

Table S1. Details of study wells, including source of biostratigraphic data and cores.

Well	Latitude	Longitude	Biostratigraphy Source	Conventional Core
Ahuroa-1	-39.2669	174.3501	GNS wellsheet	Tariki Sandstone Member
Ariki-1	-38.2015	173.6976	GNS 2014-16 review	
Awakino-1	-38.5575	174.5667	GNS 2014-16 review	
Cook-1	-40.4431	172.2808	GNS 2014-16 review	
Fresne-1	-40.3528	173.0792	GNS wellsheet (DS 1d)	
Hochstetter-1	-39.6610	172.6064	GNS wellsheet (DS 1d)	
Hoki-1	-38.8512	172.5311	Well completion report	
Kaimiro-1	-39.1669	174.1535	GNS wellsheet	
Kauri-E4	-39.6937	174.3865	Well completion report / GNS 2004/72	Kauri Sandstone
Kea-1	-39.8750	173.3393	GNS 2014-16 review	
Kiwa-1	-39.8109	172.6982	GNS wellsheet (DS 1d)	
Kora-1	-38.3831	173.8593	GNS 2014-16 review	
Kora-4	-38.3886	173.8028	GNS 2014-16 review	Tangaroa Formation
Kupe South-4	-39.8822	174.1386	GNS wellsheet (DS 1a)	Matapo Sandstone Member
Maui-2	-39.6128	173.4494	GNS data series 16A	
Maui-4	-40.0400	173.2408	GNS 2014-16 review	
Moana-1	-38.1804	173.8532	GNS 2014-16 review	
Mokau-1	-38.7174	174.4789	GNS 2014-16 review	
Moki-1	-39.9694	173.3118	GNS 2014-16 review	
North Tasman-1	-40.2002	173.2722	GNS 2014-16 review	
Okoki-1	-38.9275	174.2047	GNS 2014-16 review	
Rimu-A3	-39.6423	174.3678	Well completion report / GNS 2004/72 & 2003/121	Tariki Sandstone Member
Romney-1	-37.8943	172.7313	GNS 2014-16 review	
Survile-1	-40.7223	173.4473	GNS 2014-16 review	
Taimana-1	-38.8572	173.5389	GNS 2014-16 review	
Takapou-1	-39.2343	173.1600	GNS data series 16A	
Tane-1	-38.9390	172.6389	GNS wellsheet	
Tangaroa-1	-38.1797	173.8719	GNS 2014-16 review	Tangaroa Formation
Taranga-1	-38.9753	173.2733	GNS 2014-16 review	
Tasman-1	-40.3148	173.3846	GNS wellsheet (DS 1d)	
Tawa-B1	-39.5694	174.2941	GNS wellsheet	
Te Kumi-1	-38.1557	173.9399	GNS wellsheet	
Terrace-1	-39.0042	174.1764	Well completion report	
Tirua-1	-38.3475	174.6165	GNS wellsheet	
Toetoe-1	-39.1162	174.3245	GNS wellsheet	
Toru-1	-39.7222	174.1609	GNS wellsheet (DS 1a)	
Totara-1	-39.1637	174.3248	GNS wellsheet	
Tui-1	-39.4364	173.2464	GNS data series 16A	
Tuihu-1	-39.1676	174.4326	Well completion report / GNS 2004/37	
Turi-1	-38.4924	174.4248	GNS wellsheet	

Well	Latitude	Longitude	Biostratigraphy Source	Conventional Core
Waihapa-1	-39.3875	174.3719	Well completion report / GNS 2004/135	
Wainui-1	-38.4644	173.3083	GNS 2014-16 review	
Wharehuia-1	-39.2944	174.3456	GNS wellsheet / GNS 2004/135	Matapo Sandstone Member
Witiora-1	-39.1133	173.4750	GNS 2014-16 review	

Data sources, including unpublished GNS client reports and data series:

GNS 2003/121: Pollock, R.M., Mingard, H., Browne, G.H., King, P.R., 2003. Review of the Tariki Sandstone reservoir, Rimu and Kauri Fields, Taranaki Basin, New Zealand. IGNS Client Report 2003/121.

GNS 2004/37: Higgs, K., Reyes, A., Raine, I., Crouch, E., Strong, P., 2004. A biostratigraphic, petrographic and fluid inclusion study of well Tuihu-1/1A. GNS Client Report 2004/37.

GNS 2004/72: Higgs, K., Pollock, R., Field, B., Strong, P. 2004. Kauri Sandstone Reservoir Study, Taranaki Basin, New Zealand. GNS Client Report 2004/72.

GNS 2004/135: Pollock, R.M., Raine, J.I., Morgans, H.E.G., 2004. Revised correlation of the upper Mangahewa-lower Otaraoa Formations between Waihapa-1, Toko-1 and Wharehuia-1. IGNS Client Report 2004/135.

GNS Data Series 1A: Roncaglia, L. 2010 Well summary sheets (14) from Taranaki Basin, New Zealand: selected wells from the Kupe and Maari Field areas. GNS Science data series 1a 1 CD

GNS Data Series 1D: Griffin, A.G.; Roncaglia, L. 2013 Petroleum exploration well summary sheets from Taranaki Basin, New Zealand : Selected wells from the Western Platform and Southern inversion areas. GNS Science data series 1d 1 CD.

GNS data series 16A: Roncaglia, L., Morgans, H.E.G., Crundwell, M., 2013. Stratigraphic database for the correlation of upper Haumrian (Upper Cretaceous) to Opoitian (Lower Pliocene) siliciclastic succession in the central and southern offshore area of the Taranaki Basin.