TABLE 1: U/Pb zircon results forBelt Supergroup

Spot name*	U (ppm)	Th (ppm)	Th/U	Pb (ppm)	204Pb (ppb)	204Pb/ 206Pb	±204Pb/ 206Pb	f206	208Pb/ 206Pb	±208Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 235U	±207Pb/ 235U	207Pb/ 206Pb	±207Pb/ 206Pb	Apparent Ages (Ma) 206Pb/ 238U	±206Pb/ 238U	207Pb/ 206Pb	±207Pb/ 206Pb	Conc. (%)
Niehart Formation (VN-01; K200, O-, Kipawa)																					
VN01-A.1	265.27	147.31	0.5553	78	92	1.4E-03	9.3E-05	0.0244	0.1028	0.0040	0.2808	0.0043	4.318	0.103	0.1115	0.0019	1595.3	21.5	1824.4	30.6	87.4
VN01-A.2	146.92	126.99	0.86432	89	1	2.0E-05	2.4E-05	0.0004	0.2427	0.0031	0.4924	0.0079	12.297	0.223	0.1811	0.0012	2581.2	34.1	2663.1	11.3	96.9
VN01-A7.1	121.35	63.99	0.52728	41	1	1.6E-05	3.4E-05	0.0003	0.1544	0.0031	0.3073	0.0056	4.631	0.109	0.1093	0.0014	1727.3	27.8	1787.9	23.5	96.6
VN01-B.1	186.99	125.1	0.66902	61	56	1.1E-03	7.8E-05	0.0194	0.1237	0.0033	0.3080	0.0044	4.739	0.104	0.1116	0.0017	1731.0	21.6	1825.5	27.4	94.8
VN01-B5.2	210.37	65.3	0.31039	65	0	4.7E-06	2.5E-05	0.0001	0.0890	0.0019	0.3009	0.0045	4.522	0.084	0.1090	0.0011	1695.6	22.1	1782.8	17.8	95.1
VN01-B8.1	192.73	198.13	1.02801	125	1	1.0E-05	1.1E-05	0.0002	0.2905	0.0018	0.5122	0.0076	13.083	0.208	0.1853	0.0008	2666.2	32.3	2700.4	7.2	98.7
VN01-C.2	124.34	89.63	0.7208	98	1	2.1E-05	2.0E-05	0.0004	0.1930	0.0027	0.6242	0.0108	23.362	0.466	0.2714	0.0022	3126.7	43.1	3314.3	12.6	94.3
VN01-C8.1	238.42	172.77	0.72465	93	0	6.2E-06	1.4E-05	0.0001	0.2093	0.0016	0.3421	0.0051	5.524	0.098	0.1171	0.0009	1896.7	24.5	1912.7	14.5	99.2
VN01-D.1	190.94	154.91	0.81133	105	9	1.2E-04	2.1E-05	0.0022	0.2080	0.0016	0.4590	0.0066	11.501	0.188	0.1817	0.0011	2435.3	29.3	2668.6	10.2	91.3
VN01-D3.1	299.04	31.14	0.10415	96	2	2.4E-05	1.8E-05	0.0004	0.0291	0.0011	0.3268	0.0046	4.993	0.086	0.1108	0.0009	1822.8	22.4	1812.6	15.2	100.6
VN01-D5.1	248.24	181.46	0.73098	95	26	3.6E-04	3.5E-05	0.0062	0.1862	0.0019	0.3400	0.0050	5.806	0.097	0.1238	0.0008	1886.9	23.9	2012.2	11.8	93.8
VN01-D6.1	82.49	22.57	0.27358	29	0	1.0E-05	6.5E-05	0.0002	0.0801	0.0035	0.3368	0.0065	5.228	0.150	0.1126	0.0022	1871.2	31.2	1841.6	34.9	101.6
VN01-D8.1	158.57	207.85	1.31082	66	0	1.0E-05	1.0E-05	0.0002	0.3818	0.0035	0.3241	0.0065	5.062	0.116	0.1133	0.0010	1809.6	31.9	1852.9	15.6	97.7
VN01-E3.1	68.66	29.55	0.4303	22	0	1.0E-05	1.0E-05	0.0002	0.1248	0.0032	0.2976	0.0057	4.433	0.121	0.1080	0.0018	1679.2	28.6	1766.6	31.4	95
VN01-E4.1	247.74	154.77	0.62473	90	0	3.0E-06	1.8E-05	0.0001	0.1824	0.0021	0.3247	0.0052	4.988	0.089	0.1114	0.0007	1812.5	25.1	1822.9	11.5	99.4
VN01-E6.1	305.91	64.24	0.21	99	1	6.4E-06	2.1E-05	0.0001	0.0604	0.0013	0.3221	0.0049	4.941	0.090	0.1113	0.0009	1799.7	24.0	1820.4	15.3	98.9
VN01-E8.1	84.72	155.15	1.83131	38	0	1.0E-05	1.0E-05	0.0002	0.5228	0.0114	0.3179	0.0072	4.906	0.130	0.1119	0.0012	1779.7	35.5	1830.6	19.9	97.2
VN01-F.1	140.89	106.25	0.75407	48	35	9.3E-04	1.0E-04	0.0161	0.1986	0.0053	0.3033	0.0051	4.697	0.121	0.1123	0.0020	1707.5	25.4	1837.4	31.9	92.9
VN01-F.2	72.45	13.06	0.18021	23	2	1.2E-04	9.2E-05	0.0021	0.0465	0.0040	0.3179	0.0070	4.783	0.153	0.1091	0.0023	1779.4	34.1	1785.0	38.1	99.7
VN01-F5.1	54.56	55.72	1.02135	56	0	1.3E-05	4.1E-05	0.0002	0.2644	0.0034	0.7513	0.0143	32.970	0.718	0.3183	0.0027	3612.2	53.0	3561.6	12.9	101.4
VN01-F7.1	118.9	37.22	0.31304	38	2	5.0E-05	2.4E-05	0.0009	0.0914	0.0018	0.3068	0.0048	4.680	0.088	0.1106	0.0010	1725.1	23.7	1809.8	16.0	95.3
VN01-F8.1	302.17	102.17	0.33812	99	1	1.0E-05	1.0E-05	0.0002	0.0967	0.0010	0.3149	0.0042	4.877	0.072	0.1124	0.0006	1764.5	20.6	1837.9	9.0	96
VN01-G3.1	302.48	146.03	0.48277	110	1	1.0E-05	1.0E-05	0.0002	0.1359	0.0015	0.3367	0.0048	5.297	0.083	0.1141	0.0006	1870.9	23.4	1865.8	8.9	100.3
VN01-G5.1	122.32	60.2	0.49219	42	1	1.6E-05	4.2E-05	0.0003	0.1464	0.0033	0.3178	0.0057	4.737	0.119	0.1081	0.0017	1779.0	27.9	1767.6	29.0	100.6
VN01-G7.1	592.44	222.4	0.3754	286	2	7.6E-06	3.9E-05	0.0001	0.1003	0.0040	0.4336	0.0085	11.659	0.321	0.1950	0.0034	2322.1	38.1	2784.8	28.4	83.4
VN01-H.1	160.23	61.23	0.38215	55	0	1.0E-05	1.0E-05	0.0002	0.1128	0.0020	0.3266	0.0051	5.155	0.097	0.1145	0.0010	1821.7	24.7	1871.7	15.9	97.3
VN01-H.2	295.41	111.95	0.37896	102	22	2.7E-04	2.9E-05	0.0047	0.0985	0.0017	0.3295	0.0046	5.220	0.084	0.1149	0.0007	1835.8	22.4	1878.6	11.7	97.7
VN01-H3.1	117.76	228.28	1.93848	77	21	4.5E-04	5.6E-05	0.0078	0.4957	0.0049	0.4518	0.0071	11.248	0.207	0.1806	0.0014	2403.4	31.4	2658.0	13.2	90.4
VN01-H4.1	127.24	117.55	0.9238	47	0	1.0E-05	1.0E-05	0.0002	0.2741	0.0086	0.3114	0.0069	4.819	0.169	0.1122	0.0028	1747.8	34.1	1835.8	45.2	95.2
VN01-I4.1	191.13	55.73	0.29159	62	1	1.0E-05	1.0E-05	0.0002	0.0834	0.0018	0.3157	0.0061	4.781	0.109	0.1099	0.0011	1768.4	29.9	1796.9	18.5	98.4
Fort Steele Formation (FS; K200, O2-, Kipawa)																					
FS-G3.1	1766.2	214.86	0.12165	550	2	3.9E-06	2.8E-06	0.0001	0.0348	0.0002	0.3152	0.0059	4.921	0.096	0.1133	0.0003	1766.0	29.1	1852.2	5.3	95.4
FS-A1.1	124.81	73.85	0.59171	70	1	1.0E-05	1.0E-05	0.0002	0.1608	0.0040	0.4844	0.0248	11.922	0.662	0.1785	0.0028	2546.3	108.8	2639.2	26.6	96.5
FS-A2.1	263.18	142.56	0.5417	95	1	1.1E-05	1.3E-05	0.0002	0.1522	0.0014	0.3302	0.0062	5.225	0.105	0.1148	0.0006	1839.5	30.1	1876.1	9.8	98.1
FS-E2.1	220.59	70.28	0.31862	104	1	1.0E-05	1.0E-05	0.0002	0.0899	0.0018	0.4416	0.0083	9.435	0.251	0.1550	0.0026	2357.8	37.2	2401.4	28.5	98.2
FS-F2.1	198.99	173.69	0.87286	125	1	7.6E-06	9.8E-06	0.0001	0.2371	0.0015	0.5141	0.0096	13.250	0.265	0.1869	0.0010	2674.3	40.9	2715.2	8.9	98.5
S-E4.1	138.49	63.87	0.46118	72	1	1.9E-05	2.0E-05	0.0003	0.1282	0.0012	0.4699	0.0093	10.750	0.223	0.1659	0.0007	2482.9	40.8	2517.1	7.4	98.6
FS-G1.1	38.19	10.14	0.26565	29	0	1.1E-05	3.7E-05	0.0002	0.0693	0.0020	0.6615	0.0146	24.780	0.580	0.2717	0.0015	3273.0	56.8	3315.8	8.9	98.7
FS-G6.1	68.74	107.74	1.56738	64	1	2.9E-05	2.7E-05	0.0005	0.4054	0.0037	0.6486	0.0143	23.306	0.552	0.2606	0.0017	3222.6	56.0	3250.5	10.3	99.1
FS-E1.1	74.14	46.35	0.62512	26	1	4.5E-05	3.6E-05	0.0008	0.1812	0.0024	0.3204	0.0068	4.873	0.125	0.1103	0.0013	1791.7	33.3	1804.5	22.3	99.3
FS-E5.1	131.21	65.85	0.50185	74	0	7.0E-06	1.8E-05	0.0001	0.1383	0.0014	0.5011	0.0090	12.302	0.234	0.1781	0.0008	2618.6	38.7	2634.8	7.5	99.4
FS-G4.1	64.65	60.77	0.93994	42	0	4.2E-06	2.9E-05	0.0001	0.2543	0.0033	0.5234	0.0112	13.579	0.321	0.1882	0.0014	2713.6	47.7	2726.1	12.6	99.5
FS-F4.1	20.29	4.8	0.23655	11	0	1.0E-05	1.0E-05	0.0002	0.0648	0.0020	0.4976	0.0151	12.088	0.410	0.1762	0.0021	2603.3	65.3	2617.5	19.7	99.5
FS-D4.1	728.08	191.08	0.26244	246	2	9.3E-06	3.2E-06	0.0002	0.0737	0.0004	0.3314	0.0056	5.159	0.089	0.1129	0.0003	1845.1	26.9	1846.9	4.3	99.9
FS-G5.1	140.89	128.21	0.90996	90	1	1.0E-05	1.0E-05	0.0002	0.2451	0.0022	0.5200	0.0104	13.234	0.280	0.1846	0.0009	2699.2	44.3	2694.4	7.8	100.2
FS-C5.1	3143	1419.16	0.45153	965	8	1.0E-05	1.6E-06	0.0002	0.1260	0.0003	0.2908	0.0047	4.043	0.066	0.1008	0.0001	1645.5	23.4	1639.4	2.5	100.4
FS-D1.1	517.19	272.6	0.52707	313	1	5.9E-06	4.8E-06	0.0001	0.1517	0.0007	0.5264	0.0089	13.511	0.234	0.1862	0.0004	2726.1	37.8	2708.6	3.6	100.6
FS-C6.1	40.69	45.34	1.11431	26	1	5.0E-05	4.4E-05	0.0009	0.3141	0.0042	0.4999	0.0106	11.991	0.282	0.1740	0.0013	2613.2	45.9	2596.3	12.9	100.6
FS-B1.1	160.18	186.69	1.16548	106	1	1.2E-05	1.3E-05	0.0002	0.3098	0.0018	0.5150	0.0093	12.838	0.246	0.1808	0.0008	2677.7	39.8	2660.3	7.3	100.7
FS-B2.1	361.14	109.83	0.30412	217	2	1.0E-05	2.9E-05	0.0002	0.0811	0.0030	0.5477	0.0125	14.812	0.507	0.1962	0.0045	2815.5	52.3	2794.4	37.9	100.8
FS-H6.1	102	66.57	0.65263	61	2	3.6E-05	4.8E-05	0.0006	0.1771	0.0041	0.5149	0.0122	12.556	0.362	0.1769	0.0024	2677.3	52.2	2623.8	22.9	102
FS-D5.1	298.17	327.53	1.09845	189	1	1.0E-05	6.0E-06	0.0002	0.3014	0.0013	0.5006	0.0091	11.638	0.221	0.1686	0.0006	2616.4	39.3	2543.9	5.9	102.8
FS-H5.1	6.72	27.83	4.14284	7	0	1.0E-05	1.0E-05	0.0002	1.1016	0.0163	0.5410	0.0282	13.892	0.805	0.1863	0.0036	2787.4	119.1	2709.4	32.6	102.9
Newland Formation (VN-03; K200, O-, Kipawa)																					
VN03-C3.1	122.98	87.29	0.70977	96	4	5.9E-05	4.7E-05	0.0010	0.1914	0.0048	0.6162	0.0140	23.979	0.675	0.2822	0.0040	3094.9	55.9	3375.3	22.2	91.7
VN03-E2.1	49.6	46.67	0.94108	30	0	2.3E-05	7.1E-05	0.0004	0.2553	0.0060	0.4847	0.0105	12.435	0.357	0.1861	0.0031	2547.8	45.5	2707.6	27.4	94.1
VN03-I3.1	267.86	84.65	0.31603	80	1	1.0E-05	1.0E-05	0.0002	0.0872	0.0046	0.2901	0.0076	4.272	0.172	0.1068	0.0029	1642.0	38.2	1745.5	51.1	94.1
VN03-I1.1	59.7	56.45	0.94554	42	0	1.0E-05	2.9E-05	0.0002	0.2615	0.0028	0.5505	0.0130	16.952	0.429	0.2234	0.0014	2827.0	54.5	3005.0	10.4	94.1
VN03-E1.1	193.84	107.49	0.55453	122	2	2.5E-05	1.2E-05	0.0004	0.1488	0.0012	0.5362	0.0083	15.675	0.257	0.2120	0.0009	2767.6	34.7	2921.0	6.5	94.7
VN03-E3.1	243.3	133.54	0.54887	129	1	7.6E-06	1.2E-05	0.0001	0.1522	0.0013	0.4646	0.0073	11.018	0.193	0.1720	0.0011	2459.9	32.1	2577.1	10.2	95.4

Spot name*	U (ppm)	Th (ppm)	Th/U	Pb (ppm)	204Pb (ppb)	204Pb/ 206Pb	±204Pb/ 206Pb	f206	208Pb/ 206Pb	±208Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 235U	±207Pb/ 235U	207Pb/ 206Pb	±207Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 206Pb	±207Pb/ 206Pb	Conc. (%)
VN03-F2.1	719.91	170.84	0.23731	226	2	1.0E-05	1.0E-05	0.0002	0.0688	0.0010	0.3097	0.0042	4.737	0.070	0.1109	0.0005	1739.2	20.6	1814.6	8.5	95.8
VN03-D1.1	38.11	8.67	0.22758	12	0	1.0E-05	1.0E-05	0.0002	0.0662	0.0027	0.3081	0.0072	4.636	0.146	0.1091	0.0020	1731.5	35.5	1784.9	34.2	97
VN03-C1.1	590.49	204.04	0.34555	320	1	5.7E-06	1.5E-05	0.0001	0.0980	0.0018	0.4929	0.0072	12.298	0.213	0.1810	0.0014	2583.2	31.3	2661.7	12.7	97.1
VN03-F3.1	208.84	307.25	1.47123	166	1	1.0E-05	1.0E-05	0.0002	0.4036	0.0026	0.5694	0.0082	17.145	0.264	0.2184	0.0009	2905.4	33.7	2968.7	6.4	97.9
VN03-G3.1	376.39	98.03	0.26044	123	1	1.0E-05	1.0E-05	0.0002	0.0756	0.0010	0.3209	0.0045	4.936	0.075	0.1116	0.0005	1794.0	21.9	1825.3	8.3	98.3
VN03-H3.1	335.46	301.8	0.89966	199	0	8.1E-07	4.4E-06	0.0000	0.2525	0.0018	0.4830	0.0067	11.489	0.172	0.1725	0.0007	2540.4	29.1	2582.1	7.0	98.4
VN03-J2.1	280.97	161.75	0.57568	163	1	1.0E-05	1.0E-05	0.0002	0.1624	0.0020	0.5030	0.0090	12.553	0.244	0.1810	0.0010	2626.8	38.7	2662.0	9.4	98.7
VN03-H2.1	-2044	-1771.7	0.86688	-1252	-10	1.1E-05	9.7E-05	0.0002	0.2343	0.0065	0.5030	0.2595	12.445	6.452	0.1794	0.0032	2626.8	1221.9	2647.6	30.2	99.2
VN03-F1.1	565.16	188.11	0.33285	179	1	6.0E-06	8.6E-06	0.0001	0.0966	0.0011	0.3062	0.0041	4.480	0.068	0.1061	0.0006	1722.0	20.1	1733.8	10.6	99.3
VN03-A1.1	167.58	118.45	0.70681	116	0	4.8E-06	1.1E-05	0.0001	0.1941	0.0014	0.5721	0.0096	16.706	0.303	0.2118	0.0011	2916.4	39.6	2919.3	8.1	99.9
VN03-G1.1	422.81	108.83	0.25741	269	2	9.6E-06	7.7E-06	0.0002	0.0699	0.0008	0.5759	0.0079	16.992	0.251	0.2140	0.0009	2932.1	32.4	2935.9	6.5	99.9
VN03-J3.1	140.59	135.38	0.96296	104	0	2.8E-06	1.1E-05	0.0001	0.2603	0.0019	0.5821	0.0099	17.387	0.315	0.2167	0.0010	2957.1	40.3	2956.0	7.5	100
VN03-G2.1	171.41	111.7	0.65168	65	1	1.0E-05	1.0E-05	0.0002	0.1857	0.0018	0.3405	0.0053	5.408	0.095	0.1152	0.0007	1888.9	25.4	1883.2	11.6	100.3
VN03-J1.1	306.68	120.8	0.39391	173	1	1.1E-05	1.1E-05	0.0002	0.1094	0.0012	0.5088	0.0074	12.510	0.199	0.1783	0.0009	2651.6	31.6	2637.2	8.2	100.5
VN03-C2.1	87.58	79.11	0.90328	36	0	1.0E-05	1.0E-05	0.0002	0.2620	0.0050	0.3470	0.0070	5.563	0.147	0.1163	0.0017	1920.3	33.3	1899.5	27.1	101.1
VN03-B2.1	238.58	138.46	0.58034	88	0	5.9E-06	1.6E-05	0.0001	0.1682	0.0018	0.3338	0.0097	5.114	0.164	0.1111	0.0011	1856.6	47.3	1818.1	18.4	102.1
La Hood Formation (RAR-01; K70 and K120(marked by *), O-, BR266)																					
** RAR01-23.1*	*77.26*	*20.05*	*0.26815*	*43*	*0*	*2.9E-06*	*2.0E-05*	*0.0001*	*0.0894*	*0.0035*	*14.8486*	*0.2903*	*0.489*	*0.009*	*0.2204*	*0.0011*	*2564.3*	*38.7*	*2983.9*	*8.3*	*85.9*
RAR01-12.1	*48.55*	*0.43*	*0.00916*	*33*	*1*	*2.4E-05*	*1.8E-04*	*0.0004*	*0.0039*	*0.0069*	*24.0286*	*0.7586*	*0.618*	*0.015*	*0.2822*	*0.0050*	*3100.3*	*59.7*	*3375.1*	*27.7*	*91.9*
**RAR01-24.1*	*19.22*	*0.34*	*0.01842*	*13*	*1*	*5.7E-05*	*1.3E-04*	*0.0010*	*0.0048*	*0.0049*	*23.0955*	*1.0165*	*0.613*	*0.023*	*0.2734*	*0.0054*	*3080.4*	*91.1*	*3325.8*	*31.3*	*92.6*
RAR01-18.1	*6.12*	*0.03*	*0.00478*	*4*	*2*	*5.1E-04*	*6.1E-04*	*0.0089*	*-0.0020*	*0.0235*	*24.5879*	*1.7905*	*0.628*	*0.028*	*0.2842*	*0.0149*	*3139.9*	*111.6*	*3385.9*	*84.1*	*92.7*
**RAR01-4.1*	*34.83*	*8.28*	*0.24564*	*16*	*0*	*1.0E-05*	*1.0E-05*	*0.0002*	*0.0743*	*0.0025*	*9.2272*	*0.2681*	*0.421*	*0.011*	*0.1588*	*0.0018*	*2266.7*	*49.0*	*2443.1*	*18.8*	*92.8*
RAR01-7.1	*396.4*	*43.72*	*0.11394*	*121*	*14*	*1.3E-04*	*8.7E-05*	*0.0023*	*0.0342*	*0.0033*	*4.8629*	*0.1264*	*0.309*	*0.005*	*0.1141*	*0.0019*	*1736.8*	*27.1*	*1865.2*	*30.9*	*93.1*
*RAR01-21.1	23.13	3.88	0.17317	16	0	1.0E-05	1.0E-05	0.0002	0.0493	0.0022	22.8309	0.6782	0.622	0.014	0.2661	0.0045	3119.1	55.5	3283.1	26.9	95
*RAR01-20.1	19.02	7.98	0.43323	10	1	1.5E-04	2.2E-04	0.0027	0.1202	0.0089	10.3453	0.4445	0.451	0.010	0.1662	0.0056	2401.4	45.4	2520.0	58.0	95.3
RAR01-11.1	329.86	44.53	0.13947	186	1	1.0E-05	1.0E-05	0.0002	0.0347	0.0008	14.9565	0.2850	0.528	0.008	0.2054	0.0020	2733.8	33.9	2869.4	16.0	95.3
*RAR01-16.1	3.33	0.04	0.01342	2	1	4.5E-04	5.3E-04	0.0078	0.0012	0.0205	25.5972	1.3341	0.652	0.021	0.2849	0.0105	3234.9	82.9	3389.8	58.9	95.4
*RAR01-10.1	230.87	5.59	0.02503	172	2	1.4E-05	2.0E-05	0.0002	0.0068	0.0008	26.9811	0.4510	0.666	0.011	0.2939	0.0010	3289.8	41.2	3438.4	5.3	95.7
RAR01-1.1	152.23	85.75	0.58194	116	1	1.0E-05	3.2E-05	0.0002	0.1535	0.0025	22.6670	0.5894	0.626	0.013	0.2625	0.0034	3135.4	52.4	3261.5	20.5	96.1
*RAR01-8.1	160.86	79.8	0.51249	139	2	2.2E-05	1.7E-05	0.0004	0.1362	0.0018	29.8134	0.4933	0.693	0.010	0.3119	0.0019	3394.8	38.6	3530.5	9.7	96.2
*RAR01-6.1	107.3	61.85	0.59544	92	0	6.3E-07	2.0E-05	0.0000	0.1568	0.0013	28.3715	0.5792	0.683	0.014	0.3012	0.0009	3356.4	52.0	3476.5	4.7	96.5
RAR01-27.1	294.28	171.11	0.60067	223	4	2.3E-05	1.9E-05	0.0004	0.1565	0.0022	22.1128	0.4714	0.623	0.012	0.2576	0.0015	3120.6	49.2	3231.9	9.2	96.6
RAR01-22.1	129.51	0.63	0.00501	98	2	2.4E-05	6.1E-05	0.0004	0.0010	0.0023	27.1881	0.6632	0.679	0.013	0.2904	0.0037	3340.3	50.6	3419.9	19.8	97.7
RAR01-25.1	230.25	133.29	0.59802	181	5	4.2E-05	2.8E-05	0.0007	0.1615	0.0027	23.1748	0.5329	0.640	0.013	0.2625	0.0024	3190.0	50.5	3261.9	14.5	97.8
RAR01-30.1	84.3	45.37	0.55595	76	5	9.6E-05	4.9E-05	0.0017	0.1385	0.0057	31.3010	1.1769	0.718	0.023	0.3163	0.0050	3487.4	87.3	3552.0	24.6	98.2
RAR01-2.1	81.14	32.68	0.4161	71	1	1.5E-05	5.3E-05	0.0003	0.1114	0.0050	30.5790	0.8107	0.712	0.014	0.3117	0.0050	3464.6	51.6	3529.1	25.0	98.2
*RAR01-28.1	160.52	95.4	0.61397	144	1	1.0E-05	1.0E-05	0.0002	0.1617	0.0011	30.1007	0.4747	0.708	0.010	0.3084	0.0015	3450.9	38.5	3512.7	7.7	98.2
RAR01-5.1	181.95	90.11	0.51161	160	2	1.6E-05	9.8E-06	0.0003	0.1340	0.0009	29.9204	0.5845	0.708	0.013	0.3067	0.0018	3449.3	48.1	3504.3	9.1	98.4
RAR01-13.1	254.24	0.87	0.00352	197	2	1.0E-05	1.0E-05	0.0002	0.0007	0.0004	28.2095	0.5607	0.695	0.013	0.2943	0.0014	3402.8	49.7	3440.2	7.3	98.9
*RAR01-9.1	230.18	3.95	0.01771	71	1	1.0E-05	1.0E-05	0.0002	0.0048	0.0005	4.8784	0.0926	0.321	0.005	0.1103	0.0008	1793.5	26.5	1804.4	12.5	99.4
*RAR01-15.1	216.37	274.14	1.30884	222	3	1.9E-05	4.7E-06	0.0003	0.3394	0.0029	30.9457	0.4822	0.722	0.011	0.3108	0.0011	3504.5	40.0	3524.7	5.4	99.4
RAR01-3.1	59.56	1.04	0.01809	47	1	3.5E-05	5.0E-05	0.0006	0.0041	0.0020	29.0859	0.6624	0.707	0.014	0.2983	0.0026	3447.7	53.7	3461.5	13.5	99.6
*RAR01-17.1	66.33	32.92	0.51277	52	1	2.8E-05	4.3E-05	0.0005	0.1358	0.0021	23.6969	0.5133	0.658	0.011	0.2613	0.0030	3258.3	43.7	3254.6	18.1	100.1
*RAR01-26.1	73.53	0.3	0.00416	58	0	1.0E-05	1.0E-05	0.0002	0.0015	0.0004	28.4497	0.5453	0.710	0.012	0.2908	0.0022	3456.6	44.9	3422.0	11.8	101
RAR01-14.1	28.77	0.15	0.00521	24	4	1.9E-04	2.0E-04	0.0034	-0.0032	0.0077	30.2298	1.0214	0.736	0.013	0.2977	0.0079	3557.5	48.9	3458.3	41.8	102.9
RAR01-19.1	*12.7*	*0.11*	*0.00932*	*11*	*3*	*3.5E-04*	*4.5E-04*	*0.0061*	*-0.0053*	*0.0170*	*33.0517*	*2.6055*	*0.788*	*0.044*	*0.3041*	*0.0149*	*3747.5*	*161.0*	*3491.0*	*77.9*	*107.3*
RAR01-29.1	*17.18*	*5.23*	*0.31466*	*5*	*5*	*1.1E-03*	*7.5E-04*	*0.0196*	*0.0539*	*0.0307*	*3.9468*	*0.6252*	*0.312*	*0.010*	*0.0917*	*0.0139*	*1752.1*	*48.5*	*1460.2*	*318.9*	*120*
Prichard Formation (VN-07; K200, O-, Kipawa)																					
VN07-J3.1	1337	220.2	0.16469	339	3	8.7E-06	6.2E-05	0.0002	0.0483	0.0039	0.2552	0.0156	3.727	0.264	0.1059	0.0031	1465.3	80.8	1730.3	53.9	84.7
VN07-N2.1	452.94	168.38	0.37174	124	1	9.4E-06	4.5E-05	0.0002	0.1097	0.0027	0.2619	0.0041	3.872	0.078	0.1072	0.0012	1499.7	21.1	1752.9	20.0	85.6
VN07-F1.2	535.79	700.35	1.30713	175	4	3.4E-05	4.5E-05	0.0006	0.3757	0.0040	0.2566	0.0038	3.634	0.083	0.1027	0.0016	1472.4	19.3	1673.9	29.3	88
VN07-D4.1	302.3	68.29	0.2259	93	1	1.1E-05	4.0E-05	0.0002	0.0691	0.0028	0.3030	0.0060	4.628	0.129	0.1108	0.0020	1706.4	29.5	1811.8	32.3	94.2
VN07-E3.1	240.17	337.7	1.40608	83	0	2.9E-06	1.2E-05	0.0001	0.4208	0.0022	0.2633	0.0061	3.528	0.089	0.0972	0.0008	1506.6	30.9	1570.8	15.4	95.9
VN07-A3.1	120.85	121.59	1.00617	38	4	1.6E-04	1.2E-04	0.0028	0.2984	0.0095	0.2591	0.0058	3.415	0.138	0.0956	0.0030	1485.0	29.7	1540.3	59.3	96.4
VN07-L2.1	210.91	218.68	1.03683	81	1	1.0E-05	1.0E-05	0.0002	0.3237	0.0030	0.3101	0.0039	4.709	0.075	0.1101	0.0009	1741.3	19.4	1801.7	14.7	96.6
VN07-N5.1	84.01	82.34	0.98015	27	0	1.0E-05	1.0E-05	0.0002	0.2869	0.0027	0.2714	0.0054	3.687	0.085	0.0985	0.0009	1547.9	27.6	1596.4	17.3	97
VN07-N1.1	483.88	314.23	0.64941	141	1	6.3E-06	3.7E-05	0.0001	0.1939	0.0041	0.2623	0.0061	3.457	0.101	0.0956	0.0014	1501.8	31.3	1539.2	28.4	97.6
VN07-I2.1	162.29	92.12	0.56763	48	2	4.2E-05	2.1E-05	0.0007	0.1653	0.0020	0.2727	0.0034	3.694	0.055	0.0983	0.0007	1554.3	17.0	1591.1	12.9	97.7
VN07-A4.1	186.98	96.66	0.51696	56	1	2.0E-05	2.6E-05	0.0003	0.1495	0.0019	0.2774	0.0034	3.803	0.059	0.0994	0.0008	1578.2	17.0	1613.3	15.6	97.8
VN07-F3.1	414.85	201.89	0.48666	142	1	1.0E-05	1.0E-05	0.0002	0.1420	0.0052	0.3185	0.0075	4.881	0.166	0.1112	0.0024	1782.2	36.8	1818.5	40.0	98
VN07-G2.1	220.87	57.81	0.26176	71	1	2.0E-05	2.4E-05	0.0004	0.0779	0.0017	0.3127	0.0055	4.719	0.101	0.1095	0.0011	1753.9	27.3	1790.2	18.3	98
VN07-G3.1	153.78	84.02	0.54636	45	4	1.0E-04	5.0E-05	0.0018	0.1583	0.0040	0.2699	0.0043	3.615	0.081	0.0972	0.0014	1540.1	21.9	1570.4	26.6	98.1
VN07-E1.1	298.52	91.25	0.30566	150	1	1.1E-05	1.2E-05	0.0002	0.0861	0.0014	0.4659	0.0057	10.611	0.153	0.1652	0.0010	2465.3	25.3	2509.6	10.4	98.2
VN07-N4.1	261.86	157.14	0.60009	88	1	2.2E-05	1.5E-05	0.0004	0.1746	0.0014	0.3041	0.0060	4.467	0.097	0.1066	0.0007	1711.6	29.7	1741.1	12.7	98.3
VN07-C4.1	639.8	693.9	1.08456	220	9	5.7E-05	9.0E-05	0.0010	0.3347	0.0062	0.2786	0.0463	3.815	0.652	0.0993	0.0024	1584.2	237.7	1611.5	46.2	98.3

Spot name*	U (ppm)	Th (ppm)	Th/U	Pb (ppm)	204Pb (ppb)	204Pb/ 206Pb	±204Pb/ 206Pb	f206	208Pb/ 206Pb	±208Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 235U	±207Pb/ 235U	207Pb/ 206Pb	±207Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 206Pb	±207Pb/ 206Pb	Conc. (%)
VN07-B4.1	132.68	134.05	1.01034	41	0	1.0E-05	1.0E-05	0.0002	0.2977	0.0039	0.2557	0.0034	3.282	0.055	0.0931	0.0008	1467.8	17.3	1489.9	17.1	98.5
VN07-L4.1	218.89	123.38	0.56366	82	2	2.8E-05	1.2E-04	0.0005	0.1643	0.0098	0.3397	0.0096	5.467	0.284	0.1167	0.0047	1885.0	46.5	1906.7	73.9	98.9
VN07-E2.1	341.78	303.96	0.88934	111	1	1.0E-05	1.0E-05	0.0002	0.2689	0.0041	0.2758	0.0043	3.711	0.082	0.0976	0.0014	1570.4	21.8	1578.3	26.2	99.5
VN07-F4.1	121.57	69.11	0.56845	42	0	1.0E-05	1.0E-05	0.0002	0.1631	0.0020	0.3124	0.0079	4.634	0.128	0.1076	0.0009	1752.5	39.1	1758.8	14.5	99.6
VN07-G1.1	282.71	213.92	0.75669	81	0	5.6E-06	1.1E-05	0.0001	0.2333	0.0020	0.2521	0.0033	3.172	0.048	0.0913	0.0006	1449.2	16.9	1452.0	12.3	99.8
VN07-M1.1	133.67	131.37	0.98282	45	1	2.5E-05	3.2E-05	0.0004	0.2935	0.0037	0.2820	0.0035	3.830	0.061	0.0985	0.0009	1601.4	17.5	1596.1	16.3	100.3
VN07-C2.1	628.63	226.45	0.36023	185	2	1.0E-05	1.0E-05	0.0002	0.1086	0.0028	0.2831	0.0044	3.859	0.090	0.0989	0.0015	1607.0	22.2	1602.7	29.4	100.3
VN07-H1.1	161.61	47.49	0.29383	50	1	1.8E-05	8.8E-05	0.0003	0.0901	0.0047	0.3001	0.0163	4.260	0.266	0.1029	0.0026	1692.0	81.1	1677.7	47.1	100.9
VN07-K4.1	183.1	333.97	1.824	72	0	1.0E-05	1.0E-05	0.0002	0.5214	0.0119	0.2817	0.0092	3.803	0.170	0.0979	0.0026	1599.8	46.3	1585.0	50.7	100.9
VN07-F2.1	306.03	173.28	0.56622	110	1	1.0E-05	1.0E-05	0.0002	0.1654	0.0011	0.3280	0.0055	4.960	0.088	0.1097	0.0005	1828.9	26.7	1793.8	7.5	102
VN07-K1.1	992.48	1071.52	1.07964	352	2	7.9E-06	1.8E-05	0.0001	0.3238	0.0045	0.2891	0.0053	3.945	0.094	0.0990	0.0013	1636.9	26.8	1604.9	24.6	102
VN07-C1.1	277.76	129	0.46441	155	1	1.0E-05	1.0E-05	0.0002	0.1314	0.0017	0.4976	0.0107	11.620	0.266	0.1694	0.0010	2603.3	46.0	2551.5	10.0	102
VN07-K3.1	369.48	390.41	1.05666	124	2	2.6E-05	8.8E-05	0.0005	0.3020	0.0124	0.2787	0.0133	3.696	0.240	0.0962	0.0037	1584.9	67.2	1551.1	74.6	102.2
VN07-A2.1	153.66	137.35	0.89386	52	2	6.5E-05	2.7E-04	0.0011	0.2728	0.0235	0.2859	0.0114	3.856	0.360	0.0978	0.0078	1620.7	57.4	1583.3	157.0	102.4
VN07-M4.1	571.98	553.9	0.96839	193	28	2.0E-04	1.8E-04	0.0035	0.2824	0.0082	0.2847	0.0068	3.813	0.160	0.0971	0.0031	1614.8	34.2	1569.8	60.3	102.9
VN07-B1.1	1152.1	340.33	0.29541	417	1	2.7E-06	7.5E-05	0.0001	0.0868	0.0042	0.3518	0.0089	5.329	0.185	0.1099	0.0023	1943.0	42.4	1797.2	38.6	108.1
VN07-F1.1	937.87	1266.52	1.35042	386	6	2.5E-05	5.7E-05	0.0004	0.3850	0.0052	0.3212	0.0075	4.506	0.147	0.1017	0.0020	1795.8	36.8	1656.0	37.6	108.4
Aldridge Formation (DRB-18; K200, O2-, Kipawa)																					
DRB18-H2.1	137.59	81.43	0.5918	74	0	6.9E-06	8.1E-06	0.0001	0.1579	0.0011	0.4710	0.0089	11.220	0.221	0.1728	0.0007	2487.7	39.0	2584.8	6.5	96.2
DRB18-D1.1	37.56	39.99	1.06464	14	1	1.3E-04	8.5E-05	0.0022	0.2932	0.0055	0.3007	0.0074	4.425	0.143	0.1067	0.0020	1694.9	36.6	1743.9	34.1	97.2
DRB18-E1.1	578.6	181.96	0.31448	302	2	9.5E-06	3.5E-06	0.0002	0.0832	0.0005	0.4835	0.0080	11.542	0.197	0.1731	0.0004	2542.7	34.9	2588.1	4.2	98.2
DRB18-D2.1	94.06	107.43	1.14211	60	1	2.3E-05	2.1E-05	0.0004	0.3055	0.0023	0.5006	0.0108	12.436	0.287	0.1802	0.0010	2616.5	46.7	2654.4	9.5	98.6
DRB18-G1.1	159.64	96.28	0.60309	55	0	4.9E-06	2.8E-05	0.0001	0.1748	0.0023	0.3133	0.0057	4.690	0.098	0.1086	0.0009	1756.9	27.9	1775.6	15.5	98.9
DRB18-G2.1	271.7	104.56	0.38485	90	0	2.1E-06	1.6E-05	0.0000	0.1100	0.0013	0.3174	0.0055	4.786	0.093	0.1094	0.0007	1777.2	27.0	1788.6	12.3	99.4
DRB18-C2.1	229.51	133.73	0.58266	129	1	1.4E-05	7.1E-06	0.0002	0.1571	0.0009	0.4925	0.0087	11.789	0.214	0.1736	0.0005	2581.4	37.6	2592.9	4.6	99.6
DRB18-F2.1	207.05	141.73	0.68453	78	2	3.7E-05	2.1E-05	0.0006	0.1922	0.0020	0.3330	0.0065	5.222	0.115	0.1138	0.0009	1852.8	31.5	1860.1	14.9	99.6
DRB18-F1.1	127.75	90.7	0.70998	75	1	2.3E-05	2.5E-05	0.0004	0.1949	0.0020	0.4969	0.0103	11.998	0.274	0.1751	0.0013	2600.5	44.6	2607.2	12.3	99.7
DRB18-B2.1	47.77	44.74	0.93663	21	2	1.1E-04	6.0E-05	0.0019	0.2526	0.0038	0.3704	0.0083	6.415	0.171	0.1256	0.0015	2031.4	38.9	2037.4	21.8	99.7
DRB18-H1.1	240.72	69.5	0.28873	81	0	5.9E-06	1.4E-05	0.0001	0.0822	0.0011	0.3274	0.0060	5.019	0.101	0.1112	0.0007	1825.6	29.3	1819.0	11.0	100.4
DRB18-D1.2	363.05	213.79	0.58886	128	2	1.7E-05	1.1E-05	0.0003	0.1657	0.0011	0.3206	0.0056	4.816	0.088	0.1090	0.0004	1792.4	27.2	1782.1	7.3	100.6
DRB18-A1.1	340.46	166.51	0.48907	154	1	4.9E-06	2.8E-05	0.0001	0.1381	0.0034	0.4112	0.0087	7.832	0.207	0.1381	0.0019	2220.5	39.7	2204.0	23.7	100.7
DRB18-B2.2	191.78	83.51	0.43547	78	2	3.3E-05	1.3E-05	0.0006	0.1224	0.0010	0.3798	0.0066	6.663	0.127	0.1272	0.0007	2075.3	31.1	2060.2	10.3	100.7
DRB18-C1.1	486.01	137.87	0.28367	166	2	1.1E-05	5.7E-06	0.0002	0.0807	0.0005	0.3327	0.0057	5.151	0.092	0.1123	0.0004	1851.6	27.4	1836.6	6.5	100.8
DRB18-E2.1	120.86	62.48	0.51695	42	0	7.4E-06	2.5E-05	0.0001	0.1431	0.0019	0.3209	0.0103	4.815	0.162	0.1088	0.0008	1794.2	50.3	1779.6	13.4	100.8
DRB18-B1.1	303.24	102.21	0.33705	108	0	3.6E-06	6.3E-06	0.0001	0.0946	0.0007	0.3429	0.0060	5.427	0.100	0.1148	0.0004	1900.8	29.1	1876.2	6.0	101.3
DRB18-E3.1	111.3	46.52	0.41795	40	1	3.9E-05	2.4E-05	0.0007	0.1200	0.0017	0.3419	0.0065	5.292	0.113	0.1123	0.0008	1895.8	31.5	1836.1	13.7	103.3

Spot name*	U (ppm)	Th (ppm)	Th/U	Pb (ppm)	204Pb (ppb)	204Pb/ 206Pb	±204Pb/ 206Pb	f206	208Pb/ 206Pb	±208Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 235U	±207Pb/ 235U	207Pb/ 206Pb	±207Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 206Pb	±207Pb/ 206Pb	Conc. (%)
Grinnell Formation (GRN; K200, O-, Kipawa)																					
GRN-D4.1	80.04	33.42	0.41757	25	1	5.6E-05	3.8E-05	0.0010	0.1256	0.0023	0.2885	0.0063	4.382	0.112	0.1102	0.0012	1634.0	31.6	1802.0	20.1	90.7
GRN-E5.1	214.77	221.53	1.03149	122	8	9.1E-05	1.5E-05	0.0016	0.2400	0.0014	0.4627	0.0082	11.545	0.214	0.1810	0.0007	2451.6	36.1	2661.7	6.3	92.1
GRN-B5.1	51.91	49.24	0.94856	18	2	1.5E-04	8.7E-05	0.0026	0.2694	0.0049	0.2943	0.0060	4.427	0.124	0.1091	0.0018	1663.1	30.0	1784.2	31.0	93.2
GRN-B3.1	238.11	191.11	0.80261	87	1	7.9E-06	1.4E-05	0.0001	0.2315	0.0014	0.3145	0.0057	4.950	0.096	0.1142	0.0005	1762.6	28.2	1866.7	8.3	94.4
GRN-A8.1	379.73	113.25	0.29823	119	3	3.1E-05	8.5E-06	0.0005	0.0832	0.0007	0.3059	0.0055	4.616	0.087	0.1095	0.0004	1720.3	27.2	1790.5	6.7	96.1
GRN-G2.1	218.69	68.16	0.3117	74	0	5.9E-06	1.5E-05	0.0001	0.0894	0.0012	0.3255	0.0062	5.150	0.107	0.1147	0.0008	1816.6	30.0	1875.8	11.8	96.8
GRN-E4.1	149.02	158.44	1.06317	57	0	1.0E-05	1.0E-05	0.0002	0.3020	0.0027	0.3162	0.0068	4.837	0.116	0.1110	0.0009	1771.1	33.3	1815.0	15.1	97.6
GRN-A3.1	84.7	42.18	0.49801	28	0	1.0E-05	1.0E-05	0.0002	0.1416	0.0022	0.3098	0.0058	4.640	0.098	0.1086	0.0008	1739.6	28.8	1776.7	13.8	97.9
GRN-E2.1	198.14	52.02	0.26256	67	1	1.0E-05	1.0E-05	0.0002	0.0750	0.0008	0.3282	0.0059	5.160	0.101	0.1140	0.0007	1829.6	28.7	1864.7	10.3	98.1
GRN-D2.1	68.5	65.46	0.95558	29	1	6.7E-05	5.7E-05	0.0012	0.2756	0.0039	0.3548	0.0071	6.002	0.148	0.1227	0.0015	1957.3	33.9	1996.0	21.7	98.1
GRN-D7.1	135.02	70.26	0.52037	48	0	1.2E-06	1.4E-05	0.0000	0.1505	0.0013	0.3286	0.0059	5.147	0.103	0.1136	0.0008	1831.5	28.7	1857.8	12.6	98.6
GRN-A7.1	94.26	54.46	0.57776	53	1	1.7E-05	2.9E-05	0.0003	0.1559	0.0028	0.4893	0.0101	11.764	0.277	0.1744	0.0016	2567.7	43.6	2599.9	15.6	98.8
GRN-F4.1	168.07	78.35	0.46617	58	1	1.3E-05	2.1E-05	0.0002	0.1349	0.0018	0.3237	0.0062	4.966	0.109	0.1113	0.0010	1807.9	30.0	1820.1	16.5	99.3
GRN-F1.1	66.95	37.05	0.55345	24	0	1.0E-05	1.0E-05	0.0002	0.1596	0.0027	0.3285	0.0062	5.085	0.107	0.1123	0.0008	1831.0	30.3	1836.6	13.0	99.7
GRN-C7.1	75.54	68.03	0.90061	48	0	1.0E-05	1.0E-05	0.0002	0.2479	0.0025	0.5173	0.0105	13.037	0.277	0.1828	0.0008	2687.7	44.6	2678.4	7.6	100.3
GRN-D10.1	247.92	378.68	1.52744	110	4	5.5E-05	1.6E-05	0.0010	0.4426	0.0025	0.3316	0.0059	5.139	0.099	0.1124	0.0006	1845.9	28.7	1838.8	10.2	100.4
GRN-B1.1	260.03	143.62	0.55233	95	0	4.4E-06	8.6E-06	0.0001	0.1591	0.0009	0.3331	0.0059	5.181	0.098	0.1128	0.0005	1853.4	28.7	1845.0	8.1	100.5
GRN-H1.1	78.08	40.68	0.52104	27	0	1.0E-05	1.0E-05	0.0002	0.1525	0.0022	0.3223	0.0066	4.865	0.113	0.1095	0.0010	1801.1	32.0	1790.8	16.6	100.6
GRN-A1.1	106.3	66.22	0.62298	65	0	1.0E-05	1.0E-05	0.0002	0.1730	0.0013	0.5208	0.0099	13.157	0.262	0.1832	0.0008	2702.6	41.9	2682.2	7.0	100.8
GRN-C1.1	95.4	79.85	0.83705	60	0	1.0E-05	1.0E-05	0.0002	0.2334	0.0020	0.5201	0.0105	13.064	0.287	0.1822	0.0012	2699.7	44.7	2672.7	10.7	101
GRN-C8.1	176.37	76.56	0.43408	62	1	1.5E-05	4.3E-05	0.0003	0.1264	0.0041	0.3296	0.0092	5.048	0.182	0.1111	0.0022	1836.4	44.6	1817.2	36.3	101.1
GRN-B2.1	175.84	125.91	0.71604	64	0	1.0E-05	1.0E-05	0.0002	0.2049	0.0016	0.3237	0.0059	4.872	0.099	0.1092	0.0008	1807.7	28.6	1785.5	13.6	101.2
GRN-C3.1	143.75	109.43	0.76124	56	0	1.1E-06	2.3E-05	0.0000	0.2233	0.0019	0.3377	0.0061	5.274	0.104	0.1133	0.0007	1875.8	29.4	1852.2	10.8	101.3
GRN-D1.1	124.38	93.03	0.74798	45	1	1.6E-05	2.3E-05	0.0003	0.2142	0.0023	0.3167	0.0057	4.674	0.092	0.1071	0.0007	1773.5	28.0	1749.8	11.3	101.4
GRN-G1.1	94.48	47.74	0.50527	33	1	3.4E-05	1.9E-05	0.0006	0.1474	0.0016	0.3226	0.0059	4.812	0.099	0.1082	0.0008	1802.3	29.0	1769.1	13.2	101.9
GRN-D3.1	178.36	142.61	0.79957	71	0	9.0E-06	2.1E-05	0.0002	0.2333	0.0024	0.3414	0.0065	5.343	0.115	0.1135	0.0009	1893.6	31.3	1856.1	14.6	102
GRN-C9.1	59.91	48.04	0.80201	24	1	4.6E-05	3.8E-05	0.0008	0.2346	0.0031	0.3399	0.0068	5.234	0.124	0.1117	0.0012	1886.1	32.6	1826.9	19.0	103.2
GRN-E3.1	217.41	110.29	0.50727	79	1	1.0E-05	1.0E-05	0.0002	0.1458	0.0014	0.3366	0.0063	5.104	0.101	0.1100	0.0005	1870.5	30.4	1798.9	8.7	104
GRN-C2.1	146.08	124.41	0.85165	66	0	6.5E-06	2.7E-05	0.0001	0.2481	0.0020	0.3823	0.0070	6.386	0.129	0.1212	0.0008	2087.0	32.7	1973.3	12.1	105.8
Creston Formation (DRB184; K200, O2-, Kipawa)																					
DRB184-D2.1	537.38	152.51	0.28381	127	4	3.4E-05	1.9E-05	0.0006	0.0743	0.0015	0.2326	0.0044	3.474	0.075	0.1083	0.0009	1347.9	23.0	1771.5	15.3	76.1
DRB184-B5.1	617.74	287.51	0.46543	274	4	2.0E-05	1.1E-05	0.0004	0.1231	0.0012	0.3980	0.0073	9.476	0.186	0.1727	0.0009	2159.9	33.8	2583.7	8.4	83.6
DRB184-A1.1	50.66	36.17	0.71398	19	0	1.0E-05	1.0E-05	0.0002	0.2072	0.0067	0.3213	0.0116	5.673	0.252	0.1281	0.0028	1796.2	56.7	2071.4	39.1	86.7
DRB184-A1.3	24.15	17.84	0.73864	9	1	1.5E-04	1.7E-04	0.0026	0.2031	0.0085	0.3319	0.0102	5.909	0.262	0.1291	0.0037	1847.5	49.6	2086.1	50.5	88.6
DRB184-B1.1	121.96	33.29	0.27299	37	0	1.0E-05	1.0E-05	0.0002	0.0783	0.0026	0.2960	0.0091	4.633	0.176	0.1135	0.0022	1671.4	45.2	1856.5	34.6	90
DRB184-E1.1	549.53	266.18	0.48439	180	1	1.0E-05	1.0E-05	0.0002	0.1382	0.0015	0.3047	0.0054	4.798	0.091	0.1142	0.0006	1714.4	26.6	1867.7	9.8	91.8
DRB184-B2.1	156.29	149.03	0.95354	58	0	1.0E-05	1.0E-05	0.0002	0.2688	0.0025	0.3103	0.0062	4.958	0.109	0.1159	0.0008	1742.0	30.3	1894.0	13.2	92
DRB184-H1.1	31.25	14.82	0.47433	14	1	7.2E-05	7.5E-05	0.0012	0.1285	0.0039	0.4189	0.0096	9.082	0.263	0.1572	0.0024	2255.7	43.6	2426.1	26.1	93
DRB184-A1.2	33.3	21.61	0.64904	13	2	2.1E-04	1.1E-04	0.0036	0.1835	0.0050	0.3543	0.0081	6.295	0.191	0.1289	0.0022	1955.1	38.7	2082.4	30.6	93.9
DRB184-H1.2	45.81	24.39	0.53247	23	5	2.9E-04	5.9E-05	0.0050	0.1500	0.0030	0.4355	0.0104	9.707	0.270	0.1616	0.0019	2330.6	46.7	2472.9	19.8	94.2
DRB184-C3.1	417.6	155.53	0.37244	140	2	1.4E-05	9.9E-06	0.0002	0.1054	0.0009	0.3199	0.0057	5.106	0.097	0.1158	0.0006	1789.2	27.7	1892.0	9.5	94.6
DRB184-C4.1	601.66	220.58	0.36662	305	3	1.3E-05	5.7E-06	0.0002	0.0988	0.0007	0.4630	0.0078	10.975	0.193	0.1719	0.0006	2452.9	34.2	2576.3	6.2	95.2
DRB184-B6.1	534.32	143.02	0.26767	260	6	2.9E-05	7.1E-06	0.0005	0.0728	0.0006	0.4561	0.0077	10.526	0.184	0.1674	0.0005	2422.4	34.1	2531.4	4.8	95.7
DRB184-A2.1	253.48	191.39	0.75506	141	1	5.5E-06	9.2E-06	0.0001	0.2042	0.0013	0.4690	0.0080	11.149	0.203	0.1724	0.0008	2479.2	35.3	2581.1	7.4	96.1
DRB184-H2.1	837.25	57.96	0.06922	398	5	1.6E-05	6.0E-06	0.0003	0.0184	0.0003	0.4647	0.0080	10.902	0.194	0.1701	0.0005	2460.4	35.2	2559.0	4.9	96.1
DRB184-E4.1	1028.7	330.62	0.32139	534	4	8.9E-06	2.6E-06	0.0002	0.0864	0.0004	0.4784	0.0079	11.508	0.195	0.1745	0.0004	2520.5	34.7	2600.8	3.5	96.9
DRB184-A6.1	378.99	236.31	0.62352	212	7	4.3E-05	1.1E-05	0.0008	0.1693	0.0010	0.4830	0.0084	11.665	0.212	0.1752	0.0006	2540.2	36.7	2607.7	5.5	97.4
DRB184-A3.1	164.72	55.18	0.33499	83	2	2.8E-05	1.6E-05	0.0005	0.0929	0.0010	0.4673	0.0089	10.796	0.220	0.1676	0.0009	2471.7	39.3	2533.4	8.6	97.6
DRB184-E5.1	261.83	165.21	0.63098	148	2	2.0E-05	7.8E-06	0.0004	0.1720	0.0009	0.4883	0.0087	11.789	0.221	0.1751	0.0007	2563.5	37.9	2606.9	6.5	98.3
DRB184-E6.1	273.4	266.28	0.97395	157	4	3.6E-05	1.2E-05	0.0006	0.2689	0.0016	0.4649	0.0080	10.546	0.193	0.1645	0.0008	2461.3	35.3	2502.6	7.7	98.4
DRB184-F6.1	150.93	70.18	0.46497	83	2	2.7E-05	1.9E-05	0.0005	0.1269	0.0013	0.4905	0.0100	11.853	0.257	0.1753	0.0010	2572.8	43.2	2608.6	9.4	98.6
DRB184-E3.1	167.27	137.19	0.82019	104	3	4.6E-05	2.3E-05	0.0008	0.2216	0.0021	0.5117	0.0096	12.895	0.265	0.1828	0.0012	2663.9	41.1	2678.2	10.5	99.5
DRB184-F1.1	132.26	93.7	0.70846	49	2	4.4E-05	2.8E-05	0.0008	0.2022	0.0022	0.3301	0.0065	5.128	0.113	0.1127	0.0009	1838.9	31.4	1843.0	14.6	99.8
DRB184-F5.1	828.04	251.72	0.30399	442	3	8.6E-06	4.2E-06	0.0002	0.0827	0.0006	0.4942	0.0082	11.822	0.204	0.1735	0.0005	2588.6	35.7	2591.9	4.9	99.9
DRB184-G1.1	831.8	137.51	0.16532	439	13	3.6E-05	1.5E-05	0.0006	0.0417	0.0008	0.5042	0.0085	12.181	0.217	0.1752	0.0007	2631.8	36.5	2608.1	6.5	100.9
DRB184-B3.1	292	82.12	0.28124	159	0	2.0E-06	1.2E-05	0.0000	0.0758	0.0010	0.5061	0.0090	12.206	0.235	0.1749	0.0010	2640.1	38.6	2605.3	9.1	101.3
DRB184-C2.1	2597.1	458.12	0.1764	1389	15	1.3E-05	8.7E-06	0.0002	0.0465	0.0007	0.5115	0.0117	11.913	0.308	0.1689	0.0016	2663.0	50.0	2547.0	16.3	104.6
DRB184-H3.1	1896.2	731.69	0.38587	837	11	1.6E-05	3.0E-05	0.0003	0.1077	0.0023	0.4216	0.0115	6.324	0.187	0.1088	0.0009	2267.9	52.5	1779.1	15.6	127.5
DRB184-A4.1	2233	1297.6	0.58111	1924	27	1.8E-05	2.3E-05	0.0003	0.1481	0.0019	0.7572	0.0266	18.131	0.661	0.1737	0.0011	3634.0	98.5	2593.2	10.3	140.1
DRB184-B4.1	2000.7	1846.3	0.92282	1384	10	1.0E-05	1.0E-05	0.0002	0.2458	0.0031	0.5919	0.0214	9.094	0.349	0.1114	0.0010	2997.0	87.2	1823.0	16.8	164.4
Revett Formation, Euhedral zircons (RVFE; K200, O2-, Kipawa)																					
RVFE-6F.1	73.42	73.98	1.00756	25	11	6.2E-04	2.8E-04	0.0107	0.3135	0.0141	0.2732	0.0108	4.111	0.295	0.1091	0.0060	1557.0	54.7	1785.2	104.3	87.2
RVFE-7B.1	185.97	103.37	0.55584	55	7	1.5E-04	1.4E-04	0.0027	0.1582	0.0071	0.2713	0.0088	3.955	0.185	0.1057	0.0032	1547.2	44.8	1727.3	55.9	89.6
RVFE-6A.1	213.57	114.73	0.53719	67	12	2.4E-04	1.0E-04	0.0041	0.1558	0.0053	0.2868	0.0075	4.333	0.158	0.1096	0.0025	1625.6	37.8	1792.3	41.3	90.7

Spot name*	U (ppm)	Th (ppm)	Th/U	Pb (ppm)	204Pb (ppb)	204Pb/ 206Pb	±204Pb/ 206Pb	f206	208Pb/ 206Pb	±208Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 235U	±207Pb/ 235U	207Pb/ 206Pb	±207Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 206Pb	±207Pb/ 206Pb	Conc. (%)
RVFE-5B.1	128.72	97.46	0.75718	43	0	1.0E-05	1.0E-05	0.0002	0.2464	0.0084	0.2855	0.0099	4.198	0.200	0.1067	0.0031	1618.8	49.7	1743.0	53.9	92.9
RVFE-6G.1	257.64	294.74	1.144	94	18	2.8E-04	1.3E-04	0.0049	0.3191	0.0073	0.2964	0.0096	4.480	0.211	0.1096	0.0033	1673.4	47.9	1793.0	56.3	93.3
RVFE-6B.1	314.46	191.31	0.60839	98	9	1.2E-04	1.2E-04	0.0021	0.1815	0.0063	0.2830	0.0072	4.026	0.152	0.1032	0.0026	1606.2	36.1	1682.6	46.8	95.5
RVFE-5H.1	159.76	18.44	0.1154	42	7	1.9E-04	2.1E-04	0.0033	0.0386	0.0080	0.2658	0.0098	3.598	0.206	0.0982	0.0039	1519.2	50.0	1590.2	76.0	95.5
RVFE-1D.1	1090.6	306.33	0.28089	294	31	1.3E-04	4.5E-05	0.0022	0.0793	0.0020	0.2663	0.0055	3.565	0.086	0.0971	0.0010	1522.1	28.0	1568.9	19.8	97
RVFE-6E.1	190.56	61.86	0.32461	66	18	3.3E-04	1.3E-04	0.0058	0.0972	0.0055	0.3322	0.0115	5.307	0.243	0.1159	0.0030	1848.9	55.8	1893.4	47.4	97.6
RVFE-2B.1	86.95	72.54	0.83422	30	32	1.4E-03	5.3E-04	0.0243	0.2331	0.0227	0.3026	0.0147	4.374	0.458	0.1049	0.0091	1704.0	73.3	1711.9	168.8	99.5
RVFE-7G.2	198.45	97.14	0.48951	69	6	1.1E-04	1.2E-04	0.0019	0.1509	0.0055	0.3198	0.0093	4.835	0.195	0.1096	0.0027	1788.9	45.6	1793.4	45.7	99.7
RVFE-1D.2	687.29	584.67	0.85069	220	34	2.1E-04	5.8E-05	0.0036	0.2513	0.0040	0.2762	0.0151	3.698	0.234	0.0971	0.0025	1572.4	76.6	1568.9	49.1	100.2
RVFE-5G.1	720.67	1404.92	1.94947	272	17	1.0E-04	5.4E-05	0.0018	0.5643	0.0046	0.2640	0.0057	3.416	0.094	0.0939	0.0014	1510.2	29.0	1505.1	27.7	100.3
RVFE-4A.1	416.84	160.46	0.38494	123	22	2.1E-04	1.1E-04	0.0037	0.1174	0.0049	0.2829	0.0063	3.826	0.135	0.0981	0.0024	1605.8	31.9	1588.4	47.0	101.1
RVFE-5B.2	591.52	40.33	0.06818	162	13	8.8E-05	5.8E-05	0.0015	0.0253	0.0026	0.2832	0.0059	3.832	0.105	0.0981	0.0015	1607.4	29.9	1589.1	29.0	101.1
RVFE-2B.2	118.45	48.54	0.4098	35	31	1.1E-03	3.0E-04	0.0183	0.1221	0.0127	0.2801	0.0113	3.759	0.271	0.0973	0.0054	1592.0	56.9	1573.6	107.0	101.2
RVFE-7G.1	585	589.91	1.0084	231	27	1.6E-04	4.2E-05	0.0028	0.2819	0.0031	0.3304	0.0070	4.896	0.127	0.1075	0.0013	1840.3	34.0	1757.1	23.0	104.7
RVFE-2B.3	44.24	40.69	0.91971	14	24	2.3E-03	6.2E-04	0.0392	0.2470	0.0265	0.2714	0.0178	3.376	0.503	0.0902	0.0114	1548.1	90.8	1429.7	261.9	108.3
RVFE-1C.1	71.45	51.37	0.71901	23	43	2.3E-03	5.5E-04	0.0400	0.1829	0.0240	0.2897	0.0141	3.643	0.432	0.0912	0.0093	1640.1	70.8	1450.8	208.0	113
Revett Formation, Round zircons (RVFR; K200, O2-, Kipawa)																					
RVFR-2D.1	131.7	82.14	0.62371	42	1	2.7E-05	1.6E-05	0.0005	0.1742	0.0017	0.2887	0.0050	4.366	0.082	0.1097	0.0006	1634.9	24.9	1794.3	10.6	91.1
RVFR-1D.1	255.41	168.82	0.66098	89	1	9.5E-06	1.0E-05	0.0002	0.1953	0.0012	0.3091	0.0050	4.697	0.083	0.1102	0.0006	1736.4	24.7	1803.0	9.4	96.3
RVFR-2A.1	453.55	284.88	0.6281	139	1	6.6E-06	1.0E-05	0.0001	0.1853	0.0013	0.2773	0.0044	3.790	0.065	0.0991	0.0005	1577.9	22.3	1607.7	9.3	98.1
RVFR-1I.1	125	99.53	0.79629	41	1	2.0E-05	2.9E-05	0.0004	0.2287	0.0027	0.2838	0.0053	3.922	0.086	0.1002	0.0009	1610.3	26.8	1628.5	17.4	98.9
RVFR-1E.1	184.44	173.28	0.93948	62	2	3.7E-05	1.3E-05	0.0007	0.2755	0.0016	0.2821	0.0046	3.873	0.068	0.0996	0.0005	1602.1	23.2	1615.6	9.2	99.2
RVFR-2G.1	310.03	200.93	0.64809	90	1	1.0E-05	1.0E-05	0.0002	0.1880	0.0013	0.2625	0.0041	3.402	0.058	0.0940	0.0005	1502.6	21.2	1508.0	9.6	99.6
RVFR-1F.1	472.63	89.25	0.18884	133	2	2.0E-05	1.0E-05	0.0004	0.0559	0.0007	0.2825	0.0044	3.845	0.065	0.0987	0.0004	1604.0	22.3	1600.1	8.1	100.2
RVFR-1H.1	432.29	617.4	1.42821	162	2	1.5E-05	5.6E-06	0.0003	0.4112	0.0013	0.2888	0.0045	3.943	0.064	0.0990	0.0003	1635.3	22.5	1606.0	6.3	101.8
Wallace Formation (VN06; K70, O-, BR266)																					
VN06-24.1	191.24	70.97	0.38337	40	14	4.3E-04	2.4E-04	0.0075	0.1211	0.0105	2.6470	0.1707	0.202	0.007	0.0951	0.0049	1185.4	35.5	1530.0	100.6	77.5
VN06-35.1	221.51	93.83	0.43758	61	7	1.3E-04	1.7E-04	0.0023	0.1230	0.0079	3.6611	0.1561	0.261	0.006	0.1018	0.0035	1494.1	28.9	1657.2	64.6	90.2
VN06-34.1	144.25	120.75	0.8648	47	2	7.0E-05	7.5E-05	0.0012	0.2528	0.0067	4.0692	0.1326	0.281	0.005	0.1051	0.0026	1595.3	25.3	1716.3	46.9	92.9
VN06-33.1	96.65	59.87	0.63995	29	2	1.0E-04	2.1E-04	0.0018	0.1944	0.0103	3.7796	0.2059	0.271	0.008	0.1011	0.0043	1546.1	40.6	1645.1	80.7	94
VN06-29.1	317.87	198.67	0.64566	102	1	1.0E-05	1.0E-05	0.0002	0.1877	0.0031	4.2311	0.0883	0.288	0.004	0.1064	0.0013	1633.9	21.9	1738.2	23.3	94
VN06-28.1	173.6	128.06	0.76202	59	0	1.0E-05	1.0E-05	0.0002	0.2305	0.0090	4.3591	0.0901	0.294	0.005	0.1076	0.0009	1660.6	26.4	1759.2	15.1	94.4
VN06-31.1	331.28	150.22	0.46846	106	1	1.0E-05	1.0E-05	0.0002	0.1410	0.0024	4.4202	0.0870	0.299	0.005	0.1073	0.0010	1684.9	24.2	1754.5	17.0	96
VN06-3.1	457.96	434.27	0.97961	142	1	7.7E-06	8.7E-05	0.0001	0.2988	0.0048	3.3881	0.1056	0.258	0.005	0.0954	0.0023	1477.7	23.2	1535.6	45.2	96.2
VN06-26.1	191.21	71.72	0.38747	59	0	5.5E-06	7.5E-05	0.0001	0.1190	0.0039	4.2885	0.1072	0.295	0.005	0.1053	0.0017	1667.9	24.9	1720.2	30.4	97
VN06-11.1	342.81	265.1	0.79889	96	11	1.6E-04	4.8E-05	0.0027	0.2335	0.0075	3.0923	0.0860	0.245	0.005	0.0914	0.0016	1415.0	24.4	1454.4	34.4	97.3
VN06-20.1	883.95	208.71	0.24392	248	5	2.2E-05	1.5E-05	0.0004	0.0504	0.0013	3.9683	0.0808	0.284	0.005	0.1014	0.0009	1610.4	24.5	1650.2	16.8	97.6
VN06-1.1	136.78	61.87	0.46729	49	0	1.0E-05	1.0E-05	0.0002	0.1341	0.0045	5.2616	0.1939	0.332	0.009	0.1151	0.0024	1846.2	44.8	1881.1	38.2	98.1
VN06-30.1	470.46	126.27	0.27727	121	1	1.0E-05	1.0E-05	0.0002	0.0804	0.0034	3.2505	0.0648	0.255	0.004	0.0926	0.0010	1462.0	20.6	1479.8	20.0	98.8
VN06-23.1	264.99	245.47	0.95697	94	1	1.7E-05	4.6E-05	0.0003	0.2738	0.0040	4.2960	0.1134	0.299	0.006	0.1044	0.0015	1684.1	30.2	1703.2	26.8	98.9
VN06-22.1	246.17	123.73	0.51924	72	1	1.0E-05	1.0E-05	0.0002	0.1488	0.0055	3.6204	0.1084	0.271	0.005	0.0968	0.0019	1547.9	27.5	1562.4	38.0	99.1
VN06-38.1	1100.2	27.04	0.02539	309	6	2.1E-05	3.1E-05	0.0004	0.0066	0.0012	4.1818	0.0704	0.295	0.004	0.1029	0.0007	1665.0	21.1	1677.4	13.3	99.3
VN06-2.1	566.14	360.2	0.65728	178	12	8.5E-05	1.7E-04	0.0015	0.1956	0.0067	3.8450	0.1433	0.282	0.005	0.0990	0.0031	1600.3	24.4	1604.7	59.0	99.7
VN06-21.1	444.47	105.61	0.24546	135	1	1.0E-05	1.0E-05	0.0002	0.0691	0.0017	4.3390	0.1031	0.302	0.006	0.1043	0.0014	1699.3	27.3	1702.7	24.4	99.8
VN06-32.1	220.9	145.16	0.67884	74	3	5.2E-05	1.1E-04	0.0009	0.1927	0.0045	4.2892	0.1625	0.300	0.005	0.1038	0.0033	1689.7	25.1	1693.3	60.0	99.8
VN06-19.1	190.1	125.98	0.6846	59	2	4.4E-05	5.4E-05	0.0008	0.2003	0.0067	3.7780	0.1342	0.280	0.005	0.0979	0.0028	1591.2	24.2	1584.0	55.3	100.5
VN06-16.1	93.86	96.72	1.06445	31	0	1.0E-05	1.0E-05	0.0002	0.3211	0.0063	3.5721	0.1324	0.272	0.006	0.0954	0.0027	1548.5	29.5	1536.4	53.1	100.8
VN06-36.1	245.71	175.84	0.73931	83	1	1.0E-05	1.0E-05	0.0002	0.2125	0.0039	4.2050	0.1399	0.299	0.005	0.1020	0.0027	1685.7	26.0	1661.6	49.3	101.4
VN06-25.1	523.2	343.73	0.6787	186	2	1.4E-05	1.2E-05	0.0003	0.2011	0.0015	4.5479	0.0888	0.317	0.005	0.1042	0.0010	1773.4	24.2	1699.6	18.6	104.3
VN06-4.1	176.38	39.75	0.23281	59	0	9.3E-06	5.7E-05	0.0002	0.0687	0.0044	4.8942	0.1649	0.330	0.008	0.1075	0.0021	1840.1	39.9	1756.6	36.8	104.7
VN06-5.1	223.06	187.75	0.86949	82	0	4.5E-07	4.9E-05	0.0000	0.2679	0.0069	4.3601	0.1221	0.310	0.006	0.1020	0.0018	1741.5	29.8	1660.1	33.4	104.9
VN06-27.1	456.76	21.58	0.0488	136	7	5.9E-05	2.6E-05	0.0010	0.0006	0.0010	4.4478	0.1307	0.314	0.008	0.1029	0.0013	1758.3	39.0	1676.5	22.6	104.9
VN06-39.1	161.92	63.45	0.40482	54	2	3.9E-05	1.2E-04	0.0007	0.1106	0.0081	4.5185	0.1971	0.320	0.009	0.1023	0.0031	1791.8	43.4	1665.8	57.5	107.6
Siyeh Formation (SIY; K200, O-, Kipawa)																					
SIY-C3.1	149.24	57.42	0.38477	48	0	1.0E-05	1.0E-05	0.0002	0.1108	0.0020	0.3073	0.0059	4.806	0.107	0.1134	0.0010	1727.3	29.3	1855.3	16.1	93.1
SIY-G3.1	141.18	116.99	0.82863	83	1	1.0E-05	1.0E-05	0.0002	0.2244	0.0015	0.4868	0.0091	12.457	0.246	0.1856	0.0008	2556.7	39.7	2703.6	7.0	94.6
SIY-D1.1	107.11	52.04	0.48582	58	0	4.7E-06	1.3E-05	0.0001	0.1367	0.0011	0.4814	0.0089	12.034	0.234	0.1813	0.0007	2533.3	39.0	2664.9	6.7	95.1
SIY-A2.1	265.97	98.11	0.36888	148	2	1.7E-05	7.8E-06	0.0003	0.1023	0.0009	0.5024	0.0090	12.874	0.240	0.1859	0.0007	2623.9	38.7	2705.9	5.9	97
SIY-H1.1	347.81	177.26	0.50963	198	1	6.7E-06	6.0E-06	0.0001	0.1311	0.0008	0.5028	0.0090	12.855	0.239	0.1854	0.0006	2626.0	38.7	2701.9	5.3	97.2
SIY-G2.1	79.43	63.03	0.79352	48	1	3.1E-05	2.3E-05	0.0005	0.2172	0.0024	0.5034	0.0105	12.854	0.283	0.1852	0.0009	2628.2	45.0	2700.1	8.4	97.3
SIY-A5.1	101.92	64.36	0.63151	60	0	1.0E-05	1.0E-05	0.0002	0.1712	0.0025	0.5047	0.0108	12.849	0.304	0.1846	0.0014	2634.2	46.5	2694.9	12.8	97.7
SIY-H5.1	174.81	54.06	0.30925	58	0	1.0E-05	1.0E-05	0.0002	0.0879	0.0021	0.3223	0.0084	5.003	0.153	0.1126	0.0014	1800.8	41.2	1841.6	23.3	97.8
SIY-E1.1	113.57	95.26	0.83876	71	0	1.0E-05	1.0E-05	0.0002	0.2292	0.0014	0.5098	0.0097	13.060	0.262	0.1858	0.0009	2655.6	41.4	2705.5	7.6	98.2
SIY-C5.1	161.38	157.31	0.97474	103	0	3.7E-07	1.6E-05	0.0000	0.2646	0.0024	0.5110	0.0095	13.087	0.267	0.1858	0.0012	2660.7	40.7	2704.9	10.5	98.4

Spot name*	U (ppm)	Th (ppm)	Th/U	Pb (ppm)	204Pb (ppb)	204Pb/ 206Pb	±204Pb/ 206Pb	f206	208Pb/ 206Pb	±208Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 235U	±207Pb/ 235U	207Pb/ 206Pb	±207Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 206Pb	±207Pb/ 206Pb	Conc. (%)
SIY-B1.1	166.33	175.29	1.05391	65	0	1.0E-05	1.3E-05	0.0002	0.3016	0.0016	0.3223	0.0067	4.964	0.109	0.1117	0.0006	1800.7	32.6	1827.7	9.4	98.5
SIY-C1.1	261.73	52.98	0.20241	144	1	1.2E-05	4.0E-05	0.0002	0.0551	0.0027	0.5152	0.0134	13.168	0.424	0.1854	0.0030	2678.6	57.5	2701.6	26.5	99.1
SIY-C2.1	103.87	69.09	0.66512	43	0	1.0E-05	1.0E-05	0.0002	0.1894	0.0031	0.3656	0.0081	6.258	0.154	0.1241	0.0011	2008.7	38.2	2016.5	15.3	99.6
SIY-B6.1	138.8	132.2	0.95247	90	1	2.2E-05	1.4E-05	0.0004	0.2594	0.0018	0.5224	0.0097	13.316	0.259	0.1849	0.0007	2709.4	41.4	2697.1	6.2	100.5
SIY-D3.1	52.07	54.39	1.04442	20	0	1.4E-05	5.2E-05	0.0002	0.3014	0.0053	0.3215	0.0070	4.841	0.141	0.1092	0.0018	1796.9	34.4	1786.5	30.4	100.6
SIY-E3.1	139.55	88.09	0.63123	86	1	1.0E-05	1.0E-05	0.0002	0.1735	0.0013	0.5248	0.0097	13.361	0.268	0.1847	0.0011	2719.4	41.0	2695.2	9.9	100.9
SIY-H3.1	149.88	84.18	0.56162	89	0	7.4E-06	1.5E-05	0.0001	0.1542	0.0017	0.5183	0.0125	12.980	0.349	0.1816	0.0017	2691.9	53.5	2667.8	15.1	100.9
SIY-G5.1	106	73.27	0.69121	67	2	4.6E-05	4.0E-05	0.0008	0.1869	0.0040	0.5321	0.0130	13.737	0.382	0.1872	0.0020	2750.5	54.8	2718.0	17.8	101.2
SIY-D2.1	135.44	153.77	1.13533	93	1	2.1E-05	1.5E-05	0.0004	0.3154	0.0026	0.5303	0.0098	13.570	0.276	0.1856	0.0012	2742.8	41.5	2703.4	10.7	101.5
SIY-D4.1	181.71	92.37	0.50832	73	0	1.6E-06	1.5E-05	0.0000	0.1437	0.0015	0.3709	0.0071	6.294	0.131	0.1231	0.0008	2033.5	33.3	2001.3	11.3	101.6
SIY-C6.1	160.63	139.77	0.87019	103	0	6.3E-06	1.7E-05	0.0001	0.2415	0.0032	0.5255	0.0126	13.211	0.363	0.1823	0.0020	2722.4	53.4	2674.3	18.2	101.8
SIY-A1.1	205.76	136.42	0.66299	80	1	1.0E-05	1.0E-05	0.0002	0.1923	0.0014	0.3451	0.0064	5.430	0.118	0.1141	0.0011	1911.1	30.5	1866.0	17.1	102.4
SIY-E4.1	156.81	132.24	0.84333	103	1	1.0E-05	1.0E-05	0.0002	0.2308	0.0016	0.5384	0.0104	13.771	0.283	0.1855	0.0009	2776.6	43.8	2702.9	8.2	102.7
SIY-B5.1	82.51	68.59	0.83123	54	1	3.2E-05	3.1E-05	0.0006	0.2227	0.0028	0.5370	0.0105	13.690	0.301	0.1849	0.0014	2770.8	44.3	2697.3	13.0	102.7
SIY-D6.1	120.86	116.34	0.9626	81	1	2.5E-05	4.6E-05	0.0004	0.2620	0.0054	0.5391	0.0127	13.785	0.397	0.1855	0.0026	2779.7	53.4	2702.2	23.3	102.9
SIY-F3.1	266.41	73.12	0.27445	156	0	2.0E-06	5.3E-06	0.0000	0.0749	0.0007	0.5395	0.0095	13.688	0.249	0.1840	0.0005	2781.5	39.9	2689.3	4.4	103.4
SIY-E6.1	376.49	136.27	0.36194	223	1	6.0E-06	6.6E-06	0.0001	0.0946	0.0007	0.5388	0.0130	13.618	0.336	0.1833	0.0006	2778.4	54.5	2683.1	5.2	103.6
SIY-F5.1	125.4	89.96	0.71743	82	1	1.0E-05	1.0E-05	0.0002	0.1982	0.0034	0.5480	0.0173	14.131	0.518	0.1870	0.0028	2816.7	72.5	2716.3	25.1	103.7
SIY-F4.1	183.56	85.44	0.46546	68	1	1.0E-05	2.5E-05	0.0002	0.1371	0.0025	0.3462	0.0073	5.374	0.135	0.1126	0.0013	1916.6	34.8	1841.5	20.7	104.1
SIY-E5.1	170.64	154.46	0.9052	115	1	1.0E-05	1.0E-05	0.0002	0.2466	0.0051	0.5481	0.0118	14.029	0.358	0.1856	0.0021	2817.4	49.4	2703.8	18.6	104.2
SIY-D5.1	122.29	89.93	0.73541	47	1	1.8E-05	2.5E-05	0.0003	0.2123	0.0020	0.3345	0.0085	5.018	0.138	0.1088	0.0008	1860.4	41.4	1779.1	13.9	104.6
SIY-G4.1	106.68	45.44	0.42593	68	1	1.0E-05	1.0E-05	0.0002	0.1169	0.0019	0.5692	0.0124	15.041	0.362	0.1917	0.0015	2904.6	51.2	2756.4	12.9	105.4
SIY-H4.1	160.19	96.4	0.60179	61	0	1.0E-05	1.0E-05	0.0002	0.1710	0.0044	0.3447	0.0094	5.250	0.178	0.1105	0.0019	1909.3	45.4	1807.0	31.0	105.7
Garnet Formation (VN05a; K200, O-, Kipawa)																					
VN05a-H3.1	257.42	250.41	0.9728	57	3	6.9E-05	2.7E-05	0.0012	0.1887	0.0019	0.2001	0.0027	2.859	0.050	0.1036	0.0010	1175.8	14.7	1690.2	17.7	69.6
VN05a-J3.1	392.4	280.62	0.71514	100	5	6.7E-05	2.5E-05	0.0012	0.1675	0.0023	0.2327	0.0031	3.356	0.055	0.1046	0.0008	1348.7	16.2	1707.1	14.9	79
VN05a-D4.1	345.13	167.11	0.48419	99	2	2.0E-05	1.4E-05	0.0004	0.1241	0.0015	0.2718	0.0040	3.881	0.067	0.1036	0.0008	1549.7	20.4	1689.3	13.6	91.7
VN05a-C.1	246.58	62.49	0.25345	68	1	1.0E-05	1.0E-05	0.0002	0.0711	0.0014	0.2738	0.0045	3.926	0.074	0.1040	0.0008	1560.1	22.8	1696.7	13.4	92
VN05a-H4.1	282.02	71.13	0.25222	79	0	7.4E-06	2.2E-05	0.0001	0.0680	0.0015	0.2764	0.0056	3.968	0.091	0.1041	0.0009	1573.3	28.4	1698.6	15.1	92.6
VN05a-L1.1	103.67	70.21	0.67728	27	0	1.3E-05	3.8E-05	0.0002	0.2017	0.0037	0.2338	0.0048	2.946	0.072	0.0914	0.0010	1354.5	25.1	1454.5	21.5	93.1
VN05a-A.1	244.77	60.71	0.24804	73	1	1.0E-05	1.0E-05	0.0002	0.0733	0.0014	0.2953	0.0046	4.428	0.084	0.1087	0.0010	1668.0	22.8	1778.4	16.5	93.8
VN05a-L4.1	243.96	111.72	0.45793	84	1	1.0E-05	1.3E-05	0.0002	0.1345	0.0015	0.3189	0.0057	5.049	0.099	0.1148	0.0007	1784.5	28.1	1877.2	10.7	95.1
VN05a-K3.1	195.8	102.38	0.52287	62	0	1.0E-05	1.0E-05	0.0002	0.1593	0.0023	0.2927	0.0042	4.289	0.075	0.1063	0.0009	1654.8	21.0	1736.6	15.7	95.3
VN05a-C2.1	378.8	77.22	0.20387	111	0	3.6E-06	8.8E-06	0.0001	0.0571	0.0008	0.2919	0.0044	4.262	0.070	0.1059	0.0006	1650.8	21.7	1730.1	10.1	95.4
VN05a-J2.1	165.04	67.28	0.40764	51	0	1.0E-05	1.0E-05	0.0002	0.1215	0.0018	0.2915	0.0048	4.247	0.087	0.1057	0.0011	1648.8	24.0	1726.1	19.1	95.5
VN05a-L2.1	87.79	58.18	0.66268	32	0	1.0E-05	1.0E-05	0.0002	0.1880	0.0031	0.3280	0.0063	5.298	0.123	0.1172	0.0013	1828.6	30.6	1913.3	19.8	95.6
VN05a-A5.1	104.87	32.58	0.31067	31	0	1.0E-05	1.0E-05	0.0002	0.0905	0.0022	0.2894	0.0048	4.149	0.092	0.1040	0.0013	1638.5	24.3	1696.4	23.2	96.6
VN05a-J4.1	299.3	152.3	0.50886	94	0	3.4E-06	1.2E-05	0.0001	0.1458	0.0012	0.2919	0.0046	4.208	0.076	0.1046	0.0008	1650.9	22.8	1706.8	13.4	96.7
VN05a-A2.1	92.56	54.3	0.58665	30	0	1.0E-05	1.0E-05	0.0002	0.1702	0.0030	0.2956	0.0050	4.297	0.087	0.1054	0.0010	1669.5	24.8	1721.9	17.1	97
VN05a-E.2	216.4	126.08	0.58265	57	0	1.0E-05	1.0E-05	0.0002	0.1779	0.0020	0.2434	0.0035	3.037	0.054	0.0905	0.0008	1404.3	18.2	1436.4	16.7	97.8
VN05a-D.1	56.51	27.39	0.48465	18	0	2.5E-05	7.3E-05	0.0004	0.1404	0.0039	0.2991	0.0070	4.353	0.131	0.1056	0.0017	1686.8	34.7	1724.1	30.4	97.8
VN05a-G3.1	155.63	96.41	0.61951	51	1	2.9E-05	2.5E-05	0.0005	0.1819	0.0020	0.2973	0.0053	4.293	0.087	0.1047	0.0008	1677.7	26.3	1709.8	14.2	98.1
VN05a-I2.1	214.17	130.81	0.61079	56	0	1.0E-05	1.0E-05	0.0002	0.1789	0.0016	0.2377	0.0032	2.907	0.050	0.0887	0.0008	1374.5	16.7	1398.0	17.4	98.3
VN05a-E3.1	112.77	66.53	0.58999	29	1	5.8E-05	4.3E-05	0.0010	0.1741	0.0027	0.2342	0.0041	2.835	0.068	0.0878	0.0012	1356.6	21.5	1377.7	27.3	98.5
VN05a-E.1	226.03	154.85	0.68506	62	0	1.0E-05	1.0E-05	0.0002	0.2069	0.0020	0.2469	0.0044	3.079	0.062	0.0904	0.0007	1422.5	22.7	1434.8	15.0	99.1
VN05a-G7.1	269.03	104.73	0.3893	84	0	1.9E-06	2.2E-05	0.0000	0.1114	0.0014	0.3001	0.0045	4.324	0.076	0.1045	0.0008	1691.7	22.6	1705.9	13.2	99.2
VN05a-H2.1	235.87	74.03	0.31387	75	0	3.4E-06	1.8E-05	0.0001	0.0917	0.0012	0.3073	0.0056	4.509	0.090	0.1064	0.0007	1727.2	27.6	1739.3	11.6	99.3
VN05a-G1.1	176.76	81.59	0.4616	57	0	1.0E-05	1.0E-05	0.0002	0.1361	0.0013	0.3012	0.0046	4.338	0.077	0.1044	0.0008	1697.5	22.9	1704.4	13.6	99.6
VN05a-D5.1	124.36	58.78	0.47266	40	1	3.1E-05	4.1E-05	0.0005	0.1384	0.0023	0.2983	0.0063	4.260	0.103	0.1036	0.0010	1683.0	31.1	1689.0	17.9	99.6
VN05a-B3.1	389.7	120.08	0.30812	124	1	1.0E-05	1.0E-05	0.0002	0.0885	0.0009	0.3093	0.0048	4.539	0.081	0.1064	0.0008	1737.2	23.4	1739.3	13.4	99.9
VN05a-J1.1	93.58	80.52	0.86038	88	1	1.0E-05	1.0E-05	0.0002	0.2231	0.0029	0.7189	0.0138	30.157	0.630	0.3042	0.0019	3491.9	51.9	3492.0	9.7	100
VN05a-I5.1	207.03	118.33	0.57153	68	4	6.9E-05	3.8E-05	0.0012	0.1715	0.0024	0.3010	0.0044	4.311	0.080	0.1039	0.0010	1696.4	21.7	1694.2	18.6	100.1
VN05a-F2.1	176.51	162.61	0.92127	63	0	1.0E-05	1.0E-05	0.0002	0.2700	0.0024	0.3035	0.0044	4.363	0.072	0.1043	0.0006	1708.6	22.0	1701.5	11.0	100.4
VN05a-K5.1	192.15	91.91	0.47835	63	1	1.0E-05	1.0E-05	0.0002	0.1393	0.0022	0.3075	0.0063	4.451	0.110	0.1050	0.0012	1728.4	31.1	1713.9	21.0	100.8
VN05a-F3.1	197.46	69.69	0.35293	64	1	1.0E-05	1.0E-05	0.0002	0.1053	0.0014	0.3125	0.0044	4.572	0.082	0.1061	0.0010	1752.9	21.5	1733.6	18.0	101.1
VN05a-F5.1	102.55	65.75	0.64117	36	0	1.0E-05	1.0E-05	0.0002	0.1894	0.0021	0.3157	0.0062	4.628	0.102	0.1063	0.0008	1768.5	30.5	1737.6	14.4	101.8
Sheppard Formation Cobble #1 (CH3a; K200, O-, Kipawa)																					
CH3A-1.1	**105.6**	**86.3**	**0.81724**	**28**	**3**	**1.4E-04**	**4.5E-05**	**0.0025**	**0.2291**	**0.0026**	**0.2343**	**0.0044**	**2.907**	**0.068**	**0.0900**	**0.0010**	**1356.9**	**23.2**	**1425.4**	**21.9**	**95.2**
CH3A-B3.1	**61.92**	**54.5**	**0.88006**	**17**	**1**	**1.2E-04**	**7.0E-05**	**0.0020**	**0.2527**	**0.0042**	**0.2307**	**0.0049**	**2.881**	**0.082**	**0.0906**	**0.0015**	**1338.3**	**25.9**	**1437.4**	**31.0**	**93.1**
CH3A-C4.1	**202**	**135.77**	**0.67208**	**54**	**0**	**1.0E-05**	**1.0E-05**	**0.0002**	**0.1965**	**0.0013**	**0.2431**	**0.0044**	**3.056**	**0.059**	**0.0912**	**0.0005**	**1403.0**	**22.9**	**1449.8**	**10.0**	**96.8**
CH3A-E4.1	**85.58**	**59.21**	**0.69187**	**23**	**0**	**1.0E-05**	**1.0E-05**	**0.0002**	**0.2001**	**0.0020**	**0.2392**	**0.0052**	**2.970**	**0.071**	**0.0901**	**0.0007**	**1382.7**	**27.1**	**1426.6**	**15.3**	**96.9**
CH3A-D7.1	**87.28**	**73.12**	**0.83778**	**24**	**2**	**1.4E-04**	**4.3E-05**	**0.0024**	**0.2455**	**0.0038**	**0.2386**	**0.0049**	**2.939**	**0.073**	**0.0893**	**0.0010**	**1379.2**	**25.7**	**1411.6**	**21.7**	**97.7**
CH3A-F9.1	**38.12**	**29.2**	**0.76609**	**10**	**0**	**1.0E-05**	**1.0E-05**	**0.0002**	**0.2205**	**0.0041**	**0.2436**	**0.0062**	**3.052**	**0.091**	**0.0909**	**0.0011**	**1405.1**	**32.4**	**1444.1**	**23.3**	**97.3**

Spot name*	U (ppm)	Th (ppm)	Th/U	Pb (ppm)	204Pb (ppb)	204Pb/ 206Pb	±204Pb/ 206Pb	f206	208Pb/ 206Pb	±208Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 235U	±207Pb/ 235U	207Pb/ 206Pb	±207Pb/ 206Pb	206Pb/ 238U	±206Pb/ 238U	207Pb/ 206Pb	±207Pb/ 206Pb	Conc. (%)
CH3A-H7.1	**107.3**	**100.8**	**0.93943**	**30**	**0**	**1.0E-05**	**1.0E-05**	**0.0002**	**0.2715**	**0.0037**	**0.2408**	**0.0047**	**3.020**	**0.068**	**0.0910**	**0.0008**	**1390.6**	**24.6**	**1446.2**	**16.7**	**96.2**
CH3A-G2.1	**66.59**	**47.64**	**0.71539**	**19**	**0**	**2.4E-05**	**4.1E-05**	**0.0004**	**0.2011**	**0.0029**	**0.2522**	**0.0049**	**3.118**	**0.077**	**0.0897**	**0.0012**	**1449.9**	**25.4**	**1418.6**	**24.8**	**102.2**
Sheppard Formation Cobble #2 (CH3b; K200, O-, Kipawa)																					
CH3B-D2.1	**76.08**	**72.13**	**0.94805**	**22**	**0**	**1.9E-05**	**3.0E-05**	**0.0003**	**0.2774**	**0.0029**	**0.2492**	**0.0048**	**3.110**	**0.071**	**0.0905**	**0.0009**	**1434.4**	**24.8**	**1436.5**	**19.1**	**99.9**
CH3B-E2.1	**102.2**	**95.39**	**0.93322**	**31**	**0**	**1.0E-05**	**1.0E-05**	**0.0002**	**0.2718**	**0.0029**	**0.2546**	**0.0047**	**3.162**	**0.066**	**0.0901**	**0.0007**	**1462.3**	**24.2**	**1426.6**	**14.7**	**102.5**
CH3B-F2.1	**154.9**	**137.05**	**0.88503**	**45**	**0**	**1.0E-05**	**1.0E-05**	**0.0002**	**0.2581**	**0.0026**	**0.2504**	**0.0049**	**3.144**	**0.069**	**0.0911**	**0.0007**	**1440.3**	**25.1**	**1448.1**	**15.4**	**99.5**
CH3B-D5.1	**229.1**	**309.68**	**1.35174**	**74**	**1**	**2.1E-05**	**2.3E-05**	**0.0004**	**0.4001**	**0.0040**	**0.2503**	**0.0084**	**3.182**	**0.116**	**0.0922**	**0.0010**	**1440.1**	**43.5**	**1471.4**	**20.7**	**97.9**
CH3B-C5.1	**79.5**	**57.87**	**0.72799**	**22**	**0**	**2.1E-05**	**5.9E-05**	**0.0004**	**0.2141**	**0.0046**	**0.2419**	**0.0151**	**3.121**	**0.204**	**0.0936**	**0.0013**	**1396.7**	**78.9**	**1499.5**	**25.7**	**93.1**
CH3B-C6.1	**59.47**	**44.39**	**0.74647**	**15**	**0**	**1.0E-05**	**1.0E-05**	**0.0002**	**0.2203**	**0.0047**	**0.2281**	**0.0107**	**2.921**	**0.151**	**0.0929**	**0.0016**	**1324.5**	**56.1**	**1485.8**	**33.3**	**89.1**
CH3B-D8.1	**87.62**	**60.32**	**0.68846**	**25**	**0**	**2.2E-05**	**5.4E-05**	**0.0004**	**0.2006**	**0.0043**	**0.2520**	**0.0135**	**3.212**	**0.186**	**0.0924**	**0.0015**	**1448.7**	**70.0**	**1476.4**	**31.1**	**98.1**

Notes:

Number + letter designation represents zircon grain #, dot + number represents spot number on grain.

Uncertainties reported at one sigma and are calculated by numerical propagation of all known sources of error (Stern, 1997).

f206 refers to mole fraction of total 206Pb that is due to common Pb; data have been common Pb corrected according to procedures outlined in Stern (1997).

Italicized labels represent spots not included in probability frequency distribution plot

K200=200 micron Kohler aperture, K120=120 micron Kohler aperture, K70=70 micron Kohler aperture (see Stern, 1997 for spot size and details)

Kipawa= sample referenced to 993.4 Ma Kipawa zircon standard and data reduction methodologies (Stern, 1997)

BR266= sample referenced to 559 Ma BR266 zircon standard (Stern, 2001) and data reduction methodologies (Stern, ????)

O- = O- primary beam, O2- = O2- primary oxygen beam

TABLE 2. Ar-Ar DATA

Power[†]	Volume (^{39}Ar ×10^{-11} cc)	^{36}Ar/^{39}Ar	^{37}Ar/^{39}Ar	^{38}Ar/^{39}Ar	^{40}Ar/^{39}Ar	%^{40}Ar ATM	^{40}Ar/^{39}Ar[‡]	f_{39}[§] (%)	Apparent Age (Ma)[#]
VN-98-04 (Z5997) Mt Shields Formation Muscovite; J=.0184271									
Aliquot: 1									
2[††]	10.3645	0.0010 ± 0.0002	0.004 ± 0.002	0.002 ± 0.011	77.301 ± 0.347	0.4	77.003 ± 0.349	51.5	1593.61 ± 4.79
2.2	4.2523	0.0001 ± 0.0005	0.011 ± 0.008	0.002 ± 0.011	81.938 ± 0.465	0	81.906 ± 0.485	21.2	1659.77 ± 6.43
2.6	4.2411	0.0002 ± 0.0003	0.006 ± 0.004	0.002 ± 0.011	82.884 ± 0.328	0.1	82.823 ± 0.338	21.2	1671.88 ± 4.45
3.0	0.5147	0.0019 ± 0.0031	0.032 ± 0.064	0.003 ± 0.011	82.613 ± 0.580	0.7	82.035 ± 1.017	2.6	1661.48 ± 13.46
12.0	0.7352	0.0030 ± 0.0020	0.088 ± 0.012	0.002 ± 0.011	83.057 ± 1.056	1.1	82.169 ± 1.164	3.5	1663.25 ± 15.39
Aliquot: 2									
1.8[‡]	0.5881	0.0092 ± 0.0020	0.122 ± 0.022	0.012 ± 0.011	36.144 ± 0.810	7.5	33.423 ± 0.908	3.1	865.75 ± 18.69
2[‡]	0.3197	0.0018 ± 0.0044	0.072 ± 0.043	0.001 ± 0.012	43.947 ± 0.758	1.2	43.407 ± 1.358	1.8	1060.28 ± 25.08
2.2[‡]	11.7624	0.0005 ± 0.0001	0.005 ± 0.002	0.003 ± 0.011	67.020 ± 0.197	0.2	66.874 ± 0.199	60.3	1448.74 ± 2.97
2.6	3.4082	0.0005 ± 0.0005	0.021 ± 0.004	0.001 ± 0.011	71.410 ± 0.529	0.2	71.248 ± 0.543	17.4	1512.73 ± 7.81
3.0	1.2638	0.0016 ± 0.0009	0.014 ± 0.004	0.003 ± 0.011	72.512 ± 0.327	0.7	72.039 ± 0.393	6.7	1524.07 ± 5.62
12.0	2.0847	0.0020 ± 0.0004	0.034 ± 0.005	0.002 ± 0.011	72.640 ± 0.520	0.8	72.047 ± 0.519	10.7	1524.18 ± 7.42
Aliquot: 3									
1.8[‡]	1.4527	0.0030 ± 0.0014	0.037 ± 0.006	0.007 ± 0.011	35.542 ± 0.276	2.5	34.653 ± 0.475	12.0	890.88 ± 9.64
2[‡]	0.4935	0.0010 ± 0.0035	0.087 ± 0.041	–0.001 ± –0.011	45.963 ± 0.636	0.7	45.648 ± 1.140	4.0	1101.21 ± 20.59
2.2[‡]	4.0628	0.0017 ± 0.0002	0.019 ± 0.002	0.004 ± 0.011	67.307 ± 0.483	0.7	66.807 ± 0.480	32.8	1447.74 ± 7.15
2.6	4.5004	0.0002 ± 0.0004	0.009 ± 0.003	0.002 ± 0.011	72.713 ± 0.283	0.1	72.661 ± 0.299	36.0	1532.93 ± 4.24
3.0	0.7328	0.0048 ± 0.0012	0.046 ± 0.020	0.000 ± 0.011	74.270 ± 0.478	1.9	72.844 ± 0.516	5.6	1535.53 ± 7.32
12[‡]	1.1832	0.0010 ± 0.0011	0.001 ± 0.011	0.001 ± 0.011	66.622 ± 0.309	0.5	66.322 ± 0.420	9.6	1440.50 ± 6.28
Aliquot: 4									
1.8[‡]	0.3889	0.0090 ± 0.0029	0.111 ± 0.069	0.022 ± 0.013	28.128 ± 0.634	9.5	25.467 ± 0.929	4.3	694.16 ± 21.02
2[‡]	1.2955	0.0017 ± 0.0007	0.052 ± 0.008	0.008 ± 0.011	51.991 ± 0.235	1	51.489 ± 0.265	12.9	1203.71 ± 4.52
2.2[‡]	3.9341	0.0006 ± 0.0002	0.016 ± 0.007	0.003 ± 0.011	66.884 ± 0.334	0.3	66.697 ± 0.335	38.7	1446.10 ± 5.00
2.6	2.4003	0.0015 ± 0.0004	0.042 ± 0.005	0.002 ± 0.011	73.431 ± 0.507	0.6	72.983 ± 0.510	23.7	1537.50 ± 7.23
12.0	2.049	0.0015 ± 0.0005	0.043 ± 0.003	0.004 ± 0.011	73.491 ± 0.492	0.6	73.038 ± 0.504	20.4	1538.27 ± 7.14
Aliquot: 5									
1.8[‡]	0.3902	0.0263 ± 0.0030	0.088 ± 0.061	0.071 ± 0.011	62.245 ± 0.611	12.5	54.467 ± 0.952	3.8	1253.81 ± 15.79
2[‡]	0.1164	0.0271 ± 0.0079	0.761 ± 0.095	0.015 ± 0.017	21.374 ± 2.203	37.6	13.332 ± 2.425	1.3	396.30 ± 64.72
2.2[‡]	2.9017	0.0009 ± 0.0004	0.023 ± 0.014	0.005 ± 0.011	48.997 ± 0.449	0.6	48.721 ± 0.458	30.4	1155.85 ± 8.02
2.6[‡]	3.6425	0.0008 ± 0.0003	0.003 ± 0.002	0.004 ± 0.011	49.751 ± 0.421	0.5	49.515 ± 0.427	39.2	1169.71 ± 7.42
3[‡]	1.8938	0.0011 ± 0.0008	0.026 ± 0.014	0.004 ± 0.011	64.708 ± 0.526	0.5	64.378 ± 0.565	20.3	1411.18 ± 8.58
12[‡]	0.5073	0.0092 ± 0.0021	0.028 ± 0.044	0.035 ± 0.011	81.846 ± 1.442	3.3	79.123 ± 1.477	5.1	1622.51 ± 19.98
Aliquot: 6									
1.8[‡]	5.5564	0.0013 ± 0.0002	0.015 ± 0.002	0.003 ± 0.011	72.781 ± 0.274	0.5	72.401 ± 0.279	29.2	1529.23 ± 3.97
2[‡]	0.168	0.0006 ± 0.0078	0.395 ± 0.037	0.010 ± 0.012	65.767 ± 1.643	–0.1	65.851 ± 2.699	0.7	1433.44 ± 40.54
2.2[‡]	1.0552	0.0020 ± 0.0010	0.038 ± 0.022	0.003 ± 0.011	72.469 ± 0.334	0.8	71.860 ± 0.414	5.8	1521.51 ± 5.92
2.6[‡]	8.2567	0.0004 ± 0.0002	0.007 ± 0.003	0.003 ± 0.011	68.622 ± 0.396	0.2	68.498 ± 0.397	43.8	1472.77 ± 5.84
12[‡]	3.85	0.0009 ± 0.0005	0.012 ± 0.005	0.002 ± 0.011	74.773 ± 0.582	0.3	74.514 ± 0.597	20.4	1559.07 ± 8.36
Aliquot: 7									
1.8[‡]	0.1047	0.0251 ± 0.0095	0.824 ± 0.173	0.052 ± 0.012	35.014 ± 2.435	21.3	27.561 ± 3.048	2.6	740.93 ± 67.21
2[‡]	0.194	0.0034 ± 0.0042	0.285 ± 0.026	0.019 ± 0.011	50.993 ± 1.105	2	49.969 ± 1.307	2.6	1177.60 ± 22.62
2.2[‡]	0.0425	0.0058 ± 0.0189	1.331 ± 0.237	0.091 ± 0.035	66.708 ± 8.014	2.7	64.915 ± 8.409	0.0	1419.33 ± 127.44
2.6	0.1317	0.0098 ± 0.0068	0.319 ± 0.161	0.000 ± -0.022	57.028 ± 2.097	5.1	54.113 ± 2.443	2.6	1247.93 ± 40.66
12.0	5.0564	0.0004 ± 0.0002	0.018 ± 0.002	0.003 ± 0.011	69.989 ± 0.491	0.2	69.875 ± 0.493	92.1	1492.89 ± 7.17
Aliquot: 8									
2.0	1.6463	0.0014 ± 0.0006	0.035 ± 0.014	0.005 ± 0.011	63.563 ± 0.343	0.7	63.149 ± 0.364	41.3	1392.40 ± 5.60
2.2	0.6754	0.0030 ± 0.0011	0.124 ± 0.010	0.004 ± 0.011	64.138 ± 0.433	1.4	63.251 ± 0.449	17.4	1393.97 ± 6.90
2.6[‡]	1.1164	0.0000 ± 0.0012	0.035 ± 0.016	0.003 ± 0.011	61.605 ± 0.379	0	61.594 ± 0.501	28.3	1368.34 ± 7.79
12.0	0.4857	0.0013 ± 0.0026	0.044 ± 0.035	0.001 ± 0.011	63.684 ± 1.196	0.6	63.290 ± 1.349	13.0	1394.56 ± 20.71
Aliquot: 9									
2[‡]	0.88	0.0040 ± 0.0011	0.078 ± 0.011	0.012 ± 0.011	32.583 ± 0.385	3.7	31.387 ± 0.443	9.7	823.36 ± 9.33
2.6[‡]	5.3594	0.0007 ± 0.0003	0.015 ± 0.001	0.003 ± 0.011	55.844 ± 0.300	0.4	55.640 ± 0.313	60.2	1273.16 ± 5.14
12[‡]	2.7022	0.0012 ± 0.0004	0.036 ± 0.003	0.004 ± 0.011	75.192 ± 0.530	0.5	74.831 ± 0.534	30.1	1563.51 ± 7.46
Aliquot: 10									
2[‡]	1.3502	0.0018 ± 0.0012	0.015 ± 0.016	0.006 ± 0.011	63.698 ± 0.526	0.9	63.155 ± 0.616	12.5	1392.49 ± 9.47
2.6	7.8308	0.0009 ± 0.0002	0.005 ± 0.002	0.002 ± 0.011	77.435 ± 0.261	0.3	77.173 ± 0.265	70.3	1595.94 ± 3.63
12.0	1.8692	0.0017 ± 0.0006	0.049 ± 0.005	0.002 ± 0.011	78.155 ± 0.297	0.6	77.661 ± 0.330	17.2	1602.63 ± 4.51
Aliquot: 11									
2[‡]	0.2066	0.0292 ± 0.0053	0.097 ± 0.172	0.029 ± 0.014	45.644 ± 1.525	18.9	37.008 ± 1.818	2.9	938.05 ± 35.94
2.6[‡]	3.8413	0.0011 ± 0.0005	0.027 ± 0.005	0.004 ± 0.011	80.644 ± 0.533	0.4	80.304 ± 0.545	62.9	1638.42 ± 7.31
12.0	2.1055	0.0021 ± 0.0006	0.064 ± 0.005	0.003 ± 0.011	83.456 ± 0.412	0.7	82.833 ± 0.432	34.3	1672.01 ± 5.68
Aliquot: 12									
2[‡]	0.6861	0.0094 ± 0.0018	0.112 ± 0.036	0.008 ± 0.011	57.594 ± 0.542	4.8	54.825 ± 0.690	13.3	1259.73 ± 11.41
2.6	4.1373	0.0016 ± 0.0002	0.020 ± 0.007	0.002 ± 0.011	76.656 ± 0.685	0.6	76.193 ± 0.683	80.0	1582.44 ± 9.44
12.0	0.344	0.0067 ± 0.0036	0.159 ± 0.054	0.014 ± 0.012	76.720 ± 0.945	2.6	74.716 ± 1.287	6.7	1561.90 ± 18.00
Aliquot: 13									
2[‡]	0.083	0.0266 ± 0.0131	0.253 ± 0.624	0.066 ± 0.023	34.197 ± 3.235	23.2	26.278 ± 4.176	1.1	712.42 ± 93.55
2.6[‡]	5.8702	0.0014 ± 0.0002	0.021 ± 0.002	0.003 ± 0.011	61.786 ± 0.211	0.7	61.368 ± 0.212	74.4	1364.82 ± 3.31
12[‡]	1.9525	0.0009 ± 0.0006	0.037 ± 0.016	0.004 ± 0.011	70.546 ± 0.667	0.4	70.292 ± 0.677	24.4	1498.93 ± 9.81
Aliquot: 14									
2[‡]	1.6842	0.0003 ± 0.0006	0.017 ± 0.012	0.002 ± 0.011	77.228 ± 0.758	0.1	77.134 ± 0.771	37.3	1595.41 ± 10.59
2.6	2.1645	0.0012 ± 0.0005	0.014 ± 0.008	0.003 ± 0.011	84.591 ± 0.623	0.4	84.223 ± 0.632	49.0	1690.20 ± 8.23
12.0	0.5768	0.0076 ± 0.0014	0.128 ± 0.024	0.004 ± 0.011	86.156 ± 1.151	2.6	83.914 ± 1.148	13.7	1686.17 ± 14.99

TABLE 2. Ar-Ar DATA (*Continued*.)

Power†	Volume (^{39}Ar ×10^{-11} cc)	^{36}Ar/^{39}Ar	^{37}Ar/^{39}Ar	^{38}Ar/^{39}Ar	^{40}Ar/^{39}Ar	%^{40}Ar ATM	^{40}Ar/^{39}Ar‡	f_{39}§ (%)	Apparent Age (Ma)#
VN-98-05b (Z5998) Garnet Formation Muscovite; J=.0146764									
Aliquot: 1									
2.4‡	0.0195	0.1003 ± 0.0632	0.441 ± 0.461	0.000 ± -0.045	48.496 ± 3.982	61.1	18.865 ± 19.124	0.4	440.94 ± 396.56
3.9	0.7106	0.0012 ± 0.0015	0.017 ± 0.015	0.004 ± 0.011	75.055 ± 0.757	0.5	74.701 ± 0.829	15.2	1335.37 ± 10.48
12.0	0.0519	0.0161 ± 0.0205	0.102 ± 0.085	0.016 ± 0.030	79.824 ± 5.367	6	75.009 ± 7.008	1.1	1339.26 ± 88.34
Aliquot: 2									
2.4‡	0.0462	0.0427 ± 0.0216	0.398 ± 0.101	0.023 ± 0.024	77.324 ± 5.439	16.4	64.633 ± 6.937	1.2	1203.51 ± 94.28
3.9‡	0.0071	0.1525 ± 0.3239	2.863 ± 1.467	0.552 ± 0.231	75.706 ± 34.129	60.2	30.114 ± 94.875	0.2	660.31 ± 1919.85
12.0	0.5452	0.0083 ± 0.0029	0.041 ± 0.009	0.011 ± 0.011	108.029 ± 1.149	2.3	105.568 ± 1.370	14	1688.34 ± 14.23
Aliquot: 3									
2.4‡	0.0064	0.1079 ± 0.1446	1.576 ± 0.638	0.260 ± 0.136	72.093 ± 14.192	44.2	40.194 ± 45.053	0.2	836.51 ± 750.29
3.9	0.4269	0.0001 ± 0.0025	0.060 ± 0.005	0.001 ± 0.012	86.574 ± 1.149	0	86.533 ± 1.285	12.9	1478.96 ± 14.99
12.0	0.1516	0.0007 ± 0.0065	0.073 ± 0.052	0.012 ± 0.015	86.400 ± 2.955	0.3	86.173 ± 3.269	4.6	1474.75 ± 38.22
Aliquot: 4									
2.4‡	0.0387	0.0417 ± 0.0231	0.330 ± 0.167	0.070 ± 0.045	72.224 ± 9.005	17.2	59.808 ± 9.004	1.4	1136.73 ± 127.12
3.9	0.1503	0.0001 ± 0.0041	0.040 ± 0.047	0.025 ± 0.013	92.995 ± 5.210	0	94.201 ± 5.416	5.5	1566.25 ± 60.22
12.0	0.6293	0.0047 ± 0.0019	0.019 ± 0.015	0.007 ± 0.011	93.920 ± 1.173	1.5	92.518 ± 1.244	23.2	1547.45 ± 13.97
Aliquot: 5									
2.4‡	0.009	0.0219 ± 0.1560	0.996 ± 0.314	0.282 ± 0.150	45.311 ± 8.846	14.3	38.832 ± 46.990	0.5	813.69 ± 792.51
3.9	0.8234	0.0022 ± 0.0014	0.009 ± 0.013	0.003 ± 0.011	103.258 ± 0.953	0.6	102.596 ± 1.005	43.5	1657.22 ± 10.63
12.0	0.3318	0.0011 ± 0.0029	0.042 ± 0.018	0.013 ± 0.011	101.424 ± 3.730	0.3	101.083 ± 3.767	17.5	1641.16 ± 40.18
Aliquot: 6									
2.4‡	0.008	0.0282 ± 0.1169	2.724 ± 1.980	0.356 ± 0.229	54.352 ± 16.280	15.3	46.022 ± 38.209	0.6	931.05 ± 603.83
3.9	0.6308	0.0018 ± 0.0017	0.017 ± 0.010	0.009 ± 0.011	90.055 ± 0.771	0.6	89.525 ± 0.864	49.5	1513.52 ± 9.89
12.0	0.0921	0.0108 ± 0.0126	0.140 ± 0.037	0.027 ± 0.025	92.788 ± 3.425	3.5	89.553 ± 4.528	7.2	1513.84 ± 51.81
Aliquot: 7									
2.4‡	0.0326	0.0561 ± 0.0317	0.244 ± 0.286	0.042 ± 0.029	77.531 ± 3.644	21.4	60.944 ± 10.050	0.8	1152.68 ± 140.46
3.9	0.417	0.0000 ± 0.0019	0.040 ± 0.005	0.012 ± 0.011	104.412 ± 1.334	0	104.515 ± 1.399	10	1677.38 ± 14.63
12.0	0.0935	0.0427 ± 0.0115	0.186 ± 0.019	0.010 ± 0.031	116.007 ± 3.851	10.9	103.358 ± 4.424	2.2	1665.24 ± 46.54
Aliquot: 8									
2.4	0.6239	0.0010 ± 0.0014	0.014 ± 0.009	0.006 ± 0.011	99.970 ± 1.428	0.3	99.656 ± 1.452	14.9	1625.88 ± 15.61
3.9	0.4396	0.0016 ± 0.0026	0.024 ± 0.019	0.010 ± 0.011	100.482 ± 1.484	0.5	100.001 ± 1.602	10.5	1629.59 ± 17.19
12.0	0.0836	0.0073 ± 0.0108	0.133 ± 0.102	0.027 ± 0.017	102.246 ± 3.796	2.1	100.056 ± 4.303	2	1630.17 ± 46.16
Aliquot: 9									
2.4‡	0.2048	0.0004 ± 0.0052	0.067 ± 0.009	0.012 ± 0.012	80.205 ± 1.796	0	80.323 ± 2.251	4.9	1405.02 ± 27.36
3.9	0.6639	0.0010 ± 0.0016	0.024 ± 0.005	0.007 ± 0.011	99.482 ± 1.253	0.3	99.182 ± 1.296	15.8	1620.77 ± 13.98
12.0	0.0492	0.0008 ± 0.0204	0.005 ± 0.241	0.045 ± 0.037	94.463 ± 5.468	0	97.256 ± 8.168	1.2	1599.89 ± 89.10
Aliquot: 10									
2.4‡	0.0061	0.0514 ± 0.0888	0.850 ± 1.149	0.303 ± 0.116	58.440 ± 11.914	26	43.265 ± 28.832	0.2	886.95 ± 466.92
3.9	0.8287	0.0004 ± 0.0012	0.012 ± 0.003	0.005 ± 0.011	93.505 ± 0.827	0.1	93.381 ± 0.865	19.8	1557.12 ± 9.66
12.0	0.0834	0.0151 ± 0.0112	0.196 ± 0.042	0.015 ± 0.017	97.511 ± 3.776	4.6	93.019 ± 4.324	2	1553.06 ± 48.41
Aliquot: 11									
2.4‡	0.0052	0.1819 ± 0.2521	3.439 ± 1.319	0.486 ± 0.199	75.612 ± 21.127	71.1	21.848 ± 77.518	0.1	501.76 ± 1554.16
3.9‡	0.0283	0.0320 ± 0.0338	0.501 ± 0.320	0.073 ± 0.059	80.212 ± 10.931	11.8	70.754 ± 14.822	0.7	1284.83 ± 192.53
12.0	0.2984	0.0060 ± 0.0037	0.067 ± 0.032	0.009 ± 0.012	93.822 ± 1.351	1.9	92.024 ± 1.590	7.1	1541.89 ± 17.91
Aliquot: 12									
2.4‡	0.0075	0.0718 ± 0.0969	0.062 ± 0.901	0.110 ± 0.175	66.975 ± 9.147	31.7	45.761 ± 30.075	0.2	926.92 ± 476.38
3.9	0.2882	0.0041 ± 0.0036	0.050 ± 0.015	0.017 ± 0.011	96.976 ± 1.714	1.3	95.753 ± 1.878	6.9	1583.42 ± 20.67
12.0‡	0.0366	0.0150 ± 0.0280	0.429 ± 0.065	0.055 ± 0.051	94.543 ± 7.452	4.8	90.020 ± 9.577	0.9	1519.17 ± 109.28

Note: All uncertainties quoted at 2s level.
†As measured by laser in % of full nominal power (10W).
‡Step not included in age determination.
§Fraction 39Ar as percent of total run.
#Errors are analytical only and do not reflect error in irradiation parameter J.
†† d: Nominal J, referenced to FCT-SAN=28.03 Ma (Renne et al., 1994).