

Supplementary table 7: Representative electron microprobe analyses of titanite of the Pedra Branca Suite.

Classification	Trondhjemite											
Sample	AMR – 191 A (13)											
Analyses	C1_1	C1_2	C1_3	C2_4	C2_5	C3_6	C3_7	C6_8	C6_9	C9_10	C9_11	C9_12
SiO ₂	30.61	30.38	30.37	30.13	30.18	30.32	30.09	29.70	30.04	30.34	30.25	29.92
TiO ₂	37.66	36.73	35.86	36.85	37.30	36.79	37.07	37.60	36.21	37.12	36.63	36.30
Al ₂ O ₃	1.05	1.42	2.11	1.46	1.23	1.31	1.30	1.24	1.51	1.18	1.39	1.34
Cr ₂ O ₃	0.04	0.06	0.00	0.01	0.00	0.04	0.00	0.05	0.02	0.07	0.00	0.03
FeO	0.91	1.26	1.27	1.22	1.20	1.19	1.03	0.92	0.94	1.07	1.00	1.16
MnO	0.10	0.02	0.00	0.04	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.01
MgO	0.00	0.03	0.03	0.02	0.02	0.01	0.01	0.02	0.03	0.00	0.00	0.03
CaO	28.69	28.67	28.59	27.76	28.54	28.30	28.08	27.97	27.72	27.96	28.50	28.26
Na ₂ O	0.00	0.00	0.02	0.00	0.03	0.02	0.08	0.02	0.02	0.06	0.03	0.00
K ₂ O	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.01	0.01	0.00
Total	99.06	98.56	98.25	97.49	98.49	98.01	97.73	97.54	96.53	97.80	97.79	97.05
Number of cations per formula unit based on five oxygen atoms												
Si	1.011	1.010	1.011	1.010	1.004	1.012	1.007	0.996	1.016	1.014	1.012	1.009
Ti	0.935	0.918	0.898	0.929	0.933	0.924	0.933	0.949	0.921	0.933	0.921	0.921
Al	0.041	0.055	0.083	0.058	0.048	0.051	0.051	0.049	0.060	0.046	0.055	0.053
Cr	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.001
Fe	0.025	0.035	0.035	0.034	0.033	0.033	0.029	0.026	0.027	0.030	0.028	0.033
Mn	0.003	0.000	0.000	0.001	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000
Mg	0.000	0.002	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.002
Ca	1.015	1.021	1.020	0.997	1.017	1.013	1.007	1.005	1.004	1.001	1.022	1.021
Na	0.000	0.000	0.001	0.000	0.002	0.001	0.005	0.001	0.002	0.004	0.002	0.000
K	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000
Fe/Al	0.616	0.630	0.428	0.590	0.693	0.644	0.562	0.531	0.445	0.646	0.509	0.613

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