

*Stratigraphic architecture of the 1420–1210 Ma Velkerri and Kyalla Formations (Beetaloo Sub-basin, Australia)*

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**Appendix Table 1.** Wells Used for This Study

Well Name	Kyalla Formation	Moroak Formation	Velkerri Formation
Alexander 1			X
Altree 2			X
Amungee NW 1	X	X	X
Balmain 1	X		
Beetaloo-W 1	X	X	X
Birdum Creek 1	X	X	X
Borrowdale 2			X
Broadmere 1			X
Burdo 1	X	X	
Chanin 1	X	X	
Elliott 1	X	X	X
Friendship 1			X
Golden Grove 1			X
Jamison 1	X	X	
Kalala South 1	X	X	X
Lady Penrhyn 1			X
Lawrence 1			X
Marmbulligan 1			X
Mason 1	X		
McManus 1	X	X	X
Prince of Wales 1			X
Ronald 1	X	X	
Scarborough 1			X
Sever 1			X
Shenandoah 1	X	X	X
Shortland 1	X		
Tanumbirini 1	X	X	X
Tarlee 1	X	X	X
Tarlee 2	X	X	X
Tarlee S3	X	X	X
Walton 2			X
Wyworrie 1	X	X	X
Total	19	16	25

**Appendix Table 2.** Cored Intervals Described for This Study

Well Name	Top, m	Bottom, m	Thickness, m	Formation
Alexander 1	400	640	240	Velkerri
Elliott 1	1080	1400	320	Moroak and Kyalla
Jamison 1	1360	1560	200	Kyalla
Lady Penrhyn 2	290	450	160	Velkerri
McManus 1	650	850	200	Velkerri and Moroak
Shenandoah 1	1580	1600	20	Kyalla
	2500	2520	20	Velkerri
Tarlee S3	1100	1640	540	Velkerri
Walton 2	250	980	730	Velkerri
Total			2430	

**Appendix Table 3.** Zircon Ages from Samples Located in the Studied Interval

Well	Depth, m	Stratigraphic Unit	Sample	Minimum Zircon Age, Ma
Walton 2	227	Upper Jamison	W-UJ9	1040 ± 100
	1013	Bessie Creek	W-BC1	1579 ± 27
Sever 1	1167	Bessie Creek	S-BC1	1354 ± 14
McManus 1	550	Lower Jamison	M-LJ3	1193 ± 79
	671	Moroak	M-Mo8	1569 ± 57
	724	Moroak	M-Mo11	1527 ± 45
Jamison 1	904	Upper Jamison	J-UJ3	1084 ± 83
	1490	Kyalla	J-Ky8	1324 ± 59
	1587	Kyalla	JN-Ky6	1420 ± 49
	1721	Moroak	J-Mo13	1404 ± 28
Elliott 1	644	Lower Jamison	E-LJ2	1142 ± 47
	887	Kyalla	E-Ky7	1313 ± 47
	1021	Kyalla	EN-Ky4	1517 ± 58
	1367	Moroak	EN-Mo8	1502 ± 75
	1518	Moroak	E-Mo13	1550 ± 57
	1697	Velkerri	E-Vel18	1298 ± 47
Birdum Creek 1	887	Kyalla	BirC-Ky1	1400 ± 43
Altree 2	335	Upper Jamison	A-UJ1	1092 ± 55
	349	Upper Jamison	A-UJ2	987 ± 68
	1468	Bessie Creek	A-BC13	1409 ± 42

Data adapted from Yang et al. (2018, 2019).