164		
Dodonea 2			1595.17		nd	Barbwire Terr.	Nita Fm "main"	1.3					WMC/Gearhart	0.004		
Dodonea 2			1595.43		nd	Barbwire Terr.	Nita Fm "main"	0.9					WMC/Gearhart	0.013		
Dodonea 2			1595.8		nd	Barbwire Terr.	Nita Fm "main"	1.3					WMC/Gearhart	0.01		
Dodonea 2			1596.4		nd	Barbwire Terr.	Nita Fm "main"	1.8					WMC/Gearhart	0.024		
Dodonea 2			1597.51		nd	Barbwire Terr.	Nita Fm "main"	0.8					WMC/Gearhart	0.005		
Dodonea 2			1597.65		nd	Barbwire Terr.	Nita Fm "main"	3.6					WMC/Gearhart	0.003		
Dodonea 2			1598.48		nd	Barbwire Terr.	Nita Fm "main"	1.2					WMC/Gearhart	0.021		
Dodonea 2			1599.36		nd	Barbwire Terr.	Nita Fm "main"	4.4					WMC/Gearhart	1.1		
Dodonea 2			1599.66		nd	Barbwire Terr.	Nita Fm "main"	1.5					WMC/Gearhart	0.011		
Dodonea 2			1600.12		nd	Barbwire Terr.	Nita Fm "main"	1.4					WMC/Gearhart	0.019		
Dodonea 2			1600.38		nd	Barbwire Terr.	Nita Fm "main"	0.4					WMC/Gearhart	0.005		
Dodonea 2			1601.06		nd	Barbwire Terr.	Nita Fm "main"	1.5					WMC/Gearhart	0.03		
Dodonea 2			1601.4		nd	Barbwire Terr.	Nita Fm "main"	1.8					WMC/Gearhart	0.009		
Dodonea 2			1601.9		nd	Barbwire Terr.	Nita Fm "main"	0.5					WMC/Gearhart	0.014		
Dodonea 2			1602.07		nd	Barbwire Terr.	Nita Fm "main"	1.7					WMC/Gearhart	0.015		
Dodonea 2			1602.7		nd	Barbwire Terr.	Nita Fm "main"	0.3					WMC/Gearhart	0.007		
Dodonea 2			1603.23		nd	Barbwire Terr.	Nita Fm "main"	0.3					WMC/Gearhart	0.006		
Dodonea 2			1604.33		nd	Barbwire Terr.	Nita Fm "main"	0.4					WMC/Gearhart	0.007		
Dodonea 2			1605.4		nd	Barbwire Terr.	Nita Fm "lower"	0.4					WMC/Gearhart	0.001		
Dodonea 2			1607.52		nd	Barbwire Terr.	Nita Fm "lower"	1.7					WMC/Gearhart	0.008		
Dodonea 2			1609.53		nd	Barbwire Terr.	Nita Fm "lower"	0.7					WMC/Gearhart	0.006		
Dodonea 2			1610.35	1610.48	nd	Barbwire Terr.	Nita Fm "lower"	0.2					WMC/Gearhart	0.006		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (KA) md	Perm. (Kh) md	Perm (Kv) md
Dodonea 2			1611.68		nd	Barbwire Terr.	Nita Fm "lower"	1.3					WMC/Gearhart	0.007		
Dodonea 2			1614.08		nd	Barbwire Terr.	Nita Fm "lower"	0.8					WMC/Gearhart	0.005		
Dodonea 2			1615.06		nd	Barbwire Terr.	Goldwyer Fm	1.4					WMC/Gearhart	0.013		
Dodonea 2			1615.95		nd	Barbwire Terr.	Goldwyer Fm	1					WMC/Gearhart	0.015		
Dodonea 2			1616.32	1616.42	nd	Barbwire Terr.	Goldwyer Fm	0.4					WMC/Gearhart	0.009		
Dodonea 2			1617.21		nd	Barbwire Terr.	Goldwyer Fm	1.2					WMC/Gearhart	0.006		
Dodonea 2			1623.2	1623.42	nd	Barbwire Terr.	Goldwyer Fm	3.5					WMC/Gearhart	1.05		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Eremophila 1			*		nd	Barbwire Terr.	Pillara shoaling Dolo.		4.9	0.8	13.5	log/wcr	WMC			<.02	<.01	0.09
Eremophila 1			*		nd	Barbwire Terr.	Nullara Fm equiv.		8.1	2.6	15	log/wcr	WMC			<.5	<.01	3.8
note: values not measured at specific depths - average for stratigraphic interval listed																		

Well name	Depth top (feet)	Depth base (feet)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm Aver md	perm min md	perm max md
Ficus 1			*	nd	Barbwire Terr.	Fairfield Fm/Yellowdrum		23.9				WMC	601		
Ficus 1			*	nd	Barbwire Terr.	Nullara Fm equiv.		5.4	0.4	10.4		WMC	11.5	0.006	76
Ficus 1			*	nd	Barbwire Terr.	Pillara Shoaling Dolo.		6.1				WMC	0.012		
* depth not given, average value for stratigraphic unit															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm (md)	
Frankenstein 1			910.55		G	Tabletop Sh.	"Pre-Grant" unit	25.3				core plugs/wcr	amdel	179	
Frankenstein 1			911.6		G	Tabletop Sh.	"Pre-Grant" unit	10.4				core plugs/wcr	amdel	1.77	
Frankenstein 1			912.45		G	Tabletop Sh.	"Pre-Grant" unit	24.4				core plugs/wcr	amdel	91.2	
Frankenstein 1			913.55		G	Tabletop Sh.	"Pre-Grant" unit	13.3				core plugs/wcr	amdel	1.88	
Frankenstein 1			914.2		G	Tabletop Sh.	"Pre-Grant" unit	21.2				core plugs/wcr	amdel	1.21	
Frankenstein 1			915.1		G	Tabletop Sh.	"Pre-Grant" unit	12.7				core plugs/wcr	amdel	8.39	
Frankenstein 1			915.3		G	Tabletop Sh.	"Pre-Grant" unit	9.8				core plugs/wcr	amdel	<.001	
Frankenstein 1			915.55		G	Tabletop Sh.	"Pre-Grant" unit	9				core plugs/wcr	amdel	Fractured	
Frankenstein 1			915.9		G	Tabletop Sh.	"Pre-Grant" unit	10.1				core plugs/wcr	amdel	<.001	
Frankenstein 1			916.2		G	Tabletop Sh.	"Pre-Grant" unit	9.6				core plugs/wcr	amdel	0.085	
Frankenstein 1			916.5		G	Tabletop Sh.	"Pre-Grant" unit	11.2				core plugs/wcr	amdel	0.044	
Frankenstein 1			916.8		G	Tabletop Sh.	"Pre-Grant" unit	8.8				core plugs/wcr	amdel	<.001	
Frankenstein 1			917.1		G	Tabletop Sh.	"Pre-Grant" unit	10.3				core plugs/wcr	amdel	0.008	
Frankenstein 1			917.5		G	Tabletop Sh.	"Pre-Grant" unit	9				core plugs/wcr	amdel	<.001	
Frankenstein 1			917.72		G	Tabletop Sh.	"Pre-Grant" unit	10.9				core plugs/wcr	amdel	<.001	
Frankenstein 1			918		G	Tabletop Sh.	"Pre-Grant" unit	9.3				core plugs/wcr	amdel	<.001	
Frankenstein 1			918.3		G	Tabletop Sh.	"Pre-Grant" unit	4				core plugs/wcr	amdel	<.001	
Frankenstein 1			918.5		G	Tabletop Sh.	"Pre-Grant" unit	8.7				core plugs/wcr	amdel	<.001	
Frankenstein 1			918.92		G	Tabletop Sh.	"Pre-Grant" unit	9				core plugs/wcr	amdel	<.001	
Frankenstein 1			919.75		G	Tabletop Sh.	"Pre-Grant" unit	8.9				core plugs/wcr	amdel	<.001	
Frankenstein 1			920		G	Tabletop Sh.	"Pre-Grant" unit	5.4				core plugs/wcr	amdel	<.001	
Frankenstein 1			920.3		G	Tabletop Sh.	"Pre-Grant" unit	9.2				core plugs/wcr	amdel	<.001	
Frankenstein 1			920.55		G	Tabletop Sh.	"Pre-Grant" unit	8.4				core plugs/wcr	amdel	<.001	
Frankenstein 1			920.9		G	Tabletop Sh.	"Pre-Grant" unit	9.7				core plugs/wcr	amdel	<.001	
Frankenstein 1			921.2		G	Tabletop Sh.	"Pre-Grant" unit	10.3				core plugs/wcr	amdel	<.001	
Frankenstein 1			921.5		G	Tabletop Sh.	"Pre-Grant" unit	21.3				core plugs/wcr	amdel	14.8	
Frankenstein 1			921.8		G	Tabletop Sh.	"Pre-Grant" unit	18.9				core plugs/wcr	amdel	1.66	
Frankenstein 1			922.1		G	Tabletop Sh.	"Pre-Grant" unit	9.9				core plugs/wcr	amdel	<.001	

Frankenstein 1		922.5	G	Tabletop Sh.	"Pre-Grant" unit	14.6				core plugs/wcr	amdel	2.07	
Frankenstein 1		922.7	G	Tabletop Sh.	"Pre-Grant" unit	11.4				core plugs/wcr	amdel	0.007	
Frankenstein 1		923	G	Tabletop Sh.	"Pre-Grant" unit	8.8				core plugs/wcr	amdel	<.001	
Frankenstein 1		923.3	G	Tabletop Sh.	"Pre-Grant" unit	10.2				core plugs/wcr	amdel	<.001	
Frankenstein 1		923.5	G	Tabletop Sh.	"Pre-Grant" unit	9.1				core plugs/wcr	amdel	<.001	
Frankenstein 1		923.9	G	Tabletop Sh.	"Pre-Grant" unit	10.4				core plugs/wcr	amdel	<.001	
Frankenstein 1		924.2	G	Tabletop Sh.	"Pre-Grant" unit	8.9				core plugs/wcr	amdel	<.001	
Frankenstein 1		924.55	G	Tabletop Sh.	"Pre-Grant" unit	14.7				core plugs/wcr	amdel	5.34	
Frankenstein 1		924.8	G	Tabletop Sh.	"Pre-Grant" unit	11.9				core plugs/wcr	amdel	0.024	
Frankenstein 1		925.1	G	Tabletop Sh.	"Pre-Grant" unit	13.3				core plugs/wcr	amdel	0.022	
Frankenstein 1		925.5	G	Tabletop Sh.	"Pre-Grant" unit	13.9				core plugs/wcr	amdel	0.504	
Frankenstein 1		926.48	G	Tabletop Sh.	"Pre-Grant" unit	28.1				core plugs/wcr	amdel	151	
Frankenstein 1		927.5	G	Tabletop Sh.	"Pre-Grant" unit	18.6				core plugs/wcr	amdel	157	
Frankenstein 1		928.5	G	Tabletop Sh.	"Pre-Grant" unit	15.2				core plugs/wcr	amdel	190	
Frankenstein 1		929.5	G	Tabletop Sh.	"Pre-Grant" unit	22				core plugs/wcr	amdel	561	
Frankenstein 1		930.5	G	Tabletop Sh.	"Pre-Grant" unit	12				core plugs/wcr	amdel	0.622	
Frankenstein 1		931.45	G	Tabletop Sh.	"Pre-Grant" unit	25.8				core plugs/wcr	amdel	1478	
Frankenstein 1		932.5	G	Tabletop Sh.	"Pre-Grant" unit	17.9				core plugs/wcr	amdel	248	
Frankenstein 1		933.52	G	Tabletop Sh.	"Pre-Grant" unit	25.4				core plugs/wcr	amdel	625	
Frankenstein 1		934.5	G	Tabletop Sh.	"Pre-Grant" unit	24.8				core plugs/wcr	amdel	825	
Frankenstein 1		935.51	G	Tabletop Sh.	"Pre-Grant" unit	24.8				core plugs/wcr	amdel	778	
Frankenstein 1		936.5	G	Tabletop Sh.	"Pre-Grant" unit	24.1				core plugs/wcr	amdel	757	
Frankenstein 1		937.25	G	Tabletop Sh.	"Pre-Grant" unit	23.3				core plugs/wcr	amdel	863	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Frome Rocks 2	3701	3732				Fitzroy Trough	Devonian (upper unit)		~25			log interp	Schlumb		
Frome Rocks 2	3810	3860	1161.29	1176.53	E	Fitzroy Trough	Devonian (upper unit)		nil			wcr/ditch		nil	
Frome Rocks 2	4160	4189	1267.97	1276.81	E	Fitzroy Trough	Devonian (upper unit)		nil			wcr/ditch		nil	
Frome Rocks 2	4450	4470	1356.36	1362.46	E	Fitzroy Trough	Devonian (upper unit)		nil			wcr/ditch		nil	
Frome Rocks 2	4852	4861	1478.89	1481.63	E	Fitzroy Trough	Devonian (upper unit)		nil			wcr/ditch		nil	
Frome Rocks 2	5140	5200	1566.67	1584.96	E	Fitzroy Trough	Devonian (upper unit)		nil			wcr/ditch		nil	
Frome Rocks 2	5230	5240				Fitzroy Trough	Devonian (upper unit)		~10			log interp	Schlumb		
Frome Rocks 2	5480	5580	1670.3	1700.78	E	Fitzroy Trough	Devonian (upper unit)		nil			wcr/ditch		nil	
Frome Rocks 2	5610	5710	1709.93	1740.41	E	Fitzroy Trough	Devonian (upper unit)		nil			wcr/ditch		nil	
Frome Rocks 2	6040	6140	1840.99	1871.47	E	Fitzroy Trough	Devonian (upper unit)		nil			wcr/ditch		nil	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Gap Creek 1			24	237	H	Lennard shelf	Grant Fm		25	15	33	sonic	WCR		
Gap Creek 1			1392.5	1527.8	A1	Lennard shelf	Emanuel Fm		9			sonic	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Grant Range 1	*				nd	Fitzroy Trough	L Carb			8	10		Pet Sec/IEDC		
Grant Range 1	*				nd	Fitzroy Trough	L Carb			2	5		Pet Sec/IEDC		
Grant Range 1	*				nd	Fitzroy Trough	L Carb			2			Pet Sec/IEDC		
* values shown are averages calculated for different parts of the units - no depths are available															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Great Sandy 1				*	H	Broome Plat.	Grant		24	11	35	sonic	Meridian Oil		
Great Sandy 1				*	B	Broome Plat.	Carribuddy		11	6	17	neutron	Meridian Oil		
Great Sandy 1				*	A2	Broome Plat.	Nita		8.7	2	18		Meridian Oil		
Great Sandy 1				*	A2	Broome Plat.	Nita			7.8	13.6	core	Meridian Oil		
Great Sandy 1			1673	1700	A1	Broome Plat.	Willara- upper		14	9	23	sonic	Meridian Oil		
note: * value not measured at a specific depth, values are for stratigraphic unit as a whole															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Grevillea 1			32	1132	E	Margaret R Embay.	Nullara Fm (slope f)				10	Logs	WCR		
Grevillea 1			1132	1630	D	Margaret R Embay.	Pillara Fm (slope f)				<10	Logs	WCR		
Grevillea 1			1635	1642.5	D	Margaret R Embay.	Pillara Fm (talus & Bloherm)		0.5		5.7	Logs	WCR		
Grevillea 1			1642.5	1650	D	Margaret R Embay.	Pillara Fm (talus & Bloherm)					Logs	WCR		
Grevillea 1			1636	1642	D	Margaret R Embay.	Pillara Fm (talus & Bloherm)		4.5			Logs	WCR		
Grevillea 1			1837	1953	D	Margaret R Embay.	Pillara Fm (talus & Bloherm)		4		20	Logs	WCR		
Grevillea 1			2464	2559	A1	Margaret R Embay.	Emmanuel Fm		7.6		16.4	Logs	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Hakea 1			550	603.5	I	Fitzroy Trough	Poole Sandstone			19	25	Global	WCR		
Hakea 1			603.5	725	H	Fitzroy Trough	Grant Fm upper SS		19.5			Global	WCR		
Hakea 1			799	810	H	Fitzroy Trough	Grant Fm Middle SS		~8			Global	WCR		
Hakea 1			810	838	H	Fitzroy Trough	Grant Fm Middle SS			10	19	Global	WCR		
Hakea 1			838	840	H	Fitzroy Trough	Grant Fm Middle SS		7			Global	WCR		
Hakea 1			840	895.5	H	Fitzroy Trough	Grant Fm Middle SS			10	19	Global	WCR		
Hakea 1			825	840	H	Fitzroy Trough	Grant Fm Middle SS		12.4	20.3		core	WCR		
Hakea 1			899.5	954	H	Fitzroy Trough	Grant Fm Massive SS			0	12	logs	WCR		
Hakea 1			954	998	H	Fitzroy Trough	Grant Fm Massive SS			6	15	logs	WCR		
Hakea 1			998	1009	H	Fitzroy Trough	Grant Fm Massive SS			10	17	logs	WCR		
Hakea 1			1009	1035	H	Fitzroy Trough	Grant Fm Massive SS			nil	17	logs	WCR		
Hakea 1			1035	1039	H	Fitzroy Trough	Basal Grant		~2			logs	WCR		
Hakea 1			1039	1046	H	Fitzroy Trough	Basal Grant			8	16	logs	WCR		
Hakea 1			1046	1107	H	Fitzroy Trough	Basal Grant		~8	nil	12	logs	WCR		
Hakea 1			1107	1338.5	H	Fitzroy Trough	Preglacial upper			10	18	logs	WCR		
Hakea 1			1338.5	1476	H	Fitzroy Trough	Preglacial lower				11	logs	WCR		
Hakea 1			1398	1408	H	Fitzroy Trough	Preglacial lower		~8			logs	WCR		
Hakea 1			1424	1441	H	Fitzroy Trough	Preglacial lower		~8			logs	WCR		
Hakea 1			1458	1464	H	Fitzroy Trough	Preglacial lower		~8			logs	WCR		
Hakea 1				nd	F	Fitzroy Trough	Anderson Fm			<10	18	logs	WCR		
Hakea 1			1554	1558	F	Fitzroy Trough	Anderson Fm			13	16	logs	WCR		
Hakea 1			1565	1572	F	Fitzroy Trough	Anderson Fm			4	18	logs	WCR		
Hakea 1			1699		F	Fitzroy Trough	Laurel? Fm	2				SWC	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Hangover 1			770	806	I	Laurel Downs Terr.	Poole Sandstone		24			log/wcr	Home Energy		
Hangover 1			827	869	I	Laurel Downs Terr.	Poole Sandstone		20			log/wcr	Home Energy		
Hangover 1			893	906	H	Laurel Downs Terr.	Grant Fm		19			log/wcr	Home Energy		
Hangover 1			947	987	H	Laurel Downs Terr.	Grant Fm		21			log/wcr	Home Energy		
Hangover 1			1025	1110	H	Laurel Downs Terr.	Grant Fm		17			log/wcr	Home Energy		
Hangover 1			1210	1539	H	Laurel Downs Terr.	Grant Fm		14			log/wcr	Home Energy		
Hangover 1			1569	1606	F	Laurel Downs Terr.	Anderson Fm		14			log/wcr	Home Energy		
Hangover 1			1611	1630	F	Laurel Downs Terr.	Anderson Fm		14			log/wcr	Home Energy		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md	Perm. (Kh) md	Perm (Kv) md
Hedonia 1			16.7	116	L	Broome Plat.	Broome Sandstone			35	40	log	wcr/nd			
Hedonia 1			116	174	K	Broome Plat.	Jowlaenga Fm		high				wcr/nd			
Hedonia 1			174	234	K	Broome Plat.	Jariemai Siltstone		poor				wcr/nd			
Hedonia 1			243		K	Broome Plat.	argll. dol. sst		27			neutron-density	wcr/nd			
Hedonia 1			248		K	Broome Plat.	argll. dol. sst		41			neutron-density	wcr/nd			
Hedonia 1			293	323	K	Broome Plat.	Wallal Sandstone		35			log	wcr/nd			
Hedonia 1			344	488.5	K	Broome Plat.	Wallal Sandstone		42			log	wcr/nd			
Hedonia 1			488.5	608	H	Broome Plat.	Grant			10	42	log	wcr/nd			
Hedonia 1			608	795	H	Broome Plat.	Grant				34		wcr/nd			
Hedonia 1			795	915.5	H	Broome Plat.	Grant			5	27	log	wcr/nd			
Hedonia 1			935.65	939.6	A2	Broome Plat.	Goldwyer			2.7	3.9	core plugs	wcr/nd	<0.01		
Hedonia 1			1074.7	1081	A1	Broome Plat.	Willara Fm			0.3	0.4	core plugs	wcr/nd		<.01	
Hedonia 1			1289.5	1531	A0	Broome Plat.	Nambeet			2	10	log	wcr/nd			

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Hilltop 1			614.8	619.7	H	Broome Plat.	Grant		23			log anal/wcr	Bridge		
Hilltop 1			670.6	672.1	H	Broome Plat.	Grant		25			log anal/wcr	Bridge		
Hilltop 1			676.4		H	Broome Plat.	Grant		26			log anal/wcr	Bridge		
Hilltop 1			789.2	789.4	H	Broome Plat.	Grant		17			log anal/wcr	Bridge		
Hilltop 1			797.5	800.9	H	Broome Plat.	Grant		20			log anal/wcr	Bridge		
Hilltop 1			920.8	921	H	Broome Plat.	Grant		12			log anal/wcr	Bridge		
Hilltop 1			922.9	923.4	H	Broome Plat.	Grant		10			log anal/wcr	Bridge		
Hilltop 1			927.2	931.3	H	Broome Plat.	Grant		15			log anal/wcr	Bridge		
Hilltop 1			nd *		nd	Broome Plat.	Goldwyer		3.9			log anal/wcr	Bridge		
Hilltop 1			nd *		nd	Broome Plat.	Willara		2.7			log anal/wcr	Bridge		
Hilltop 1			nd *		nd	Broome Plat.	Nambeef		3.4			log anal/wcr	Bridge		
Hilltop 1			nd *		nd	Broome Plat.	Ordovician		poor			log anal/wcr	Bridge		
nd* average values from logs for strat unit															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md min.	Perm. md max.	Perm. (Kh) md	Perm (Kv) md
Janpam North 1			*		H	Laurel Downs Terr.	Permo-Carb/Poole SS		20			logs	WCR				
Janpam North 1			*		H	Laurel Downs Terr.	Permo-Carb/Grant Group		20			logs	WCR				
Janpam North 1			*		F	Laurel Downs Terr.	Laurel Fm			3	12	logs	WCR				
Janpam North 1			*		E	Laurel Downs Terr.	Yellow Drum Fm			4	18	logs	WCR				
Janpam North 1			*		E	Laurel Downs Terr.	Gumhole Fm			4	18	logs	WCR				
Janpam North 1			1662	1680	E	Laurel Downs Terr.	Nullara Fm	14				core	WCR	12	315		
Janpam North 1			*		D	Laurel Downs Terr.	Frasnian Clastics		10	0	15	logs	WCR				
* log derived values for stratigraphic units listed - not measured at specific depth																	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Katy 1			760	785	I	Laurel Downs terr.	Poole SS		18			global log/wcr	Home Energy		
Katy 1			794	800	I	Laurel Downs terr.	Poole SS		15			global log/wcr	Home Energy		
Katy 1			833	848	H	Laurel Downs terr.	Grant Fm		15			global log/wcr	Home Energy		
Katy 1			851	906	H	Laurel Downs terr.	Grant Fm		15			global log/wcr	Home Energy		
Katy 1			950	996	H	Laurel Downs terr.	Grant Fm		12			global log/wcr	Home Energy		
Katy 1			996	1088	H	Laurel Downs terr.	Grant Fm		14			global log/wcr	Home Energy		
Katy 1			1105	1230	H	Laurel Downs terr.	Grant Fm		13			global log/wcr	Home Energy		
Katy 1			1263	1474	H	Laurel Downs terr.	Grant Fm		11			global log/wcr	Home Energy		
Katy 1			1486	1503	H	Laurel Downs terr.	Grant Fm		12			global log/wcr	Home Energy		
Katy 1			1544	1564	H	Laurel Downs terr.	Grant Fm		10			global log/wcr	Home Energy		
Katy 1			1626	1728	G?	Laurel Downs terr.	L Grant?		9			global log/wcr	Home Energy		
Katy 1			1765	1778.5	G?	Laurel Downs terr.	L Grant?		9			global log/wcr	Home Energy		
Katy 1			1847	1858	F?	Laurel Downs terr.	? Anderson Fm		13			global log/wcr	Home Energy		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Kennedia 1			572.2	588	nd	Laurel Downs Terr.	Poole SS		11.2	6.8	23.9	log	WCR		
Kennedia 1			600.2	657.3	nd	Laurel Downs Terr.	Upper Grant mixed unit		16.7	7	24.8	log	WCR		
Kennedia 1			674.8	798.5	nd	Laurel Downs Terr.	Upper Grant massive SS		21.4	10.4	27.2	log	WCR		
Kennedia 1			799.6	843.5	nd	Laurel Downs Terr.	Upper Grant Monadnock		15.1	8	22.1	log	WCR		
Kennedia 1			973	999.2	nd	Laurel Downs Terr.	Upper Grant Basal SS		17.8	12.2	24.1	log	WCR		
Kennedia 1			1000.2	1027	nd	Laurel Downs Terr.	Upper Grant Basal SS		19.8	10.4	23.1	log	WCR		
Kennedia 1			1162.9	1195.9	nd	Laurel Downs Terr.	Lower Fairfield/Lululgui		16.7	8.3	23.1	log	WCR	30	
Kennedia 1			1616	1632	nd	Laurel Downs Terr.	Lower Fairfield/Clanmeyer		10.7	6	18.8	log	WCR		
Kennedia 1			1629.9		nd	Laurel Downs Terr.	Lower Fairfield/Clanmeyer		20.7			SWC	WCR	30	
Kennedia 1			2535	2552.5	nd	Laurel Downs Terr.	Fan System 3 (DST-1C)		9.5	4.7	24.3	log	WCR		
Kennedia 1			2655.5	2675	nd	Laurel Downs Terr.	Fan System 3 (DST-2)		7.2	4.5	11.7	log	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md	Aver. Perm. md
Kidson 1	5091		1551.74		H	Kidson s-basin	Grant Fm	21.3				core/wcr	Expl. Logging Aust	187	
Kidson 1	5099		1554.18		H	Kidson s-basin	Grant Fm	19.5				core/wcr	Expl. Logging Aust	48	
Kidson 1	5101		1554.78		H	Kidson s-basin	Grant Fm	19.7	19.5			core/wcr	Expl. Logging Aust	15	125
Kidson 1	5103		1555.39		H	Kidson s-basin	Grant Fm	17.6				core/wcr	Expl. Logging Aust	0	
Kidson 1	5301		1615.74		D	Kidson s-basin	Mellinjerle Fm	1.1				core/wcr	Expl. Logging Aust	0	
Kidson 1	5305		1616.96		D	Kidson s-basin	Mellinjerle Fm	1.1	1.1			core/wcr	Expl. Logging Aust	0	0
Kidson 1	5306		1617.27		D	Kidson s-basin	Mellinjerle Fm	1.2				core/wcr	Expl. Logging Aust	0	
Kidson 1	5870		1789.18		D	Kidson s-basin	Mellinjerle Fm	1.8				core/wcr	Expl. Logging Aust	0	
Kidson 1	5873		1790.09		D	Kidson s-basin	Mellinjerle Fm	2				core/wcr	Expl. Logging Aust	0	
Kidson 1	5875		1790.7		D	Kidson s-basin	Mellinjerle Fm	1.3				core/wcr	Expl. Logging Aust	0	
Kidson 1	5877		1791.31		D	Kidson s-basin	Mellinjerle Fm	0				core/wcr	Expl. Logging Aust	0	
Kidson 1	5878		1791.61		D	Kidson s-basin	Mellinjerle Fm	0.7				core/wcr	Expl. Logging Aust	0	
Kidson 1	6449		1965.66		D	Kidson s-basin	Tandalgoo Red Beds	23				core/wcr	Expl. Logging Aust	1800	
Kidson 1	6452		1966.57		D	Kidson s-basin	Tandalgoo Red Beds	8.6				core/wcr	Expl. Logging Aust	8	
Kidson 1	6465		1970.53		D	Kidson s-basin	Tandalgoo Red Beds	15				core/wcr	Expl. Logging Aust	730	
Kidson 1	6456		1967.79		D	Kidson s-basin	Tandalgoo Red Beds	18.4				core/wcr	Expl. Logging Aust	435	
Kidson 1	6459		1968.7		D	Kidson s-basin	Tandalgoo Red Beds	18.5				core/wcr	Expl. Logging Aust	460	
Kidson 1	7003		2134.51		D	Kidson s-basin	Tandalgoo Red Beds	20.5	12.6			core/wcr	Expl. Logging Aust	573	534
Kidson 1	7005		2135.12		D	Kidson s-basin	Tandalgoo Red Beds	21				core/wcr	Expl. Logging Aust	572	
Kidson 1	7012		2137.26		D	Kidson s-basin	Tandalgoo Red Beds	14.6				core/wcr	Expl. Logging Aust	437	
Kidson 1	7542		2298.8		C	Kidson s-basin	Tandalgoo Red Beds	10.7				core/wcr	Expl. Logging Aust	324	
Kidson 1	7527		2294.23		C	Kidson s-basin	Tandalgoo Red Beds	11.9				core/wcr	Expl. Logging Aust	260	
Kidson 1	7530		2295.14		C	Kidson s-basin	Tandalgoo Red Beds	9.8				core/wcr	Expl. Logging Aust	63	
Kidson 1	7531		2295.45		C	Kidson s-basin	Tandalgoo Red Beds	8.2				core/wcr	Expl. Logging Aust	8	
Kidson 1	8017		2443.58		C	Kidson s-basin	Tandalgoo Red Beds	11.7				core/wcr	Expl. Logging Aust	0	
Kidson 1	8019		2444.19		C	Kidson s-basin	Tandalgoo Red Beds	11.8				core/wcr	Expl. Logging Aust	0	
Kidson 1	8012		2442.06		C	Kidson s-basin	Tandalgoo Red Beds	11.4				core/wcr	Expl. Logging Aust	0	
Kidson 1	8023		2445.41		C	Kidson s-basin	Tandalgoo Red Beds	14.7				core/wcr	Expl. Logging Aust	0	
Kidson 1	8025		2446.02		C	Kidson s-basin	Tandalgoo Red Beds	13.5				core/wcr	Expl. Logging Aust	0	

Kidson 1	8559	2608.78	C	Kidson s-basin	Carribuddy Fm Unit A	1.4		core/wcr	Expl. Logging Aust	0	
Kidson 1	8564	2610.31	C	Kidson s-basin	Carribuddy Fm Unit A	1.1		core/wcr	Expl. Logging Aust	0	
Kidson 1	8567	2611.22	C	Kidson s-basin	Carribuddy Fm Unit A	0.7		core/wcr	Expl. Logging Aust	0	
Kidson 1	9085	2769.11	B2	Kidson s-basin	Carribuddy Fm Unit A	3.4	5.7	core/wcr	Expl. Logging Aust	0	0
Kidson 1	9090	2770.63	B2	Kidson s-basin	Carribuddy Fm Unit A	3.6		core/wcr	Expl. Logging Aust	0	
Kidson 1	9092	2771.24	B2	Kidson s-basin	Carribuddy Fm Unit A	3.6		core/wcr	Expl. Logging Aust	0	
Kidson 1	9612	2929.74	B2	Kidson s-basin	Carribuddy Fm Unit A	4.2		core/wcr	Expl. Logging Aust	0	
Kidson 1	9614	2930.35	B2	Kidson s-basin	Carribuddy Fm Unit A	6.2		core/wcr	Expl. Logging Aust	0	
Kidson 1	9617	2931.26	B2	Kidson s-basin	Carribuddy Fm Unit A	4.1		core/wcr	Expl. Logging Aust	0	
Kidson 1	10158	3096.16	B2	Kidson s-basin	Carribuddy Fm Unit B	0		core/wcr	Expl. Logging Aust	0	
Kidson 1	10165	3098.29	B2	Kidson s-basin	Carribuddy Fm Unit B	10.2	5.6	core/wcr	Expl. Logging Aust	0	0
Kidson 1	10751	3276.9	B2	Kidson s-basin	Carribuddy Fm Unit B	1.1		core/wcr	Expl. Logging Aust	0	
Kidson 1	11625	3543.3	B1	Kidson s-basin	Carribuddy Fm Unit C	2.8		core/wcr	Expl. Logging Aust	0	
Kidson 1	11628	3544.21	B1	Kidson s-basin	Carribuddy Fm Unit C	1.5		core/wcr	Expl. Logging Aust	0	
Kidson 1	11630	3544.82	B1	Kidson s-basin	Carribuddy Fm Unit C			core/wcr	Expl. Logging Aust	0	
Kidson 1	12277	3742.03	B1	Kidson s-basin	Carribuddy Fm Unit C	8.8	8	core/wcr	Expl. Logging Aust	0	0
Kidson 1	12281	3743.25	B1	Kidson s-basin	Carribuddy Fm Unit C	10		core/wcr	Expl. Logging Aust	0	
Kidson 1	12285	3744.47	B1	Kidson s-basin	Carribuddy Fm Unit C	9		core/wcr	Expl. Logging Aust	0	
Kidson 1	12678	3864.25	B1	Kidson s-basin	Carribuddy Fm Unit C	9.7		core/wcr	Expl. Logging Aust	0	
Kidson 1	12681	3865.17	B1	Kidson s-basin	Carribuddy Fm Unit C	9.8		core/wcr	Expl. Logging Aust	0	
Kidson 1	12684	3866.08	B1	Kidson s-basin	Carribuddy Fm Unit C	9.8		core/wcr	Expl. Logging Aust	0	
Kidson 1	12686	3866.69	B1	Kidson s-basin	Carribuddy Fm Unit C	9.1		core/wcr	Expl. Logging Aust	0	
Kidson 1	12688	3867.3	B1	Kidson s-basin	Carribuddy Fm Unit C	9.9		core/wcr	Expl. Logging Aust	0	
Kidson 1	13226	4031.28	A2	Kidson s-basin	Carribuddy Fm Unit D	3.6		core/wcr	Expl. Logging Aust	0	
Kidson 1	13231	4032.81	A2	Kidson s-basin	Carribuddy Fm Unit D	6.5		core/wcr	Expl. Logging Aust	0	
Kidson 1	13236	4034.33	A2	Kidson s-basin	Carribuddy Fm Unit D	3.7	3	core/wcr	Expl. Logging Aust	0	0
Kidson 1	13753	4191.91	A2	Kidson s-basin	Carribuddy Fm Unit E	0.67		core/wcr	Expl. Logging Aust	0	
Kidson 1	13756	4192.83	A2	Kidson s-basin	Carribuddy Fm Unit E	0.62		core/wcr	Expl. Logging Aust	0	
Kidson 1	14319	4364.43	A2	Kidson s-basin	Goldwyer Fm	0.9		core/wcr	Expl. Logging Aust	0	
Kidson 1	14328	4367.17	A2	Kidson s-basin	Goldwyer Fm	2.75	3	core/wcr	Expl. Logging Aust	0	0
Kidson 1	14331	4368.09	A2	Kidson s-basin	Goldwyer Fm	5.7		core/wcr	Expl. Logging Aust	0	
Kidson 1	14511	4422.95	A2	Kidson s-basin	Middle Equivalent	0.33		core/wcr	Expl. Logging Aust	0	
Kidson 1	14515	4424.17	A2	Kidson s-basin	Middle Equivalent	1.99	2	core/wcr	Expl. Logging Aust	0	0
Kidson 1	14526	4427.52	A2	Kidson s-basin	Middle Equivalent	3.42		core/wcr	Expl. Logging Aust	0	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Kilang Kilang 1			660		I	Gregory s-basin	Poole Fm		30			log/wcr	company rep.		
Kilang Kilang 1			740		H	Gregory s-basin	Carolyn Fm		28			log/wcr	company rep.		
Kilang Kilang 1			804		H	Gregory s-basin	Winfred Fm		23			log/wcr	company rep.		
Kilang Kilang 1			1008		H	Gregory s-basin	Betty Fm Upper		14			log/wcr	company rep.		
Kilang Kilang 1			1205		H	Gregory s-basin	Betty Fm Lower		13			log/wcr	company rep.		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Kunzea 1					A2	Barbwire Terr.	Nita Fm		10.2	5.4	18.7	log	wmc			5.25	0.011	28
Kunzea 1					A2	Barbwire Terr.	Nita Fm		4.6	0.07	7.8	log	wmc			0.042	0.005	0.17

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Lake Betty 1			677		nd	Gregory s-basin	Poole Fm		25			log/wcr	company rep.		
Lake Betty 1			765		nd	Gregory s-basin	Carolyn Fm		18			log/wcr	company rep.		
Lake Betty 1			1058		nd	Gregory s-basin	Betty Fm Upper		14			log/wcr	company rep.		
Lake Betty 1			1268		nd	Gregory s-basin	Betty Fm Lower		12			log/wcr	company rep.		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lihostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	qualative (vis) info. on porosity	type/ source	who/ lab	Perm. (Kmax) md	Av. Perm md	Perm. (Kh) md	Perm (Kv) md
Leo 1			907.00		H	Broome Platform	Grant					poor	swc (wcr)	Lehmann				
Leo 1			922.25		H	Broome Platform	Grant					poor	swc (wcr)	Lehmann				
Leo 1			1044.00		C	Broome Platform	Worral					mod (~20%)	swc (wcr)	Lehmann				
Leo 1			1528.50		B1	Broome Platform	Bongabinni					v poor	swc (wcr)	Lehmann				
Leo 1			1546.50		A2	Broome Platform	Nlita					none	swc (wcr)	Lehmann				
Leo 1			1558.50		A2	Broome Platform	Nlita					v poor	swc (wcr)	Lehmann				
Leo 1			1566.00	1575.6	A2	Broome Platform	Nlita (core 1 summary)		5.1	1.90	10.6		core (wcr)	amdel		0.46		
Leo 1			1566.15	1566.23	A2	Broome Platform	Nlita (core1)	3.30					core (wcr)	amdel	0.037			
Leo 1			1566.40	1566.52	A2	Broome Platform	Nlita (core1)	5.80					core (wcr)	amdel	0.068			
Leo 1			1567.12		A2	Broome Platform	Nlita (core1)	6.40					core (wcr)	amdel	0.191			
Leo 1			1567.40		A2	Broome Platform	Nlita (core1)	10.60					core (wcr)	amdel	0.111			
Leo 1			1567.46	1567.55	A2	Broome Platform	Nlita (core1)	11.30					core (wcr)	amdel	7.8			
Leo 1			1567.71		A2	Broome Platform	Nlita (core1)	6.40					core (wcr)	amdel	0.186			
Leo 1			1567.90		A2	Broome Platform	Nlita (core1)	9.20					core (wcr)	amdel	1.41			
Leo 1			1568.59		A2	Broome Platform	Nlita (core1)	5.50					core (wcr)	amdel	0.142			
Leo 1			1569.59	1569.68	A2	Broome Platform	Nlita (core1)	7.60					core (wcr)	amdel	4.6			
Leo 1			1570.17		A2	Broome Platform	Nlita (core1)	7.70					core (wcr)	amdel	0.099			
Leo 1			1570.34		A2	Broome Platform	Nlita (core1)	7.20					core (wcr)	amdel	0.657			
Leo 1			1570.47		A2	Broome Platform	Nlita (core1)	5.30					core (wcr)	amdel	0.676			
Leo 1			1570.56		A2	Broome Platform	Nlita (core1)	5.10					core (wcr)	amdel	0.318			
Leo 1			1571.06		A2	Broome Platform	Nlita (core1)	1.90					core (wcr)	amdel	1.19			
Leo 1			1571.56		A2	Broome Platform	Nlita (core1)	5.80					core (wcr)	amdel	0.333			
Leo 1			1571.75		A2	Broome Platform	Nlita (core1)	3.10					core (wcr)	amdel	0.09			
Leo 1			1571.90		A2	Broome Platform	Nlita (core1)	4.70					core (wcr)	amdel	0.594			
Leo 1			1572.15		A2	Broome Platform	Nlita (core1)	2.50					core (wcr)	amdel	0.009			
Leo 1			1572.31	1572.45	A2	Broome Platform	Nlita (core1)	10.00					core (wcr)	amdel	3.8			
Leo 1			1575.60	1589.8	A2	Broome Platform	Nlita (core 2 summary)		6.9	1.00	12.3		core (wcr)	amdel		1.90		
Leo 1			1575.90		A2	Broome Platform	Nlita (core 2)	1.00					core (wcr)	amdel	0.013			
Leo 1			1576.27		A2	Broome Platform	Nlita (core 2)	2.70					core (wcr)	amdel	0.014			
Leo 1			1577.80		A2	Broome Platform	Nlita (core 2)	8.30					core (wcr)	amdel	10.9			
Leo 1			1580.15		A2	Broome Platform	Nlita (core 2)	5.80					core (wcr)	amdel	0.058			
Leo 1			1581.08		A2	Broome Platform	Nlita (core 2)	7.30					core (wcr)	amdel	0.073			

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	qualative (vis) Info. on porosity	type/ source	who/ lab	Perm. (Kmax) md	Av. Perm md	Perm. (Kh) md	Perm (Kv) md
Leo 1			1582.35		A2	Broome Platform	Nita (core 2)	5.60					core (wcr)	amdel	0.132			
Leo 1			1583.05		A2	Broome Platform	Nita (core 2)	6.90					core (wcr)	amdel	0.344			
Leo 1			1583.35		A2	Broome Platform	Nita (core 2)	11.80					core (wcr)	amdel	0.675			
Leo 1			1583.55		A2	Broome Platform	Nita (core 2)	10.90					core (wcr)	amdel	6.65			
Leo 1			1583.81		A2	Broome Platform	Nita (core 2)	7.40					core (wcr)	amdel	0.964			
Leo 1			1584.10		A2	Broome Platform	Nita (core 2)	6.60					core (wcr)	amdel	0.854			
Leo 1			1584.44		A2	Broome Platform	Nita (core 2)	9.20					core (wcr)	amdel	3.19			
Leo 1			1584.69		A2	Broome Platform	Nita (core 2)	6.80					core (wcr)	amdel	0.081			
Leo 1			1584.90		A2	Broome Platform	Nita (core 2)	5.50					core (wcr)	amdel	3.81			
Leo 1			1585.20		A2	Broome Platform	Nita (core 2)	9.30					core (wcr)	amdel	0.383			
Leo 1			1585.54		A2	Broome Platform	Nita (core 2)	6.60					core (wcr)	amdel	5.97			
Leo 1			1585.90		A2	Broome Platform	Nita (core 2)	9.00					core (wcr)	amdel	5.34			
Leo 1			1586.15		A2	Broome Platform	Nita (core 2)	12.30					core (wcr)	amdel	1.02			
Leo 1			1586.34		A2	Broome Platform	Nita (core 2)	3.40					core (wcr)	amdel	0.423			
Leo 1			1586.64		A2	Broome Platform	Nita (core 2)	2.50					core (wcr)	amdel	0.011			
Leo 1			1586.93		A2	Broome Platform	Nita (core 2)	7.40					core (wcr)	amdel	0.025			
Leo 1			1587.12		A2	Broome Platform	Nita (core 2)	7.30					core (wcr)	amdel	13.1			
Leo 1			1587.36		A2	Broome Platform	Nita (core 2)	8.70					core (wcr)	amdel	0.058			
Leo 1			1587.60		A2	Broome Platform	Nita (core 2)	2.70					core (wcr)	amdel	0.009			
Leo 1			1600.50		A2	Broome Platform	Nita					v poor	swc (wcr)	Lehmann				
Leo 1			1603.50		A2	Broome Platform	Nita					v poor	swc (wcr)	Lehmann				
Leo 1			1957.00		A2	Broome Platform	Goldwyer					none	core (wcr)	Lehman				
Leo 1			1988.00		A1	Broome Platform	Willara					none	swc (wcr)	Lehmann				

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md
Lloyd 1			927.80	940.5	H	Laurel Downs Terr.	Grant Fm		19.7			core/Home	wcr	
Lloyd 1			1512.30		F	Laurel Downs Terr.	Anderson Fm	12.9				core/Home	wcr	11
Lloyd 1			1512.30	1529.59	F	Laurel Downs Terr.	Anderson Fm		18.7	12.9	21.6	core/Home	wcr	227
Lloyd 1			1512.50	1529.3	F	Laurel Downs Terr.	Anderson Fm		16.7			core/Home	wcr	
Lloyd 1			1512.70		F	Laurel Downs Terr.	Anderson Fm	16.3				core/Home	wcr	85
Lloyd 1			1513.10		F	Laurel Downs Terr.	Anderson Fm	19				core/Home	wcr	162
Lloyd 1			1513.50		F	Laurel Downs Terr.	Anderson Fm	18.6				core/Home	wcr	246
Lloyd 1			1516.20		F	Laurel Downs Terr.	Anderson Fm	18.4				core/Home	wcr	133
Lloyd 1			1516.50		F	Laurel Downs Terr.	Anderson Fm	19				core/Home	wcr	132
Lloyd 1			1517.00		F	Laurel Downs Terr.	Anderson Fm	20.5				core/Home	wcr	124
Lloyd 1			1517.50		F	Laurel Downs Terr.	Anderson Fm	18.9				core/Home	wcr	187
Lloyd 1			1518.00		F	Laurel Downs Terr.	Anderson Fm	19.5				core/Home	wcr	148
Lloyd 1			1518.50		F	Laurel Downs Terr.	Anderson Fm	21.6				core/Home	wcr	429
Lloyd 1			1519.00		F	Laurel Downs Terr.	Anderson Fm	19.5				core/Home	wcr	340
Lloyd 1			1519.50		F	Laurel Downs Terr.	Anderson Fm	20.7				core/Home	wcr	549
Lloyd 1			1520.00		F	Laurel Downs Terr.	Anderson Fm	20.3				core/Home	wcr	418
Lloyd 1			1520.50		F	Laurel Downs Terr.	Anderson Fm	18.7				core/Home	wcr	246
Lloyd 1			1521.00		F	Laurel Downs Terr.	Anderson Fm	18.9				core/Home	wcr	252
Lloyd 1			1521.50		F	Laurel Downs Terr.	Anderson Fm	18				core/Home	wcr	266
Lloyd 1			1522.00		F	Laurel Downs Terr.	Anderson Fm	19.3				core/Home	wcr	772
Lloyd 1			1522.50		F	Laurel Downs Terr.	Anderson Fm	16				core/Home	wcr	105
Lloyd 1			1523.00		F	Laurel Downs Terr.	Anderson Fm	19				core/Home	wcr	302
Lloyd 1			1523.50		F	Laurel Downs Terr.	Anderson Fm	16.4				core/Home	wcr	126
Lloyd 1			1524.00		F	Laurel Downs Terr.	Anderson Fm	19.7				core/Home	wcr	182
Lloyd 1			1524.50		F	Laurel Downs Terr.	Anderson Fm	19.1				core/Home	wcr	128
Lloyd 1			1525.00		F	Laurel Downs Terr.	Anderson Fm	19.3				core/Home	wcr	457
Lloyd 1			1525.50		F	Laurel Downs Terr.	Anderson Fm	16.3				core/Home	wcr	33
Lloyd 1			1526.00		F	Laurel Downs Terr.	Anderson Fm	19.7				core/Home	wcr	302
Lloyd 1			1526.50		F	Laurel Downs Terr.	Anderson Fm	19.2				core/Home	wcr	147
Lloyd 1			1527.00		F	Laurel Downs Terr.	Anderson Fm	18.7				core/Home	wcr	138
Lloyd 1			1527.50		F	Laurel Downs Terr.	Anderson Fm	18.1				core/Home	wcr	51
Lloyd 1			1528.00		F	Laurel Downs Terr.	Anderson Fm	17.6				core/Home	wcr	29
Lloyd 1			1528.50		F	Laurel Downs Terr.	Anderson Fm	19.8				core/Home	wcr	138
Lloyd 1			1529.00		F	Laurel Downs Terr.	Anderson Fm	19.8				core/Home	wcr	286
Lloyd 1			1529.30	1534	F	Laurel Downs Terr.	Anderson Fm		6.6			core/Home	wcr	
Lloyd 1			1529.50		F	Laurel Downs Terr.	Anderson Fm	15.5				core/Home	wcr	2.2
Lloyd 1			1540.00	1547	F	Laurel Downs Terr.	Anderson Fm		6			core/Home	wcr	
Lloyd 1			1771.00	1773	F	Laurel Downs Terr.	Laurel Fm		8.9			core/Home	wcr	
Lloyd 1			1855.00	1859	F	Laurel Downs Terr.	Yellow Drum Fm		8.9			core/Home	wcr	



Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md Aver.	Perm. md Min.	Perm. md Max.	Perm. (Kh) md	Perm (Kv) md
Lloyd 2			*		I	Laurel Downs Terr.	Poole Sst	20				log	wcr					
Lloyd 2			*		H	Laurel Downs Terr.	Grant Group	20				log	wcr					
Lloyd 2			*		F	Laurel Downs Terr.	Anderson Fm			10	20	log	wcr					
Lloyd 2			*		F	Laurel Downs Terr.	Anderson Fm		14	6.3	28.2	core	wcr	468	1	1200		
* average value for stratigraphic unit, not measurement at specific depth																		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab
Lukins 1			306	341	I	Laurel Downs Terrace	Poole			31	40	log/wcr	Home Energy
Lukins 1			351	372	H	Laurel Downs Terrace	Poole			24	39	log/wcr	Home Energy
Lukins 1			411	552	H	Laurel Downs Terrace	Grant			21	29	log/wcr	Home Energy
Lukins 1			649	666	H	Laurel Downs Terrace	Grant			26	29	log/wcr	Home Energy
Lukins 1			674	679	F	Laurel Downs Terrace	Laurel			21	24	log/wcr	Home Energy
Lukins 1			760	775	F	Laurel Downs Terrace	Laurel			1	5	log/wcr	Home Energy
Lukins 1		*			F	Laurel Downs Terrace	Laurel Fm sands			21	24	log/wcr	Home Energy
Lukins 1		*			F	Laurel Downs Terrace	Laurel Fm limestones			1	5	log/wcr	Home Energy
Lukins 1			819	827	E	Laurel Downs Terrace	Yellow Drum Fm			9	23	log/wcr	Home Energy
Lukins 1			934	939	E	Laurel Downs Terrace	Gumhole			1	6	log/wcr	Home Energy
Lukins 1			1024	1033	E	Laurel Downs Terrace	Gumhole			0	5	log/wcr	Home Energy
Lukins 1			1456	1650	E	Laurel Downs Terrace	Lower Nullara Eq.			0	1	log/wcr	Home Energy
* average value for stratigraphic unit													

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Mariana 1			684	688	I	Laurel Downs Terrace	Poole		24.4	24	26	log/wcr	Home		
Mariana 1			726	740	H	Laurel Downs Terrace	Grant		25.8	22	28.5	log/wcr	Home		
Mariana 1			748	753	H	Laurel Downs Terrace	Grant		26.2	25	28	log/wcr	Home		
Mariana 1			786	972	H	Laurel Downs Terrace	Grant		25	22.5	28	log/wcr	Home		
Mariana 1			1000	1162	H	Laurel Downs Terrace	Grant		21	15.5	27	log/wcr	Home		
Mariana 1			1237	1263	F	Laurel Downs Terrace	Laurel		4	1.5	9	log/wcr	Home		
Mariana 1			1371	1385	F	Laurel Downs Terrace	Yellow Drum		16.6	4.5	23	log/wcr	Home		
Mariana 1			1480	1484	D	Laurel Downs Terrace	Gumhole		19.5	19	20	log/wcr	Home		
Mariana 1			1616	1624	D	Laurel Downs Terrace	Nullara		11.3	6	20.5	log/wcr	Home		
Mariana 1			1637	1646	D	Laurel Downs Terrace	Nullara		5.2	1.5	9	log/wcr	Home		
Mariana 1			1649	1660	D	Laurel Downs Terrace	Nullara		7.7	3	13	log/wcr	Home		
Mariana 1			1676	1679	D	Laurel Downs Terrace	Nullara		4.6	2.5	6	log/wcr	Home		
Mariana 1			1686	1690	D	Laurel Downs Terrace	Nullara		5.5	3	9	log/wcr	Home		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (min) md	Perm (max) md
May River 1	4145	4175	1263.40		F	Laurel Downs Terrace	Farifield Fm/U Dev			5	21	core 1	Wapet	0	47
May River 1	4425	4485	1348.74		F	Laurel Downs Terrace	Farifield Fm/U Dev			5.6	15.8	core 2	Wapet	0	146
May River 1	4685	4712	1427.99		F	Laurel Downs Terrace	Farifield Fm/U Dev			13.5	18.7	core 3	Wapet	0	31
May River 1	4712	4742	1436.22		E	Laurel Downs Terrace	Farifield Fm/U Dev			11.3	20	core 4	Wapet	0	263
May River 1	4930	4985	1502.66		E	Laurel Downs Terrace	Farifield Fm/U Dev			3.8	8.3	core 5	Wapet	0	0
May River 1	5180	5240	1578.86		E	Laurel Downs Terrace	Farifield Fm/U Dev			3.3	20.5	core 6	Wapet	0	0
May River 1	5434	5451	1656.28		bmnt	Laurel Downs Terrace	Farifield Fm/U Dev			0	0	core 7	Wapet	0	0
May River 1	*					Laurel Downs Terrace	Farifield Fm/U Dev			10	18	log	Pet Sec/IEDC		
note * average value for stratigraphic unit listed, not a measured value at a specific depth.															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Mellany 1			*		nd	Laurel Downs Terrace	Poole sst			20	25	log/wcr	Home		
Mellany 1			*		nd	Laurel Downs Terrace	Grant Gp. sst			20	25	log/wcr	Home		
Mellany 1			*		nd	Laurel Downs Terrace	Laurel Fm		3.6	2	13.5	log/wcr	Home		
Mellany 1			*		nd	Laurel Downs Terrace	Yellow Drum Fm			6	22	log/wcr	Home		
Mellany 1			*		nd	Laurel Downs Terrace	Frasnian Carbonate		3	2	8	log/wcr	Home		
* values are for stratigraphic units shown, they are not measurements at a specific depth															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md (min).	Perm. md (max).
Moogana 1			*		I	Moogana Terrace	Poole Sandstone		17			log	wcr/Eso		
Moogana 1			*		H	Moogana Terrace	Grant Fm		21		30	log	wcr/Eso		
Moogana 1			*		G?	Moogana Terrace	Unnamed Unit		19			log	wcr/Eso		
Moogana 1			*		F	Moogana Terrace	Anderson Fm		15		18	log	wcr/Eso		
Moogana 1			*		E	Moogana Terrace	Devonian Limestone			<2.5		log	wcr/Eso		
Moogana 1			*		E	Moogana Terrace	Devonian Limestone			0.6	1.1	core	wcr/Eso	0.1	0.4
* values are for stratigraphic units, they are not measured values at a specific depth															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Mount Hardman 1			370		nd	Fitzroy Trough	Poole Sst			27	37	log anal	wcr/wapet		
Mount Hardman 1			413	687	nd	Fitzroy Trough	Grant			27	37	log anal	wcr/wapet		
Mount Hardman 1			687	1068	nd	Fitzroy Trough	Grant			15	18	log anal	wcr/wapet		
Mount Hardman 1			1250	1270	nd	Fitzroy Trough	Laurel			6	10	log anal	wcr/wapet		
Mount Hardman 1			1597	1665	nd	Fitzroy Trough	Laurel			10	15	log anal	wcr/wapet		
Mount Hardman 1			2128	2197	nd	Fitzroy Trough	Laurel		9			log anal	wcr/wapet		
Mount Hardman 1			2965	2978	nd	Fitzroy Trough	Lululgul			5	9	log anal	wcr/wapet		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Munro 1	3650	3820	1112.52	1164.34	H	Willara sub-basin	Cuncudgerle		21	11	31	log anal	WCR/nd		
Munro 1	4220	4350	1286.26	1325.88	B	Willara sub-basin	Carribuddy		24.5	16	33		WCR/nd		
Munro 1	4910	5020	1496.57	1530.1	A2	Willara sub-basin	Nita		6	1	11		WCR/nd		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Musca 1			*		H	Broome Plat	Grant Fm A			20	26	WCR	nd	good	
Musca 1			938.5	941.5	B	Broome Plat	Carrilbuddy Fm Unit A			12	15	WCR	nd		
* note: average value for unit, not value at specific depth															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min %	por. max %	Density-Neutron Porosity	Sonic por.	Lnst. Neutron Porosity	type/ source	who/ lab	Perm. (Kh) md
Nita Downs 1			1109		C	Broome Plat.	Grant					28	27		log	WCR	
Nita Downs 1			1111		C	Broome Plat.	Grant					31	32		log	WCR	
Nita Downs 1			1127.5		C	Broome Plat.	Grant					28	26		log	WCR	
Nita Downs 1			1254		B2	Broome Plat.	Carribuddy Fm					0			log	WCR	
Nita Downs 1			1281		B1	Broome Plat.	Carribuddy Fm					17	27		log	WCR	
Nita Downs 1			1290		B1	Broome Plat.	Carribuddy Fm					14	22		log	WCR	
Nita Downs 1			1296		B1	Broome Plat.	Carribuddy Fm					12	22		log	WCR	
Nita Downs 1			1300		B1	Broome Plat.	Carribuddy Fm					13	23		log	WCR	
Nita Downs 1			1310		B1	Broome Plat.	Carribuddy Fm					13	21		log	WCR	
Nita Downs 1			1314		B1	Broome Plat.	Carribuddy Fm					14	22		log	WCR	
Nita Downs 1			1322		B1	Broome Plat.	Carribuddy Fm					16	28		log	WCR	
Nita Downs 1			1330		B1	Broome Plat.	Carribuddy Fm					15	31		log	WCR	
Nita Downs 1			1333.4		B1	Broome Plat.	Carribuddy Fm		6.8						core (WCR)	WCR	<0.1
Nita Downs 1			1333.6		B1	Broome Plat.	Carribuddy Fm		6.4						core (WCR)	WCR	0.86
Nita Downs 1			1335		B1	Broome Plat.	Carribuddy Fm		7.7						core (WCR)	WCR	<0.1
Nita Downs 1			1335		B1	Broome Plat.	Carribuddy Fm					12	20		log	WCR	
Nita Downs 1			1336.1		B1	Broome Plat.	Carribuddy Fm		8.2						core (WCR)	WCR	<0.1
Nita Downs 1			1337		B1	Broome Plat.	Carribuddy Fm		8.2						core (WCR)	WCR	<0.1
Nita Downs 1			1337.6		B1	Broome Plat.	Carribuddy Fm		8.9						core (WCR)	WCR	0.58
Nita Downs 1			1337.9		B1	Broome Plat.	Carribuddy Fm		8.4						core (WCR)	WCR	<0.1
Nita Downs 1			1338.9		B1	Broome Plat.	Carribuddy Fm		8.3						core (WCR)	WCR	<0.1
Nita Downs 1			1339.9		B1	Broome Plat.	Carribuddy Fm		8.6						core (WCR)	WCR	<0.1
Nita Downs 1			1340		B1	Broome Plat.	Carribuddy Fm					11	20		log	WCR	
Nita Downs 1			1342		B1	Broome Plat.	Carribuddy Fm		7.8						core (WCR)	WCR	0.52
Nita Downs 1			1343		B1	Broome Plat.	Carribuddy Fm					10	18		log	WCR	
Nita Downs 1			1349		B1	Broome Plat.	Carribuddy Fm					13	20		log	WCR	
Nita Downs 1			1351		B1	Broome Plat.	Carribuddy Fm					16	29		log	WCR	
Nita Downs 1			1360		B1	Broome Plat.	Carribuddy Fm					12	20		log	WCR	
Nita Downs 1			1361		B1	Broome Plat.	Carribuddy Fm					12	20		log	WCR	
Nita Downs 1			1366.5		B1	Broome Plat.	Carribuddy Fm					13	19		log	WCR	
Nita Downs 1			1370		B1	Broome Plat.	Carribuddy Fm					15	23		log	WCR	
Nita Downs 1			1427		B1	Broome Plat.	Carribuddy Fm					4	15		log	WCR	
Nita Downs 1			1440		B1	Broome Plat.	Nita Fm					15	16		log	WCR	
Nita Downs 1			1446.5		B1	Broome Plat.	Nita Fm					0	7		log	WCR	
Nita Downs 1			1458		B1	Broome Plat.	Nita Fm					0	11		log	WCR	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min %	por. max %	Density-Neutron Porosity	Sonic por.	Lnst. Neutron Porosity	type/ source	who/ lab	Perm. (Kh) md
Nita Downs 1			1466		B1	Broome Plat.	Nita Fm					20	23		log	WCR	
Nita Downs 1			1470		B1	Broome Plat.	Nita Fm					20	23		log	WCR	
Nita Downs 1			1481		B1	Broome Plat.	Nita Fm					11	14		log	WCR	
Nita Downs 1			1484		B1	Broome Plat.	Nita Fm					5	12		log	WCR	
Nita Downs 1			1487		B1	Broome Plat.	Nita Fm					3	8		log	WCR	
Nita Downs 1			1489		B1	Broome Plat.	Nita Fm					3	12		log	WCR	
Nita Downs 1			1493		B1	Broome Plat.	Nita Fm					2	6		log	WCR	
Nita Downs 1			1495		B1	Broome Plat.	Nita Fm					8	20		log	WCR	
Nita Downs 1			1508.5		B1	Broome Plat.	Nita Fm					11	16		log	WCR	
Nita Downs 1			1522	1522.1	A2	Broome Plat.	Nita Fm		13.4						core (WCR)	WCR	1.9
Nita Downs 1			1522		A2	Broome Plat.	Nita Fm					8	15		log	WCR	
Nita Downs 1			1522.11	1522.17	A2	Broome Plat.	Nita Fm		9.7						core (WCR)	WCR	fracture
Nita Downs 1			1522.3	1522.4	A2	Broome Plat.	Nita Fm		10.7						core (WCR)	WCR	0.6
Nita Downs 1			1522.5	1522.6	A2	Broome Plat.	Nita Fm		10.1						core (WCR)	WCR	1.1
Nita Downs 1			1522.9	1523	A2	Broome Plat.	Nita Fm		9.7						core (WCR)	WCR	<0.1
Nita Downs 1			1523.3	1523.4	A2	Broome Plat.	Nita Fm		8.8						core (WCR)	WCR	<0.1
Nita Downs 1			1523.6	1523.7	A2	Broome Plat.	Nita Fm		11						core (WCR)	WCR	<0.1
Nita Downs 1			1523.8	1523.9	A2	Broome Plat.	Nita Fm		10.4						core (WCR)	WCR	0.2
Nita Downs 1			1524		A2	Broome Plat.	Nita Fm					8	13		log	WCR	
Nita Downs 1			1524.1	1524.1	A2	Broome Plat.	Nita Fm		9.3						core (WCR)	WCR	0.1
Nita Downs 1			1524.2	1524.36	A2	Broome Plat.	Nita Fm		8.4						core (WCR)	WCR	253
Nita Downs 1			1524.4	1524.4	A2	Broome Plat.	Nita Fm		8.7						core (WCR)	WCR	<0.1
Nita Downs 1			1524.7	1524.7	A2	Broome Plat.	Nita Fm		9.3						core (WCR)	WCR	1.1
Nita Downs 1			1524.9	1525	A2	Broome Plat.	Nita Fm		8.5						core (WCR)	WCR	<0.1
Nita Downs 1			1525.2	1525.3	A2	Broome Plat.	Nita Fm		9.2						core (WCR)	WCR	0.1
Nita Downs 1			1525.3	1525.5	A2	Broome Plat.	Nita Fm		9.2						core (WCR)	WCR	52
Nita Downs 1			1525.6	1525.6	A2	Broome Plat.	Nita Fm		8.2						core (WCR)	WCR	<0.1
Nita Downs 1			1525.8	1525.9	A2	Broome Plat.	Nita Fm		8.5						core (WCR)	WCR	0.1
Nita Downs 1			1526		A2	Broome Plat.	Nita Fm					6	12		log	WCR	
Nita Downs 1			1526.15	1526.5	A2	Broome Plat.	Nita Fm		7.1						core (WCR)	WCR	5
Nita Downs 1			1526.3	1526.3	A2	Broome Plat.	Nita Fm		8.9						core (WCR)	WCR	0.6
Nita Downs 1			1526.6	1526.6	A2	Broome Plat.	Nita Fm		9.6						core (WCR)	WCR	2.3
Nita Downs 1			1526.8	1526.9	A2	Broome Plat.	Nita Fm		9.2						core (WCR)	WCR	2.3
Nita Downs 1			1527.3	1527.3	A2	Broome Plat.	Nita Fm		7.1						core (WCR)	WCR	0.2
Nita Downs 1			1527.5		A2	Broome Plat.	Nita Fm					9	12		log	WCR	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min %	por. max %	Density- Neutron Porosity	Sonic por.	Lnst. Neutron Porosity	type/ source	who/ lab	Perm. (Kh) md
Nita Downs 1			1527.6	1527.6	A2	Broome Plat.	Nita Fm		8.4						core (WCR)	WCR	1.3
Nita Downs 1			1527.8	1527.92	A2	Broome Plat.	Nita Fm		10.2						core (WCR)	WCR	422
Nita Downs 1			1527.9	1528	A2	Broome Plat.	Nita Fm		4.6						core (WCR)	WCR	0.5
Nita Downs 1			1528.3	1528.3	A2	Broome Plat.	Nita Fm		11.4						core (WCR)	WCR	0.4
Nita Downs 1			1528.6	1528.6	A2	Broome Plat.	Nita Fm		10.1						core (WCR)	WCR	0.3
Nita Downs 1			1528.8	1528.9	A2	Broome Plat.	Nita Fm		8.8						core (WCR)	WCR	0.1
Nita Downs 1			1529	1529.12	A2	Broome Plat.	Nita Fm		9.2						core (WCR)	WCR	72
Nita Downs 1			1529.2	1529.2	A2	Broome Plat.	Nita Fm		9.4						core (WCR)	WCR	0.1
Nita Downs 1			1529.5	1529.6	A2	Broome Plat.	Nita Fm		9.5						core (WCR)	WCR	0.1
Nita Downs 1			1529.9	1530	A2	Broome Plat.	Nita Fm		7.9						core (WCR)	WCR	1.8
Nita Downs 1			1529.93	1530.07	A2	Broome Plat.	Nita Fm		7.7						core (WCR)	WCR	11
Nita Downs 1			1530.3	1530.3	A2	Broome Plat.	Nita Fm		6.7						core (WCR)	WCR	0.1
Nita Downs 1			1530.6	1530.6	A2	Broome Plat.	Nita Fm		7.9						core (WCR)	WCR	<0.1
Nita Downs 1			1530.9	1531	A2	Broome Plat.	Nita Fm		9.7						core (WCR)	WCR	<0.1
Nita Downs 1			1531.17	1531.3	A2	Broome Plat.	Nita Fm		7.4						core (WCR)	WCR	4
Nita Downs 1			1531.3	1531.3	A2	Broome Plat.	Nita Fm		12.3						core (WCR)	WCR	1.3
Nita Downs 1			1531.6	1531.6	A2	Broome Plat.	Nita Fm		7.5						core (WCR)	WCR	0.7
Nita Downs 1			1532	1532.1	A2	Broome Plat.	Nita Fm		7.4						core (WCR)	WCR	0.4
Nita Downs 1			1532.2	1532.3	A2	Broome Plat.	Nita Fm		6.4						core (WCR)	WCR	0.3
Nita Downs 1			1532.25	1532.37	A2	Broome Plat.	Nita Fm		12.1						core (WCR)	WCR	2680
Nita Downs 1			1532.5	1532.5	A2	Broome Plat.	Nita Fm		8.1						core (WCR)	WCR	0.8
Nita Downs 1			1532.8	1532.9	A2	Broome Plat.	Nita Fm		11.4						core (WCR)	WCR	1.2
Nita Downs 1			1533		A2	Broome Plat.	Nita Fm						7	8	log	WCR	
Nita Downs 1			1533.2	1533.2	A2	Broome Plat.	Nita Fm		5.8						core (WCR)	WCR	0.2
Nita Downs 1			1533.5	1533.5	A2	Broome Plat.	Nita Fm		4.5						core (WCR)	WCR	40.4
Nita Downs 1			1533.8	1533.8	A2	Broome Plat.	Nita Fm		2.3						core (WCR)	WCR	<0.1
Nita Downs 1			1534	1534.1	A2	Broome Plat.	Nita Fm		3.8						core (WCR)	WCR	<0.1
Nita Downs 1			1534.3	1534.3	A2	Broome Plat.	Nita Fm		4.6						core (WCR)	WCR	0.3
Nita Downs 1			1534.6	1534.6	A2	Broome Plat.	Nita Fm		5.4						core (WCR)	WCR	0.7
Nita Downs 1			1534.9	1535	A2	Broome Plat.	Nita Fm		5.7						core (WCR)	WCR	2.6
Nita Downs 1			1535.2	1535.3	A2	Broome Plat.	Nita Fm		7.8						core (WCR)	WCR	10.4
Nita Downs 1			1535.5	1535.6	A2	Broome Plat.	Nita Fm		6.1						core (WCR)	WCR	23.7
Nita Downs 1			1535.9	1536	A2	Broome Plat.	Nita Fm		8						core (WCR)	WCR	1.5
Nita Downs 1			1536		A2	Broome Plat.	Nita Fm					4.6	16		log	WCR	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min %	por. max %	Density-Neutron Porosity	Sonic por.	Lnst. Neutron Porosity	type/ source	who/ lab	Perm. (Kh) md
Nita Downs 1			1536.2	1536.2	A2	Broome Plat.	Nita Fm		3.6						core (WCR)	WCR	0.5
Nita Downs 1			1536.5	1536.5	A2	Broome Plat.	Nita Fm		6.4						core (WCR)	WCR	<0.1
Nita Downs 1			1536.8	1536.9	A2	Broome Plat.	Nita Fm		3.4						core (WCR)	WCR	<0.1
Nita Downs 1			1537.2	1537.2	A2	Broome Plat.	Nita Fm		4.6						core (WCR)	WCR	<0.1
Nita Downs 1			1537.5	1537.5	A2	Broome Plat.	Nita Fm		3.5						core (WCR)	WCR	<0.1
Nita Downs 1			1537.5		A2	Broome Plat.	Nita Fm					4.5	8		log	WCR	
Nita Downs 1			1537.8	1537.8	A2	Broome Plat.	Nita Fm		3.2						core (WCR)	WCR	<0.1
Nita Downs 1			1538.2	1538.3	A2	Broome Plat.	Nita Fm		0.8						core (WCR)	WCR	<0.1
Nita Downs 1			1538.5	1538.5	A2	Broome Plat.	Nita Fm		4.5						core (WCR)	WCR	<0.1
Nita Downs 1			1538.8	1538.8	A2	Broome Plat.	Nita Fm		2.3						core (WCR)	WCR	<0.1
Nita Downs 1			1539.1	1539.1	A2	Broome Plat.	Nita Fm		3.3						core (WCR)	WCR	<0.1
Nita Downs 1			1539.4	1539.5	A2	Broome Plat.	Nita Fm		2						core (WCR)	WCR	<0.1
Nita Downs 1			1539.9	1540	A2	Broome Plat.	Nita Fm		1.9						core (WCR)	WCR	<0.1
Nita Downs 1			1541.6	1541.6	A2	Broome Plat.	Nita Fm		8						core (WCR)	WCR	<0.1
Nita Downs 1			1542		A2	Broome Plat.	Nita Fm					6	10		log	WCR	
Nita Downs 1			1542.5	1542.5	A2	Broome Plat.	Nita Fm		11.2						core (WCR)	WCR	0.3
Nita Downs 1			1546		A2	Broome Plat.	Nita Fm					9	12		log	WCR	
Nita Downs 1			1546.5	1546.5	A2	Broome Plat.	Nita Fm		8.5						core (WCR)	WCR	<0.1
Nita Downs 1			1549.5	1549.5	A2	Broome Plat.	Nita Fm		7						core (WCR)	WCR	0.8
Nita Downs 1			1549.5		A2	Broome Plat.	Nita Fm					5	8		log	WCR	
Nita Downs 1			1555.5	1555.5	A2	Broome Plat.	Nita Fm		8.4						core (WCR)	WCR	0.1
Nita Downs 1			1556.5	1556.5	A2	Broome Plat.	Nita Fm		6.4						core (WCR)	WCR	<0.1
Nita Downs 1			1567		A2	Broome Plat.	Goldwyer Fm					5	12		log	WCR	
Nita Downs 1			1625		A2	Broome Plat.	Goldwyer Fm					8	22		log	WCR	
Nita Downs 1			1628		A2	Broome Plat.	Goldwyer Fm					7	14		log	WCR	
Nita Downs 1			1640		A2	Broome Plat.	Goldwyer Fm					5	16		log	WCR	
Nita Downs 1			1647.5		A2	Broome Plat.	Goldwyer Fm					6	10		log	WCR	
Nita Downs 1			1651		A2	Broome Plat.	Goldwyer Fm					4	14		log	WCR	
Nita Downs 1			1685		A2	Broome Plat.	Goldwyer Fm					4	16	9	log	WCR	
Nita Downs 1			1694		A2	Broome Plat.	Goldwyer Fm					0	18		log	WCR	
Nita Downs 1			1696		A2	Broome Plat.	Goldwyer Fm					0	21	1	log	WCR	
Nita Downs 1			1701		A2	Broome Plat.	Goldwyer Fm					0	18	2	log	WCR	
Nita Downs 1			- 1705		A2	Broome Plat.	Goldwyer Fm					0	16	2	log	WCR	
Nita Downs 1			1707		A2	Broome Plat.	Goldwyer Fm					0	12	1	log	WCR	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min %	por. max %	Density- Neutron Porosity	Sonic por.	Lnst. Neutron Porosity	type/ source	who/ lab	Perm. (Kh) md
Nita Downs 1			1710		A2	Broome Plat.	Goldwyer Fm					0	13	13	log	WCR	
Nita Downs 1			1714		A2	Broome Plat.	Goldwyer Fm					0	18	0	log	WCR	
Nita Downs 1			1716		A2	Broome Plat.	Goldwyer Fm					0	18	0	log	WCR	
Nita Downs 1			1723.5		A2	Broome Plat.	Goldwyer Fm					6.5	16	14	log	WCR	
Nita Downs 1			1728.5		A2	Broome Plat.	Goldwyer Fm					5	8	12	log	WCR	
Nita Downs 1			1738.5		A2	Broome Plat.	Goldwyer Fm					0	23	2	log	WCR	
Nita Downs 1			1745		A2	Broome Plat.	Goldwyer Fm					7	12	15	log	WCR	
Nita Downs 1			1750		A2	Broome Plat.	Goldwyer Fm					3	14	9	log	WCR	
Nita Downs 1			1753		A2	Broome Plat.	Goldwyer Fm					9	10	12	log	WCR	
Nita Downs 1			1760		A2	Broome Plat.	Goldwyer Fm					6	4	12	log	WCR	
Nita Downs 1			1762.5		A2	Broome Plat.	Goldwyer Fm					9	20	9	log	WCR	
Nita Downs 1			1764.5		A2	Broome Plat.	Goldwyer Fm					5	16	7	log	WCR	
Nita Downs 1			1767		A2	Broome Plat.	Goldwyer Fm					11	23	13	log	WCR	
Nita Downs 1			1769		A2	Broome Plat.	Goldwyer Fm					15	23	13	log	WCR	
Nita Downs 1			1774		A2	Broome Plat.	Goldwyer Fm					7	16	7	log	WCR	
Nita Downs 1			1775.5		A2	Broome Plat.	Goldwyer Fm					4	8	6	log	WCR	
Nita Downs 1			1780		A2	Broome Plat.	Goldwyer Fm					1	10	5	log	WCR	
Nita Downs 1			1791		A2	Broome Plat.	Goldwyer Fm					7	16	17	log	WCR	
Nita Downs 1			1792.5		A2	Broome Plat.	Goldwyer Fm					16.5	23	21	log	WCR	
Nita Downs 1			1794		A2	Broome Plat.	Goldwyer Fm					11.5	20	15	log	WCR	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Notabills 1			435.5	681.5	H	E Jurgurra Terrace	Grant Fm C Member			23	36	log Interp	wcr/bridge		
Notabills 1			681.5	744	H	E Jurgurra Terrace	Grant Fm B Member			25	31.5	log Interp	wcr/bridge		
Notabills 1			744	767	H	E Jurgurra Terrace	Grant Fm A Member			25	30	log Interp	wcr/bridge		
Notabills 1			767	803	H	E Jurgurra Terrace	Lower Grant Fm			11	27	log Interp	wcr/bridge		
Notabills 1			802	855	E	E Jurgurra Terrace	Fairfield Group				14	log Interp	wcr/bridge		
Notabills 1			2120	2491	E	E Jurgurra Terrace	Virgin Hills Fm				12	log Interp	wcr/bridge		
Notabills 1			2161.5	2207	E	E Jurgurra Terrace	Virgin Hills Fm				12	log Interp	wcr/bridge		
Notabills 1			2309	2606	E	E Jurgurra Terrace	Virgin Hills Fm				7.5	log Interp	wcr/bridge		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Olios 1			270		I	Balgo Terrace	Poole Fm		30			log	SOC rep		
Olios 1			307		H	Balgo Terrace	Carolyn Fm		31			log	SOC rep		
Olios 1			370		H	Balgo Terrace	Winifred Fm		31			log	SOC rep		
Olios 1			768		H	Balgo Terrace	Betty Fm Lower		20			log	SOC rep		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md	Perm. md min.	Perm. md max.
Orange Pool 1			967.1	976.3	F	Laurel Downs Terrace	Laurel			1.8	9.5	core	wcr			nil	1.4
Orange Pool 1			967.1	976.3	F	Laurel Downs Terrace	Laurel			0.9	1.7	core	wcr			nil	nil
Orange Pool 1			1078.4	1087.6	F	Laurel Downs Terrace	Yellow Drum Equiv.			5.1	28.4	core	wcr			nil	4.7
Orange Pool 1			1078.4	1087.6	F	Laurel Downs Terrace	Yellow Drum Equiv.			7.2	25.5	core	wcr			nil	11

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md	Perm Aver md	perm min md	perm max md
Pandorea 1			1903.7	2008.4	D	Barbwire Terr.	Boab Sandstone		6	1	13.2	core/wcr	WMC		5	0.004	42

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md
Percival 1			2026.63		A2	Barbwire Terr	Nlita Fm	0.9				core/wcr	wmc	0.01
Percival 1			2031.25		A2	Barbwire Terr	Nlita Fm	0.8				core/wcr	wmc	0.01
Percival 1			2041.13		A2	Barbwire Terr	Goldwyer Fm	1.2				core/wcr	wmc	0
Percival 1			2043.90		A2	Barbwire Terr	Goldwyer Fm	1.8				core/wcr	wmc	0.1
Percival 1			2044.05		A2	Barbwire Terr	Goldwyer Fm	2				core/wcr	wmc	0
Percival 1			2044.12		A2	Barbwire Terr	Goldwyer Fm	2.4				core/wcr	wmc	0.01
Percival 1			2045.58		A2	Barbwire Terr	Goldwyer Fm	1.3				core/wcr	wmc	0
Percival 1			2050.99		A2	Barbwire Terr	Goldwyer Fm	1.2				core/wcr	wmc	0
Percival 1			2053.45		A2	Barbwire Terr	Goldwyer Fm	0.8				core/wcr	wmc	0.02
Percival 1			2060.17		A2	Barbwire Terr	Goldwyer Fm	2.3				core/wcr	wmc	0
Percival 1			2063.40		A2	Barbwire Terr	Goldwyer Fm	1.2				core/wcr	wmc	0.3
Percival 1			2064.19		A2	Barbwire Terr	Goldwyer Fm	1.9				core/wcr	wmc	0
* note: log values shown below are averages for stratigraphic units listed														
Percival 1			*		~E	Barbwire Terr	Nullara Lst equiv		5			log/wcr	wmc	
Percival 1			*		~D	Barbwire Terr	Pillara Lst Equiv		15			log/wcr	wmc	
Percival 1			*		~D	Barbwire Terr	Boab Sst (lower)		21			log/wcr	wmc	
Percival 1			*		~C	Barbwire Terr	Tandagoo Sst		27			log/wcr	wmc	
Percival 1			*		~C	Barbwire Terr	Elsa sst		20			log/wcr	wmc	
Percival 1			*		~A2	Barbwire Terr	Nlita Dolomite		2			log/wcr	wmc	
Percival 1			*		~A2	Barbwire Terr	Goldwyer Fm		2			log/wcr	wmc	
Percival 1			*		~A1	Barbwire Terr	Willara Fm (sst near base)		15			log/wcr	wmc	
Percival 1			*		~AO	Barbwire Terr	Nambeet Fm (upper part)		15			log/wcr	wmc	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Philydrum 1			535	582	I	Laurel Downs Terr.	Poole Sst			18	34	log	wcr		
Philydrum 1			535	582	I	Laurel Downs Terr.	Poole Sst			nil	34.1	log	wcr		
Philydrum 1			535	582	I	Laurel Downs Terr.	Nura Nura mem		12		17	log	wcr		
Philydrum 1			582	728	H	Laurel Downs Terr.	Grant Fm (upper)		19	nil	23	log	wcr		
Philydrum 1			728	850	H	Laurel Downs Terr.	Grant Fm (upper)		17	0	25	log	wcr		
Philydrum 1			850	889	H	Laurel Downs Terr.	Grant Fm (upper)		11	nil	18	log	wcr		
Philydrum 1			889	974	H	Laurel Downs Terr.	Grant Fm (upper)		11	nil	17	log	wcr		
Philydrum 1			974	980	H	Laurel Downs Terr.	Grant Fm (upper)		13	10	15	log	wcr		
Philydrum 1			982	986	H	Laurel Downs Terr.	Grant Fm (upper)		13	10	14	log	wcr		
Philydrum 1			1011	1014.5	H	Laurel Downs Terr.	Grant Fm (upper)		15	12	18	log	wcr		
Philydrum 1			1015	1063.5	H	Laurel Downs Terr.	Grant Fm (upper)			nil	16	log	wcr		
Philydrum 1			1040		H	Laurel Downs Terr.	Grant Fm (upper)		14			log	wcr		
Philydrum 1			1040		H	Laurel Downs Terr.	Grant Fm (upper)		11			log	wcr		
Philydrum 1			1063.5	1166	H	Laurel Downs Terr.	Grant Fm (upper)		12	nil	14	log	wcr		
Philydrum 1			1166	1204	H	Laurel Downs Terr.	Grant Fm (upper)		12	nil	16	log	wcr		
Philydrum 1			1204	1289	G	Laurel Downs Terr.	Grant Fm (lower)		14	nil	18	log	wcr		
Philydrum 1			1232	1237	G	Laurel Downs Terr.	Grant Fm (lower)			11	18	log	wcr		
Philydrum 1			1258	1289	G	Laurel Downs Terr.	Grant Fm (lower)			12	18	log	wcr		
Philydrum 1			1289	1377	F	Laurel Downs Terr.	Anderson Fm		12	nil	15	log	wcr		
Philydrum 1			1377	1520	F	Laurel Downs Terr.	Laurel Fm (Undliff)		<5	nil	12.5	log	wcr		
Philydrum 1			1520	1608	E	Laurel Downs Terr.	Luluigui & Cianmeyer Fms		<5	nil	17	log	wcr		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Pictor 1			274	298	H	Dampler Terr.	Permian Grant A sand			20	30	log	WCR		
Pictor 1			357	385	H	Dampler Terr.	Tillite sand			30	40	log	WCR		
Pictor 1			385	498	D	Dampler Terr.	Pillara dolomite		12	8	18	log	WCR		
Pictor 1			530	574	C	Dampler Terr.	Tandalgoo sand		32	25	35	log	WCR		
Pictor 1			879	1041	B1	Dampler Terr.	Nita Fm		9.1		16.2	log	WCR		
Pictor 1			913.9	914.9	B1	Dampler Terr.	Nita Fm		11			log	WCR		
Pictor 1			938.2	938.9	B1	Dampler Terr.	Nita Fm		12.4			log	WCR		
Pictor 1			938.9		B1	Dampler Terr.	Nita Fm	17.3				core	WCR/Corelabs	0.6	
Pictor 1			939.9	941.5	B1	Dampler Terr.	Nita Fm		13.2			log	WCR		
Pictor 1			940		B1	Dampler Terr.	Nita Fm	3.4				core	WCR/Corelabs	0.03	
Pictor 1			941.8		B1	Dampler Terr.	Nita Fm	20.1				core	WCR/Corelabs	4.7	
Pictor 1			942.5		B1	Dampler Terr.	Nita Fm	14.5				core	WCR/Corelabs	1.4	
Pictor 1			942.7	944	B1	Dampler Terr.	Nita Fm		10.7			log	WCR		
Pictor 1			943.7		B1	Dampler Terr.	Nita Fm	11.3				core	WCR/Corelabs	0.4	
Pictor 1			944	945.6	B1	Dampler Terr.	Nita Fm		11.9			log	WCR		
Pictor 1			945.4		B1	Dampler Terr.	Nita Fm	15.7				core	WCR/Corelabs	0.22	
Pictor 1			947.9	948.2	B1	Dampler Terr.	Nita Fm		10			log	WCR		
Pictor 1			948.4		B1	Dampler Terr.	Nita Fm	10.8				core	WCR/Corelabs	0.41	
Pictor 1			950.2	950.8	B1	Dampler Terr.	Nita Fm		11.7			log	WCR		
Pictor 1			950.7		B1	Dampler Terr.	Nita Fm	7.9				core	WCR/Corelabs	0.19	
Pictor 1			951.2		B1	Dampler Terr.	Nita Fm	9.5				core	WCR/Corelabs	0.3	
Pictor 1			952		B1	Dampler Terr.	Nita Fm	5.5				core	WCR/Corelabs	0.71	
Pictor 1			958.1	958.7	B1	Dampler Terr.	Nita Fm		10.1			log	WCR		
Pictor 1			961.9	962.9	B1	Dampler Terr.	Nita Fm		9.8			log	WCR		
Pictor 1			965.5	965.9	B1	Dampler Terr.	Nita Fm		12.4			log	WCR		
Pictor 1			1415	1932	A2/A1	Dampler Terr.	Willara		8.2		14	log	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md	Perm Aver md	perm min md	perm max md
Santalum 1A			423.35		A2	Barbwire Terr.	Nita Formation	9.6				core	wmc rep	7.01				
Santalum 1A			424.35		A2	Barbwire Terr.	Nita Formation	10.5				core	wmc rep	22				
Santalum 1A			427.22		A2	Barbwire Terr.	Nita Formation	9				core	wmc rep	10.6				
Santalum 1A			429.01		A2	Barbwire Terr.	Nita Formation	12.3				core	wmc rep	33				
Santalum 1A			432.15		A2	Barbwire Terr.	Nita Formation	11.2				core	wmc rep	12				
Santalum 1A			434.95		A2	Barbwire Terr.	Nita Formation	10.8				core	wmc rep	7.8				
Santalum 1A			438.38		A2	Barbwire Terr.	Nita Formation	16.2				core	wmc rep	32				
Santalum 1A			440.97		A2	Barbwire Terr.	Nita Formation	16.1				core	wmc rep	12.2				

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md	Perm Aver md	perm min md	perm max md
Solanum 1			*		A2/B1	Barbwire Terr	Nita Fm (transitional)		8	2.9	13	log	WMC rep		0.752	0.007	2.9
Solanum 1			*		A2	Barbwire Terr	Nita Fm (main unit)		7.2	3.7	18.4	log	WMC rep		3.79	0.007	29
Solanum 1			614	627	A1	Barbwire Terr	Acacia Sand (upper)		14.43	14.7	16.8	log	WMC rep		11	1.6	20
Solanum 1			640	642	A1	Barbwire Terr	Acacia Sand (mld)		8.9	6.1	10.4	log	WMC rep		4.5	0.017	13
Solanum 1			693	719	A1	Barbwire Terr	Acacia Sand (lower)		16.5	8.4	19.8	log	WMC rep		60	25	106
Solanum 1			699.32		A1	Barbwire Terr	Acacia Sand (lower)	15.4				SEM	WMC rep	50			
* note: values are for stratigraphic unit indicated, they are not individual values measured at a specific depth																	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Sundown 1			898.5		H	Laurel Downs Terr	Grant Fm (A)	18.3				SWC	WCR		
Sundown 1			901.5		H	Laurel Downs Terr	Grant Fm (A)	21.6				SWC	WCR		
Sundown 1			904.9		H	Laurel Downs Terr	Grant Fm (A)	23.2				SWC	WCR		
Sundown 1			908.5		H	Laurel Downs Terr	Grant Fm (A)	21.1				SWC	WCR		
Sundown 1			1001.5		H	Laurel Downs Terr	Grant Fm (B)	9.3				SWC	WCR		
Sundown 1			1093.4		H	Laurel Downs Terr	Grant Fm (B)	16.4				SWC	WCR		
Sundown 1			1093.5		H	Laurel Downs Terr	Grant Fm (B)	16.4				SWC	WCR		
Sundown 1			1097.5		H	Laurel Downs Terr	Grant Fm (B)	19.4				SWC	WCR		
Sundown 1			1102.5		H	Laurel Downs Terr	Grant Fm (B)	19.3				SWC	WCR		
Sundown 1			1239		H	Laurel Downs Terr	Grant Fm (C)	8.8				SWC	WCR		
Sundown 1			1241		H	Laurel Downs Terr	Grant Fm (C)	17				SWC	WCR		
Sundown 1			1349.5		G	Laurel Downs Terr	Grant Fm (C)	8.4				SWC	WCR		
Sundown 1			1488.5		F	Laurel Downs Terr	Anderson Fm	12.8				SWC	WCR		
Sundown 1			1492.5		F	Laurel Downs Terr	Anderson Fm	12.7				SWC	WCR		
Sundown 1			1498.5		F	Laurel Downs Terr	Anderson Fm	13.5				SWC	WCR		
Sundown 1			1527.5		F	Laurel Downs Terr	Anderson Fm	14.2				SWC	WCR		
Sundown 1			1529		F	Laurel Downs Terr	Anderson Fm	13.6				SWC	WCR		
Sundown 1			1548.25		F	Laurel Downs Terr	Anderson Fm	13.2				SWC	WCR		
Sundown 1			1595		F	Laurel Downs Terr	Anderson Fm	8.3				SWC	WCR		
Sundown 1			1608		F	Laurel Downs Terr	Anderson Fm	13				SWC	WCR		
Sundown 1			1610		F	Laurel Downs Terr	Anderson Fm	13.9				SWC	WCR		
Sundown 1			1616		F	Laurel Downs Terr	Anderson Fm	14				SWC	WCR		
Sundown 1			1622		F	Laurel Downs Terr	Anderson Fm	12.8				SWC	WCR		
Sundown 1			1629.5		F	Laurel Downs Terr	Anderson Fm	14.2				SWC	WCR		
Sundown 1			1654.5		F	Laurel Downs Terr	Anderson Fm	13.2				SWC	WCR		
Sundown 1			1661.5		F	Laurel Downs Terr	Anderson Fm	14.3				SWC	WCR		
Sundown 1			1674.5		F	Laurel Downs Terr	Anderson Fm	13.4				SWC	WCR		
Sundown 1			1677.5		F	Laurel Downs Terr	Anderson Fm	12.2				SWC	WCR		
Sundown 1			1706		F	Laurel Downs Terr	Anderson Fm	9.9				SWC	WCR		
Sundown 1			1714.75		F	Laurel Downs Terr	Anderson Fm	12.3				SWC	WCR		
Sundown 1			1716.5		F	Laurel Downs Terr	Anderson Fm	12.2				SWC	WCR		
Sundown 1			1718		F	Laurel Downs Terr	Anderson Fm	13.4				SWC	WCR		
Sundown 1			1726.5		F	Laurel Downs Terr	Anderson Fm	10.3				SWC	WCR		
Sundown 1			1965		F	Laurel Downs Terr	Laurel Fm	17.4				SWC	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Sunup 1			817	856	I	Laurel Downs Terr	Poole			16	21	log	WCR		
Sunup 1			910	980	H	Laurel Downs Terr	Grant			15	22	log	WCR		
Sunup 1			1017	1033	H	Laurel Downs Terr	Grant			19	22	log	WCR		
Sunup 1			1117	1153	H	Laurel Downs Terr	Grant			15	18	log	WCR		
Sunup 1			1315	1370	H	Laurel Downs Terr	Grant			9	18	log	WCR		
Sunup 1			1383	1490	H	Laurel Downs Terr	Grant			8	15	log	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Tappers Inlet 1	2290	2300	697.99	701.04	nd	Moogana Terr.	Noonkanbah Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	2500	2520	762.00	768.10	nd	Moogana Terr.	Noonkanbah Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	2700	2720	822.96	829.06	nd	Moogana Terr.	Noonkanbah Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	2980	3000	908.30	914.40	nd	Moogana Terr.	Noonkanbah Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	4000	4020	1219.20	1225.30	nd	Moogana Terr.	Grant Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	4390	4410	1338.07	1344.17	nd	Moogana Terr.	Grant Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	4950	4970	1508.76	1514.86	nd	Moogana Terr.	Grant Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	6050	6060	1844.04	1847.09	nd	Moogana Terr.	Pillara Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	6100	6120	1859.28	1865.38	nd	Moogana Terr.	Pillara Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	6420	6430	1956.82	1959.86	nd	Moogana Terr.	Pillara Fm					cuttings	WA Centre Pet Expl		
Tappers Inlet 1	6505	6620	1982.72	2017.78	nd	Moogana Terr.	Pillara Fm		20			log	wcr/wapet	66	
Tappers Inlet 1	8161	8310	2487.47	2532.89	nd	Moogana Terr.	(sst) in Pillara Fm			7	11	log	wcr/wapet		
Tappers Inlet 1	8900	9300	2712.72	2834.64	nd	Moogana Terr.	Nambeet Fm		2			log	wcr/wapet		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Terrace 1			827	836	I	Laurel Downs Terr	Poole Fm			23.5	25	log	WCR		
Terrace 1			877	891	I	Laurel Downs Terr	Poole Fm			19.5	22.5	log	WCR		
Terrace 1			931	951	H	Laurel Downs Terr	Grant Fm			21.5	24.5	log	WCR		
Terrace 1			934.2		H	Laurel Downs Terr	Grant Fm	22.1				Core #1	WCR	288	
Terrace 1			934.5		H	Laurel Downs Terr	Grant Fm	21.8				Core #1	WCR	197	
Terrace 1			934.8		H	Laurel Downs Terr	Grant Fm	21.2				Core #1	WCR	116	
Terrace 1			935.1		H	Laurel Downs Terr	Grant Fm	21.5				Core #1	WCR	194	
Terrace 1			935.4		H	Laurel Downs Terr	Grant Fm	19.7				Core #1	WCR	34	
Terrace 1			935.7		H	Laurel Downs Terr	Grant Fm	22				Core #1	WCR	274	
Terrace 1			936		H	Laurel Downs Terr	Grant Fm	15.6				Core #1	WCR	1.6	
Terrace 1			936.3		H	Laurel Downs Terr	Grant Fm	23				Core #1	WCR	298	
Terrace 1			960	1124	H	Laurel Downs Terr	Grant Fm			22	23.5	log	WCR		
Terrace 1			1169	1391	H	Laurel Downs Terr	Grant Fm			19.5	23	log	WCR		
Terrace 1			1457	1535	G	Laurel Downs Terr	Grant Fm			17.5	19.5	log	WCR		
Terrace 1			1535	1564	F	Laurel Downs Terr	Anderson Fm			20.5	22.5	log	WCR		
Terrace 1			1576	1599	F	Laurel Downs Terr	Anderson Fm			19.5	20.5	log	WCR		
Terrace 1			1854.4		F	Laurel Downs Terr	Laurel Fm (low carb)	5.2				Core #2	WCR	0.02	
Terrace 1			1855.3		F	Laurel Downs Terr	Laurel Fm (low carb)	7.8				Core #2	WCR	0.2	
Terrace 1			1855.4		F	Laurel Downs Terr	Laurel Fm (low carb)	10.1				Core #2	WCR	0.6	
Terrace 1			1857.2		F	Laurel Downs Terr	Laurel Fm (low carb)	8.4				Core #2	WCR	0.4	
Terrace 1			1858.2		F	Laurel Downs Terr	Laurel Fm (low carb)	4.9				Core #2	WCR	0.02	
Terrace 1			1859			Laurel Downs Terr	Laurel Fm (low carb)	2.1				Core #2	WCR	0.01	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat name	por. spot %	por. av. %	por. min. %	por. max. %	Neut por. (pu)	Sonic por. (pu)	Neut Dens por. (pu)	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Vela 1			0	302	K	Broome Plat/Willara sb.	Wallal Fm		33						log/wcr	Getty oil		
Vela 1			385	488	H	Broome Plat/Willara sb.	Grant "A"		16						log/wcr	Getty oil		
Vela 1			488	659	H	Broome Plat/Willara sb.	Grant "A"				26	35			log/wcr	Getty oil		
Vela 1			659	691	C/?G	Broome Plat/Willara sb.	Tandalgoo		25						log/wcr	Getty oil		
Vela 1			1800	1802	A2	Broome Plat./Willara sb.	Nita Formation		2.5	3	2	3	2	2.5	log/wcr	Getty oil		
Vela 1			1805	1806	A2	Broome Plat/Willara sb.	Nita Formation		2.5	1	4	4	1	3.2	log/wcr	Getty oil		
Vela 1			1811	1812	A2	Broome Plat/Willara sb.	Nita Formation		3.55	2.1	5	4	5	2.1	log/wcr	Getty oil		
Vela 1			1813	1815	A2	Broome Plat/Willara sb.	Nita Formation		1.5	1	2	2	1	1.6	log/wcr	Getty oil		
Vela 1			1819	1820	A2	Broome Plat/Willara sb.	Nita Formation		2	1	3	3	1	2.2	log/wcr	Getty oil		
Vela 1			1824	1825	A2	Broome Plat/Willara sb.	Nita Formation		6.45	4.4	8.5	6	8.5	4.4	log/wcr	Getty oil		
Vela 1			1830	1831	A2	Broome Plat/Willara sb.	Nita Formation		1.75	1.5	2	2	2	1.5	log/wcr	Getty oil		
Vela 1			1839	1840	A2	Broome Plat/Willara sb.	Nita Formation		1.5	1	2	2	1	1.5	log/wcr	Getty oil		
Vela 1			1845	1847	A2	Broome Plat/Willara sb.	Nita Formation		3.6	2.2	5	3	5	2.2	log/wcr	Getty oil		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
West Blackstone 1			826	830	I	Laurel Downs Terr	Poole Fm			21	27	log	WCR		
West Blackstone 1			866	875	H	Laurel Downs Terr	Grant Fm			19	25	log	WCR		
West Blackstone 1			883	921	H	Laurel Downs Terr	Grant Fm			21	23	log	WCR		
West Blackstone 1			1150	1220	H	Laurel Downs Terr	Grant Fm			15	22	log	WCR		
West Blackstone 1			1240	1410	H	Laurel Downs Terr	Grant Fm			13	20	log	WCR		
West Blackstone 1			1418	1443	H	Laurel Downs Terr	Grant Fm			4	17	log	WCR		
West Blackstone 1			1460	1489	H	Laurel Downs Terr	Grant Fm			2	17	log	WCR		
West Blackstone 1			1549	1552	F	Laurel Downs Terr	Laurel Fm				2	log	WCR		
West Blackstone 1			1611	1618	F	Laurel Downs Terr	YellowDrum Fm			1	7	log	WCR		
West Blackstone 1			1621	1632	F	Laurel Downs Terr	YellowDrum Fm			1	14	log	WCR		
West Blackstone 1			1646	1659	F	Laurel Downs Terr	YellowDrum Fm			0	19	log	WCR		
West Blackstone 1			1758	1771	E	Laurel Downs Terr	Gumhole Fm			0	1	log	WCR		
West Blackstone 1			1879	1890	E	Laurel Downs Terr	Nullara Fm			0	1	log	WCR		
West Blackstone 1			1893	1918	E	Laurel Downs Terr	Nullara Fm			0	8	log	WCR		
West Blackstone 1			1918	1921	A?	Laurel Downs Terr	Ordovician Fm			10	17	log	WCR		
West Blackstone 1			1926	1933	A?	Laurel Downs Terr	Ordovician Fm			0	8	log	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. KA md	Perm. (Kh) md	Perm (Kv) md
West Philydrum 1			545	566	I	Laurel Downs Terr.	Poole Sst.			14	19	log	WCR			
West Philydrum 1			578.7	701	H	Laurel Downs Terr.	Grant C sst		25	nil	29	log	WCR			
West Philydrum 1			701	775	H	Laurel Downs Terr.	Grant C sst		22	0	24	log	WCR			
West Philydrum 1			775	794	H	Laurel Downs Terr.	Grant C sst		15	nil	20	log	WCR			
West Philydrum 1			832.5	882	H	Laurel Downs Terr.	Grant A		17	nil	25.1	log	WCR			
West Philydrum 1			882	972	H	Laurel Downs Terr.	Grant A		11	nil	13	log	WCR			
West Philydrum 1			922		H	Laurel Downs Terr.	Grant A	19.5				SWC	Core Lab/IEDC	6.2		
West Philydrum 1			955		H	Laurel Downs Terr.	Grant A	17.5				SWC	Core Lab/IEDC	23		
West Philydrum 1			972	1046	H	Laurel Downs Terr.	Grant A	18				log	WCR			
West Philydrum 1			985		H	Laurel Downs Terr.	Grant A	21.5				SWC	Core Lab/IEDC	15		
West Philydrum 1			987		H	Laurel Downs Terr.	Grant A	22.7				SWC	Core Lab/IEDC	24		
West Philydrum 1			988		H	Laurel Downs Terr.	Grant A	26.4				SWC	Core Lab/IEDC	54		
West Philydrum 1			998		H	Laurel Downs Terr.	Grant A	21.8				SWC	Core Lab/IEDC	49		
West Philydrum 1			1037		H	Laurel Downs Terr.	Grant A	24.6				SWC	Core Lab/IEDC	282		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
West Terrace 1			834	842	I	Laurel Downs Terr	Poole Sst			23	26	core/log	WCR		
West Terrace 1			885	900	I	Laurel Downs Terr	Poole Sst			20	23	core/log	WCR		
West Terrace 1			940	1040	H	Laurel Downs Terr	Grant Fm			22	25	core/log	WCR		
West Terrace 1			1050	1075	H	Laurel Downs Terr	Grant Fm			21	24	core/log	WCR		
West Terrace 1			1090	1120	H	Laurel Downs Terr	Grant Fm			19	22	core/log	WCR		
West Terrace 1			1155	1250	H	Laurel Downs Terr	Grant Fm			17	24	core/log	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Whitewell 1			749	788	I	Laurel Downs Terr	Poole Sandstone			23.5	26	log	WCR		
Whitewell 1			805	835	I	Laurel Downs Terr	Poole Sandstone			20.5	24.5	log	WCR		
Whitewell 1			866	885	H	Laurel Downs Terr	Grant Fm			17	24	log	WCR		
Whitewell 1			920	1017	H	Laurel Downs Terr	Grant Fm			17.5	20	log	WCR		
Whitewell 1			1030	1099	H	Laurel Downs Terr	Grant Fm			16	20.5	log	WCR		
Whitewell 1			1150	1454	H	Laurel Downs Terr	Grant Fm			11	19	log	WCR		
Whitewell 1			1467	1525	G/F	Laurel Downs Terr	Anderson Fm			13.5	14.5	log	WCR		
Whitewell 1			1549	1739	G/F	Laurel Downs Terr	Anderson Fm			10.5	16	log	WCR		

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. (Kh) md	Perm (Kv) md
Willara 1	3765	3765.3	1147.57	1147.66	H	Willara s basin	Grant		27			core(WCR)	BMR	684	670
Willara 1	3774.6	3775	1150.50	1150.62	H	Willara s basin	Grant		19			core(WCR)	BMR	61	nil
Willara 1	4215	4225	1284.73	1287.78	B2	Willara s basin	CarribuddyFm (salt)					core(WCR)	BMR		
Willara 1	4787	4787.3	1459.08	1459.17	B2	Willara s basin	CarribuddyFm (salt)		15			core(WCR)	BMR	14	41
Willara 1	5256	5266	1602.03	1605.08	B1	Willara s basin	CarribuddyFm (salt)					core(WCR)	BMR		
Willara 1	5412	5712.3	1649.58	1741.11	B1	Willara s basin	CarribuddyFm (salt)		17			core(WCR)	BMR	2	3
Willara 1	6178	6178.4	1883.05	1883.18	A2	Willara s basin	Goldwyer Shale		9			core(WCR)	BMR	nd	nd
Willara 1	6841	6841.3	2085.14	2085.23	A2	Willara s basin	Goldwyer Shale		8			core(WCR)	BMR	nil	nil
Willara 1	7436.8	7437	2266.74	2266.80	A2	Willara s basin	Goldwyer Shale		11			core(WCR)	BMR	3	nil
Willara 1	7798	7798.3	2376.83	2376.92	A2	Willara s basin	Goldwyer Shale		1			core(WCR)	BMR	nil	nd
Willara 1	8360	8360.3	2548.13	2548.22	A2	Willara s basin	Goldwyer Shale		10			core(WCR)	BMR	nd	nd
Willara 1	8810	8810.3	2685.29	2685.38	A1	Willara s basin	Willara Fm		6			core(WCR)	BMR	nd	nil
Willara 1	9435	9435.3	2875.79	2875.88	A1	Willara s basin	Willara Fm		2			core(WCR)	BMR	nil	nil

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm md
Wilson Cliffs 1	3031		923.849		H	Kidson s-basin	Grant Fm	22.2					Roberston Res.	
Wilson Cliffs 1	3033		924.458		H	Kidson s-basin	Grant Fm	24.2					Roberston Res.	600
Wilson Cliffs 1	3035		925.068		H	Kidson s-basin	Grant Fm	18.7					Roberston Res.	12.5
Wilson Cliffs 1	3037		925.678		H	Kidson s-basin	Grant Fm	9.6					Roberston Res.	1.55
Wilson Cliffs 1	3039		926.287		H	Kidson s-basin	Grant Fm	21.2					Roberston Res.	56
Wilson Cliffs 1	3041		926.897		H	Kidson s-basin	Grant Fm	21.9					Roberston Res.	34
Wilson Cliffs 1	3043		927.506		H	Kidson s-basin	Grant Fm	25.2					Roberston Res.	235
Wilson Cliffs 1	3045		928.116		H	Kidson s-basin	Grant Fm	18.2					Roberston Res.	35
Wilson Cliffs 1	3047		928.726		H	Kidson s-basin	Grant Fm	24.9					Roberston Res.	1.3
Wilson Cliffs 1	3316		1010.72		D	Kidson s-basin	Mellinjerle Fm	1.3					Roberston Res.	0.1
Wilson Cliffs 1	3318		1011.33		D	Kidson s-basin	Mellinjerle Fm	2.9					Roberston Res.	0.1
Wilson Cliffs 1	3320		1011.94		D	Kidson s-basin	Mellinjerle Fm	7.4					Roberston Res.	0.1
Wilson Cliffs 1	3332		1015.59		D	Kidson s-basin	Mellinjerle Fm	6.9					Roberston Res.	0.1
Wilson Cliffs 1	3324		1013.16		D	Kidson s-basin	Mellinjerle Fm	4.4					Roberston Res.	0.1
Wilson Cliffs 1	3326		1013.76		D	Kidson s-basin	Mellinjerle Fm	4.5					Roberston Res.	0.1
Wilson Cliffs 1	3328		1014.37		D	Kidson s-basin	Mellinjerle Fm	4.4					Roberston Res.	0.1
Wilson Cliffs 1	3330		1014.98		D	Kidson s-basin	Mellinjerle Fm	0.9					Roberston Res.	0.1
Wilson Cliffs 1	3332		1015.59		D	Kidson s-basin	Mellinjerle Fm	5.5					Roberston Res.	0.1
Wilson Cliffs 1	3334		1016.2		D	Kidson s-basin	Mellinjerle Fm	8.9					Roberston Res.	0.1
Wilson Cliffs 1	3364		1025.35		D	Kidson s-basin	Mellinjerle Fm	22.1					Roberston Res.	240
Wilson Cliffs 1	3366		1025.96		D	Kidson s-basin	Mellinjerle Fm	23.7					Roberston Res.	162
Wilson Cliffs 1	3368		1026.57		D	Kidson s-basin	Mellinjerle Fm	25.3					Roberston Res.	620
Wilson Cliffs 1	3370		1027.18		D	Kidson s-basin	Mellinjerle Fm	22.5					Roberston Res.	262
Wilson Cliffs 1	3372		1027.79		D	Kidson s-basin	Mellinjerle Fm	22.8					Roberston Res.	450
Wilson Cliffs 1	3374		1028.4		D	Kidson s-basin	Mellinjerle Fm	21					Roberston Res.	710
Wilson Cliffs 1	3376		1029		D	Kidson s-basin	Mellinjerle Fm	22.4					Roberston Res.	1112
Wilson Cliffs 1	3378		1029.61		D	Kidson s-basin	Mellinjerle Fm	18					Roberston Res.	1010
Wilson Cliffs 1	3380		1030.22		D	Kidson s-basin	Mellinjerle Fm	21.8					Roberston Res.	42.5
Wilson Cliffs 1	4106		1251.51		D	Kidson s-basin	Tandalgoo Red Beds	24					Roberston Res.	26.1
Wilson Cliffs 1	4108		1252.12		D	Kidson s-basin	Tandalgoo Red Beds	20.7					Roberston Res.	16.2
Wilson Cliffs 1	4110		1252.73		D	Kidson s-basin	Tandalgoo Red Beds	21.5					Roberston Res.	25
Wilson Cliffs 1	4439		1353.01		D	Kidson s-basin	Tandalgoo Red Beds	20.2					Roberston Res.	2600
Wilson Cliffs 1	4441		1353.62		C	Kidson s-basin	Tandalgoo Red Beds	21					Roberston Res.	2150
Wilson Cliffs 1	4443		1354.23		C	Kidson s-basin	Tandalgoo Red Beds	22.3					Roberston Res.	1780
Wilson Cliffs 1	4445		1354.84		C	Kidson s-basin	Tandalgoo Red Beds	21.3					Roberston Res.	2250

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm md
Wilson Cliffs 1	5044		1537.41		C	Kidson s-basin	Tandalgoo Red Beds	19.5					Roberston Res.	74
Wilson Cliffs 1	5046		1538.02		C	Kidson s-basin	Tandalgoo Red Beds	23.7					Roberston Res.	160
Wilson Cliffs 1	5048		1538.63		C	Kidson s-basin	Tandalgoo Red Beds	21.6					Roberston Res.	164
Wilson Cliffs 1	5050		1539.24		C	Kidson s-basin	Tandalgoo Red Beds	23.5					Roberston Res.	168
Wilson Cliffs 1	5052		1539.85		C	Kidson s-basin	Tandalgoo Red Beds	24					Roberston Res.	340
Wilson Cliffs 1	5054		1540.46		C	Kidson s-basin	Tandalgoo Red Beds	23.2					Roberston Res.	470
Wilson Cliffs 1	5956		1815.39		C	Kidson s-basin	Tandalgoo Red Beds	22.2					Roberston Res.	215
Wilson Cliffs 1	5056		1541.07		C	Kidson s-basin	Tandalgoo Red Beds	22.2					Roberston Res.	112
Wilson Cliffs 1	5668		1727.61		C	Kidson s-basin	Tandalgoo Red Beds	26.3					Roberston Res.	470
Wilson Cliffs 1	5670		1728.22		C	Kidson s-basin	Tandalgoo Red Beds	23.6					Roberston Res.	490
Wilson Cliffs 1	5674		1729.44		C	Kidson s-basin	Tandalgoo Red Beds	26.2					Roberston Res.	920
Wilson Cliffs 1	5678		1730.65		C	Kidson s-basin	Tandalgoo Red Beds	27.1					Roberston Res.	1330
Wilson Cliffs 1	5682		1731.87		C	Kidson s-basin	Tandalgoo Red Beds	23.2					Roberston Res.	25.5
Wilson Cliffs 1	5685		1732.79		C	Kidson s-basin	Tandalgoo Red Beds	17.3					Roberston Res.	1.01
Wilson Cliffs 1	5954		1814.78		C	Kidson s-basin	Carribuddy Fm Unit A	5.3					Roberston Res.	0.1
Wilson Cliffs 1	5960		1816.61		C	Kidson s-basin	Carribuddy Fm Unit A	7.4					Roberston Res.	
Wilson Cliffs 1	5966		1818.44		C	Kidson s-basin	Carribuddy Fm Unit A	5.8					Roberston Res.	0.08
Wilson Cliffs 1	5968		1819.05		B2	Kidson s-basin	Carribuddy Fm Unit A	2					Roberston Res.	0.1
Wilson Cliffs 1	6538		1992.78		B2	Kidson s-basin	Carribuddy Fm Unit A	6.7					Roberston Res.	5.3
Wilson Cliffs 1	6541		1993.7		B2	Kidson s-basin	Carribuddy Fm Unit A	5.8					Roberston Res.	0.1
Wilson Cliffs 1	6543		1994.31		B2	Kidson s-basin	Carribuddy Fm Unit A	9.6					Roberston Res.	0.1
Wilson Cliffs 1	6545		1994.92		B2	Kidson s-basin	Carribuddy Fm Unit A	15.3					Roberston Res.	9.25
Wilson Cliffs 1	6547		1995.53		B2	Kidson s-basin	Carribuddy Fm Unit A	9.3					Roberston Res.	0.1
Wilson Cliffs 1	6548		1995.83		B2	Kidson s-basin	Carribuddy Fm Unit A	15.9					Roberston Res.	1.98
Wilson Cliffs 1	6550		1996.44		B2	Kidson s-basin	Carribuddy Fm Unit A	17					Roberston Res.	43
Wilson Cliffs 1	7260		2212.85		B2	Kidson s-basin	Carribuddy Fm Unit C	3.2					Roberston Res.	0.4
Wilson Cliffs 1	7264		2214.07		B2	Kidson s-basin	Carribuddy Fm Unit C	6					Roberston Res.	5.8
Wilson Cliffs 1	8791		2679.5		A2	Kidson s-basin	Goldwyer Fm	5.2					Roberston Res.	1.6
Wilson Cliffs 1	8794		2680.41		A2	Kidson s-basin	Goldwyer Fm	6.7					Roberston Res.	
Wilson Cliffs 1	8798		2681.63		A2	Kidson s-basin	Goldwyer Fm	6.9					Roberston Res.	
Wilson Cliffs 1	8800		2682.24		A2	Kidson s-basin	Goldwyer Fm	6					Roberston Res.	1.5
Wilson Cliffs 1	8804		2683.46		A2	Kidson s-basin	Goldwyer Fm	6.5					Roberston Res.	124
Wilson Cliffs 1	9127		2781.91		A2	Kidson s-basin	Goldwyer Fm	7					Roberston Res.	4.8
Wilson Cliffs 1	9129		2782.52		A2	Kidson s-basin	Goldwyer Fm	5.6					Roberston Res.	0.62
Wilson Cliffs 1	9132		2783.43		A2	Kidson s-basin	Goldwyer Fm	4.1					Roberston Res.	

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm md
Wilson Cliffs 1	9698		2955.95		A1	Kidson s-basin	Middle Fm	1.2					Roberston Res.	0.1
Wilson Cliffs 1	9700		2956.56		A1	Kidson s-basin	Middle Fm	1.4					Roberston Res.	0.1
Wilson Cliffs 1	9704		2957.78		A1	Kidson s-basin	Middle Fm	2.6					Roberston Res.	0.1
Wilson Cliffs 1	9707		2958.69		A1	Kidson s-basin	Middle Fm	0.7					Roberston Res.	0.1
Wilson Cliffs 1	9921		3023.92		A1	Kidson s-basin	Lower Fm	3.8					Roberston Res.	0.28
Wilson Cliffs 1	9932		3027.27		A1	Kidson s-basin	Lower Fm	5.1					Roberston Res.	7.1
Wilson Cliffs 1	9937		3028.8		A1	Kidson s-basin	Lower Fm	4.5					Roberston Res.	3.1
Wilson Cliffs 1	9950		3032.76		A1	Kidson s-basin	Lower Fm	4					Roberston Res.	0.53
Wilson Cliffs 1	10154		3094.94		A1	Kidson s-basin	Lower Fm	3.5					Roberston Res.	2.9
Wilson Cliffs 1	10157		3095.85		A1	Kidson s-basin	Lower Fm	1.5					Roberston Res.	0.1
Wilson Cliffs 1	10158		3096.16		A1	Kidson s-basin	Lower Fm	1.5					Roberston Res.	0.1
Wilson Cliffs 1	10766		3281.48		A0	Kidson s-basin	Lower Fm	5.6					Roberston Res.	
Wilson Cliffs 1	10768		3282.09		A0	Kidson s-basin	Lower Fm	5.1					Roberston Res.	4.7
Wilson Cliffs 1	10770		3282.7		A0	Kidson s-basin	Lower Fm	4.2					Roberston Res.	0.17
Wilson Cliffs 1	10774		3283.92		A0	Kidson s-basin	Lower Fm	4.5					Roberston Res.	
Wilson Cliffs 1	11603		3536.59		Prot	Kidson s-basin	Ferruginous Shale Beds	0.3					Roberston Res.	0.15
Wilson Cliffs 1	11606		3537.51		Prot	Kidson s-basin	Ferruginous Shale Beds	0.5					Roberston Res.	0.1
Wilson Cliffs 1	11609		3538.42		Prot	Kidson s-basin	Ferruginous Shale Beds	0.3					Roberston Res.	0.1
Wilson Cliffs 1	11612		3539.34		Prot	Kidson s-basin	Ferruginous Shale Beds	0.3					Roberston Res.	0.1
Wilson Cliffs 1	11616		3540.56		Prot	Kidson s-basin	Ferruginous Shale Beds	0.4					Roberston Res.	
Wilson Cliffs 1	11620		3541.78		Prot	Kidson s-basin	Ferruginous Shale Beds	0.3					Roberston Res.	0.1
Wilson Cliffs 1	12003		3658.51		Prot	Kidson s-basin	Carbonaceous Shale Beds	0.2					Roberston Res.	0.1
Wilson Cliffs 1	12005		3659.12		Prot	Kidson s-basin	Carbonaceous Shale Beds	0.2					Roberston Res.	0.1
Wilson Cliffs 1	12007		3659.73		Prot	Kidson s-basin	Carbonaceous Shale Beds	0.2					Roberston Res.	
Wilson Cliffs 1	12011		3660.95		Prot	Kidson s-basin	Carbonaceous Shale Beds	0.3					Roberston Res.	0.1
Wilson Cliffs 1	12191		3715.82		Prot	Kidson s-basin	Carbonaceous Shale Beds	0.3					Roberston Res.	0.1
Wilson Cliffs 1	12193		3716.43		Prot	Kidson s-basin	Carbonaceous Shale Beds	0.2					Roberston Res.	0.1
Wilson Cliffs 1	12200		3718.56		Prot	Kidson s-basin	Carbonaceous Shale Beds	0.3					Roberston Res.	0.1
Wilson Cliffs 1	12209		3721.3		Prot	Kidson s-basin	Carbonaceous Shale Beds	0.3					Roberston Res.	0.1

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md
Wood Hills 1	759		231.34		K	Willara Sub Basin	Alexander Fm	18.17				core (wcr)	Reservoirs Inc.	2.8
Wood Hills 1	836		254.81		K	Willara Sub Basin	Alexander Fm	17.35				core (wcr)	Reservoirs Inc.	1.5
Wood Hills 1	892		271.88		K	Willara Sub Basin	Wallal Sst	17.42				core (wcr)	Reservoirs Inc.	0.7
Wood Hills 1	1045		318.52		K	Willara Sub Basin	Wallal Sst	24.54				core (wcr)	Reservoirs Inc.	11.9
Wood Hills 1	1120		341.38		K	Willara Sub Basin	Wallal Sst	22.1				core (wcr)	Reservoirs Inc.	25.5
Wood Hills 1	1135		345.95		K	Willara Sub Basin	Wallal Sst	16.03				core (wcr)	Reservoirs Inc.	61.6
Wood Hills 1	1144		348.69		K	Willara Sub Basin	Wallal Sst	22.5				core (wcr)	Reservoirs Inc.	13.5
Wood Hills 1	1162.1		354.21		K	Willara Sub Basin	Wallal Sst	26.3				core (wcr)	Reservoirs Inc.	4.9
Wood Hills 1	1168.9		356.28		K	Willara Sub Basin	Wallal Sst	28.2				core (wcr)	Reservoirs Inc.	3.8
Wood Hills 1	1305		397.76		K	Willara Sub Basin	Wallal Sst	nd				core (wcr)	Reservoirs Inc.	
Wood Hills 1	1336		407.21		K	Willara Sub Basin	Wallal Sst	24.44				core (wcr)	Reservoirs Inc.	0
Wood Hills 1	1344		409.65		K	Willara Sub Basin	Wallal Sst	28.77				core (wcr)	Reservoirs Inc.	0
Wood Hills 1	1361		414.83		K	Willara Sub Basin	Wallal Sst	16.53				core (wcr)	Reservoirs Inc.	0
Wood Hills 1	1367		416.66		K	Willara Sub Basin	Wallal Sst	nd				core (wcr)	Reservoirs Inc.	
Wood Hills 1	1399.9		426.69		K	Willara Sub Basin	Wallal Sst	21.07				core (wcr)	Reservoirs Inc.	0.6
Wood Hills 1	1450		441.96		K	Willara Sub Basin	Wallal Sst	22.46				core (wcr)	Reservoirs Inc.	2
Wood Hills 1	1472.4		448.79		H	Willara Sub Basin	Grant	23.24				core (wcr)	Reservoirs Inc.	319.4
Wood Hills 1	1528.2		465.80		H	Willara Sub Basin	Grant	14.17				core (wcr)	Reservoirs Inc.	0

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm. md min	Perm. md max
Yarrada 1	*				~F	Laurel Downs Terr.	Laurel Fm			0.9	8	core	Home Oil /wcr	nil	2.4
Yarrada 1	*				~E	Laurel Downs Terr.	Windjana Limestone			nil	10.8	core	Home Oil /wcr	nil	6.6
Yarrada 1	*				~D	Laurel Downs Terr.	Dolomite & conglomerate			1.5	4.8	core	Home Oil /wcr	nil	12
* from core plug analyses, averaged for stratigraphic units															

Well name	Depth top (feet)	Depth base (feet)	Depth top (m)	Depth base (m)	UNIT of stage II study	Structural Element	Lithostrat. name	por. spot %	por. av. %	por. min. %	por. max. %	type/ source	who/ lab	Perm (min)	Perm (Max)
Yulleroo 1	2263	2291	689.76	698.30	F	Fitzroy Trough	Carboniferous (A)			8.8	10.1	core/wcr	nd	0.11	0.25
Yulleroo 1	2719	2748	828.75	837.59	F	Fitzroy Trough	Carboniferous (A)			7.9	16.1	core/wcr	nd	0.21	0.25
Yulleroo 1	4222	4250	1286.87	1295.40	F	Fitzroy Trough	Carboniferous (B)			7.1	17.9	core/wcr	nd	0.5	92
Yulleroo 1	8267	8285	2519.78	2525.27	F	Fitzroy Trough	Carboniferous (C)			2.9	9.8	core/wcr	nd	0.04	0.23
Yulleroo 1	8731	8760	2661.21	2670.05	F	Fitzroy Trough	Carboniferous (C)		4.7			core/wcr	nd	0.3	
Yulleroo 1	8934	8945	2723.08	2726.44	F	Fitzroy Trough	Carboniferous (C)			4.3	7.1	core/wcr	nd	0.07	0.12
Yulleroo 1	10518	10519	3205.89	3206.19	F	Fitzroy Trough	Carboniferous (C)		6.9			core/wcr	nd	0.06	
Yulleroo 1	10807	10847	3293.97	3306.17	F	Fitzroy Trough	Carboniferous (C)		1.8			core/wcr	nd	0.02	
Yulleroo 1	10987	11006	3348.84	3354.63	F	Fitzroy Trough	Carboniferous (C)			7.4	13.5	core/wcr	nd	0	0.23
Yulleroo 1	11152	11152	3399.13	3399.13	F	Fitzroy Trough	Carboniferous (C)		nd			core/wcr	nd	4.5	

CATALOGUE OF DIGITAL DATA

Four 1.44MB high density discs formatted for IBM and compatible computers containing the following:

DISC No.	FILE NAMES	EXPLANATION	FILES & SIZE
1	all2-s.tab	Complete geochem database saved as a text file with Tab spacing (ie 83 wells)	1 file, 318kb
	all2-s.xls	The same Geochem database saved as an excel 5.0 spreadsheet (ie all 83 wells)	1 file, 790kb
	acacia-s.xls to & including boroni-s.xls	The first 12 (alphabetically listed) separate excel files for geochemistry from individual wells, ie same as hard copy in this record.	12 files, total 214mb
2	calade-s.xls to and including wamac-s.xls	71.further separate files for geochemistry for individual wells, ie same as in hard copy in this Record.	71 files total 1.32mb
3	wilara-s.xls to and including yulero-s.xls	The final 7 geochem files for wells Willara 1 to Yullero 1	7 files total 183kb
	aall2-p.tab	Complete perm/porsity database saved as a text file with Tab spacing (ie 71 wells)	1 file 104kb
	aall2-p.xls	The same perm/porsity database saved as an excel 5.0 spreadsheet (ie all 71 wells)	1 file, 260kb
	acac1-p.xls to and including kenedi-p.xls	The first 32 (alphabetically listed) separate excel files for permeability/porosity from individual wells, ie same as hard copy in this record.	32 files, total 479kb
4	kidson-p.xls to and including yuller-p.xls	The second half of the perm/porosity database as excel spreadsheet files for individual wells, listed alphabetically	39 files, 633 kb

Welcome to AGSO's Onshore Canning Basin Project (Stage II) Data CD-ROM

AGSO's Canning Basin Project (1990-94) was undertaken in two stages:

- **Stage I** (1990-92) was a detailed sequence stratigraphic interpretation of the evolution of the Devonian sequences of the Lennard Shelf, along the northern margin of the Fitzroy Trough. This part of the basin has undergone the most intense petroleum exploration to date and contains several small producing fields. The basic data from that study were issued in three folios - a seismic folio of interpreted seismic line displays (Jackson et al., and AGSO Record 1993/1); a map folio of structure contour and isopach maps at 1:100 000 and 1:250 000 scale (Jackson et al., and AGSO Record 1993/1); and a well folio containing revised composite well logs of 18 wells from the area (Jackson et al., and AGSO Record 1992/96). Implications for petroleum exploration were published in Jackson et al. 1992 (APEA Journal, 32, 214-230), and details of the sequence evolution were presented in Kennard et al., 1992 (Geology, 20, 1135-1138) and Southgate et al., 1993 (AAPG Memoir 57, 157-179).
- **Stage II** (1993-94) consisted of a comprehensive review of the stratigraphic and tectonic evolution of the western two-thirds of the basin to provide a better regional understanding of the evolution of the basin's petroleum systems.

Final draft interpretations of Stage II seismic and well data are included in this CD-ROM.

This interpretation was undertaken by M.J. Jackson, J.M. Kennard, K.K. Romine and P.N. Southgate. Technical enquires should be directed to John Kennard (ph 61-2-62499204; fax 61-2-6249980; email jkennard@agso.gov.au).

“AGSO has tried to make the information in this product as accurate as possible. However, it does not guarantee that the information is totally accurate or complete. Therefore, you should not rely solely on this information when making a commercial decision”.

Other results from Stage II have been published as follows:

- Two papers in the PESA West Australian Basins Symposium Volume (Purcell & Purcell eds, 1994): “Depositional sequences and associated petroleum systems of the Canning Basin, WA” (Kennard et al.), and “The Ordovician to Silurian phase of the Canning Basin WA: Structure and sequence evolution (Romine et al.). **These papers are also included in this CD-ROM.**
- Tectonic Framework of the Canning Basin, W.A., including the 1:2 million Structural Elements Map of the Canning Basin (Shaw et al., 1994, AGSO Record 1994/48, 89p).
- Canning Basin Project (Stage 11) - Geochemical and Porosity/Permeability Data (Jackson et al., 1994, AGSO Record 1994/59, 240p), which includes digital Excel spreadsheets.
- Canning Basin Project (Stage 11) - Geohistory Modelling (Kennard et al., 1994, AGSO Record 1994/67, 243p).

CD-ROM File Structure

Seismic Data, Well Data, and Basemap files have been made available as separate downloadable files.

Acrobat contains installation files of ADOBE Acrobat Reader 3.01 for a variety of platforms.

Papers contains the two papers published in the PESA 1994 West Australian Basins Symposium (pdf format).

Seismic contains an ascii file (interp.asc) of interpretation for all digitised seismic lines. For a list of digitised seismic lines refer to the lines.xls file in this directory.

Wells contains postscript files of composite well plots for 50 interpreted wells. Refer to well section below for a list of wells.

Basemap.ps is an A0-size 1:1,000,000 scale basemap displaying interpreted wells and seismic, in postscript format.

WELLS

The following well composite are enclosed as postscript files:

Acacia 2	Dampier Downs 1	Logue 1	Pegasus 1
Aquanita 1	Dodonea 1	Lukins 1	Percival 1
Aquila 1	East Crab Creek 1	Matches Springs 1	Pictor 1
Barbwire 1	Edgar Range 1	May River 1	Sahara 1
Barlee 1	Frankenstein 1	McLarty	Terrace 1
Blackstone 1	Goldwyer 1	Meda 1	Thangoo 1
Blina 1	Hedonia 1	Mimosa 1	Vela 1
Boab 1	Hilltop 1	Munda 1	Willara 1
Brooke 1	Katy 1	Munro 1	Wilson Cliffs 1
Calamia 1	Kemp Field 1	Musca 1	Wood Hills 1
Canopus 1	Kidson 1	Nita Downs 1	Yarrada 1
Cowbore 1	Langoora 1	Pandorea 1	
Crystal Creek 1	Leo 1	Parda 1	

Depositional Sequences and Associated Petroleum Systems of the Canning Basin, WA.

J.M. Kennard¹, M.J. Jackson¹, K. Romine¹, R.D. Shaw¹ & P.N. Southgate¹,

Abstract

The concepts of petroleum systems and play element fairways provide an effective means to guide future exploration of the Canning Basin. Analysis of these systems is based on a new structural elements map, refined tectonic and stratigraphic frameworks, and syntheses of key play elements within each system.

Major extensional and transpressional events controlled the depositional history of the basin and resulted in four first-order depositional megasequences. Superimposed second-order eustatic variations generated accommodation cycles that controlled 15 second-order supersequences. Within this tectonic and stratigraphic framework, four active petroleum systems are identified. The oldest (Larapintine 2 and 3) offer the best prospects for liquid hydrocarbons. Under optimum conditions, Larapintine 2 (Ordovician--Silurian) has the capacity to generate tens of billions of barrels of oil. Detailed understanding of maturation-migration history relative to the timing of trap formation, and porosity distribution within the Nita carbonates are critical factors. Larapintine 3 (Devonian-Carboniferous) is productive at the Blina Oil Field, and offers further exploration opportunities for both 'traditional' reef targets (transgressive phase) and untested siliciclastic basin floor fans. Larapintine 4 (Carboniferous) is primarily a gas and condensate system; it has produced the largest gas flow recorded in the basin (Point Torment 1), and produces minor oil at the Lloyd and West Kora fields. Exploration of this system is hampered by poor knowledge of the Anderson Formation. The youngest system, Gondwanan 1 (Permian), largely relies on migration from underlying systems. It produces at several small oil fields, but prospectivity is downgraded by the lack of adequate seals. Rich potential source intervals occur high in this system, and are most likely mature in the untested southern Gregory Sub-basin.

The distribution of key play elements within these systems is governed by the subsidence regime of each basin phase. Source-prone fairways tend to occur at the time of maximum transgression of each megasequence. Clastic and (non-reefal) carbonate reservoir-prone fairways occur in the regressive (slow subsidence) portion of megasequences, whereas reefal carbonate reservoir-prone fairways occur in the transgressive (rapid subsidence) portion. At a detailed scale, the partitioning of play elements within these fairways is controlled by second and higher-order eustatic variations which enhance the longer-term tectonic controls.

Introduction

The Canning Basin is one of Australia's largest onshore sedimentary basins, with a promising, but as yet largely unfulfilled petroleum potential. During the 1980s an extensive phase of petroleum exploration resulted in the acquisition of many thousands of kilometres of seismic data, much in hitherto little explored areas, and the drilling of many additional wells. This intensive exploration has yielded little commercial success.

As the quality and quantity of data increases, it is imperative that systematic

methodologies be employed to analyse that data and to develop predictive models that can help locate commercial hydrocarbon accumulations. Several studies over the last 10--15 years have emphasised different methods to synthesise regional data, such as palaeogeographic maps, distribution of reservoirs, lithostratigraphy and tectono-stratigraphic evolution (Forman & Wales, 1981; Brown et al, 1984; Goldstein, 1989; Middleton, 1990; Warris, 1993). More recently, detailed sequence stratigraphic studies have been undertaken of specific parts of the basin succession (Jackson et al., 1992a; Southgate et al., 1993). What is now required is a systematic approach to basin analysis and resource evaluation (Loutit, 1994). A key component of basin analysis is a tectonic and stratigraphic framework that links the tectonic phases in basin development, the accommodation history, and the stratigraphy of the basin. This framework becomes the basis for predicting, assessing and understanding the petroleum systems that exist in the basin.

Method and Scope of Study

The initial stages of basin analysis include the identification of the major tectonic events and elements, and establishment of a tectonic framework. The main tectonic events that punctuate a basin's history initiate specific tectonic regimes that, at the first-order (longer term) scale, control major accommodation cycles or megasequences. These tectonically driven cycles interact with higher-order eustatic cycles to determine the most likely stratigraphic distribution of source, seal and reservoir facies. This conceptual model is shown as Figure 1. When subsidence rates are high, transgression occurs and the deposition of source and seal facies can be expected. As subsidence slows, regression occurs and deposition of reservoir facies can be expected. Tectonic events that initiate each new subsidence phase create new traps and migration pathways, and may modify existing ones. This model provides a predictable framework within which observations on the petroleum systems can be placed. This paper concentrates on a description of the larger-scale tectonic phases and depositional megasequences of the basin, and an analysis of the basin's petroleum systems. Romine et al. (this volume) analyse the complexities evident at a more detailed scale within the oldest basin phase, the Ordovician-Silurian Megasequence.

This study was undertaken within the framework of a redefined structural subdivision of the basin (Fig. 2), and a re-assessment of the age and importance of the main tectonic events that have affected the basin succession. Sequence stratigraphic concepts were utilised to analyse well log and seismic data, and identify second-order supersequences. In conjunction with recent biostratigraphic revisions (Jones & Young, 1993; Nicoll, 1993; Nicoll et al., 1994), these supersequences provide a new stratigraphic framework for the basin (Fig. 3). Seismic and well data were tied via synthetic seismograms, and the supersequences mapped on a regional seismic grid. Seismic interpretation further revised the principal structural elements of the basin, especially the sub-basin configuration and the faulting history. Well data was incorporated from areas beyond the seismic grid through the extensive use of well-well cross sections. Petroleum data (hydrocarbon shows, source rock and petrophysical data) was compiled for all wells, and selected data displayed on a series of maps for each petroleum system.

Tectonic and Structural Framework

Basin Phases

The Canning Basin is a long-lived, multiple-phase, pericratonic basin which has undergone a complex structural evolution. Within its 500 million year history the basin has been controlled by several major (basin-wide) tectonic events that have resulted in the development of at least six basin phases (Fig. 3). Definition of these events forms part of an ongoing AGSO study by R. Shaw and others to be published as a 1: 2 million tectonic elements map of the basin.

Following a period of thrust-related shearing recognised at about 500 Ma in the basement to the north of the basin (Shaw et al., 1992a), the earliest basin phase commenced with extension and rapid subsidence in the Early Ordovician (Sapphire Marsh Movement). Rifting was followed by a prolonged sag stage characterised by widespread evaporitic and playa conditions (Carribuddy Group; Supersequences B1, B2). The second phase was initiated by a period of minor folding, regional uplift and erosion in the earliest Devonian (Prices Creek Compressional Movement), and embraces laterally extensive, aeolian and terrestrial 'pre-rift' deposits (Tandalgoo and Worral formations; Supersequence C). The third phase incorporates major extension, rifting and rapid subsidence of the Fitzroy--Gregory trough in the Givetian (Pillara Extension). The sag stage following this extension was interrupted by at least two subsequent tectonic pulses (Van Emmerick and Red Bluffs extensional movements), at which times syn-extensional tilting and fault block movements resulted in semi-regional subsidence and uplift. These pulses are marked by the local spectacular influx of conglomerates on the margins of the Lennard Shelf, Margaret River Embayment and Billiluna Shelf.

The fourth tectonic phase was initiated by mid-Carboniferous compression and inversion of Devonian normal faults (Meda Transpressional Movement), which probably represents the peak of the Alice Springs Orogeny in central Australia as established by Shaw et al. (1992b). The angular unconformity resulting from this movement is clearly visible on seismic sections on the Lennard Shelf (e.g. Jackson et al., 1993, plate 35). This phase is marked by syntectonic fluvial deposits (lower Grant Group; Supersequence G). The fifth phase is marked by renewed extension and rapid subsidence of the Fitzroy Trough (Point Moody Extensional Movement). This phase coincides with the onset of glacial conditions (upper Grant Group, Supersequence H), and incorporates a sag stage and widespread transgression following glaciation. A pulse of minor uplift and erosion occurs near the end of this phase (Legrange Extensional Movement), and probably correlates with extension and normal faulting in the offshore Bedout Sub-basin.

The sixth and final tectonic phase was triggered by regional dextral wrench movements in the Late Triassic to earliest Jurassic (Fitzroy Transpressional Movement). Horstman (1984) estimated up to about three kilometres of uplift and erosion during this movement, and molasse deposition occurred adjacent to anticlinal uplifts. The depositional succession resulting from this tectonic phase is better developed offshore and is not discussed further in this paper.

Structural Elements

Basement province boundaries appear to have exercised an important and recurring control on the location of the major, northwest-trending Palaeozoic extension faults that

largely define the structural elements of the basin. The basin contains two major northwest-trending depositional troughs, that contain thick sedimentary section, separated by a mid-basinal swell or arch covered by generally less than two kilometres of sediments (Fig. 2).

The northern trough probably contains up to about 15 kms of predominantly Devonian and younger sediments, whereas the southern trough contains a much thinner succession (generally 4--5 km) of predominantly Ordovician to Silurian rocks capped by less than one kilometre of Devonian and younger sediments. The northern trough is divided into the Fitzroy Trough in the northwest and the Gregory Sub-basin in the southeast, separated by a basement high, the Jones Arch. Deep seismic investigations southeast of Derby (Drummond et al., 1991) show that the Fitzroy Trough is structurally asymmetrical; the northern margin is a draped hinge, while the southern margin is defined by a major, shallow-dipping, listric normal fault, the Fenton Fault, which soles onto a detachment at depths of 7 s TWT (~15 km). Major offsets along both this southern bounding fault and faults along the northern margin (Fig. 2) are interpreted as orthogonal transfer or accommodation zones. These zones are less numerous, not as continuous and more sinuous than shown by Begg (1987), and have exerted a major control on the pattern of sediment dispersal and accumulation, especially during the Devonian. The Fitzroy Trough formed by repeated periods of extension in the Givetian (Pillara Extension), late Frasnian (Van Emmerick Extension), Tournaisian (Red Bluffs Extension), and Early Permian (Point Moody Extension). The Gregory Sub-basin may have had a similar structural and stratigraphic evolution to the Fitzroy Trough (see Smith, 1984; Warris, 1993), but independent studies have not been undertaken in this area.

The western portion of the southern trough (Willara Sub-basin) contains a series of half grabens bounded to the north by steeply dipping, south-facing, basement-involved normal faults (Admiral Bay, Munro, Chirit and Frankenstein faults; Fig. 2). These half grabens and faults are offset by transverse accommodation zones which are delineated by broad basement highs (see Romine et al., this volume). These zones had a major influence on Early Ordovician sediment dispersal and accumulation, and the migration and accumulation of hydrocarbons and base metals. These fault systems pass southeastward into the broad Kidson Sub-basin where basement-involved normal faults are less well defined and less continuous (Fig. 2).

The mid-basin arch is a long-lived uplifted area of shallow basement, capped by a thin succession of Ordovician, Devonian and Permian rocks (around 1--2 km thick) gently dipping to the southwest (Bentley, 1984). The arch consists of the 150 km wide Broome Platform in the northwest and the narrower Crosslands Platform in the southeast. These platforms are flanked on their northern margins by fault-bounded terraces tens of kilometres wide (Dampier, Jurgurra and Barbwire terraces) that preserve a thicker (2--4 km) section of mostly Ordovician and Devonian platform carbonates (Lehmann, 1986; Begg, 1987). Fault-bounded terraces up to 50 km wide also flank the northern margin of the Fitzroy--Gregory trough (Lennard and Billiluna shelves, Balgo and Betty terraces) and separate these troughs from Proterozoic basement rocks to the northeast. These terraces also contain mostly Ordovician to Devonian carbonates capped by thin Permian sections (Hall, 1984; Lehmann, 1984).

The southwestern margin of the basin is occupied by a wide belt of shelves and embayments with relatively shallow basement, capped by a thin (generally about 1 km) basin succession. Very little petroleum exploration has been undertaken in this region, and data from this area was not studied.

Stratigraphic Framework

The regional summary presented here builds on and extends earlier reviews by Brown et al. (1984), Middleton (1990) and Warris (1993), but is from a sequence stratigraphic, rather than lithostratigraphic, perspective. As discussed and illustrated in Jackson et al. (1992a), this approach attempts to provide a chronostratigraphic correlation of rock units and significantly changes some key aspects of the stratigraphy. The relationship between the proposed sequence stratigraphic units and the main lithostratigraphic units is summarised in Figure 3. Sequence terminology follows Haq et al. (1988) and Van Wagoner et al. (1988).

Within the broad tectonic framework outlined earlier, three Palaeozoic megasequences are identified, each of about 70--80 million years duration. These megasequences are first-order depositional cycles; they are bounded by major angular unconformities, and typically comprise a lower aggradational succession dominated by terrestrial deposits, overlain by a major transgressive--regressive (T--R) succession. These megasequences are comparable with Megasequences I, II and III described by Warris (1993, with minor revisions).

Each megasequence comprises a number of higher frequency supersequences (second-order depositional cycles) that represent depositional responses to accommodation created by the interaction of eustasy and basin subsidence. Fifteen supersequences¹, referred to by letters A through L (Fig. 3), have been identified and mapped in the western half of the basin.

These supersequences were identified largely by their internal seismic and/or wireline log character. They may contain several lithostratigraphic units and commonly represent a duration of 10--20 million years. Each supersequence comprises a number of 'Vail-type' sequences (third-order depositional cycles). In some areas, where diagnostic seismic geometries or wireline log signatures are distinctive, these sequences can be further subdivided into their component systems tracts (e.g. Kennard et al, 1992; Southgate et al., 1993; Romine et al., this volume). The 'sequences' described by Middleton (1990) are an order or two of magnitude larger than these sequences; they are closer in scale to the supersequences, but they are not equivalent.

Ordovician--Silurian Megasequence

The Ordovician--Silurian Megasequence consists of five supersequences, A0 to B2, deposited between approximately 488--410 Ma (Fig. 3). It is equivalent to Megasequence I of Warris (1993) and 'sequences' Pz2 and Pz3 of Middleton (1990). Its base marks the initiation of sedimentation in the basin at the western end of a meridionally-trending tropical sea, the Larapintine Seaway (Nicoll et al., 1988), which connected to the east with the Wiso, Amadeus and Georgina basins. The top of the megasequence is defined by a major angular unconformity associated with the Prices Creek Movement (Pernjara Movement in Warris, 1993). This unconformity extends across the Broome--Crosslands platforms and flanking terraces to the north (see well cross sections in Romine et al., this volume). Parts of the megasequence are preserved in almost all structural elements in the basin. It rarely crops out, and parts of it have been intersected in 74 wells. In most areas it

¹ In Jackson et al., (1994) Supersequences A to L were incorrectly designated Megasequences.

can be confidently identified and mapped on seismic data. It is two to three kilometres thick in most parts of the basin, but has a maximum preserved thickness of around five kilometres in the Kidson Sub-basin which appears to represent a major depocentre within the Ordovician Larapintine Seaway.

Initial subsidence commenced during the Tremadocian, and was accompanied by the deposition of largely coarse clastic units across an irregular land surface and within a series of partially connected half grabens (basal Supersequence A0; Nambet Formation in south, Carranya Beds in northeast, Kunian Sandstone in north). Within the major half grabens, these early rift deposits are overlain by a second-order T--R cycle that commences with fine-grained marine clastics and culminates in shallow-marine carbonates (upper Supersequence A0). As subsidence continued and became more widespread, two successive clastic--to--carbonate second-order T--R cycles were deposited throughout the basin (Supersequences A1, A2). The regressive phase of Supersequence A2 culminated in widespread pericyclic to emergent platform carbonates (Nita Formation).

Although many of the lithostratigraphic units within these supersequences are usually referred to as shallow-marine epeiric shelf or platform sediments (e.g. Brown et al., 1984; Yeates et al., 1984), deposition contemporaneous with extensional faulting in northwest-trending half grabens has long been documented in the Willara Sub-basin (e.g. Conolly et al., 1984; Kingsley & Russell, 1989). The present study suggests this rift-related sedimentation may have been widespread during the transgressive stage of this megasequence (Supersequences A0--A2) in the Kidson Sub-basin, Broome Platform and the southern margin of the Lennard Shelf. Maximum inundation appears to have occurred near the middle of Supersequence A2 (shales of the lower Goldwyer Formation), followed by a change to slower subsidence indicating the end of extension.

The upper part of Supersequence A2 and Supersequences B1--B2 are interpreted as the regressive phase of the megasequence. This genetic and temporal association of the Carribuddy Group with the underlying Ordovician carbonates is based on recent palynological determinations for the age of the Mallowa Salt (Foster & Williams, 1991), and contrasts markedly with most previous stratigraphic schemes (e.g. Brown et al., 1984; Goldstein, 1989; Lehmann, 1984) which show a significant hiatus and erosional unconformity between the Nita Formation and Carribuddy Group. The rocks in this regressive phase of the megasequence are dominantly shallow sub-tidal to intertidal dolomitic limestones and shales (Nita Formation) and evaporitic, fine-grained red-bed clastics and carbonates with rare algal coals (Carribuddy Group and Sahara Formation). Widespread halite deposits are preserved at two separate stratigraphic levels (Supersequence B1 and B2). The more extensive of these, the younger Mallowa Salt, is over 800 m thick and was deposited in shallow subaqueous and ephemeral salterns subjected to repeated desiccation and exposure (Cathro et al., 1992). The presence of fossil fish in the fine-grained clastics and dolostones of the Sahara Formation suggest a return to less restricted conditions. New stratigraphic correlations supported by biostratigraphic control (Nicoll et al., 1994) indicate that most of this supersequence was eroded during the Prices Creek Movement, except in the Kidson Sub-basin, where about 500 m still remains.

Devonian to Early Carboniferous Megasequence

The Devonian to Early Carboniferous Megasequence comprises Supersequence C, D, E and F, deposited between approximately 400 and 326 Ma (Fig. 3). It is approximately equivalent to Megasequence II of Warris (1993) and stratigraphic 'sequence' Pz4 of Middleton (1990). The angular unconformity at its base, interpreted as a result of erosion following the Prices Creek Compressional Event, is evident in outcrop along the northern margin of the basin in the Prices Creek area. The same unconformity is also clearly evident across the Broome and Crosslands Platforms and associated terraces to the north. The megasequence is thickest and most extensively preserved in the Fitzroy Trough and Gregory Sub-basin, and also extends across the shelves and terraces to the north and south where the classic Devonian reef complexes (Supersequence D and E) have been the target of numerous exploration wells. The basal Supersequence C also occurs across the mid-basin arch, where it is 200--300 m thick, and, together with Supersequence D, throughout the Kidson Sub-basin where the megasequence is up to one kilometre thick. Previous mapping (Forman & Wales, 1981) show the megasequence to be over four kilometres thick in the southeast Fitzroy Trough, but on the AGSO deep seismic lines across the western part of the trough it is probably over six kilometres thick (at least 3 s TWT); only the uppermost part has been intersected in drillholes.

The megasequence incorporates a Middle Devonian 'pre-rift' succession that may be related to extension in the lower crust and mantle (Supersequence C), and a rift succession initiated by major extension in the Late Devonian (Pillara Extension). The 'pre-rift' supersequence consists of marginal marine carbonates and clastics in the north (Poulton Formation), and aeolian and playa deposits in the south (Tandalgoo and Worral Formations).

The rift-to-sag phase of the Pillara Extension was interrupted by at least two periods of renewed extension and fault-block tilting in the latest Frasnian and at the beginning of the Tournaisian (Van Emmerick and Red Bluffs extensions). The resulting succession comprises two depositional cycles. The first (Supersequence D and E) consists of the classic Pillara-Nullara reef cycle documented in outcrop on the Lennard Shelf by Playford and co-workers (see Playford, 1984; Playford et al., 1987; Hall, 1984), and more recently Holmes & Christie-Blick (1993) and Whittam et al. (this volume). This cycle is also clearly evident in subsurface data on the Lennard Shelf where the transgressive portion consists of five back-stepping, third-order sequences (Pillara reef complex), and the regressive portion consists of four basinward-advancing sequences (Nullara Reef complex and Famennian portion of the lower Fairfield Group; Kennard et al., 1992; Southgate et al., 1993). In contrast, the Pillara and Nullara reef complexes appear to have a stacked aggradational pattern on the terraces south of the Fitzroy Trough (see Begg, 1987; Goldstein, 1989). This aggradational pattern probably results from slower and more uniform subsidence of these terraces than of the Fitzroy Trough and Lennard Shelf. It is proposed that the Van Emmerick Extension marks a switch from an extensional basin deepening predominantly to the north (Pillara reef complex), to one deepening predominantly to the south against the Fenton Fault (Nullara reef complex); thus an enhanced regressive Nullara succession is expected on the northern hinged margin of the trough. On a more detailed scale, the distribution of Pillara and Nullara reef complexes and platforms was controlled by local horst and tilt blocks (e.g. Lehmann, 1986; Begg, 1987; Holmes & Christie-Blick, 1993).

The second depositional cycle within this megasequence (Supersequence F; Tournaisian to Visean) is largely restricted to the northern troughs. It consists of peritidal carbonates

and shoreface clastics of the Yellow Drum Formation², overlain by transgressive shallow-marine to open-shelf carbonates and shales of the Laurel Formation, and thick regressive fluvio-deltaic sandstones and siltstones of the Anderson Formation. Renewed extension along the southern margin of the Fitzroy Trough (Red Bluffs Extensional Movement) is evident by significant thickening of Supersequence F into the Fenton Fault on BMR seismic line 3 (Drummond et al., 1991).

The sequence boundary separating these two cycles typically occurs within or near the base of the Yellow Drum Formation, at or just below the Devonian-Carboniferous boundary (Jones & Young, 1993), and probably reflects a global eustatic fall at this time (Van Steenwinkel, 1993).

Late Carboniferous to Permian Megasequence

The Late Carboniferous to Permian Megasequence comprises supersequences G, H, I and J, and was deposited between about 320 and 243 Ma. It is approximately equivalent to Megasequence III of Warris (1993), and 'sequences' Pz5 and Mz1 of Middleton (1990). The base of the megasequence is marked by a prominent angular unconformity on seismic data across the Lennard Shelf (Meda Transpressional Event). It is aerially the most extensive megasequence in the basin, crops out throughout the basin, and is intersected in most wells. The thickest sections (over 4 km) are present in the Fitzroy Trough. Marked progressive thickening of supersequences G and H towards the Fenton Fault is clearly evident on the 1988 BMR deep seismic lines (Drummond et al., 1991), and indicates significant extension during deposition (Point Moody Extensional Movement).

Supersequences G and H consist of fluvial and glaciogene fluvio-marine clastics of the lower and upper Grant Group, respectively. They are difficult to differentiate on seismic data, but can generally be identified and correlated on well data in the northern portion of the basin. Biostratigraphic data indicates that the hiatus between these supersequences (Drosera Erosional Event) spans most of the Westphalian and Stephanian (Jones & Young, 1993).

Jackson et al. (1992b) described the subdivision of supersequences G and H, and noted that the strong glacial influence and dominance of continental facies made it difficult to apply standard Vail-type models and identify depositional cycles. They recognised two types of cycles. Type A commence with a thick sandstone succession interpreted as lowstand (probably fluvial) valley fill, overlain by fining-upward transgressive marine deposits that pass from sandstone to shale and, and in some wells, diamictites. Type B cycles consist of thick sandstones with abrupt or thin fining-upward transitions to interbedded shales, and are interpreted as braided fluvial deposits. Supersequence G consists solely of Type B cycles, whereas Supersequence H contains both types of cycles. Supersequence H also contains numerous internal erosion surfaces with up to 300 m of relief, but complex nesting of these erosion surfaces generally inhibits their regional mapping.

Supersequence H is abruptly overlain by a transgressive, shallow-marine sand sheet

² The Yellow Drum Sandstone, defined in outcrop by Druce and Radke (1979), was redefined the Yellow Drum Formation by Moors (1986) in order to more accurately reflect the fact that sandstones are only predominant in proximal settings, and are subordinate to carbonates in the more distal portions of the Lennard Shelf.

(Poole Sandstone) which marks the termination of glacial conditions across the basin. In outcrops in the Poole Range, this flooding surface coincides with a prominent low-relief erosion surface that truncates large-scale slump structures in the upper Grant Group (Jackson et al., 1992b). Supersequence I (Poole--Noonkanbah--Liveringa) and J (Blina--Erskine) represent successive T--R cycles consisting of marine shales and siltstones overlain by shallow shelf and fluvial sandstones. These cycles are separated by a minor unconformity that is followed by a major phase of offshore subsidence (Bedout Movement or Legrange Extensional Event).

Petroleum Systems of the Canning Basin

Several petroleum systems are recognised in the onshore portion of the Canning Basin: Larapintine 2, Larapintine 3, Larapintine 4 (cf. the 'Larapintine/Gondwanan Transition'), Gondwanan 1 and Gondwanan 2 (modified after Bradshaw et al., this volume). The delineation of these systems differs in some respects to the definition proposed by Magoon & Dow (1991) -- a mature source rock and all its generated hydrocarbon accumulations. In addition to the fundamental element of shared source rock, unifying structural, climatic and palaeogeographic factors are emphasised in the application of the petroleum system concept in this study (see Bradshaw, 1993; Bradshaw et al., this volume). Thus many of the systems are bounded by regional unconformities, and partly or fully encompass a particular megasequence. However the systems are not synonymous with these megasequences. Rather they embrace all links between each element of a petroleum accumulation (source, maturation, migration, entrapment and seal), links that operated within, and in some cases between, these megasequences.

In this paper, only some of the elements of the petroleum system are emphasised: source, maturation and reservoir. The following strategy was adopted for the fundamental element 'source':

- 1) potential source units were identified in all wells on the basis of lithology and gamma-log response;
- 2) potential source intervals within these units were identified on the basis of total organic carbon content (TOC > 0.50 clastics, TOC > 0.30 carbonates);
- 3) pyrolysis data was tabulated for all samples from identified potential source intervals on a well-by-well basis (in the event that the TOC data did not identify organic-rich intervals, all samples from an identified potential source unit were tabulated);
- 4) minimum, average and maximum TOC, S₂ (hydrocarbons from pyrolysis of kerogen) and HI (Hydrogen Index) values were recorded for each identified potential source interval in each well, and then tabulated for specific regions or the entire distribution of that interval (Tables 1, 2 & 3).

The key petroleum elements of each system are discussed below, and the distribution of potential source intervals, hydrocarbon shows and reservoir facies for each system are shown in a series of maps (Figs 4, 5 & 6).

Larapintine 2

This system is characterised by the occurrence of organic-rich Ordovician marine shales with the oil-prone alga *Gloeocapsamorpha prisca*, and primarily encompasses the Ordovician-Silurian Megasequence. Three source rock intervals have been documented within this system (Taylor, D., 1992): two levels within the Goldwyer Formation (lower and upper Goldwyer Formation, Supersequence A2), and the Nambeet Formation (Supersequence A0). A fourth source rock interval occurs locally within the lower part of

the Carribuddy Group (algal coals, Supersequence B1), and a fifth potential source interval consists of calcareous shales and siltstones of the Willara Formation (Supersequence A1).

The best source rocks (lower and upper Goldwyer Formation) occur on the Barbwire, Jurgurra and Dampier terraces, and northern Broome Platform (Fig. 4). The lower Goldwyer source may also extend throughout much of the Kidson Sub-basin³ where it has been intersected in Kidson-1 and Wilson Cliff-1. The upper Goldwyer interval is a very rich, oil-prone source rock on the Barbwire Terrace (Table 1); Foster et al. (1986) conservatively estimate that under optimal maturation conditions it has the potential to generate 61×10^9 barrels of liquid hydrocarbons. This source interval has also been intersected in the eastern portion of the Broome Platform³ and Dampier--Jurgurra terraces where it has a somewhat reduced generative potential (Table 1). The lower Goldwyer source interval has fair to good generative potential on the Barbwire Terrace, Dampier Terrace and northern Broome Platform (Foster et al., 1986; Taylor, D., 1992), and in parts of the Kidson Sub-basin (Table 1). The Goldwyer source intervals appear to be poorly developed or absent in the Willara Sub-basin, and have been partly eroded by the Grant Group on the northern Broome Platform (Fig. 4). They probably occur at great depth along the northern portion of the Fitzroy Trough, and have either been stripped by pre-Devonian erosion, or are non-source facies (e.g. Blackstone-1), on the Lennard Shelf.

The Nambeet source interval has been intersected on the Broome Platform and Dampier Terrace and in remnants of the Ordovician half-graben beneath the Lennard Shelf (Table 1).

Due to marked variations in burial histories between tectonic elements in the basin, and changes in geothermal gradients through time, these source rocks have quite different maturation histories in different areas of the basin (Taylor, D., 1992). The Nambeet and lower Goldwyer source intervals matured prior to Late Devonian deposition, and probably generated large amounts of oil during the Ordovician--Silurian (Taylor, D., 1992).

The upper Goldwyer source interval is immature across much of the Broome Platform, but where it has been downfaulted, on the Barbwire, Jurgurra and Dampier terraces, maturation commenced after Devonian deposition, and this source rock retains both some free unexpelled hydrocarbons and some limited potential to generate more hydrocarbons on further maturation (Foster et al., 1986; Taylor, D., 1992).

Algal coals in the Bongabinni Formation have locally excellent source richness and generative potential, and may have sourced oil recovered in Leo-1 on the northern margin of the Willara Sub-basin (Amdel, 1988). The areal extent of these coals is not known; they may have been deposited within drainage depressions associated with relay ramps on the Admiral Bay Fault System.

The source potential of the Willara Formation is relatively poorly documented. Sparse

³ The apparent source richness of these intervals in the Kidson Sub-basin (Kidson-1, Wilsons Cliffs-1 and McLarty-1) has subsequently been shown to be due to contamination of cutting samples from diesel added to the drilling mud (see Kennard, J.M., Jackson, M.J., Romine, K.K., & Southgate, P.N., 1994, Canning Basin Project Stage II - Geohistory Modelling; AGSO Record 1994/67, p. 25 & Appendix F). Accordingly, a revised distribution map of the upper and lower Goldwyer source intervals has subsequently been published in Edwards, D.S., Summns, R.E., Kennard, J.M. et al., 1997, Geochemical characteristics of Palaeozoic petroleum systems in Northwestern Australia; APPEA Journal, 37, p 351-379, fig. 8.

analytical data indicates that this interval has very poor generative potential in the Willara and Kidson Sub-basins (Kingsley & Russell, 1989), but this interval may have fair potential in the eastern Broome Platform--Munro Terrace area (Table 1). By analogy to the Nambeet and lower Goldwyer source intervals, any Willara source rocks may be expected to have matured during the Ordovician--Silurian, possibly with minor additional generation during the Devonian.

Most of the significant oil shows within Larapintine 2 occur within Nita Formation carbonates in the vicinity of the A2/B1 sequence boundary; either within late highstand deposits of Supersequence A2, or within the basal transgressive deposits of Supersequence B1. These carbonates are the main reservoir target in the Larapintine 2 Petroleum System, and the best porosity/permeability occurs within dolomitised, supra- and inter-tidal parasequences on the northern Broome Platform (Fig. 4; Bentley, 1984; Karajas & Kernick, 1984; Kingsley & Russell, 1989). Dolomitisation may be attributed to meteoric diagenesis associated with subaerial exposure at the A2/B1 sequence boundary, and where the Nita carbonates have been partly eroded by the upper Grant Group (Supersequence H). The Nita carbonates generally display poor reservoir quality on the Barbwire, Jurgurra and Dampier terraces, although some wells show local porosity development (e.g. Acacia-1, Pictor-1). The reservoir potential of the Nita Formation on the Crosslands Platform has not been tested.

Other potential reservoirs within Larapintine 2 are:

- Willara carbonates with karstic porosity at the A1/A2 sequence boundary, as intersected in several wells along the northern Broome Platform (e.g. Thangoo-1A, Thangoo-2, Hedonia 1);
- a newly recognised carbonate platform margin within Supersequence A1 (lower Willara Formation) along the tilted fault block north of the Munro Fault Zone may offer reservoir potential in the Willara Sub-basin;
- carbonates of the mid-Goldwyer limestone and Goldwyer (?) buildups interpreted from seismic data along the Admiral Bay trend (Kingsley & Russell, 1989);
- possible Goldwyer submarine fans inferred from seismic data by Kingsley and Russell (1989) to be present adjacent to major fault systems in the Willara Sub-basin (this interpretation could not be verified by the present study);
- aeolian sandstones of Supersequence C (Tandalgoo and Worral formations) are typically good quality reservoirs throughout the southern Canning Basin -- in at least one instance (Auld-1) minor oil shows occur at this stratigraphic level that were probably generated from Larapintine 2 source rocks;
- in the southwest Canning Basin, the Ordovician--Silurian Megasequence subcrops the sandstones of the Grant Group (Goldstein, 1989, fig. 21) -- these sands could be reservoirs for hydrocarbons derived from Larapintine 2 source rocks (Goldstein et al., 1992), but this play concept has not been successful on the Broome platform (e.g. Sunshine-1, Whistler-1).

The critical factors for commercial hydrocarbon accumulations within the Larapintine 2 Petroleum System appear to be the maturation/migration history relative to timing of trap formation, and reservoir quality, particularly the controls on porosity development and distribution within the Nita carbonates.

Larapintine 3

Larapintine 3 is characterised by Givetian-Frasnian marine shales of the Gogo Formation, and the time equivalent lagoon--sabkha facies of the Mellinjerie Formation, 'Mirbelia Dolomite' and 'Boab Sandstone'. These source rocks are characterised by a significant algal component and form part of a major, global, Late Devonian source-rock event (Klemme & Ulmishek, 1991). This system incorporates the Upper Devonian Pillara and Nullara reef complexes and the regressive carbonate--clastic ramp succession of the lower Fairfield Group (Supersequences D, E). It has been relatively extensively explored on the Lennard Shelf and, to a slightly lesser extent, the Barbwire--Jurgurra--Dampier terraces (Playford, 1982; Lehmann, 1984, 1986; Begg, 1987; Kemp & Wilson, 1990). It also extends throughout the Kidson Sub-basin where it is represented by a restricted carbonate lagoon--sabkha facies (Mellinjerie Formation). Potential secondary source intervals may also occur within the Famennian basinal facies of the Nullara reef cycle (Clanmeyer and Luluigui formations).

The Gogo Formation is a basinal and intra-shelf marine shale facies of the Pillara reef complex. It is presumed to be present at depth throughout most of the Fitzroy Trough, but has only been intersected on the flanking terraces and shelves (Fig. 5). It is a fair to good source rock in wells on the outer portion of the Lennard Shelf, and several shallow drillhole and outcrop samples in this area indicate good to very good generative potential (Alexander et al., 1985; Table 2). The quality of this source unit decreases towards the inner portions of the shelf, and it is a poor or non-source unit within the Napier and Margaret River embayments.

Lower Pillara-age source intervals have been intersected in several wells on the Barbwire Terrace, both within carbonate--anhydrite ('Mirbelia Dolomite') and siliciclastic ('Boab Sandstone', Gogo) dominated facies. The 'Mirbelia' facies is a particularly rich interval with good generative potential (Table 2). The source potential of the Mellinjerie Formation is very poorly known; a single sample from Sahara-1 in the western part of the Kidson Sub-basin suggests fair generative potential (Table 2), and this unit may have source potential in the undrilled northern portion of the Kidson Sub-basin and the Crosslands Platform.

The basinal facies of the Famennian Nullara reef cycle (Clanmeyer Siltstone, Luluigui Formation) appear to have poor source potential (Table 2). However these units have only been intersected at or near the margins of the Fitzroy Trough and Gregory Sub-basin, and they may have better source quality in the deeper undrilled portions of the Fitzroy--Gregory trough.

The maturation history of the Pillara succession (including the Gogo Formation and equivalent source intervals) has been analysed by Ellyard (1984). Where deeply buried in the Fitzroy Trough and Gregory Sub-basin, peak oil generation probably occurred during the Carboniferous and ceased prior to the Mesozoic. In areas along the trough/sub-basin margins, and on deeper portions of the flanking shelves and terraces, peak maturity was attained from Carboniferous to Mesozoic time. Over the shallow portions of the Lennard Shelf (e.g. Blina) and throughout the Barbwire Terrace, peak generation was attained from Mesozoic to present. Broadly similar maturation levels are likely to occur in the undrilled northern Kidson Sub-basin and Crosslands Platform.

Production from the Larapintine 3 Petroleum System occurs at the Blina Oil Field (Moors et al., 1984) which is estimated to contain over 5.7 million barrels (902 500 kL) of oil-in-place (Taylor, D.D., 1992). The discovery well, Blina-1, flowed 905 BOPD (144 kL per day) from transgressive peritidal carbonates of the Famennian Nullara reef complex (Nullara Limestone), and 36 BOPD (5.7 kL per day) from highstand carbonates of the latest Famennian ramp succession (Yellow Drum Sandstone). Significant hydrocarbon shows or flows have been recorded in five other wells from this system: oil in Boronia-1, Ellendale-1, Janpam North-1 and Mirbelia-1, and a moderate gas flow in Meda-1. Numerous minor hydrocarbon shows have been recorded along the southern margin of the Lennard Shelf and throughout the Barbwire Terrace (Fig. 5).

The Pillara and Nullara reef complexes, and to a lesser extent the inner ramp carbonates of the Fairfield Group, have traditionally been targeted as the most prospective reservoirs in Larapintine 3 (Goldstein, 1989). However, these carbonates generally have poor reservoir quality due to extensive submarine cementation, and porosity development depends on secondary dolomitization, dissolution or fracturing (Playford, 1984). Petrographic studies of the outcropping reef complex on the Lennard Shelf indicate that the facies most prone to dolomitization are subtidal backreef facies of the Nullara Platform immediately below the Fairfield Group (e.g. Blina); back-reef facies of Frasnian upright and backstepped platforms, especially where abutting Proterozoic basement; and back-reef and fore-reef Nullara or Pillara facies, especially where they interfinger with permeable clastics (Kerans, 1985; Kerans et al., 1986; Hurley & Lohmann, 1989; Wallace et al., 1991).

The transgressive and highstand reefs of the Pillara cycle may have better overall prospectivity than the more extensively explored Nullara reefs since they contain abundant stromatoporoids and corals which are more prone to secondary porosity development than the cyanobacterial-dominated platforms of the Nullara carbonates, and they are progressively overlapped, buried and sealed by the Gogo source facies (Playford, 1982; Lehmann, 1984; Jackson et al., 1992a). Well-developed moldic, vuggy or cavernous porosity within the Pillara carbonates is present in several wells (e.g. Abutilon-1, Boab-1, Hawkestone Peak-1, Matches Springs-1, Needle Eye Rocks-1, Perindi-1).

On the Barbwire Terrace the Pillara carbonates are underlain by a shallow marine sandstone (Givetian 'Boab Sandstone') which is a prospective reservoir unit (Fig. 5). Several minor oil shows have been recorded in this unit, and it is well positioned to be charged by hydrocarbons from the underlying 'Mirbelia' carbonates. These lagoonal--supratidal carbonates may also offer some reservoir potential in this area (e.g. minor oil recovered in Mirbelia-1). These sandstones most probably extend across the undrilled Crosslands Platform where aeolian facies are predicted (cf. Percival-1, Romine et al., this volume).

Good reservoir facies also occur within coarsely dolomitised, peritidal carbonates of the Yellow Drum Formation on the outer portion of the Lennard Shelf (e.g. Blina-1; Moors et al., 1984; Moors, 1986). This unit straddles the Devonian-Carboniferous boundary (Druce & Radke, 1979; Jones & Young, 1993) and marks a basinward shift of facies at the base of Supersequence F.

Lowstand basin-floor and slope fans have recently been identified and proposed as a more prospective target than the carbonates of the Pillara--Nullara reef complex (Jackson et al., 1992a). These sandstone fans occur outboard of the Frasnian--Famennian platform

margin, and are favourably located to receive hydrocarbons from the basinal Gogo shales; the oil recovered in Boronia-1 occurs within the distal pinchout of a basin-floor fan (Jackson et al., 1992b). Several prospects, each with the potential to contain in excess of 100 million barrels of recoverable oil, have been identified near the southern margin of the Lennard Shelf. These fans generally occur adjacent to transfer zones which formed focal points for lowstand drainage channels. Similar lowstand fans may occur on the northern margin of the Jurgurra Terrace, for example where the Fenton Fault is offset along transfer zones.

The critical factor for commercial hydrocarbon accumulations within the Larapintine 3 Petroleum System appears to be reservoir quality of both the reefal carbonates (a function of secondary dolomitization, dissolution and fracturing) and the largely untested lowstand fans.

Larapintine 4

This system is based on the occurrence of organic-rich marine shales in the Laurel Formation (the lower Laurel Shale), and encompasses the Early Carboniferous (Tournaisian--Visean) depositional cycle of Supersequence F. Bradshaw et al. (this volume) assigned the lower transgressive portion (Laurel Formation) of this cycle to the Larapintine 3 Petroleum System, and the upper regressive portion (Anderson Formation), plus the overlying fluvial sandstones of the lower Grant Group (Supersequence G), to the Larapintine/Gondwanan Transition. In contrast, it is proposed that the entire cycle of Supersequence F has closer sedimentological and structural affinity with the underlying successions of the Larapintine Supersystem; it conformably overlies the regressive reef-to-ramp succession of Supersequence E (Larapintine 3), and is separated from the overlying fluvio-glacial sandstones of the Grant Group (supersequences G and H, Gondwanan Supersystem) by a major unconformity associated with the Meda Movement (Fig. 2). Available source rock data indicates that oils derived from the marine shales of the Laurel Formation are broadly similar to those derived from the Gogo Formation of Larapintine 3, and that marine organic-rich facies in the Laurel and Anderson formations are dominated by marine organic material with a large but variable terrestrial component (Alexander et al., 1985; R. Summons, AGSO, personal communication, April 1994). In contrast, organic-rich facies in the overlying Grant Group of the Gondwanan Supersystem are dominated by terrestrial components.

The lower Laurel Shale occurs throughout the Fitzroy Trough and Gregory Sub-basin (Fig. 6), and locally extends onto the deeper portions of the flanking shelves (e.g. Pender Embayment, western portions of Laurel Downs and Jurgurra terraces, and possibly the Betty Terrace). Regionally, the lower Laurel Shale is considered a fair source (Table 2), with potential to generate mainly gas and condensate, but also some oil (Brooks, 1986). The richest source rocks have been intersected in wells on the northern margin of the Fitzroy Trough (e.g. Blackstone-1, Kambara-1, Ellendale-1), and most of the significant hydrocarbon shows occur in this area (Fig. 6). It appears to have poor generative potential in the Gregory Sub-basin (e.g. Lake Betty-1, White Hills-1). The Anderson Formation generally has poor generative potential throughout the basin (Table 2).

In the deeply-buried southern portion of the Fitzroy Trough, and in the Poole Range area, the Laurel source interval attained peak oil maturity from Late Carboniferous to Mesozoic, whereas in shallower portions of the trough peak oil generation was attained from Mesozoic to present (Ellyard, 1984). On the Lennard Shelf, the Laurel Formation is immature to marginally mature and has less potential as a source rock. Maturity data is

more limited in the northeast portion of the basin, but the Laurel Formation is in the gas window throughout the Gregory Sub-basin, and oil-mature on the Balgo and Betty terraces (revised stratigraphic interpretation of maturity data cited in Warris, 1991).

Production from Larapintine 4 occurs at Lloyd-1 (392 BOPD, 62 kL, on drill stem test) and West Kora-1 (140 BOPD, 22 kL), in both instances from sandstones of the Anderson Formation. The initial flow recorded at Sundown-1 (698 BOPD, 110 kL, not productive) was also from this formation. The gas discovery at Point Torment-1 (4.3 MMCFD, 122 700 m³ per day, from the Anderson Formation) is the largest gas flow yet recorded in the Canning Basin. As shown on Figure 6, significant hydrocarbon shows are restricted to the Fitzroy Trough.

Deltaic and marginal marine sandstones in the Anderson Formation are the main targets in Larapintine 4, but shallow marine sandstones and carbonates in the basal Laurel Formation locally offer secondary targets.

Successful exploration of the Larapintine 4 Petroleum System is hampered by poor knowledge of the stratigraphy, biostratigraphy and palaeogeography of the Anderson Formation. Good reservoirs can reasonably be expected within deltaic complexes in this succession, but are difficult to locate without detailed knowledge of facies distribution and relationships. The relative timing of hydrocarbon generation and structuring during the Late Triassic Fitzroy Movement is also crucial in determining whether the large anticlines produced by this tectonism can be charged by hydrocarbon migration from the Laurel source interval.

Gondwanan 1 and 2

Bradshaw et al. (this volume) recognise two Gondwanan Systems in the basins of Western Australia -- Gondwanan 1 and 2 -- based on a tectonic separation between regional Lower Permian and Lower Triassic source intervals. As discussed earlier, it is proposed that the major sedimentological and structural break associated with the mid-Carboniferous Meda Movement, and the concomitant change from predominantly marine to predominantly terrestrial organic material in the sediments, be used to differentiate the Larapintine and Gondwanan Supersystems in the Canning Basin. Fluvial and glaciogenic clastics of the Grant Group (supersequences G and H), and marine to fluvial clastics of the overlying Permian Poole--Noonkanbah--Liveringa succession (Supersequence I), are assigned to Gondwanan 1. Gondwanan 2 is not a viable petroleum system in the onshore portion of the Canning Basin since the Lower Triassic marine source (Blina Shale) that characterises this system is immature.

The major potential source intervals within Gondwanan 1 are transgressive marine shales of the Poole Sandstone and Noonkanbah Formation, which form part of a global Pennsylvanian--Lower Permian source unit (Warris, 1993). The Poole Sandstone is locally very organic rich in the Fitzroy Trough and on the Laurel Downs Terrace, and the Noonkanbah Formation is organic rich in both the Fitzroy Trough and Gregory Sub-basin (Table 3). However these potential source intervals are thermally immature except in the southern Gregory Sub-basin (Warris, 1991) and depocentres along the southern margin of the Fitzroy Trough (Ellyard, 1984). Marine shales of the upper Grant Group (e.g. Winifred Formation and Dora Shale) are locally organic rich, but they generally have poor generative potential (Table 3).

Although hydrocarbons are produced from several fields within Gondwanan 1 near the

northern margin of the Fitzroy Trough (Boundary, Sundown and West Terrace; all within the upper Grant Group), these hydrocarbons are widely believed to be sourced from the Laurel Shale within Larapintine 3 (Goldstein, 1989). Thus a linked or hybrid Larapintine 3 - Gondwanan 1 Petroleum System is testified by these hydrocarbon fields. In much of the southern portion of the basin, however, the Grant Group directly overlies and truncates sediments of the Ordovician--Silurian Megasequence, and thus it is feasible that source rocks within Larapintine 2 could charge reservoirs within the overlying Gondwanan 1 Petroleum System. This scenario is corroborated by oil and gas shows in the upper Grant Group in Willara-1 and Auld-1, and was employed to justify the Sunshine and Whistler structural-stratigraphic plays on the Broome Platform (Goldstein et al., 1992), but they proved unsuccessful. Failure of this play type could be due to either locally inadequate seals in the Grant Group, or that hydrocarbon generation and migration within Larapintine 2 preceded deposition of the Grant Group.

Reservoir facies are widespread throughout the lower and upper Grant Group (Goldstein, 1989; Warris, 1993; Redfern & Millward, 1992). However, these reservoirs have commonly been subsequently flushed by meteoric water, and are downgraded by the lack or inadequacy of intra-formational and regional seals (Goldstein, 1989). Other critical factors for hydrocarbon accumulations within these reservoirs are suitable maturation histories and migration pathways 'linking' source units from the underlying petroleum systems.

Discussion

The temporal relationship between the key play elements and the refined tectonic and stratigraphic frameworks may be summarised in a series of charts for specific regions of the basin; a chart for the Willara Sub-basin is shown as Figure 7. These charts, in conjunction with maps depicting the spatial relationship of play elements (Figs 4, 5 & 6), provide a guide for future exploration of the Canning Basin. However any genetic basis for these relationships is not evident in these charts and maps.

A fundamental control of a sedimentary succession is the rate of change of relative sea level or 'accommodation' (the total space available for sedimentation). Accommodation has two components, tectonic subsidence and eustasy. In the Canning Basin, as well as many other thick basin successions, the amount of tectonic subsidence within any tectonic phase is approximately an order of magnitude greater than the amount of eustatic change during that phase. As shown in Figure 8, the major phases of basin subsidence control the development of first-order depositional cycles (Megasequences) and, to a large extent, the distribution of petroleum systems and key 'play element fairways'⁴. At a more detailed scale, the combined effects of eustasy and tectonic subsidence control second-order depositional cycles (supersequences). Furthermore, the detailed partitioning of play elements within the tectonically defined 'fairways' is governed and 'fine-tuned' by eustasy. Thus, for example, potential source rocks preferentially occur within the basal, rapidly subsiding portion of Larapintine 2 (Supersequences A0--A2), but the richest source intervals (upper Goldwyer, Supersequence A2, and algal coals of Supersequence B1) are apparently enhanced by a major eustatic rise in the later stages of this source-prone interval. In contrast, the moderately rich source interval of Larapintine 4 (lower Laurel Shale) is apparently primarily controlled by a major (Early Carboniferous) eustatic rise during the middle portion of a tectonic phase. In fact if this eustatic event was not present, Larapintine 4 would presumably not be a viable petroleum system. It is also apparent from Figure 8 that the richest source intervals in the basin (upper Goldwyer, Supersequence A2; and Gogo and equivalents, Supersequence D) occur where the eustatic and tectonic components of accommodation enhance each other.

Two other instances where the play element fairways predicted by the conceptual tectonic model (Fig. 1) differ from the observed distribution of play elements are evident in Figure 8. Firstly, locally-rich source intervals (algal coals) and regional seals (thick halite deposits) occur within Supersequence B1 and B2, respectively, where reservoir-prone facies might otherwise be expected. A major controlling factor of these facies is the development of an arid climate and a reduced clastic sediment supply. Benthic microbial mats were probably periodically widespread within these salterns, and were essentially

⁴ The term 'play element fairway' is used here in a temporal and stratigraphic, rather than geographic, sense to refer to source-prone, reservoir-prone, seal-prone (etc.) intervals.

`pickled' in the saline brines. Thus specific climatic conditions and associated facies development significantly alter the distribution of play elements that might otherwise be expected from solely tectonic considerations. This is also evident in the upper Grant Group (Gondwanan 1 Petroleum System) where the development of glacial conditions, and the related increase in clastic sediment supply, radically alter the distribution of play element `fairways' from that predicted by purely tectonic considerations.

The second variation between the predicted and observed play element distribution is the likely better development of reservoirs in the transgressive Pillara (Supersequence D), rather than regressive Nullara (Supersequence E), reef complexes of the Larapintine 3 Petroleum System. Greenlee and Lehmann (1993) showed that the vast majority of known productive carbonate buildups occur in the basal, transgressive portions of thick T--R sediment wedges (megasequences), and that buildups deposited during the overlying regressive phase carry higher exploration risk due to leaky top and lateral seals, and generally smaller trap size. They suggested that the basal transgressive portions of such cycles are optimal for trap development since they are overlain and sealed by deep marine fine-grained sediments, and also that the escalating rates of accommodation enable the growth of thick isolated buildups of reservoir-prone, carbonate facies. Thus in this instance, in situ biological carbonate production also results in a different distribution of play elements than that predicted by the tectonic conceptual model.

Conclusions

In this paper, a methodology to systematically analyse the petroleum systems of the Canning Basin has been presented. The analysis is based on a new structural elements map of the basin, refined tectonic and stratigraphic frameworks, and an examination of the spatial and temporal distribution of the key play elements within each system.

Major extensional and transpressional events define the depositional history of the Canning Basin. These events initiated and or terminated successive subsidence/uplift regimes that have controlled the development of four first-order depositional megasequences. Second-order eustatic variations are superimposed on these tectonic regimes to produce relative sea level (accommodation) cycles that result in the development of 15 second-order depositional cycles (supersequences). These supersequences have been identified on well logs and mapped on seismic data in the western half of the basin. At a more detailed scale, each supersequence comprises a number of third-order `Vail-type' sequences, and in some areas these sequences have been mapped and further subdivided into individual systems tracts.

Four active petroleum systems have been identified in the Canning Basin. These systems are based on the occurrence of the Australian-wide source intervals and systems described by Bradshaw et al. (this volume), but are redefined according to source-rock distribution within the Canning Basin, and an improved understanding of the tectonic and stratigraphic framework of the basin.

The oldest systems (Larapintine 2 and 3) offer the best prospects for liquid hydrocarbons, but neither have realised their perceived exploration potential. Under optimum maturation/migration conditions, Larapintine 2 has been conservatively estimated to have the capacity to generate tens of billions of barrels of oil from the upper Goldwyer interval on the Barbwire Terrace, and possibly comparable volumes from the more widespread lower Goldwyer source interval. Future exploration of this system needs to be based on a detailed understanding of maturation/migration history relative to timing of trap formation,

and the controls on porosity development and distribution within the Nita carbonates.

Larapintine 3 is currently productive at the Blina Oil Field, and has been relatively extensively explored on portions of the shelves and terraces flanking the Fitzroy--Gregory trough. It offers further exploration opportunities within these areas for both 'traditional' Upper Devonian reef targets (especially within the older Pillara reef complex) and untested siliciclastic basin-floor fans. This system has yet to be tested on the Crosslands Platform and northern Kidson Sub-basin where favourable source, maturation and reservoir relationships are expected.

Larapintine 4 is primarily a gas and condensate system restricted to the Fitzroy Trough. Minor oil production occurs at the Lloyd and West Kora Fields, and this system has produced the largest gas flow recorded in the basin (Point Torment 1). Successful exploration of this system is hampered by poor knowledge of the Anderson Formation, especially facies distributions, biostratigraphic age control and sequence stratigraphic evolution.

The youngest active system, Gondwanan 1, is largely a hybrid system which relies on migration from underlying systems (Larapintine 3 and, in the southern half of the basin, potentially Larapintine 2). Oil is produced at several small fields from glauconitic sandstones of the upper Grant Group, which form widespread good quality reservoirs. However these reservoirs have commonly been subsequently flushed by meteoric waters, and are downgraded by the lack or inadequacy of intraformational and regional seals. Rich potential source intervals occur above the Grant succession (Poole Sandstone and Noonkanbah Formation), but these intervals are only mature in the southern portion of the Fitzroy--Gregory trough. Prospects sourced by these intervals remain untested.

The distribution of key play elements within these systems is not random; rather they tend to occur within specific 'play fairways' which are governed by the subsidence regime that operated during each phase of basin evolution. Thus source-prone 'fairways' tend to occur at the time of maximum transgression of second-order megasequences, during, and at the culmination of, a phase of rapid tectonic subsidence. Clastic and (non-reefal) carbonate reservoir-prone 'fairways' tend to occur in the regressive (slow subsidence) portion of Megasequences, whereas reefal carbonate reservoir-prone fairways occur in the basal transgressive (rapid subsidence) portion. At a more detailed scale, the partitioning of individual play elements within these 'fairways' is controlled by second and higher-order eustatic variation which enhance the longer-term tectonic controls.

The concepts of petroleum systems and 'play element fairways' provide an effective means to guide future exploration of the Canning Basin. The challenge for future exploration is to integrate these concepts with detailed local geological knowledge and exploration experience.

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FIGURES CAPTIONS

Figure 1. Conceptual model of the relationship between tectonic phases, stratigraphic framework and petroleum systems play element distribution.

Figure 2. Structural subdivisions of the Canning Basin.

Figure 3. Canning Basin stratigraphic column showing lithostratigraphy, main tectonic events, megasequences, supersequences and petroleum systems.

Figure 4. Larapintine 2 Petroleum System map.

NB. The apparent source richness of the upper and lower Goldwyer intervals in the Kidson Sub-basin (Kidson-1, Wilsons Cliffs-1 and McLarty-1) has subsequently been shown to be due to contamination of cutting samples from diesel added to the drilling mud (see Kennard, J.M., Jackson, M.J., Romine, K.K., & Southgate, P.N., 1994, Canning Basin Project Stage II - Geohistory Modelling; AGSO Record 1994/67, p. 25 & Appendix F). Accordingly, a revised distribution map of the upper and lower Goldwyer source intervals has subsequently been published in Edwards, D.S., Summns, R.E., Kennard, J.M. et al., 1997, Geochemical characteristics of Palaeozoic petroleum systems in Northwestern Australia; APPEA Journal, 37, p 351-379, fig. 8.

Figure 5. Larapintine 3 Petroleum System map.

Figure 6. Larapintine 4 Petroleum System map.

Figure 7. Chart of the key play elements of the Larapintine 2 Petroleum System, Willara Sub-basin.

Figure 8. Relationship between eustasy, tectonic subsidence, relative sea level, depositional cycles and play elements of the Larapintine petroleum systems. Shaded boxes indicate observed distribution of play elements, open boxes indicate predicted 'play element fairways'. Schematic tectonic subsidence curve based on geohistory plots. Eustatic curve modified from Greenlee & Lehmann (1993).

TABLE CAPTIONS

Table 1. Selected source rock data, Larapintine 2 Petroleum System. Distribution of major source units (bold) shown in Figure 4. Data from AGSO Orgchem database (as at March 1994).

Table 2. Selected source rock data, Larapintine 3 and 4 petroleum systems. Distribution of major source units (bold) shown in Figures 5, 6. Data from AGSO Orgchem database (as at March 1993), and Alexander et. al (1985).

Table 3. Selected source rock data, Gondwanan Supersystem. Data from AGSO Orgchem database (as at March 1994).

POTENTIAL SOURCE INTERVAL	TOC			S ₂			HI			NO. of SAMPLES		#
	Min	Av	Max	Min	Av	Max	Min	Av	Max	TOC	S ₂	
Bongabinni	3.88	32.90	54.30	12.70	116.22	174.79	321	352	417	5	5	1
Carribuddy	0.52	0.85	1.28	1.3	3.53	6.26	250	379	489	3	3	2
Upper Goldwyer												
Barbwire Terrace	0.46	2.01	6.40	1.39	12.99	52.96	288	599	901	34	34	5
Eastern Broome Platform - Dampier - Jurgurra Terrace												
Crystal Ck.-1	0.53	0.59	0.62	1.12	1.16	1.20	193	202	211	3	2	1
Matches S.-1	0.53	1.38	1.77	1.44	6.98	9.93	166	241	285	4	3	1
**McLarty-1	1.10	1.72	2.00	2.30	2.90	3.40	142	173	246	9	9	1
Lower Goldwyer												
Barbwire - Dampier - Northern Broome Platform	0.58	1.67	4.70	0.46	2.43	7.86	58	141	254	82	82	11
Kidson Sub-basin												
**Kidson-1	1.50	2.47	3.80	5.80	8.39	11.00	259	349	550	10	10	1
**Wilsons Cl.-1	0.37	0.99	3.21	0.20	0.94	2.96	27	88	243	6	6	1
Willara												
Jurgurra Terrace												
Matches S.-1	0.82	1.47	2.11	0.93	2.19	3.21	113	143	164	3	3	1
Broome Platform												
Canopus-1	0.70	0.96	1.40	0.37	0.77	1.09	49	80	95	5	5	1
**McLarty-1	1.02	1.09	1.16	0.28	0.29	0.29	25	26	27	2	2	1
Munro terrace												
Pegasus-1	0.70	0.80	0.90	0.30	0.34	0.37	41	42	43	2	2	1
Setaria-1	0.37	0.45	0.57	0.30	0.50	0.80	81	108	140	3	3	1
Nambeet												
Broome Platform												
Edgar R.-1	1.32	1.44	1.52	0.19	0.22	0.25	14	15	16	3	3	1
Hedonia-1	0.44	0.60	1.09	0.05	0.20	0.49	11	33	75	15	15	1
Hilltop-1	0.43	0.60	0.73	0.02	0.15	0.18	4	13	28	7	7	1
Dampier Terrace												
Pictor-1	0.52	0.67	0.84	0.03	0.06	0.07	4	8	11	4	4	1
Lennard Shelf												
Gap Ck.-1	0.68	0.75	0.81	1.39	1.67	1.94	185	223	245	3	3	1
Tappers In.-1	0.28	0.51	1.10	0.11	0.35	1.74	13	38	124	12	12	1
# Number of wells sampled												

Table 1. Selected source rock data, Larapintine 2 Petroleum System. Distribution of major source units (bold) shown in Figure 4. Data from AGSO Orgchem database (as at March 1994).

**** The apparent source richness of these intervals in Kidson-1, Wilsons Cliffs-1 & McLarty-1 has subsequently been shown to be due to contamination of cutting samples from diesel added to the drilling mud (see Kennard, J.M., Jackson, M.J., Romine, K.K., & Southgate, P.N., 1994, Canning Basin Project Stage II - Geohistory Modelling; AGSO Record 1994/67, p. 25 & Appendix F).**

POTENTIAL SOURCE INTERVAL	TOC			S ₂			HI			NO. of SAMPLES		#
	Min	Av	Max	Min	Av	Max	Min	Av	Max	TOC	S ₂	
LARAPINTINE 4												
Anderson	0.03	0.56	3.30	0.00	0.31	1.64	4	39	152	208	102	13
Laurel	0.14	0.80	4.84	0.10	0.75	20.29	7	65	418	214	106	22
LARAPINTINE 3												
Luluigui 0.08	0.43	1.25	0.10	0.19	0.33	9	49	113	182	26	6	
Clanmyer	0.13	0.34	1.60	-	0.08	-	-	5	-	8	1	3
Gogo	0.41	1.49	4.11	0.15	1.64	5.06	51	136	280	26	17	6
Mellinjerie	0.03	0.78	2.41	-	2.05	-	-	85	-	4	1	4
`Merbelia'	1.80	2.38	4.00	3.71	8.93	12.11	277	390	610	4	4	4
`Boab Sst'	0.99	2.45	3.69	0.49	1.90	4.68	39	70	127	3	3	2
Gogo ¹	0.45	2.26	8.08	0.07	3.99	16.27	9	165	532	35	33	20
# Number of wells/localities sampled												
¹ Outcrop and shot hole samples; HI data recalculated from TOC and S ₂ values in Alexander et. al (1985)												

Table 2. Selected source rock data, Larapintine 3 and 4 petroleum systems. Distribution of major source units (bold) shown in Figures 5, 6. Data from AGSO Orgchem database (as at March 1993), and Alexander et. al (1985).

POTENTIAL SOURCE INTERVAL	TOC			S ₂			HI			NO. of SAMPLES		#
	Min	Av	Max	Min	Av	Max	Min	Av	Max	TOC	S ₂	
Noonkanbah	1.02	2.51	4.56	0.19	1.21	5.04	13	43	120	48	38	10
Poole	0.58	2.65	14.33	0.03	2.67	19.30	3	68	148	22	22	8
Grant Shales	0.10	0.64	7.54	0.01	1.30	37.34	2	59	495	136	62	24
# Number of wells sampled												

Table 3. Selected source rock data, Gondwanan Supersystem. Data from AGSO Orgchem database (as at March 1994).

AUTHOR'S BIOGRAPHIES

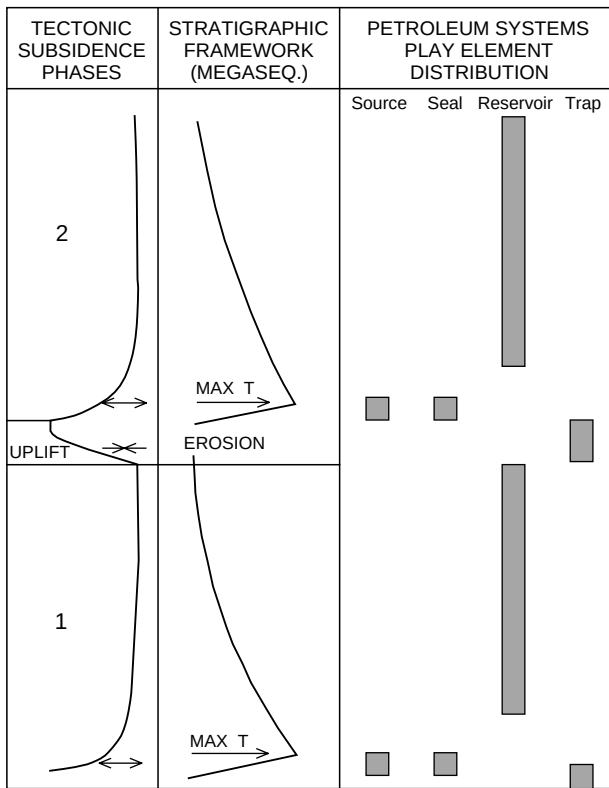
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R $\longleftrightarrow$ T

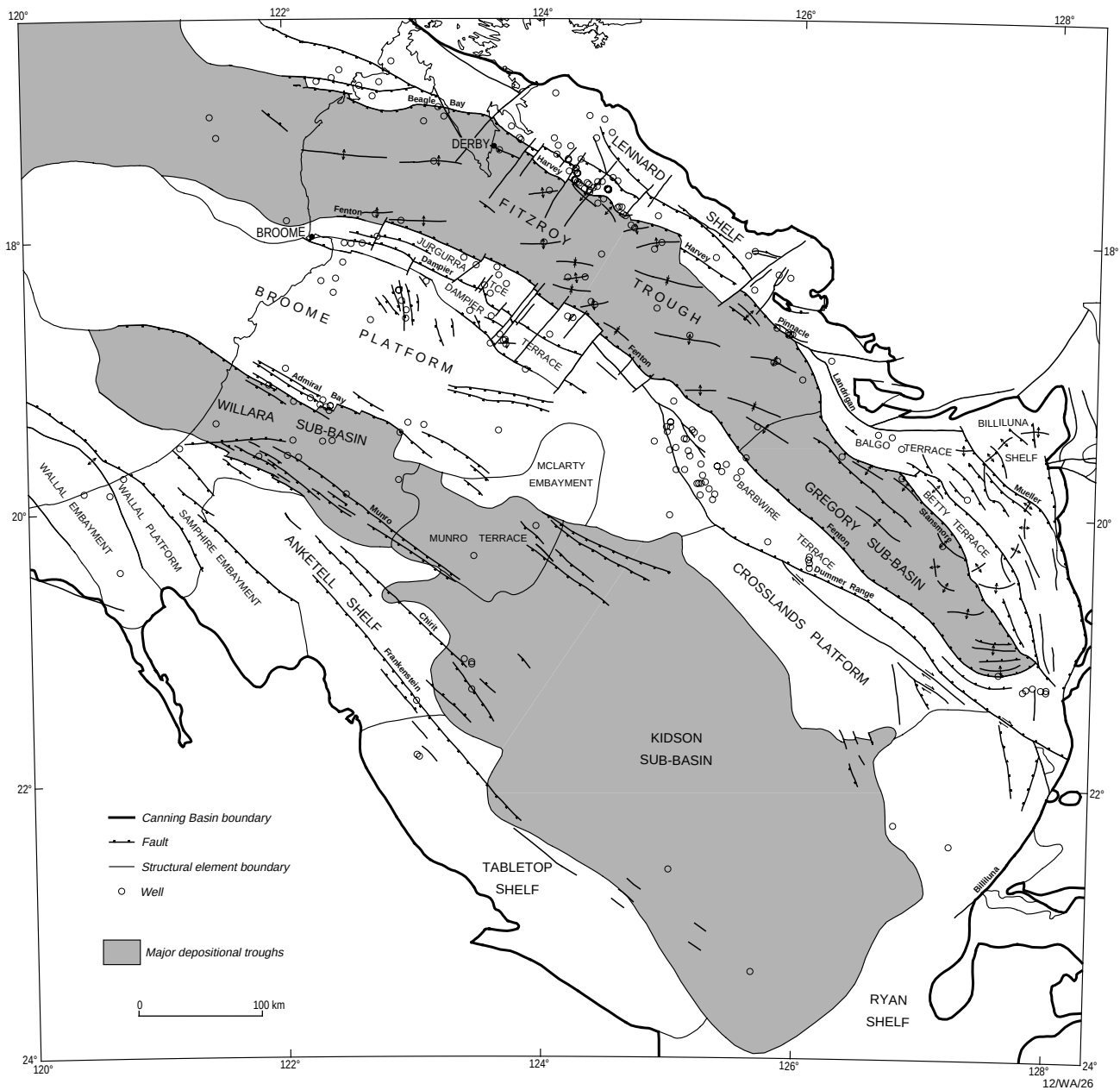
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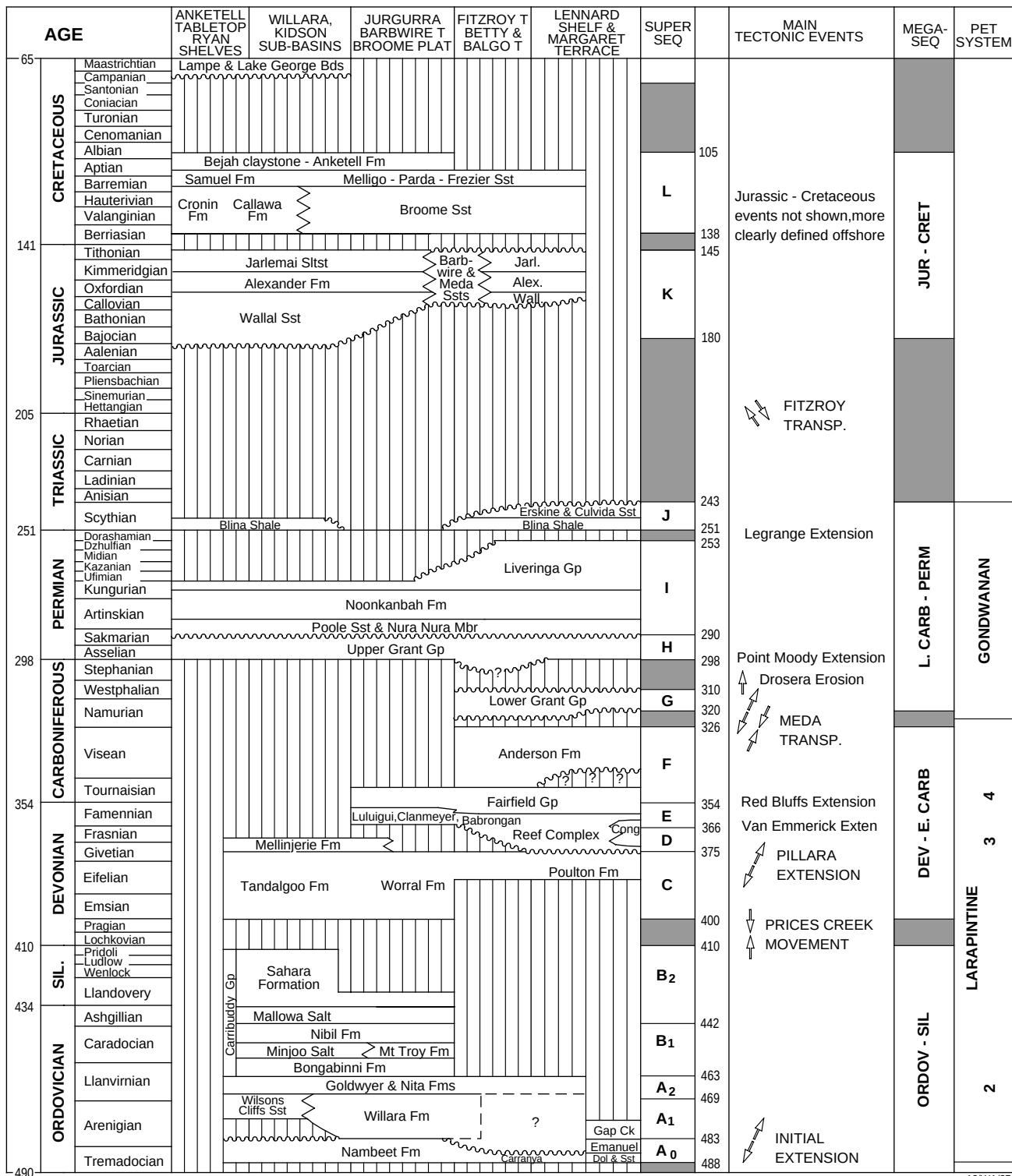
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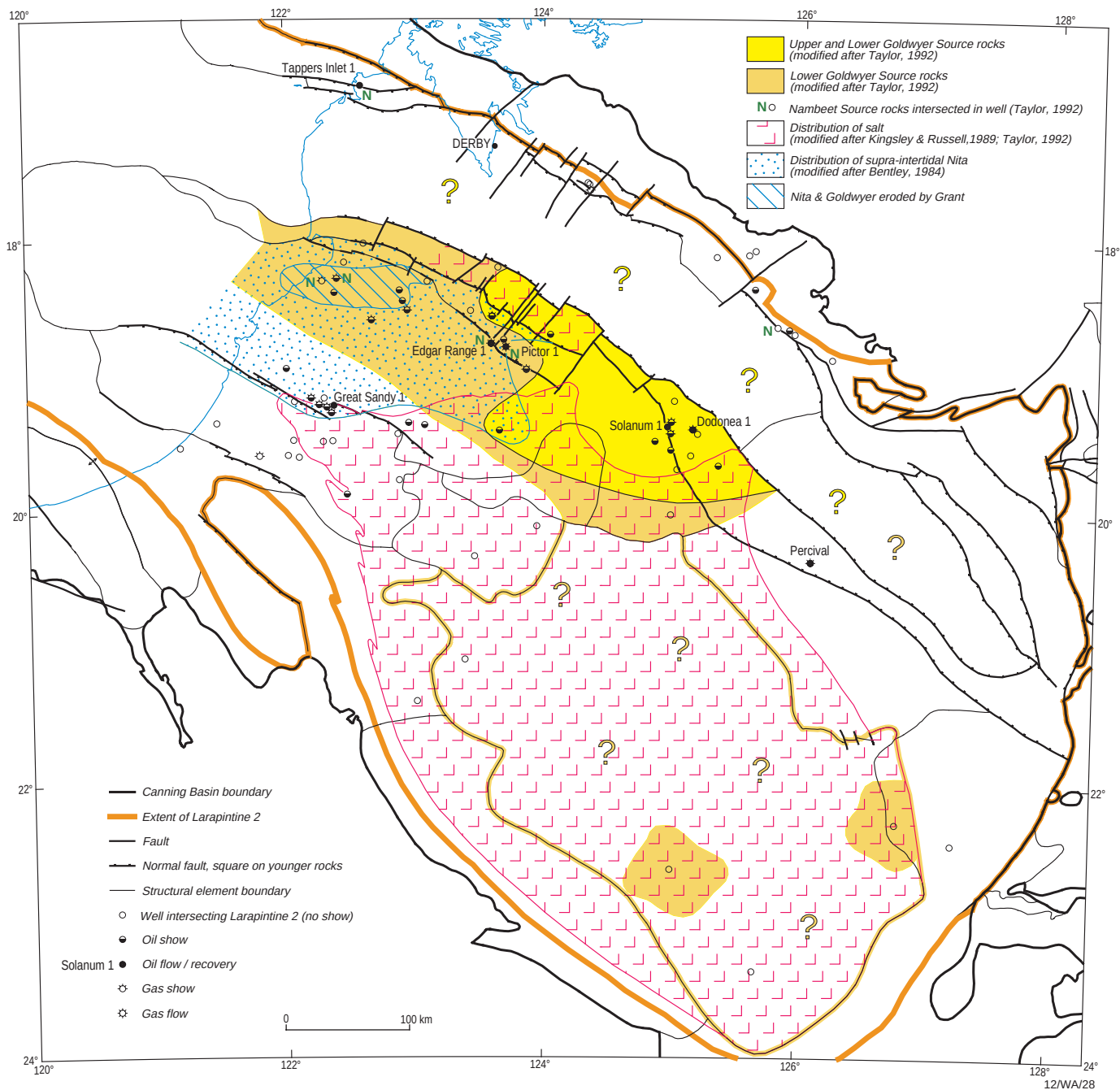
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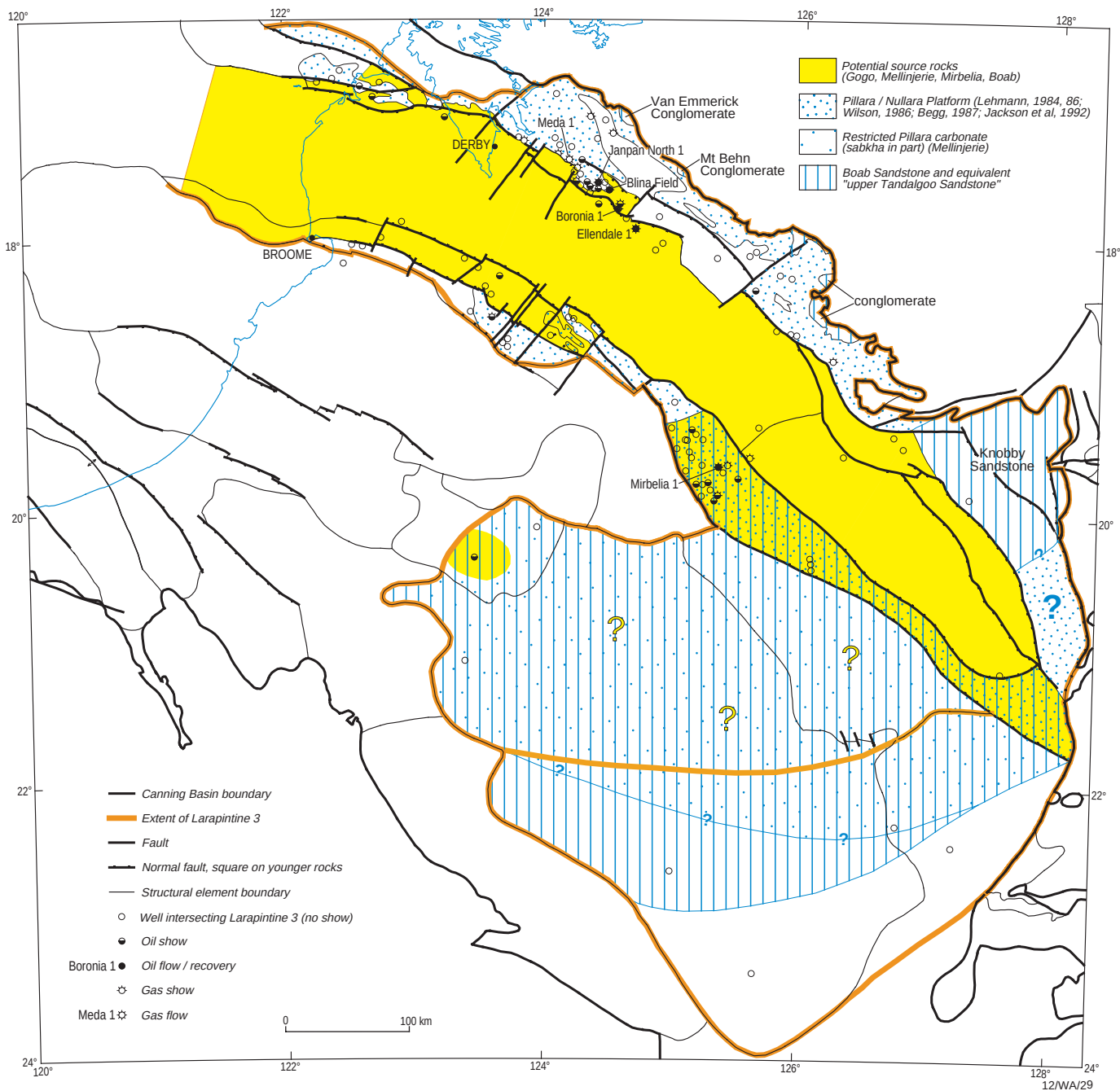
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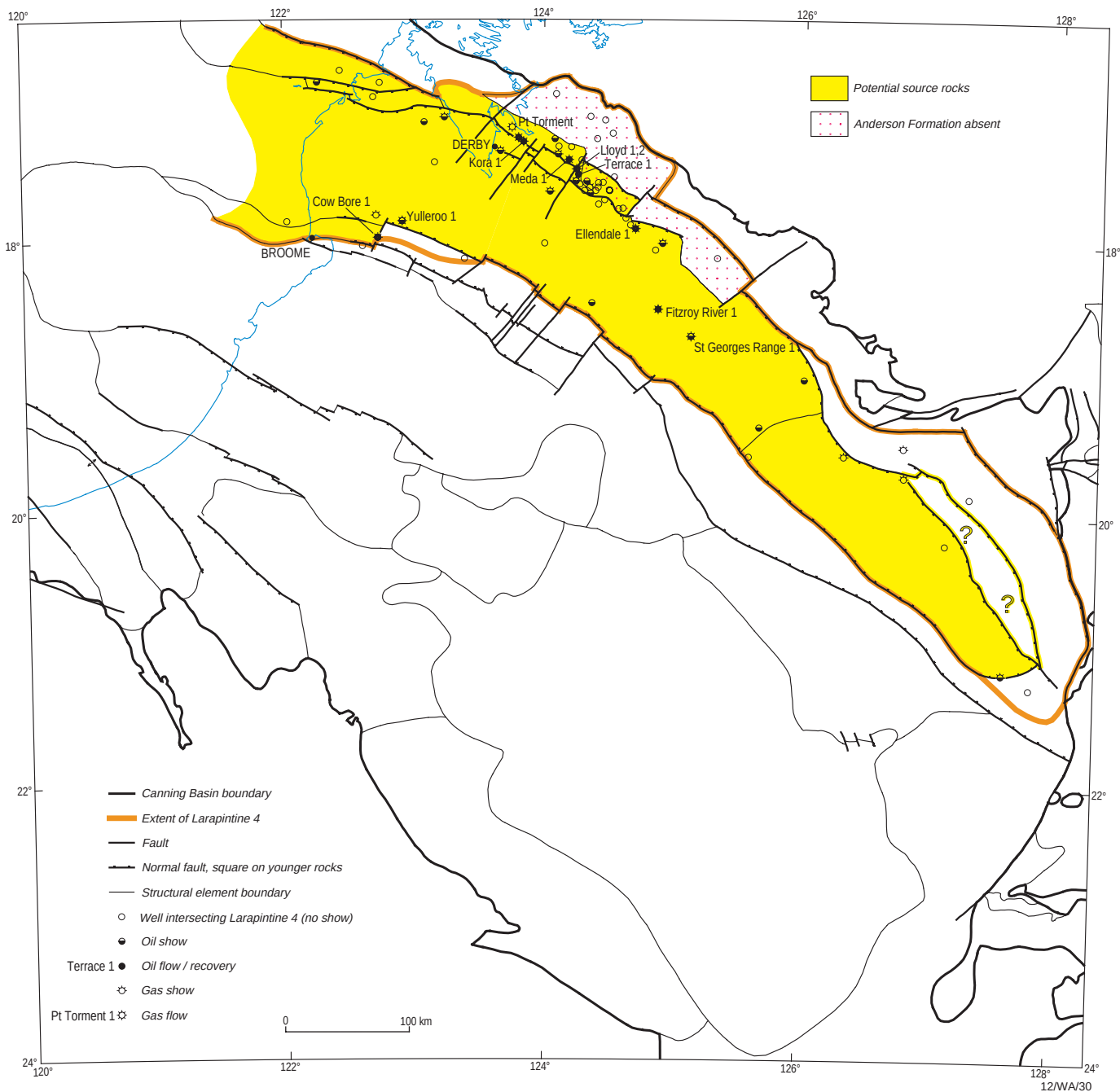
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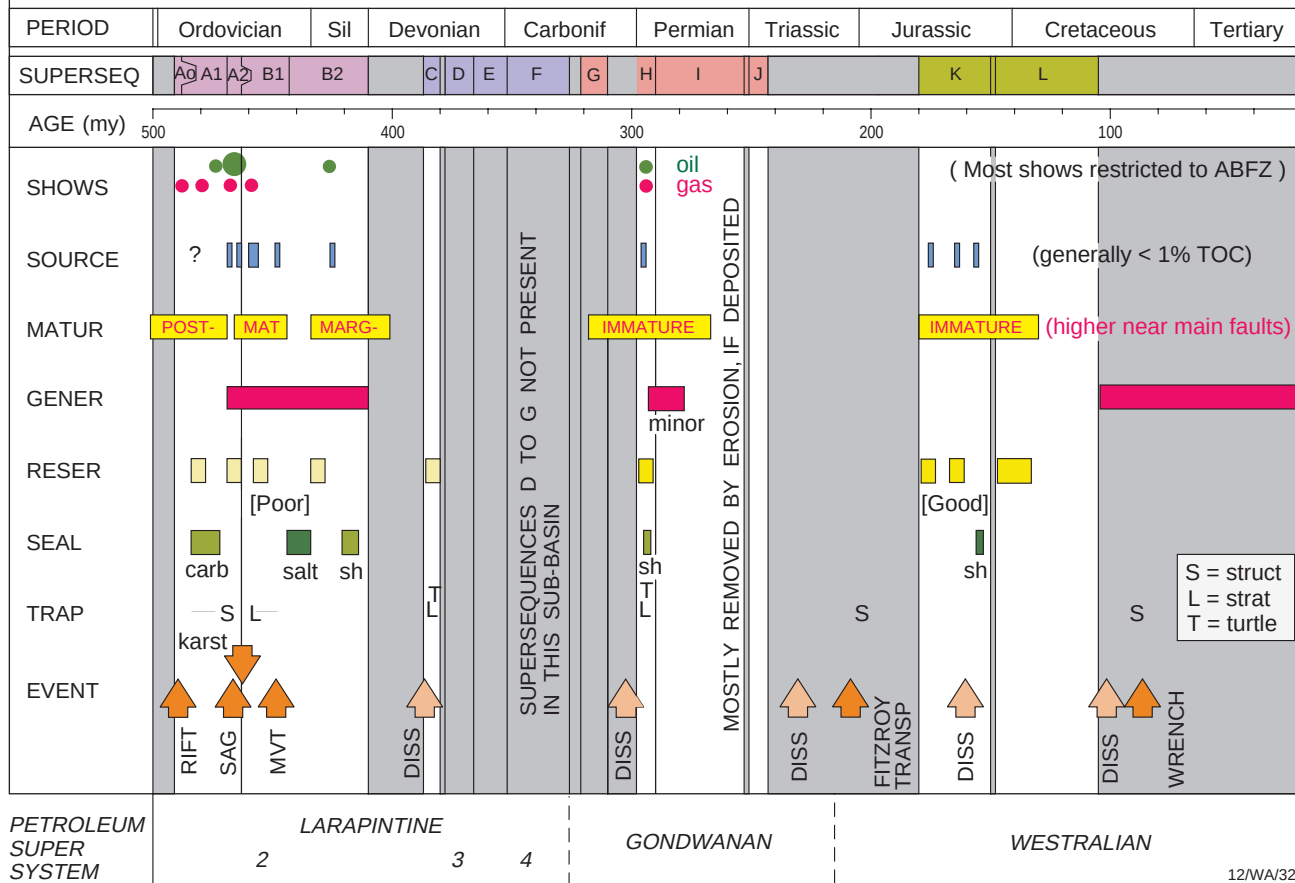


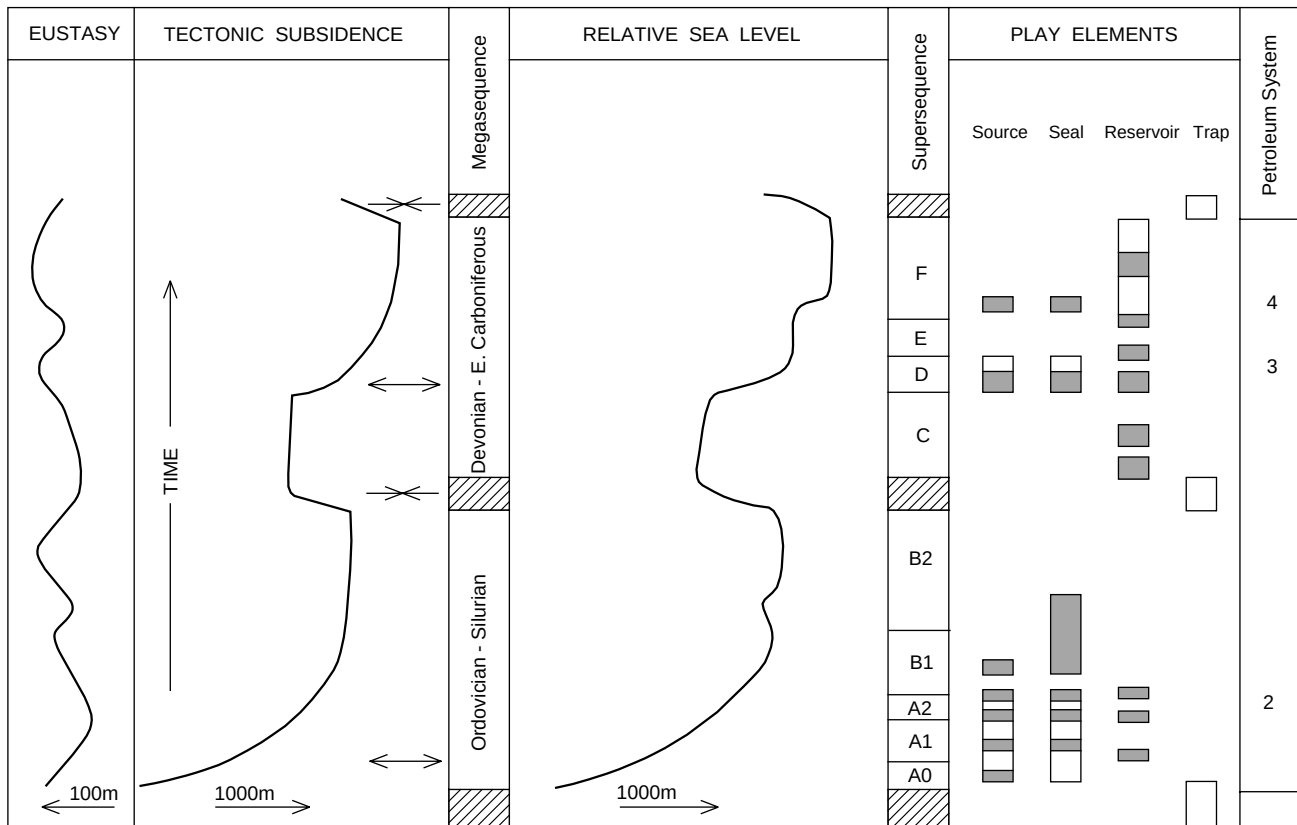




CANNING BASIN - PETROLEUM ELEMENTS:

Willara Sub-basin





12/WA/31

↔ Extension →< Compression

The Ordovician To Silurian Basin Phase, Canning Basin W.A.: Structure and Sequence Evolution

K.K. Romine¹, P. N. Southgate¹, J.M. Kennard¹ & M.J. Jackson¹

Abstract

A chronostratigraphic framework has been constructed for the Ordovician--Silurian basin phase of the Canning Basin. This tectono- and sequence-stratigraphic analysis provides an integrated understanding of the sub-basin container shapes and the effects of accommodation history on the depositional patterns observed within this first-order megasequence. Extension in the early Ordovician (Tremadocian) initiated a period of rapid subsidence and a series of northwest-trending half-graben between the Pilbara and Kimberley Blocks. Along the southern and northern flanks of the basin normal faults with major Tremadocian--Llanvirnian growth form the northern boundaries of deep half-graben. Elsewhere normal faults with relatively minor growth restricted to Tremadocian--Arenigian time form the northern margins of comparatively shallow half-graben depocentres that locally dissect the gently inclined ramps and platforms. Relay ramps develop as zones of displacement transfer linking discrete fault segments within fault zones and at a larger scale entire fault zones. In the Willara Sub-basin these structures may have provided fairways for fluid migration, enabling metal-bearing brines and hydrocarbons to reach reservoir rocks.

Five second-order supersequences and a number of associated third-order sequences are recognised in the Ordovician--Silurian Megasequence. Significant differences exist between the previous lithostratigraphic subdivision and this sequence stratigraphic subdivision. The identification, correlation and mapping of significant stratal surfaces (sequence boundaries and maximum flooding surfaces) enables many of the previously unrelated, but significant lithostratigraphic observations, to be placed in an integrated and predictive chronostratigraphic framework. Horizons of enhanced porosity in the lithostratigraphic Willara and Nita Formations are shown to underlie regional surfaces of subaerial exposure (sequence boundaries). The basinward shift in facies associated with the lower of these two sequence boundaries resulted in coastline progradation and the deposition of a possible reservoir sand facies in the basin. Lithostratigraphic subdivisions had recognised these sandstones, but their correlation and regional significance remained unknown. Intervals of significant organic-matter rich rock deposition are shown to coincide with the maximum flooding surfaces of second-order supersequences and third-order sequences. At the first-order scale the highest TOC values occur in the Goldwyer Formation where they are associated with the time of maximum transgression in the Ordovician--Silurian Megasequence. Lowstand saltern deposits of the Mallowa Salt accumulated in broad depressions that extended across the Canning Basin. Several stages of regional salt dissolution have affected the Mallowa Salt and its present distribution is a combination of primary depositional patterns and secondary dissolution. Periods of regional salt

dissolution coincided with the initiation of new basin phases, tilting and erosion. These events may have created basinal-brine circulatory systems that scavenged metals. A major unconformity of Siluro--Devonian age (Rodingan/Prices Creek Movement) terminated the Ordovician--Silurian basin phase.

Introduction

In a companion paper Kennard et al. (1994) presented an evaluation of the petroleum systems of the Canning Basin. That evaluation was based on an integrated tectonic and chronostratigraphic framework within which the distribution of the key play elements was predicted and systematically assessed. They delineated four active petroleum systems within three Palaeozoic megasequences and concluded that the Larapintine 2 and 3 petroleum systems offered some of the best exploration potential. This study details the structural and sequence stratigraphic evolution of the first-order Ordovician--Silurian Megasequence. The megasequence contains the organic-rich Larapintine 2 source rock interval (Kennard et al., 1994), the source for numerous oil shows in the Canning Basin and the Mereenie Oil Field in the Amadeus Basin (Bradshaw et al., 1994). It was deposited during the first extensional basin phase of the Canning Basin, has a duration of 70--80 million years, and is bounded by major angular unconformities. Tectonic subsidence provided the dominant control on sediment accommodation. Within the megasequence the stratigraphic succession can be further subdivided into second-order supersequences and third-order sequences. The frequency and stacking patterns of these higher-order depositional sequences reflect the effects of eustasy and sediment supply on accommodation. The sequence-based hierarchy of depositional cycles provides a process-based framework within which key play elements of the Larapintine 2 Petroleum System may be both predicted and systematically assessed (Fig. 1).

Method of Analysis

The chronostratigraphic framework presented here resulted from integration of well, seismic and biostratigraphic data (Fig. 2). Seismic reflection terminations were initially identified and seismic sequences mapped in an area where basin to terrace transects permitted geometric relationships to be most easily resolved. Supersequences and their bounding surfaces were also identified on well-logs, and correlated with seismic sequence boundaries using synthetic seismograms. After the well and seismic data were integrated the primary surfaces were correlated throughout the regional seismic grid.

The current configuration of the principal structural elements of the basin was used as the starting point for the structural analysis. As knowledge of the location and movement history of the principal Ordovician faults increased, the shapes of the Ordovician--Silurian sub-basin containers were established. At the same time well-log cross-sections were constructed and correlated at a supersequence and sequence scale. These cross-sections permitted the geometric relationships observed on seismic sections to be calibrated with sequence stacking patterns identified from well-logs and the extent of key petroleum play elements such as organic-rich rock intervals to be mapped.

Structural Setting

Although the current structural configuration of the Canning Basin is the complex product of several phases of extension and transpression (Forman & Wales, 1981), the geometry of the lowermost Ordovician--Silurian basin phase is comparatively well preserved south of the Dampier and Dummer Range faults (Fig. 3). Here the Ordovician--Silurian Megasequence accumulated in a broad intracratonic depression containing fault-controlled half-grabens, associated terraces and broad platforms (Brown et al., 1984). Major depocentres occur in the Willara and Kidson Sub-basins with a subsidiary depocentre in the Samphire Embayment. The Anketell and Tabletop Shelves form a shallow basement along the southern flank of the Kidson Sub-basin while the Broome and Crosslands platforms form mid-basin arches linking the Fitzroy Trough in the north with the Willara and Kidson Sub-basins in the south. To the north of the Dampier, Collins and Dummer Range fault systems Devonian extension displaced, locally truncated and deeply buried the Ordovician--Silurian section to produce the Jurgurra and Barbwire terraces and Fitzroy Trough. Across the Jurgurra Terrace poor seismic data in structurally complex areas renders the Ordovician--Silurian Megasequence increasingly difficult to resolve. Salt intersected in Frome Rocks-1, from the uppermost parts of a salt diapir indicates the presence of the megasequence at depth, but attempts to consistently map this package on seismic, on the 1981-1983 vintage data available were unsuccessful. Across the Barbwire Terrace, well-logs locally supplemented by seismic were used to provide geological control on the Ordovician--Silurian Megasequence.

On the northern margin of the Canning Basin an Ordovician section crops out at Gap Creek in the Emanuel Range and is intersected in several wells, (including Blackstone-1, Gap Creek-1, Grevillea-1 & Justago-1). Correlation of comparable log signatures in Matches Springs-1 and Crystal Creek-1 (Jurgurra Terrace) with Blackstone-1 (Lennard Shelf) indicate that the Lennard Shelf was physically at least 60 km and as much as 80 km closer to the Jurgurra Terrace than today. Estimates of Devonian, Carboniferous and Permian extension for the Fitzroy Trough range from 40 km (Drummond et al., 1991) to 80 km (based on reinterpretation of BMR deep seismic Line 3). Taken together, these estimates indicate that the Ordovician section is missing beneath all but the northernmost portion of the Fitzroy Trough.

The structural subdivision outlined above forms a convenient way of describing the present-day configuration of the basin. But to understand the Ordovician--Silurian basin architecture it is necessary to reconstruct the shape of each sub-basin container and understand relationships between these containers and the associated bounding faults.

Extension in the early Ordovician (Tremadocian) initiated a period of rapid subsidence and a series of half-graben between the Pilbara and Kimberley Blocks (Fig. 5). In the Willara Sub-basin, along the southern flank of the Kidson Sub-basin, and probably in the far north against the Kimberley Block, displacement on

the principal basement-involved normal faults commenced in the Tremadocian and continued into the Llanvirnian (Supersequences A0--A2; Fig. 2). However, in the central part of the basin (B-B₁, Fig. 5) normal faults display only Tremadocian to early Arenigian growth (Supersequence A0 and early A1) and lack growth of Llanvirnian (Supersequence A2) age. The differences in structural style between areas of narrow half-graben development (Willara Sub-basin, southwesternmost flank of the Kidson Sub-basin and Blackstone half-graben) and areas of broad ramps and platforms (Kidson Sub-basin, Broome and Crosslands platforms) suggest that stresses associated with the Early Ordovician period of extension were unequally distributed throughout basement rocks. Preliminary interpretations of aeromagnetic and gravity data (R. Shaw AGSO, personal communication May, 1994) has subdivided basement in the Canning Basin into five provinces. These provinces and their boundaries broadly coincide with areas of different structural style in the overlying Ordovician basin. The majority of the Kidson Sub-basin is underpinned by the oldest and most stable basement block. The southern flank of this basin and western parts of the Willara Sub-basin overlie the northern flank of the northwest-trending Patterson Basement province (a structurally complex area of repeated tectonic activity since 1300 ma). The eastern parts of the Willara Sub-basin overlie the boundary between the stable block beneath the Kidson Sub-basin and a younger basement element beneath the Broome Platform. Shaw (1994) also suggests that Proterozoic to earliest Palaeozoic basement province boundaries may control the position of major Palaeozoic extensional structures. One of these boundaries coincides with the southern margin of the Lennard Shelf while another corresponds approximately with the southern boundary of the Jurgurra Terrace and Crosslands Platform.

The period of extension and rapid subsidence ended during the Llanvirnian. Subsidence rates declined as movement on the principal growth faults ceased and the basin began a stage of prolonged and very slow subsidence (Supersequences B1 & B2, Figs 1 & 2). The switch from high to low rates of accommodation resulted in significantly different stratal geometries and facies distributions as described separately below.

Rapid Subsidence Stage: A0--A2 Time

In the Willara Sub-basin and along the southwesterly flank of the Kidson Sub-basin the Ordovician--Silurian megasequence accumulated in several asymmetric and relatively narrow, 40-100km wide, northwest-trending half-graben (Figs 3,4 & 5). A north-dipping ramp margin characterised the southern part of each half-graben; near vertical and south-dipping, basement-involved normal faults, with adjacent depocentres, characterised their northern growth margins. The Admiral Bay Fault Zone (ABFZ) formed the northern bounding fault to the Admiral Bay half-graben while to the south and east the Munro Fault Zone formed the northern margin of the Munro half-graben (Figs 3 & 4). Further to the southeast the Chirit and Frankenstein Fault zones formed the northern, growth-faulted boundaries to narrow half-grabens whose ramp margins extended to the southern boundary of the Kidson Sub-basin (Fig. 3). Growth displacement varies systematically along the strike of each fault system and reaches a maximum at each depocentre (Fig. 6).

Displacement on each fault zone is transferred to the south and east to the western end of the next fault zone. Thus the Admiral Bay, Munro, Chirit and Frankenstein Fault zones comprise a set of linked en echelon, southeast-stepping normal faults.

The Admiral Bay half-graben (Fig. 4) has a western depocentre in the region of Willara-1 where growth on the Admiral Bay Fault reaches a maximum (Figs 4 & 6). Further to the east displacement on the Admiral Bay Fault Zone (ABFZ) is transferred to the northeast and accommodated by a relay ramp (cf. Schlische, 1993; Fig. 7). The zone of displacement transfer (Great Sandy Accommodation Zone) is associated with a broad basement arch separating the western depocentre near Willara-1 from an eastern depocentre at Vela-1 (Figs 4 & 7). The lead zinc mineralisation intersected in the Nita Downs-1, Cudalgarra-1 and Great Sandy-1 petroleum exploration wells and subsequently drilled by CRA exploration, lie in this relay zone. To the east of Vela-1, Ordovician growth on the eastern extension of the ABFZ decreases and the previously well-defined set of narrow terraces and prominent relay ramps becomes a broad zone of wide terraces and platforms (Figs 3 & 5).

Ordovician growth on the Munro Fault starts near the southern expression of the mid-basin arch which marked the relay ramp on the ABFZ (Fig. 6). Displacement on the Munro Fault reaches a maximum near Munro-1 (Figs 5 & 6) and gradually declines to the southeast as fault displacement and growth steps to the southeast to form the Chirit Fault system. Along strike from the zone of Ordovician growth, serial dip sections demonstrate that normal faults of the Admiral Bay, Munro and Chirit Fault systems collectively extend in an easterly direction into the Kidson Sub-basin where they delineate zones of structural weakness that reactivate during later tectonic events (Fig. 3).

In the Kidson Sub-basin where the density and quality of seismic data is comparatively low it is not possible to map the principal faults with the same detail achieved for the Willara Sub-basin. However, it is possible to map a broad zone of south-dipping, basement-involved normal faults with minor Ordovician growth and associated minor A0 depocentres on their southern sides. Faults in this zone have the same strike trend as those in the ABFZ (Fig. 3) and approximate the northern margin of the Kidson Sub-basin. Further to the south a number of northwest-oriented faults in the Kidson Sub-basin may represent the easterly extensions of the Munro and Chirit Fault zones (Fig. 3). These faults also have minor A0 depocentres on their southern sides, but lack evidence of growth during the remaining parts of the Ordovician--Silurian basin phase.

During deposition of the Ordovician A0--A2 Supersequences, the areas presently encompassed by the Broome and Crosslands platforms formed a broad, gently inclined northward-dipping ramp with a southerly hinged margin defined by the northernmost terrace of the ABFZ (Figs 3 & 5). North of the Great Sandy Accommodation Zone a northeast-trending basement high crosses the Broome Platform. The Broome Platform dips slightly to the west of this high, and plunges more steeply to the east (Fig. 6). Seismic data and well-log cross-sections (Fig. 5) demonstrate gradual thickening of the A0--A2 Supersequences across the Broome

Platform and uniform thickness on the Crosslands Platform. Across the Broome Platform there are several northwest-trending faults that show only minor growth restricted to the A0--A1 Supersequences. These faults occur near McLarty-1, Aquila-1 and Canopus-1 (Figs 5 & 6). North of Canopus-1 the A0--A2 Supersequences gradually thicken as they cross from the Broome Platform to the Dampier Terrace (Crystal Creek-1 & Matches Springs-1, Fig. 5).

Incomplete sections of the A0--A2 Supersequences in wells on the Lennard Shelf and in outcrop in the Emanuel Range provide evidence for an Ordovician stratigraphic section in excess of 1800 m. On the Lennard Shelf the preserved thicknesses of individual supersequences are comparable to those intersected in Willara-1. This suggests that Ordovician sediments preserved on the Lennard Shelf represent the remnants of a much thicker section that accumulated in a depocentre, the Blackstone half-graben in close proximity to an Ordovician growth fault (Fig. 5). Although Devonian extension and subsequent transpression has destroyed the geometry of the original half-graben the Oscar and 67-Mile Fault Systems may follow the trend of an earlier Ordovician normal fault.

Slow Subsidence Stage: B1 & B2 Time

Rocks of Middle Ordovician (Llanvirnian) to Upper Silurian (Pridoli) age in Supersequences B1 and B2 (Fig. 2) accumulated in several slowly subsiding and extremely broad sub-basins lacking the pronounced half-graben geometries previously described. A period of regional uplift and erosion commenced in early--mid Silurian time and ended in the earliest Devonian (Prices Creek Movement) terminating this phase of deposition. The thickest sections of Supersequences B1 and B2 occur to the north of Kidson-1 in the Kidson Sub-basin (Howell, 1984) where a broad depocentre is located above the projected easterly extension of the Munro Fault Zone. In the Willara Sub-basin erosion and salt dissolution at the base of the Devonian--Early Carboniferous and Late Carboniferous--Permian megasequences has removed the B2 Supersequence and much of the B1 Supersequence from the Anketell Shelf, western Willara Sub-basin, Broome and Crosslands platforms and the southern terraces of the Fitzroy Trough. However, preservation of the B1 and B2 Supersequences in the Willara Sub-basin east of the Great Sandy Accommodation Zone indicates an axial depocentre to the south of Vela-1, near Brooke-1, and a subsidiary depocentre near McLarty-1.

Relay Zones

The basement-involved normal faults of the Admiral Bay, Munro, Chirit and Frankenstein Fault zones are discontinuous and segmented along strike, and display en echelon stepping and overlap of fault segments to form relay zones (Figs 3 & 6; Larsen, 1988; Schlische, 1993). A relay zone is a type of transfer or accommodation zone in which the displacement between fault segments is transferred by the stepping or overlap of the ends of the segments. The en echelon offset between two normal faults results in a relay ramp between them (Fig. 7). The ramp links the hanging and footwall blocks and may be fractured by faults that connect the overlapping normal faults. The relay ramp method for transferring fault

offset displacement contrasts with the orthogonal transfer fault mechanism of Gibbs (1984), and may be more common (Roberts & Yielding, 1994; Morley et al., 1990). Alternatively, Peacock & Sanderson (1994) suggest that relay ramps may be one step in the evolution of a transfer zone from a stage of no fault segment linkage to a stage of linkage by oblique transfer faults.

With few exceptions (e.g. Norlin, 1984) most of the major normal faults in the Canning Basin are mapped as either smoothly linked features (e.g. Lehmann, 1986) or stepped-structures linked by orthogonal transfer faults (Etheridge et al., 1988; Begg, 1987). In contrast to both of these interpretations this study shows that the principal Ordovician growth faults are segmented, stepped and overlapping structures linked by relay ramps. Orthogonal transfer faults, where identified, may be more closely associated with Devonian deformation experienced during rifting of the Fitzroy Trough and, in some cases, may have evolved from older Ordovician, relay ramp-style accommodation zones (cf. Peacock & Sanderson, 1994).

Relay ramps may link fault segments and, increasing the scale, fault blocks, sub-basins and basins. The ramp is likely to form a topographic focal point for development of drainage systems and sediment transport. Deformation within the ramp provides an opportunity for hydrocarbon trap formation in folds and fault-related structures. There are numerous examples from basins around the world of the association of hydrocarbons with relay accommodation zones (Peacock & Sanderson, 1994; Gawthorpe & Hurst, 1993; Morley et al., 1990). Lehman (1986) noted that occurrences of hydrocarbons and mineralization in the Canning Basin seemed to be related to postulated transcurrent faults (i.e. transfer zones). Our recent work and the conclusions of Norlin (1984) highlight the occurrence of petroleum shows and base-metal mineral deposits in the Great Sandy Accommodation Zone of the ABFZ. Previous work in the northern part of the Canning Basin also suggests an association of oil fields (e.g. Sundown, West Terrace and Lloyd) with transfer/accommodation zones on the Lennard Shelf (Jackson et al., 1992).

Extensional fault blocks, or rift segments, are commonly separated by basement highs that are associated with relay-style transfer zones (Nelson et al., 1992; Gawthorpe & Hurst, 1993; Fig. 7). In the southern Canning Basin the Great Sandy Accommodation Zone is associated with a basement arch that separates the two principal depocentres in the Admiral Bay half-graben (Fig. 6). The depocentres form 'kitchens' where potential source rocks deposited in the deeper parts of the basins would be matured. The arch provides a fairway for migrating fluids, thereby concentrating any metal-bearing brines or petroleum and bringing these fluids into contact with potential reservoir rocks. Similar scenarios to the one outlined above may have also developed along the Munro, Chirit and Frankenstein faults during the Ordovician, and along the northern and southern sides of the Fitzroy Trough as a result of Devonian extension. On the Lennard Shelf, lead-zinc deposits and marked steps in the strike-trend of the Devonian reef complex coincide with offset segments of normal faults (Lehmann, 1986; Begg, 1987). In the Devonian, relay zones associated with the Harvey-Pinnacle fault system may have acted as conduits along which coarse clastics were transported and subsequently deposited

as lowstand basin floor fans near the base of relay ramps (Holmes & Christie-Blick, 1993; Southgate et al., 1993).

The impact of transfer zones on the distribution of sediments and their function as conduits for fluid migration makes it extremely important that their location and style of transfer be identified and mapped. Identification and subsequent definition of these structures is dependent on the spacing and orientation of 2-D seismic reflection data, which is often shot perpendicular to strike and, therefore, subparallel to potential transfer zones (Gawthorpe & Hurst, 1993). If the potential of these exploration targets is to be realistically assessed, an understanding of the geometry and structural development of the relay ramps and associated accommodation zones must be achieved with the help of purpose-designed seismic surveys.

Sequence Stratigraphy and Basin Evolution

The Ordovician--Silurian megasequence comprises five supersequences and a number of associated third-order sequences (Fig. 2). Regardless of magnitude, an unconformity surface, or in a basinward position, its correlative surface, bounds each sequence. Complete sequences display a sedimentary succession characterised by a basinward shift in facies at the base (lowstand systems tract) followed by transgression (transgressive systems tract) and ending in regression (highstand systems tract; terminology after Van Wagoner et al., 1988). Significant differences exist between the sequence-stratigraphic packages established in this study and the previously defined lithostratigraphic or formation-based stratigraphy. In this study supersequence and sequence boundaries generally are placed within previously defined lithostratigraphic units. For example the base A1, A2 and B1 Supersequence boundaries occur within the upper parts of the Nambeet, Willara and Nita Formations respectively. Lithostratigraphic or rock-stratigraphic units are defined by their dominant constituent facies and are regionally time-transgressive. Sequence stratigraphy utilizes the time significance of physical stratigraphic surfaces to subdivide and package rocks into sequences. Within this chronostratigraphic framework the sequence stacking patterns (time-series) and lateral facies relationships (time-slice) provide insight into the interaction of regional and global tectonic and eustatic events that controlled the evolution of the basin and basin-fill.

On seismic sections each supersequence is recognisable as a discrete seismic package (Fig. 8). In half-graben depocentres, low-amplitude reflections characterise the lower portions of Supersequences A0--A2 (Fig. 8) and correspond with basinal shale and siltstone deposits. High-amplitude events characterise the upper, more regressive parts of each supersequence indicating interbedded shale/carbonate deposition prior to the basinward shift in facies associated with the sequence boundary. Although the partitioning of seismic facies is most pronounced in basinal positions, sections that image platform and ramp deposits show similar reflection character. In these positions the low-amplitude interval of shale/siltstone cycles is thinner than the zone of high-amplitude reflections. Supersequences B1 and B2 show similar acoustic patterns to those previously described, but the slower

rates of subsidence result in much thinner low-amplitude zones, so that shallower water progradational cycles and more reflective seismic packages dominate. Five log-based cross-sections (Figs 9--13) demonstrate how the supersequences and some of the higher-order sequences are correlated throughout the basin. In Figure 13 the A1 and A2 Supersequences are subdivided into their component third-order sequences and where total organic carbon (TOC) data is available, these values are plotted against depth. Palaeogeographic maps integrate and display lateral facies relationship for selected chronostratigraphic intervals (Figs 14 & 15).

Transgressive Stage

Supersequence A0

Transgression and initiation of sedimentation in the Ordovician--Silurian Megasequence began with deposition of the proximal, shallow marine facies of the A0 Supersequence. Sediments belonging to Supersequence A0 are broadly equivalent to the Nambeet Formation and its outcrop equivalents, the Carranya Beds, Kunian Sandstone, Kudata Dolomite, and Emanuel Formation (Nicoll et al., 1993). These mixed clastic and carbonate facies accumulated in the first half-grabens that formed during extension and initiation of the basin. The thickest successions are found in half-graben depocenters where dominantly fine-grained terrigenous clastics were deposited in basinal settings (Willara Sub-basin: Willara-1, Fig. 9; Blackstone half-graben: Grevillea-1, Gap Creek-1 & Justago-1, Figure 5; & Samphire Embayment: Samphire Marsh-1). The supersequence is often thin or absent on the high-side blocks of normal growth faults, but where present mixed carbonates and terrigenous clastic sediments deposited in more proximal settings are the dominant facies (Leo-1, Fig. 9; Munro-1, Fig. 10). Variable quality in seismic data inhibits the interpretation of this unit, but, in general, its greatest thickness occurs south of the ABFZ, in the half-graben south of Sahara-1 adjacent to the Chirit Fault Zone and in the Blackstone half-graben. Although the supersequence is poorly represented in wells and minimally in outcrop regional facies distribution suggests more proximal, perhaps nearshore marine to fluvial, dominantly clastic facies in the east, with finer-grained terrigenous clastics and carbonates to the west.

There may have been a shallow proto-Larapintine Seaway connecting the Canning and Amadeus basins during A0 time. A shallow marine basin, deepening and opening to the west, is suggested by the distribution of facies, from proximal, fluvial to shallow marine sandstones in the Amadeus Basin (Pacoota Sandstone; Gorter, 1991), to shallow marine clastics and carbonates in the Canning Basin.

Supersequence A1

During the deposition of Supersequence A1 the Larapintine seaway extended across the Australian craton (Walley et al., 1991). In the Canning Basin marine deposits in Supersequence A1 comprise the uppermost parts of the Nambeet and Emanuel Formations and most of the Willara and Gap Creek Formations (Fig. 2). Seismic onlap in the Willara Sub-basin and across terraces of the ABFZ defines the lower bounding surface of this supersequence. In wells, the unconformity is marked by a basinward shift in facies where regressive carbonate deposits of

Supersequence A1 overlies more basinal, shaley facies of Supersequence A0 (e.g. Willara-1, Fig. 9). This forced regression (terminology after Posamentier, 1992) results in the basal unconformity occurring within the upper Nambet Formation rather than at its top. Platform carbonate deposits dominate the A1

Supersequence. Basinal shale and shaley carbonates define the transgressive flooding surfaces associated with the higher-order sequences (e.g. Willara-1, Fig. 13). These deposits correlate with organic-matter rich calcareous shales of the Horn Valley Siltstone in the Amadeus Basin. On the Barbwire Terrace (Acacia Sands), the northern Ryan Shelf (Wilson Cliffs Sandstone) and in the eastern Blackstone half-graben (Gap Creek Formation), the comparatively coarse-grained sandy carbonate facies and gradually thinning section (Figs 12 & 14a) imply an east-northeast provenance and proximity to a shoreline.

Growth on the ABFZ throughout this supersequence is apparent on seismic (Fig. 8) and resulted in a thick A1 package on the northern side of the Willara Sub-basin. In the depocentre five higher-order sequences are recognised in the A1 Supersequence (Willara-1 a--e, Fig. 13). This contrasts with the three third-order sequences recognised on the adjacent high-side fault block and southern Broome Platform (Leo-1 & Parda-1, Fig. 9) the northern margin of the Broome Platform and Dampier Terrace (Thangoo-1A, Fig. 9, Hedonia-1 & Pictor-1, Fig. 13) and the two sequences identified on the Barbwire Terrace (Acacia 2, Fig. 13). Because the lowermost sequences are only recognised in the basinal depocentre at Willara-1 most of the Broome Platform, Dampier and Barbwire terraces were probably subaerially exposed at the base A1 supersequence boundary. Thus, while deposition was taking place in the depocentre, the remaining parts of the basin were undergoing erosion or non-deposition.

In Supersequence A1 the stacking patterns of higher-order carbonate facies demonstrate that rates of sediment production were able to aggrade (catch-up) and prograde (keep-up) with rates of increase in accommodation (terminology after Sarg, 1988). On the low-sides of growth faults where subsidence rates were high, aggradational stacking patterns predominate; while on the high-side of growth faults where slower subsidence rates occur, progradational stacking patterns predominate. In the latter parts of the A1 highstand the rate of accommodation decreases on both sides of the growth fault and progradation takes place.

An unconformity surface with associated karst and meteorically-enhanced porosity (Goldstein, 1989) defines the top of this supersequence (Thangoo wells & Hedonia-1, Figs 9 & 12). On the Barbwire Terrace and along the southern margin of the Kidson and Willara Sub-basins, a basinward shift in facies occurs above the unconformity surface (Percival-1, Frankenstein-1, & Calamia-1, Figs 9, 11 & 12). This lowering in relative sea level can be correlated with the Maloney Creek Eustatic Event of Nicoll et al., (1991).

Supersequence A2

The time of maximum transgression in the Ordovician--Silurian Megasequence occurs in Supersequence A2 (Fig. 1) and coincides with the greatest geographic extent of the Larapintine Seaway (Walley et al., 1991). For a brief period the

deepest water and most organic-rich facies accumulated in the basin. Maximum inundation of the Canning Basin was followed by a series of increasingly regressive sequences as the rate of tectonic subsidence began to decrease.

On seismic sections thinning and onlap across the ABFZ defines the base of Supersequence A2 (Fig. 8). At the basin margins near-shore marine and possibly non-marine sandstone deposits with a 'blocky' gamma log signature overlie marine calcareous siltstones and shaley limestones belonging to the uppermost parts of Supersequence A1 (Calamia-1, Frankenstein-1 & Percival-1 Figs 9, 11 & 12). This abrupt basinward shift in facies is interpreted to result from a fall in relative sea level. Although not indicated in Figure 1 this fall is the eustatic event that resulted in a narrowing of the Larapintine Seaway (Fig. 14a). The associated unconformity can be correlated into the Amadeus Basin and corresponds to the regional unconformity separating the Horn Valley Siltstone from the Stairway Sandstone.

Throughout the basin Supersequence A2 is divisible into three higher-order sequences (a--c, Fig. 13). Although these sequences are thickest in the depocentres, areas of greatest accommodation, (Willara-1, Figs 9 & 13) they also occur on terraces on the high-side of growth faults, areas of least accommodation (Leo-1 & Parda-1, Fig. 9; & Munro-1, Fig. 10). In the Willara Sub-basin and on terraces of the Admiral Bay and Munro Fault zones shale and calcareous siltstone deposits dominate the three third-order sequences of A2 (Willara-1, Fig. 13, Leo-1 & Parda-1, Fig. 9 & Munro-1, Fig. 10). Each of these third-order sequences displays the same set of gamma log trends: lowstand deposits aggrade, transgressive deposits backstep and highstand deposits prograde. The maximum flooding surface (Fig. 13) marks the switch from backstepping to progradational gamma log trends. Each third-order sequence boundary occurs within a carbonate unit (e.g. mid-Goldwyer Carbonate and Nita Formation). These carbonate units record forced regression at the end of the highstand and the basinward shift in facies associated with the lowering of relative sea level at the sequence boundary (Willara-1, Fig. 13, Calamia-1, Leo-1 & Parda-1, Fig. 9 & Munro-1, Fig. 10).

Compared with the relatively thick fine-grained shale deposits of the Willara Sub-basin the lower two third-order sequences on the northern Broome Platform, Dampier and Barbwire terraces are comparatively thin and condensed (sequences A2a & A2b in Pictor-1 & Acacia-1, Fig. 13; Edgar Range-1 & Matches Springs-1, Fig. 10). On the Barbwire Terrace some carbonate production occurred during the highstand of sequence A2b, but on the northern Broome Platform and Dampier Terrace sediment starvation occurred and organic-matter rich calcareous shale and siltstone were deposited. Whereas sequences A2a and A2b (Fig. 13) are relatively condensed along the terraces (Fig. 12) sequence A2c displays markedly different facies and stacking patterns to those in the underlying two sequences. In Pictor-1 (Fig. 13), Edgar Range-1 and Matches Springs-1 (Fig. 12) the gamma-log trend shows a thick aggradational and gradually backstepping pattern composed of shale/carbonate cycles. Carbonate half-cycles predominate in the lower parts of the section (mid-Goldwyer carbonate) and as the gamma curve log-motif gradually backsteps, the lower and deeper water shaley part of the cycle predominates (upper-Goldwyer shale). The aggradational carbonate rich cycles accumulated

during the lowstand and early transgressive systems tract when sediment accumulation attempted to keep-up with the rate of rise in relative sea level. However, as the rate of rise in relative sea level increased the shale half-cycle gradually predominated, rates of carbonate production declined and shale deposition predominated during the period of maximum flooding. Increased rates of carbonate sediment production returned during the ensuing highstand as the rate of rise in relative sea level declined and Nita carbonate progradation took place.

The basinwide distribution of all three higher-order sequences in Supersequence A2 indicates that all parts of the basin were flooded in each third-order transgression. This scenario contrasts with the gradual transgression recorded in Supersequence A1, but is consistent with Supersequence A2 representing the time when rates of increase in accommodation were at a maximum in the first-order Ordovician--Silurian megasequence. The maximum flooding surfaces of the three third-order sequences in A2 mark the most significant period of source rock deposition in the Ordovician--Silurian basin phase (Fig. 13). In the Willara Sub-basin TOC values are consistently low ($< 0.5\%$). Such low values may be due to high background levels of shale deposition and subsequent organic-matter dilution and/or lack of sufficient nutrients in the water column to maintain high levels of productivity in this Sub-basin. These low values contrast with the high TOC content of A2 sediments deposited along the northern Broome Platform, Dampier and Barbwire terraces (Fig. 13, Kennard et al., 1994). Along the ramp margin for the Blackstone half-graben (Fig. 5), source rock richness varies between wells and from one third-order maximum flooding surface to another (Fig. 13). These variations suggest that although the primary control on source rock deposition is related to the period of maximum flooding on a megasequence scale (Fig. 1), palaeogeographic position and sediment supply also affect the distribution and preservation potential of Gloeocapsamorpha prisca, and hence, source rock richness in these third-order sequences.

Figures 14b and c summarise facies distribution patterns for sequences A2b and A2c. The two maps illustrate the increasingly regressive character of sequences in the Nita and Goldwyer Formations. Although the Nita and mid-Goldwyer carbonates are potential reservoir facies, their facies patterns offer a guide to explain the distribution of the upper and lower Goldwyer source rocks (Kennard et al., 1994, their Fig. 4). The shallowest of the facies interpreted from the mid-Goldwyer carbonate are cyclic peritidal facies along the Jurgurra and Barbwire terraces (Fig. 14b). Lower Goldwyer organic-rich facies occur along the terraces, particularly in the central and western areas, and have a similar distribution pattern to the mid-Goldwyer carbonate (Kennard et al., 1994). During the A2c highstand (Nita), the most regressive and proximal facies became established on the northwestern Broome Platform and terraces, and supratidal carbonate took the place of the older mid-Goldwyer peritidal facies. Upper Goldwyer source rocks deposited in the transgression prior to Nita deposition are confined to the east on the Barbwire and easternmost Jurgurra terraces.

During lower Goldwyer time the Larapintine Seaway probably extended across the Kimberley Block. In the Blackstone half-graben relief along the northern-bounding

growth fault may have acted as a shallow shelf-margin and provided a focus for development of an upwelling circulatory system in the Blackstone half-graben. As the nutrient-rich 'deeper' waters of the Blackstone half-graben reached the photic zone, high rates of biological productivity and organic-matter production took place and eventually led to the accumulation of organic-rich sediments on the Broome Platform and terraces. By upper Goldwyer time, growth on faults and subsidence had virtually ceased. Sedimentation kept up with subsidence, regression occurred and proximal facies belts rapidly prograded from the structurally higher areas (Figs 6 & 14c). Upper Goldwyer source rocks were deposited in condensed sections on the Barbwire Terrace and, as before, the terraces and Broome Arch acted as a focal zone for the accumulation of these organic-rich facies.

The end of active growth in the various half-graben signals the end of extension and the beginning of the slow subsidence stage. The top A2 sequence boundary occurs within the Nita Formation. On the northern Broome platform Nita Formation carbonates have reasonable primary porosity (Bentley, 1984) and in Great Sandy-1 a zone of enhanced porosity occurs in terminal highstand carbonates beneath the sequence boundary (Norlin, 1984). On the Barbwire Terrace erosion at this sequence boundary truncates the upper portions of the A2 Supersequence and, in Dodonea-1, removes the Nita Formation and most of the upper Goldwyer shale (Fig. 12).

Regressive Stage

Supersequence B1

By the beginning of B1 deposition the rate of accommodation was low (Fig. 1). The basin was mature, and responded quickly to small increases in accommodation by rapidly filling that space. The Larapintine seaway became discontinuous and fragmented, and the low latitude and arid climate resulted in an increasingly evaporitic basin. Sedimentation was dominated by marginal marine, playa and saltern facies coincident with gradual restriction of circulation and basinwide regression, culminating in salt deposition.

The supersequence comprises the upper parts of the Nita Formation and the Bongabinni, Nibil and Mt. Troy Formations, Minjoo and Lower Mallowa Salts of the Carribuddy Group. In Willara-1, Pegasus-1, McLarty-1 and Kidson-1 (Figs 9 & 11) the B1 Supersequence can be divided into two third-order sequences. In the lower sequence, intertidal-supratidal dolostones of the Nita Formation overlie the supersequence boundary and have a progradational (keep-up) gamma log motif. These proximal facies pass upwards into peritidal and shallow marine carbonate, siltstone and shale of the uppermost Nita and lowermost Bongabinni Formations. Here, the gamma log has a backstepping motif indicative of transgression and marine flooding. During this transgression algal coals were deposited in the vicinity of the Great Sandy Accommodation Zone (see Leo-1, Command Petroleum, 1989). Although these coals are of uncertain lateral extent, they provide the source for hydrocarbons recovered in Leo-1 (see Kennard et al., 1994). Regression and gradual restriction followed with the accumulation of red and green mottled shale, siltstone, thinly interbedded dolostone and scattered halite crystals in an

increasingly hypersaline basin. The basinward shift in facies associated with the ensuing third-order sequence boundary resulted in the development of lowstand salterns and deposition of the Minjoo Salt and its associated playa facies (Mt Troy Formation) in depressions within the Willara Sub-basin and in the vicinity of McLarty-1. Minjoo salt deposition was restricted to the Willara Sub-basin, and did not occur in the Kidson Sub-basin (Fig. 15a). The restricted salt distribution implies the existence of a feature with positive relief between the two sub-basins. This feature may originate from differential compaction of the A2 shale, or differential subsidence related to variable composition and structural behaviour of the underlying basement blocks.

In the second third-order cycle, transgression at the base of the Nihil Formation (Willara-1, Fig. 9) inundated the saltern and playa facies and terminated salt deposition. This resulted in the deposition of proximal marine calcareous and dolomitic claystone, interbedded with thin beds of limestone and dolostone with scattered anhydrite crystals. Further regression and increased restriction resulted in a return to halite deposition in saltern and playa environments at the base of the Lower Mallowa Salt.

Depositional patterns in the two third-order cycles demonstrate increased restriction and an overall decrease in accommodation. During the basal transgression the transition from intertidal-supratidal and peritidal dolostones of the Nita Formation to calcareous shale deposits of the Bongabinni Formation records an increase in accommodation and drowning of the “Nita Platform” prior to progradation of the more proximal nearshore clastic facies of the Bongabinni Formation. In the second cycle the absence of peritidal carbonate cycles during the transgressive phase, and the presence of more proximal clastic facies indicates a relative decrease in accommodation. The trend toward increasing restriction characterises the regressive stage of megasequence deposition and demonstrates decreasing rates of accommodation (Fig. 1).

Supersequence B2

A final flooding of the basin preceded a rapid fall in eustasy and precipitation of the Mallowa Salt (B2, Fig. 1). The shaley dolostone-anhydrite-halite-terrigenous mudstone cycles of the Mallowa Salt (Cathro et al., 1992) and highly oxidised siltstone, fine grained sandstone and dolostone deposits of the Sahara Formation comprise the most regressive supersequence deposited during the Ordovician--Silurian Megasequence (Fig. 1). The Mallowa Salt was deposited during the supersequence lowstand and sediments of the Sahara Formation accumulated as transgressive and highstand deposits; much of the latter was removed during the Prices Creek Movement.

The thickest sections of Mallowa Salt are preserved in the Willara and Kidson Sub-basins, the eastern Broome Platform and on the Munro Terrace (Figs 9--12). In Frankenstein-1 (Fig. 11) and Wilson Cliffs-1, on the Ryan Shelf, a relatively thin salt section and proximal evaporite facies suggests deposition near the edge of the saltern system (Fig. 15b). Sombrero structures (Jenyon 1986) on the southwestern parts of the Broome Platform, in the western and southern Willara Sub-basin, and

on the Barbwire Terrace indicate salt dissolution and by inference the deposition of B2 salt in these parts of the basin. Salt diapirs on the Jurgurra Terrace (Frome Rocks-1) and salt intersected in Mirbelia-2 (Fig. 12) indicate that salterns also extended as far north as the present southern margin of the Fitzroy Trough. Together this data suggests that salt deposition occurred throughout the Canning Basin and, although no longer preserved, probably extended into the Blackstone half-graben in the north (Fig. 15b).

In the Willara and Kidson Sub-basins compaction-related depressions above the thick shale deposits of Supersequence A2 may have created areas of increased accommodation during the early stages of salt deposition. Further accommodation was cyclic, with loading during transgression, then salt precipitation capped by playa facies during regression. These cycles have been documented by Cathro et al. (1992) in core from Brooke-1 and can be seen in other wells from the depocentres (Figs 9--11). The increase in frequency and decrease in thickness of log-based cycles suggests deposition during the stillstand of the eustatic low. Low amplitude, high frequency sea level oscillations account for the flooding-desiccation cycles, while thinning upward trends indicate filling of the basin.

As the regressive cycle of salt deposition neared its end and the salterns contracted, increased quantities of shale and siltstone were deposited in each salt cycle (Pegasus-1 & McLarty-1, Figs 10, 11 & 15c). The phase of lowstand salt accumulation ended with the basinwide deposition of a dolostone-nodular anhydrite marker bed (e.g. correlation line and spike on the gamma and dt logs beneath Supersequence C in McLarty-1, Fig. 11). Cathro et al. (1992) describe this marker bed in Brooke-1 and note that the dolostone is of different origin from dolostones in the lower parts of saltern cycles in the underlying Mallowa Salt, concluding that it represents an unconformity. In this study, this horizon is interpreted to mark a return to less restricted, more open marine conditions, initiated by transgression during rising eustatic sea level (Fig. 1). The basinwide occurrence of the marker suggests that the depositional surface was essentially flat and that accommodation was at a minimum.

The remaining portions of the B2 Supersequence correspond to the Sahara Formation (c.f. Lehmann, 1984) and probably represent the entire preserved Silurian (Figs 2 & 11). The sequence-stratigraphic correlations illustrate that most of the Silurian is present in the Kidson Sub-basin while only the early Silurian is preserved elsewhere. This interpretation is supported by age control from late Silurian (Pridoli) fish scales in Kemp Field (Fig. 11; Young & Turner, 1994), early Silurian (Llandovery) conodonts in Acacia-1 (Nicoll & Jones, 1982) and early to middle Devonian (Emsian-Eiffelian) ostracods in Boab-1 (Jones & Nicoll, 1982). As a consequence, part of the Lower Carbonate Member of the Worral Formation (c.f. Lehman, 1984) is actually early Silurian in age and lithostratigraphically belongs to the Sahara Formation (Figs 11 & 12; Nicoll et al., 1994).

With the exception of the Kidson Sub-basin the top of Supersequence B2 is marked by a major angular unconformity (Figs 9--12). Along the northern side of the Blackstone half-graben, erosion at this unconformity removed all or part of the B2,

B1, A2 and A1 supersequences. The unconformity represents the culmination of a major compressional event, the Prices Creek Movement (Kennard et al., 1994), and marks the beginning of a new phase in the evolution of the basin. The age of the tectonic event is not well constrained, but the stratigraphic interpretation in Figure 11 indicates that it may have begun to affect deposition in the early--middle Silurian. The correlations demonstrate that the middle and late Silurian section progressively thins to the north and, between Pegasus-1 and McLarty-1, shows significant truncation, implying that uplift or tilting of the Broome Platform and terraces began during the Silurian, and ended in the early Devonian with subaerial exposure and truncation. The same angular unconformity can be recognized in the northern Amadeus Basin where it is associated with erosion of units as old as upper Cambrian. There, the unconformity resulted from uplift or tilting in the early-to-mid Silurian associated with the Rodingan Movement (Shaw et al., 1991). Thus, the Rodingan and Prices Creek Movements are actually a single, regional tectonic event. The timing of this tectonic event coincides with a major eustatic fall that enhanced the erosional unconformity (Fig. 1). This event marks the end of the Ordovician--Silurian basin phase.

Supersequence C

Reservoir facies of the Tandalgoo Sandstone contain oil occurrences that have been linked with an A2 Goldwyer source. To complete discussion of the Larapintine 2 Petroleum System, a summary of Supersequence C follows. Supersequence C was deposited over the entire Canning Basin as a unit of relatively uniform thickness above the angular unconformity initiated by the Rodingan/Prices Creek Movement. Playa-to-marginal marine facies of the Worral and Poulton Formations fringed the aeolian dunes of the Lower Tandalgoo Formation (Figs 10, 11, 12 & 15d). Salt dissolution was initiated during erosion associated with the Rodingan/Prices Creek Movement. In the western part of the Canning Basin, continued salt dissolution provided accommodation for the Worral and Poulton Formations (cf. Figs 15b & d). Later stages of regional salt dissolution resulted in the formation of Worral-cored sombrero structures. In areas of the basin that were affected by Permian erosion and salt dissolution, sandstones of the Grant Formation form the cores of sombrero structures (e.g. southern and western Willara Sub-basin).

The effect of the Rodingan/Prices Creek Movement on the structure and geometry of the basin has broader implications for the introduction and migration of mineralising fluids in the basin. Tilting and erosion of the sedimentary section not only initiated salt dissolution, but also provided access to stratigraphic conduits facilitating development of large-scale brine circulatory systems in the basin. These systems may have scavenged metals from sediments in the deeper parts of the basin, and subsequently precipitated them in structurally favorable positions (e.g. Great Sandy Accommodation Zone). In Kidson-1, vugs in the Nita Formation are filled with secondary halite and lined by specular hematite, providing evidence for migration of brines through the section.

At the first-order scale, Supersequence C represents the maximum regression in the basin and was deposited during a eustatic lowstand in a period of low accommodation following the Rodingan/Prices Creek Movement (Fig. 1). Thus, Supersequence C can be interpreted as a first-order lowstand and represents the pre-rift sequence prior to Pillara extension (Kennard et al., 1994).

The Larapintine 2 Petroleum System

Definition of the Larapintine 2 Petroleum System in the Canning Basin was covered by Kennard et al. (1994). This paper focusses on the definition of the chronostratigraphic framework within which key elements of the petroleum system occur. Within that framework, the known distributions of key play elements can be examined, their faults and virtues can be put into perspective and explained, and prediction of new play elements can be made.

Figure 16 demonstrates, in schematic form, the components of the Ordovician--Silurian stratigraphic framework and the predicted and actual distribution of key play elements within that framework. The log signature is a composite of two wells, Willara-1 and Pegasus-1, and provides a relatively complete stratigraphic section. The sequence, supersequence, and megasequence 'packages' and trends have been derived directly from the log. The transgressive and regressive trends are apparent without knowledge of the actual facies. At a first approximation, one can predict that source and seal facies (shale-prone) may be more frequently encountered during the transgressive part of the megasequence while reservoirs may be better developed and more frequently encountered on the regressive trend. Based on the higher-order, sequence and supersequence log trends, predicted positions of source, seal and reservoir can be blocked in, and with some knowledge of facies, high-graded. The best source rocks in the Larapintine 2 Petroleum System occur in the Goldwyer Formation. These organic-rich shales were deposited during the time of maximum inundation of the basin. Lower Goldwyer source rocks occur on the maximum transgression; upper Goldwyer source appears later, in the earliest stages of megasequence regression, indicating that other factors are involved. In Figure 16 the composite log reflects deposition in a rapidly subsiding half-graben, with a large input of shale that diluted the organic-matter (Willara-1); logs from the Barbwire Terrace (Figs 12 & 13) show a closer stratigraphic occurrence of the two source intervals, and little dilution. These 'condensed' source intervals provide the richest source rock in the Ordovician--Silurian basin phase.

Although the regressive trend may be generally more reservoir-prone, at least with respect to clastics, that is not the case for the Ordovician--Silurian megasequence in the Canning Basin. A low-latitude paleogeographic position and arid climate resulted in evolution from a carbonate- to an evaporite-dominated basin. The bonus was the deposition during regression of an excellent sealing facies, salt. Carbonate reservoir facies of the Willara, Goldwyer and Nita Formations were deposited during the transgressive to early regressive part of the megasequence. These carbonates are each potential exploration targets. To evaluate their potential reservoir quality, their position within the stratigraphic framework and the palaeogeographic distribution of facies must be considered. The distribution of primary porosity may be mappable by association with a specific facies within a chronostratigraphic unit for example in the intertidal facies of the Nita Formation (Fig. 14c). Prediction of potential secondary porosity development requires the accurate recognition of unconformities and associated exposure surfaces where this type of porosity may be enhanced. Both the Nita and Willara Formations

demonstrate secondary porosity development associated with subaerial exposure and sequence boundaries (Norlin, 1984; Goldstein, 1989). However, while the Nita target has shown the most promise, there has been little success. Other factors, such as timing of trap formation, maturation and hydrocarbon migration, and post-depositional deformation must be taken into account.

Possible Play Concepts

While the Larapintine 2 (L2) system is 'anchored' by Ordovician source rocks, the reservoirs included do not necessarily occur in the same megasequence. One such example is the Tandalgoo Sandstone (Supersequence C), a very porous sand that, in at least one case, may have held L2 oil. On the Barbwire Terrace and Crosslands Platform, this reservoir facies may be present in the top of sombrero structures cored by Supersequence C (Fig. 12). Several factors must be considered. In this part of the basin a sealing facies, the Dominic Shale (Lehmann, 1984) was deposited over the top of Supersequence C. However, the quality of the seal, particularly after continued salt dissolution and formation of the sombrero structure is an unknown quantity. The source rocks are present on the Terrace and depending on timing of maturation, migration and subsequent deformation of the terraces, could have migrated into the reservoir. Closure on the sombrero structures is controlled by the presence of salt. In areas where all salt has been dissolved, the sombreros amalgamate and do not show closure. Where there has been dissolution, but some salt remains to 'support' the periphery of the structure, four-way closure may be achieved. For this reason, the Crosslands Platform may have closed structures while the Barbwire Terrace may not. Migration of hydrocarbons into structures on the Crosslands Platform could have occurred along faults, such as the incipient Dummer Range Fault. However, migration pathways, as yet, have not been demonstrated.

On the Barbwire Terrace diagenetic dolostones of the Nita Formation demonstrate secondary porosity development. Figure 5 indicates a similarity in structural position for the Crosslands Platform in the Ordovician and possibly, similar potential for secondary porosity development in terminal highstand and overlying lowstand carbonates. Salt is present over most of the platform and would provide a seal in certain structural configurations. Low-relief structures and fault-related traps may provide targets. Source is available nearby on the Barbwire Terrace; however, a migration pathway needs to be demonstrated.

In Supersequence A1, a Willara carbonate platform margin was identified along a tilted block of the Munro Fault Zone (Kennard et al., 1994). There is the potential for a more widespread occurrence of these platform margins in similar positions, particularly in the southern Willara and Kidson sub-basins. While sealing facies are not a problem, source facies may be. An alternative to a Goldwyer source would be needed, particularly in the southern Canning. The source potential of the Willara Formation is fair on the Munro Terrace and eastern Broome Platform, but has poor generative potential in the Willara and Kidson sub-basins (Kingsley & Russell, 1989; Kennard et al., 1994).

The base A2 sequence boundary formed during a eustatic fall that resulted in the widespread occurrence of nearshore marine sandstones around the periphery of the basin. Valleys may have been incised into the underlying A1 highstand deposits during the eustatic low and acted as conduits for sand transport prior to its deposition in a basinward position. Sands also may have filled the incised valleys during the subsequent transgression, forming reservoir facies in favorable juxtaposition to A2 source rocks. This sea level lowstand is the only one associated with the introduction of proximal marine sands into the Canning Basin. The formation of karst in the underlying carbonates of the Willara Formation at this time indicates subaerial exposure and, by extension, sediment by-pass in some areas. Submarine fans may have been deposited down-dip of 'margins' controlled by the major fault systems (cf. Kingsley & Russell, 1989), although the more likely association may be with the relay accommodation zones.

Relay accommodation zones have been associated with proven hydrocarbon and mineral accumulations in the Canning Basin (Great Sandy Accommodation Zone). The relay zones provide traps and migration pathways for hydrocarbons that may be generated in the adjacent half-graben depocentres.

Conclusions

A better understanding of the tectonic and stratigraphic evolution of the Ordovician--Silurian basin phase in the Canning Basin has been gained through systematic basin analysis. The resultant chronostratigraphic framework provides a basis for reassessment of current knowledge about the basin's evolution and a context for evaluation of petroleum and mineral prospectivity.

Extension in the early Ordovician created a series of half-graben between the Pilbara and Kimberley Blocks. Growth displacement along the bounding fault zones began with the deposition of the A0 Supersequence. In the central and eastern half of the basin, growth was minor and stopped early in A1 time. The half-graben to the west experienced continued growth until the end of A2 (Nita Formation). The differing subsidence regimes may reflect differences in the underlying basement provinces. The eastern basement province, beneath the Kidson Sub-basin, is the oldest and most stable block, and has more similarity to the cratonic basins to the east. The western basement province, beneath the Willara Sub-basin, is younger and mobile, with a history of repeated tectonic activity.

During deposition of the Ordovician--Silurian Megasequence, the Lennard Shelf and Jurgurra/Barbwire terraces were approximately 80 km closer than at present. To the east the Gregory Sub-basin probably did not exist; to the west, the Blackstone half-graben occupied the position of the southernmost Fitzroy Trough. The Ordovician section thickened to the north into the Blackstone half-graben and against a northern fault boundary that may have been the precursor to the Oscar Range--67 Mile Fault System. During Devonian and younger extensional events, the northernmost part of the Blackstone half-graben broke away along the Fenton

Fault. This portion of the Ordovician section is preserved north of the Harvey-Pinnacle Fault Zone.

The Admiral Bay, Munro, Chirit and Frankenstein fault zones form northern boundaries of the Ordovician half-graben in the southern Canning Basin. These fault zones show variation in vertical (growth) displacement along strike, reaching a maximum at each depocentre. They are discontinuous and segmented along strike, and display en echelon stepping and overlap of fault segments forming relay transfer or accommodation zones. These zones are associated with hydrocarbon occurrences in many basins around the world. In the Canning Basin, they are associated with both hydrocarbon and mineral occurrences.

A sequence-based, chronostratigraphic framework has been constructed for the Ordovician--Silurian basin phase of the Canning Basin. The basis of the framework is a hierarchy of depositional sequences that demonstrate the frequency response of sedimentation to changes in accommodation -- the product of interaction between tectonic subsidence, eustasy and sediment supply. The first-order Ordovician--Silurian Megasequence comprises five second-order supersequences (A0, A1, A2, B1, B2), each of which contains a number of third- and higher-order sequences. At each level, lowstand, transgressive and highstand systems tracts can be identified by the stacking patterns of sequences and supersequences -- a basinward shift in facies and aggradation, lowstand; transgression and backstepping, transgressive; regression and progradation, highstand.

The first half of the Ordovician-Silurian basin phase was characterised by extension, rapid rates of subsidence and basinwide transgression during the deposition of supersequences A0, A1 and most of A2. This transgressive stage was followed by regression, restriction and basinwide deposition of evaporites during deposition of late A2, B1 and B2. Organic-rich source facies of the upper and lower Goldwyer shales were deposited during the maximum first-order transgression. Basinwide deposition of a sealing facies, the Mallowa Salt, occurred during a eustatic lowstand during the regressive stage of megasequence deposition.

Salt deposition ended with a transgression that resulted in the deposition of a dolomite marker throughout the basin. Recognition of this marker was the key to verification of the existence of a nearly complete Silurian section in the Kidson Sub-basin. Its correlation led to recognition of the lateral equivalence of the Tandalgoo and Worral Formations, and to documentation of the extent and magnitude of the unconformity associated with the Rodingan/Prices Creek Movement. The effect of the Rodingan/Prices Creek Movement on the structure and geometry of the basin has broader implications for timing of trap formation, maturation of source rocks, and the creation and modification of fluid migration pathways for both hydrocarbon and mineral-bearing fluids

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¹Australian Geological Survey Organisation, GPO Box 378, Canberra, ACT, Australia.

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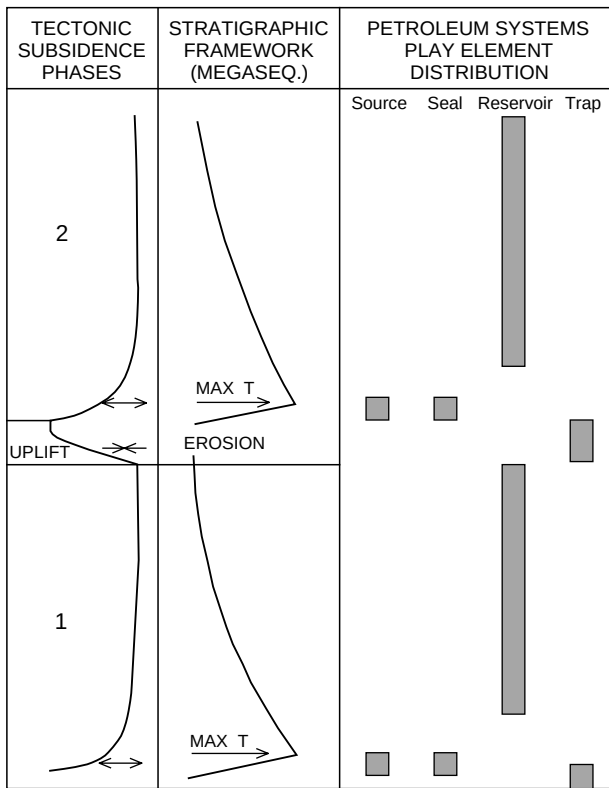
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R $\longleftrightarrow$ T

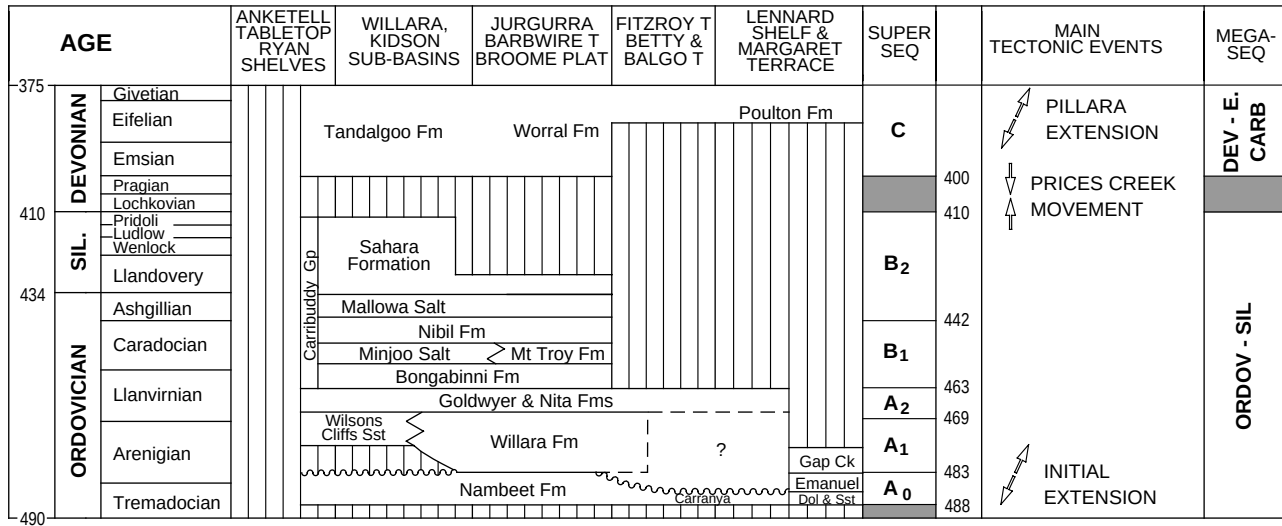
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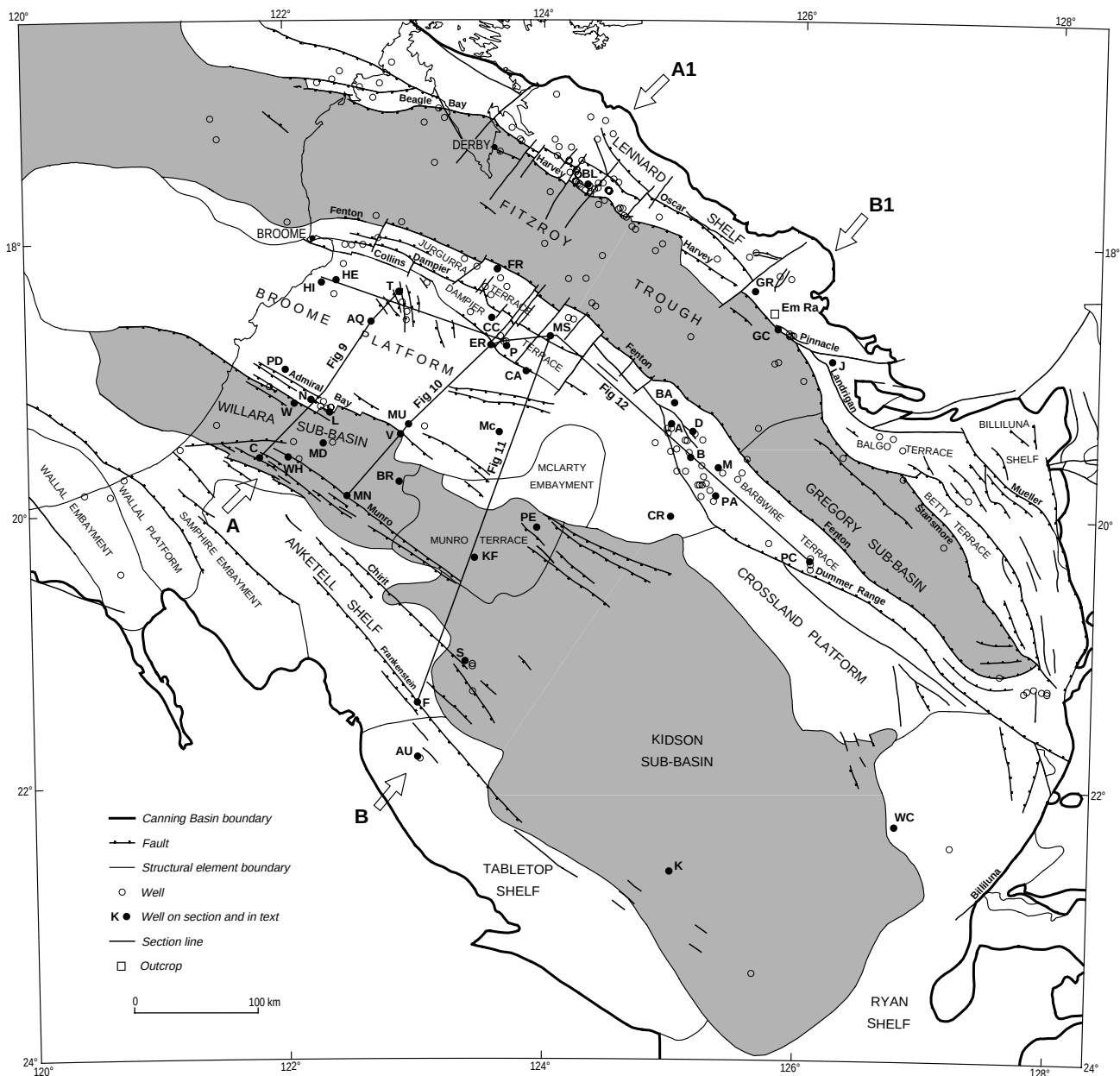
T Transgression

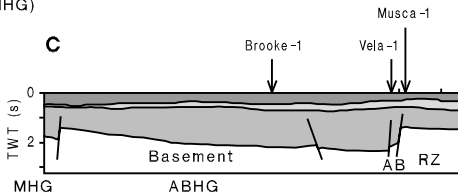
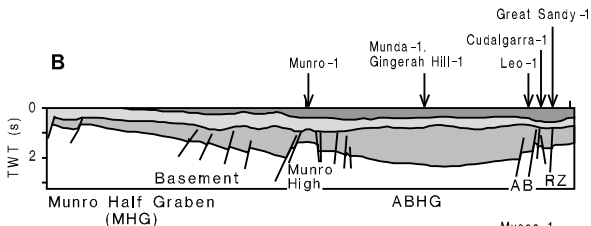
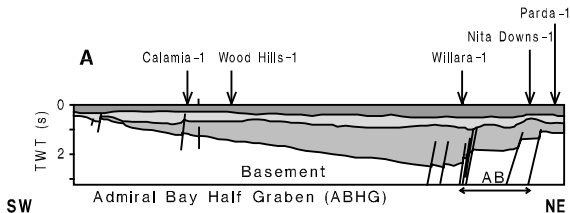
R Regression

$\longleftrightarrow$ Extension

$\rightarrow\leftarrow$ Compression

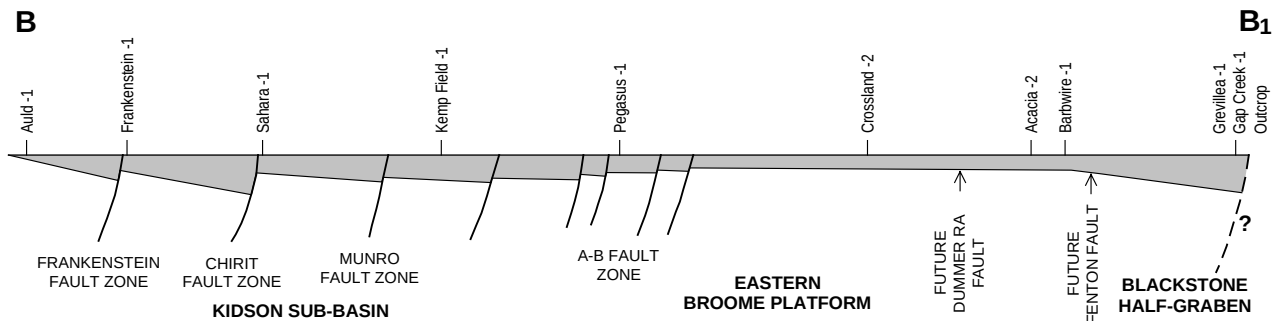
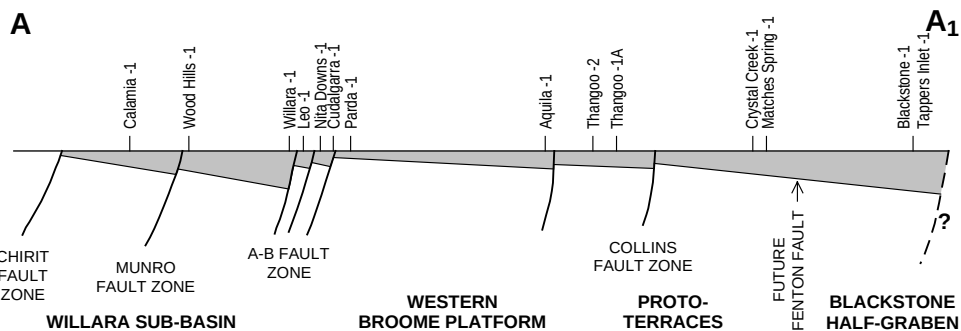
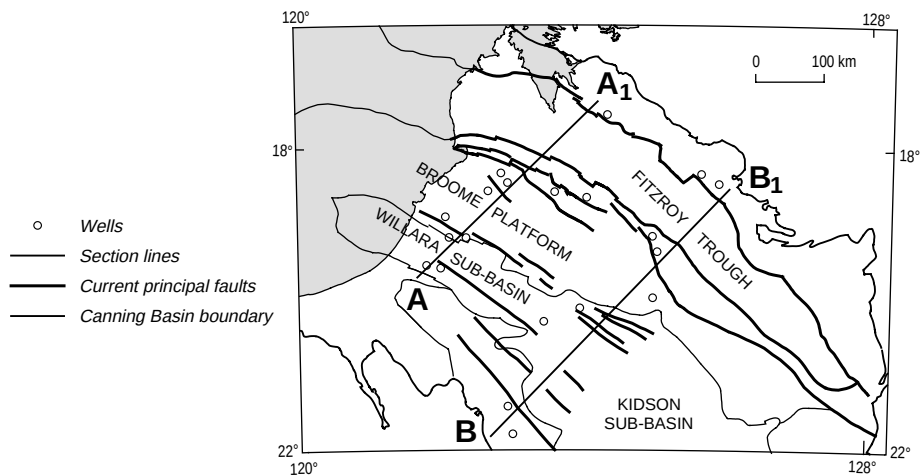


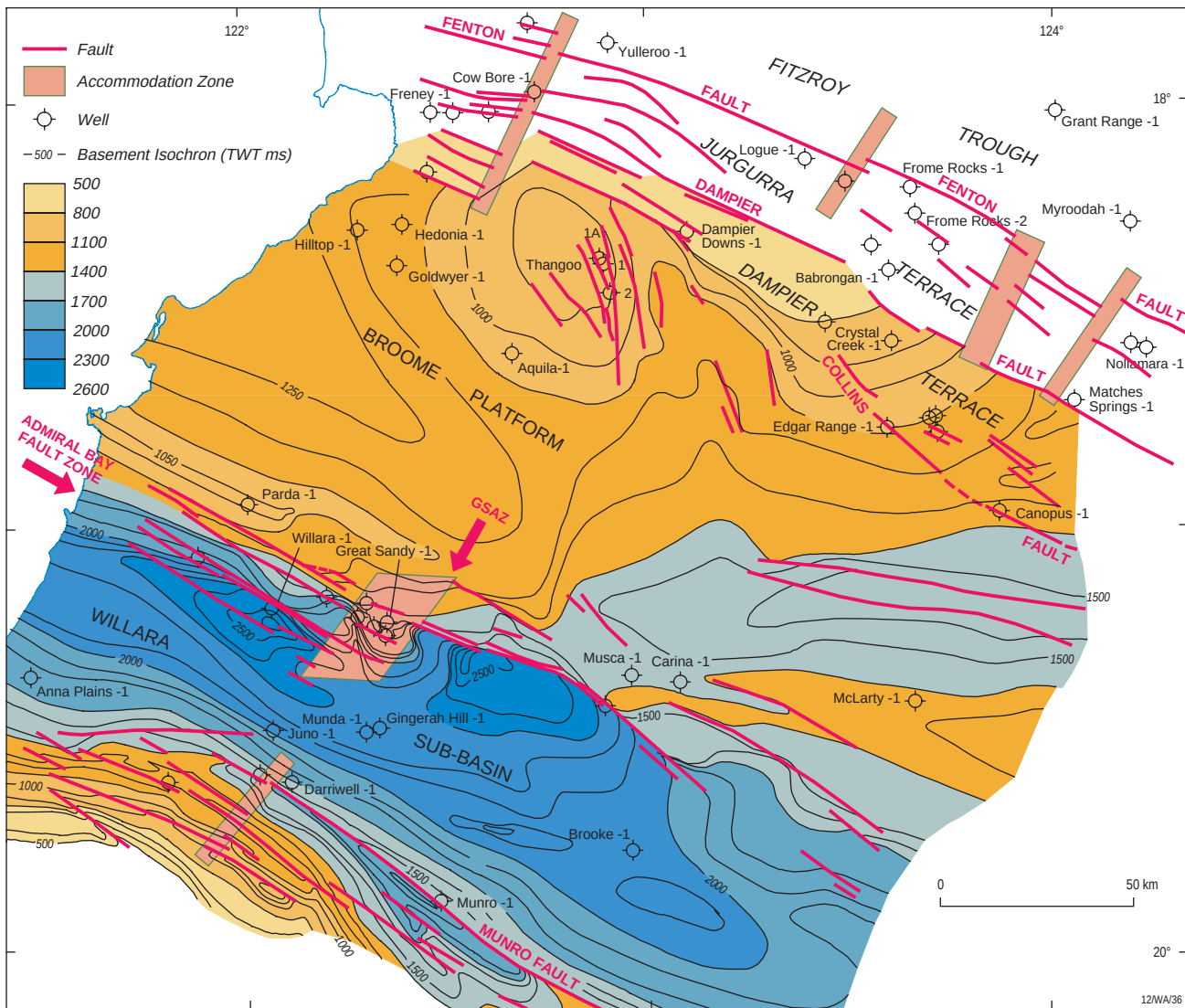


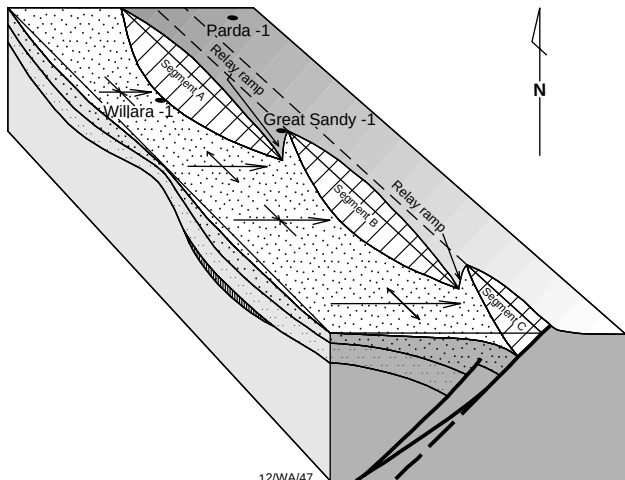


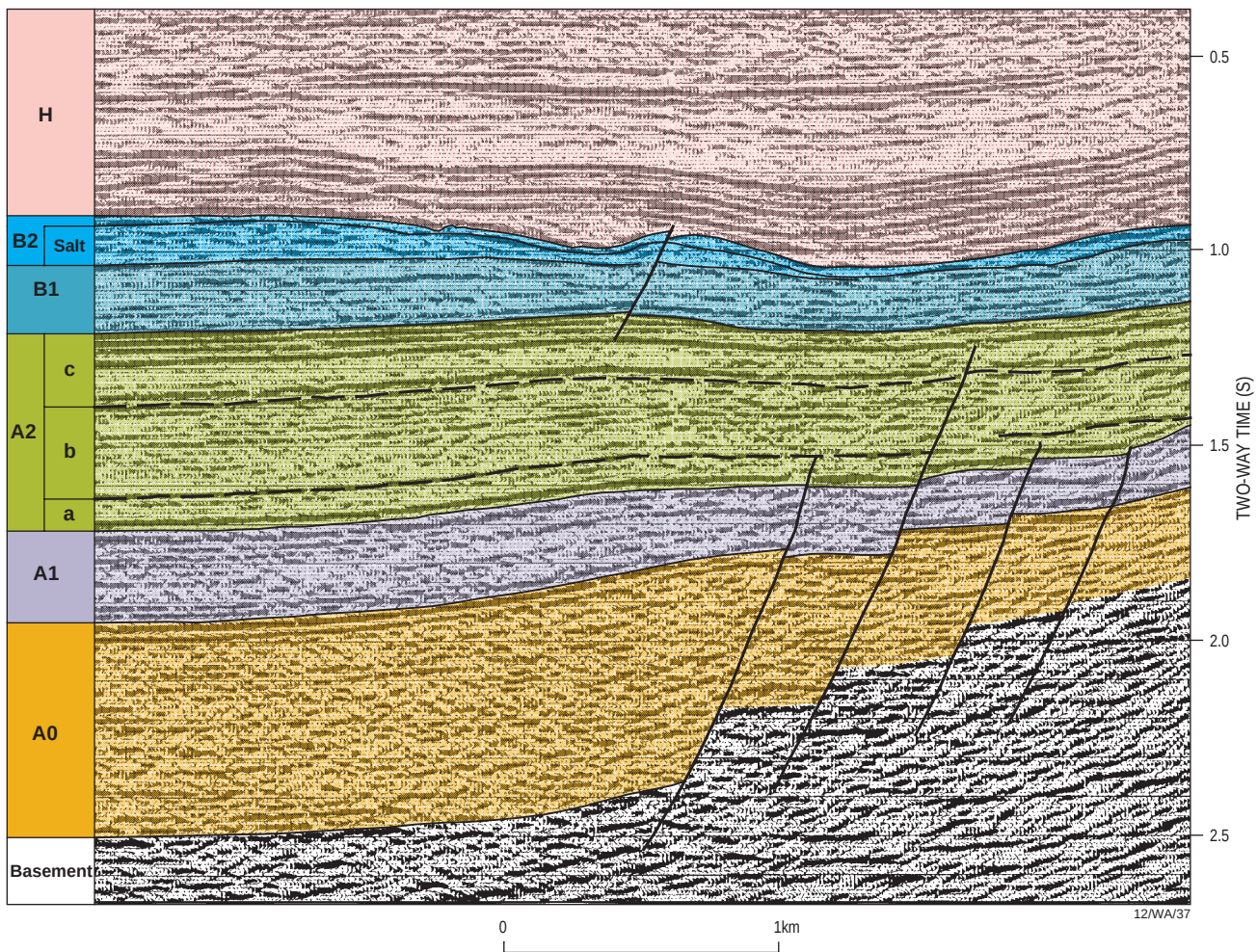
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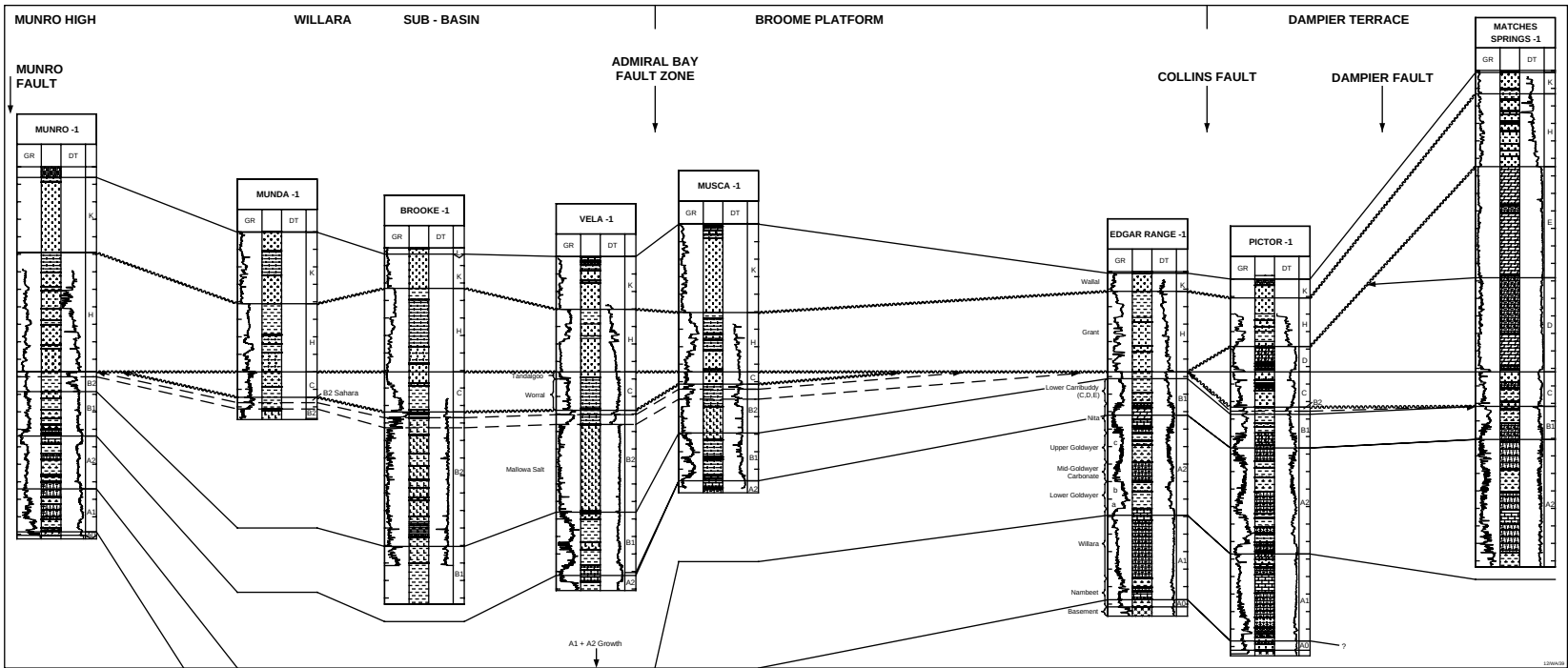


Figure 10: Well-log cross-section for the central parts of the western Canning Basin, southern Willara Sub-basin to Dampier Terrace (see Fig. 3). The datum for the northern part of the section (Dampier Terrace) is the top of the preserved portion of Supersequence C. (see Kennard et al., this volume).

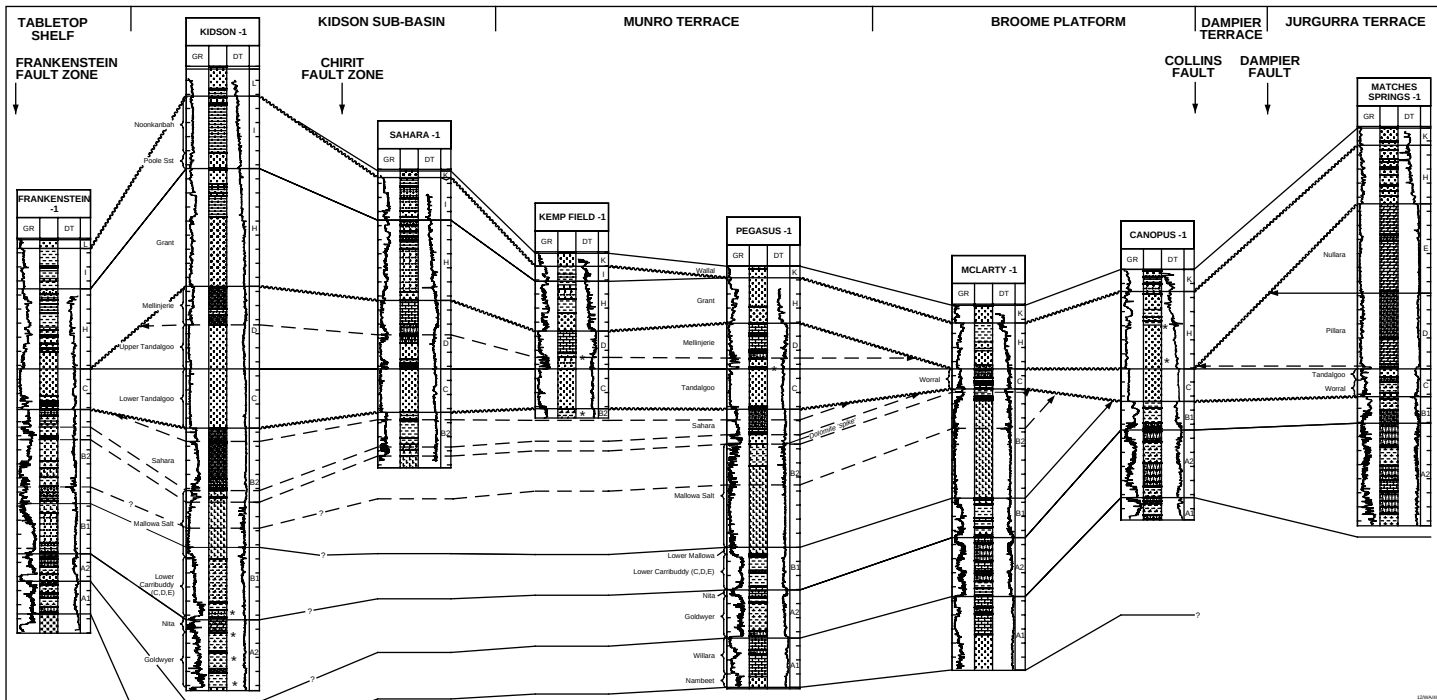


Figure 11: Well-log cross-section for the central Canning Basin, northern Tabletop Shelf to Jurgurra Terrace (see Fig. 3). The datum is the top of the preserved portion of Supersequence C. Note the location of critical biostratigraphic control points (marked by asterisks) and the projection distance of Kidson-1.

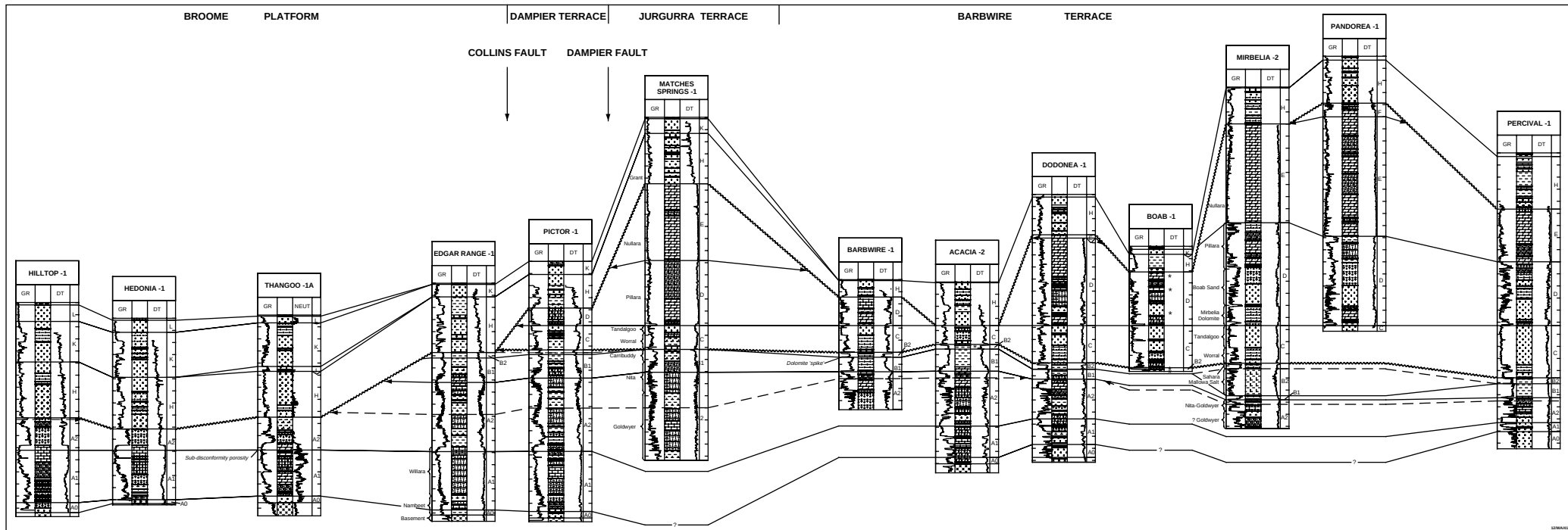
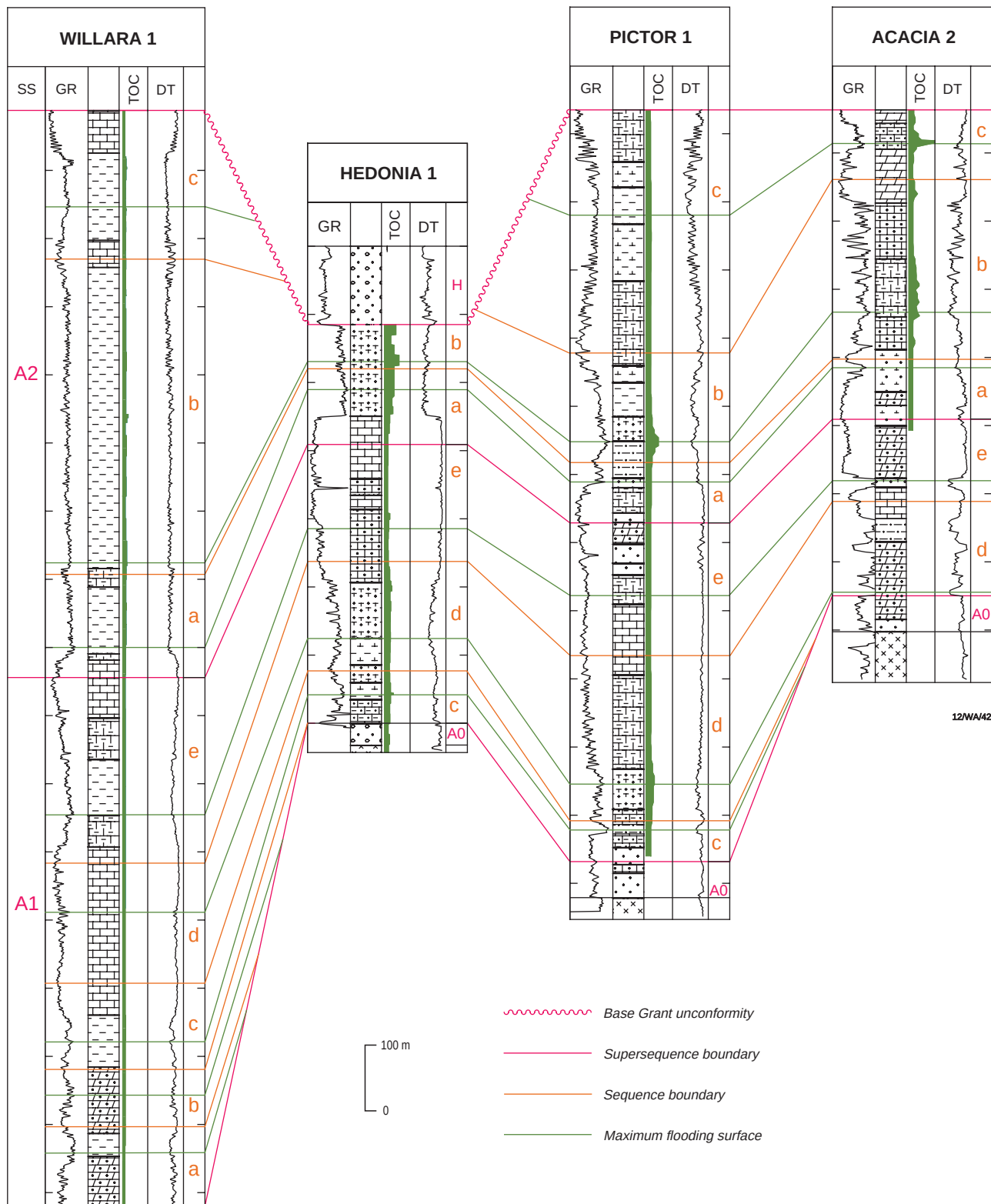
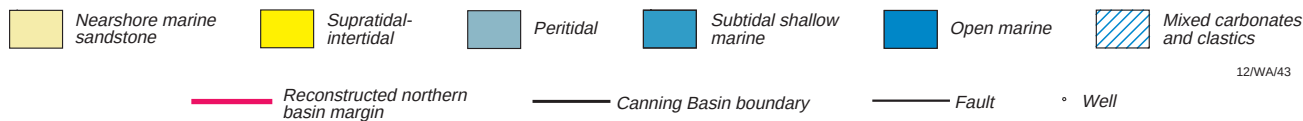
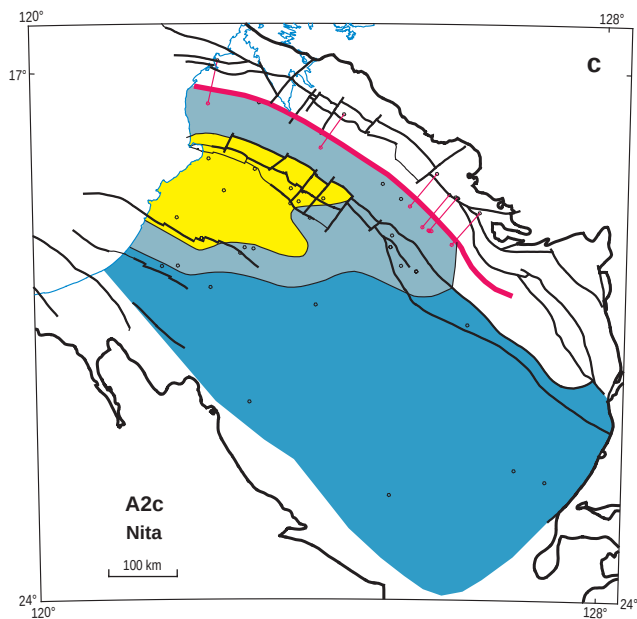
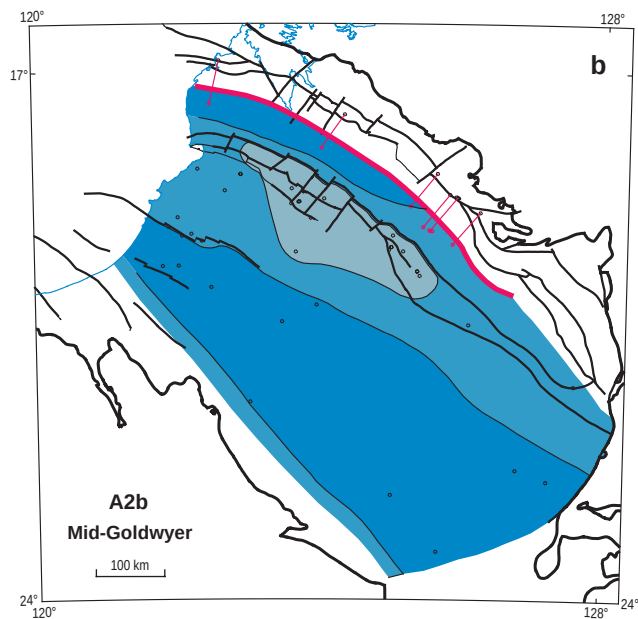
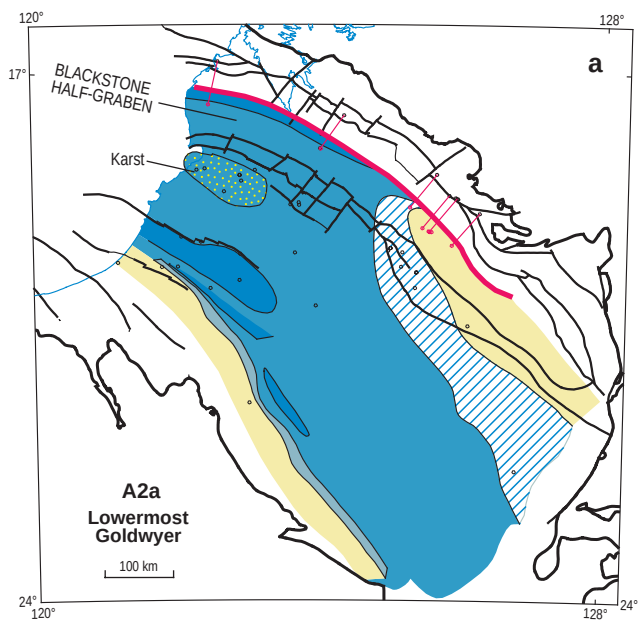
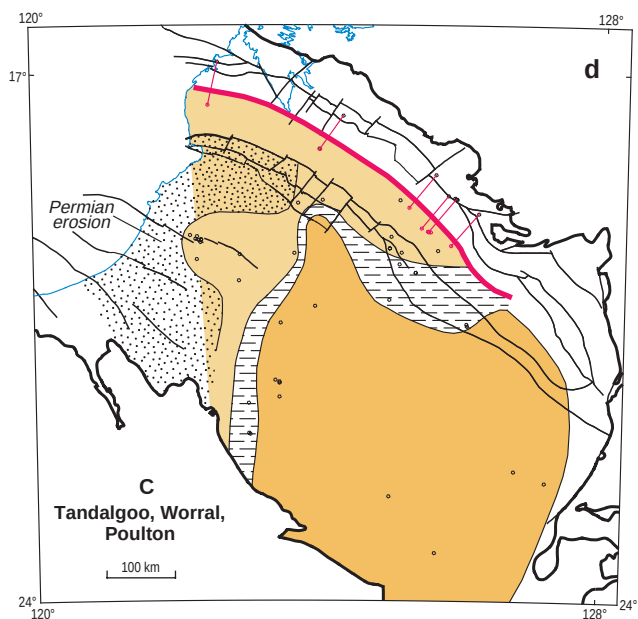
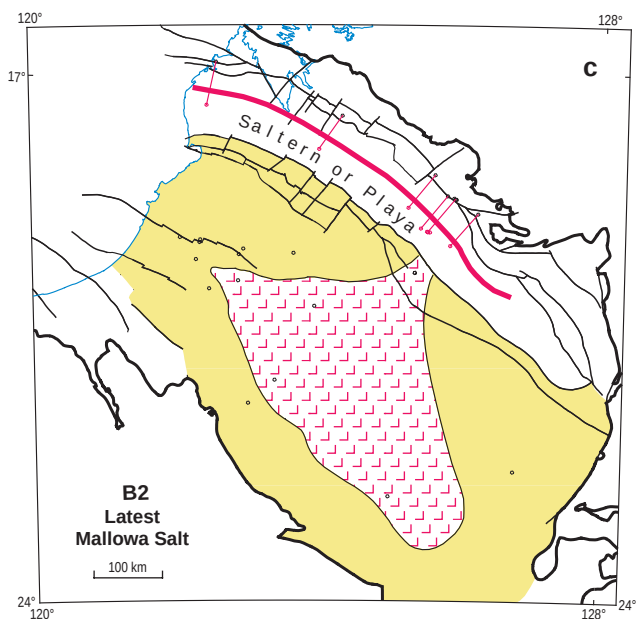
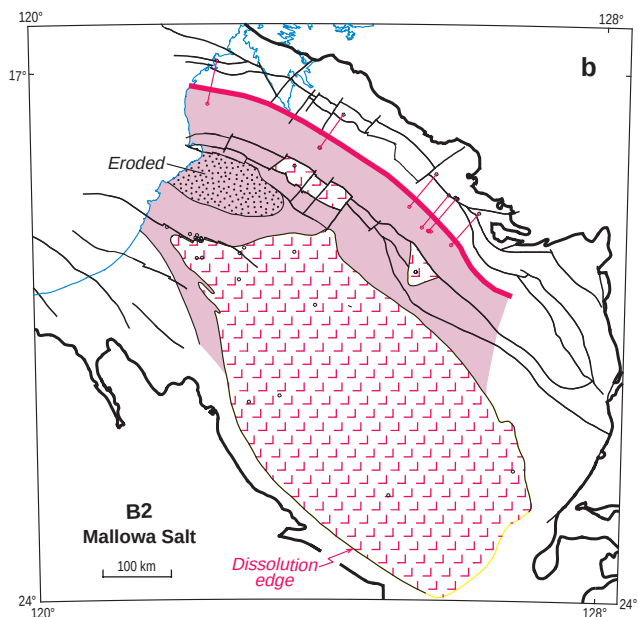
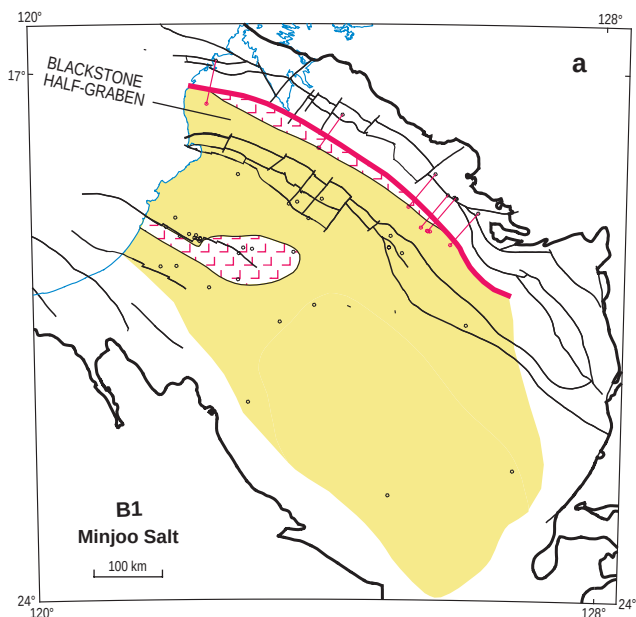


Figure 12: Well-log cross-section oriented west to east across the Broome Platform, Dampier and Barbwire Terraces (see Fig. 3). In the east, the datum is the top of the preserved portion of Supersequence C; in the west, the base Grant is used as a datum. Note the position of sub-unconformity porosity (karst) in Thangoo-1a and the locations of critical biostratigraphic control points (marked by asterisks). Biostratigraphic data in Acacia-2 is correlated from Acacia-1, 98m away.







Aeolian sandstone

Mixed playa aeolian

Dolomitic playa

Playa - marginal marine

Ordovician extent of salt

Saltern

Hypothetical basin margin

Canning Basin boundary

Fault

Structural element boundary

Well
12/WA/44

