

*Titanite*  
UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 20/11/98      UWA Mount No.: 98-72      Whose sample?: AGSD      Operator(s): JD

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Indicate any change to the following: <sup>200</sup>196 204 bkg 206 207 208 ~~238~~ 248 254 270

Precambrian Count time (secs): <sup>25</sup>10 10 10/20\* 30/10\* 10 ~~5~~ 5 25 5  
 Phanerozoic\* Delay time (secs): 8 3 1 2 1 1 ~~3~~ 24 2 3

expected <sup>200</sup>196-204 = <sup>4.140</sup>8.170 amu      expected 204-bkg = 0.045 amu      Dead-time = <sup>32</sup>..... nanosecs  
 actual <sup>200</sup>196-204 = <sup>4.136</sup>.....      actual 204-bkg = <sup>.045</sup>.....      expected resolution = >4200  
 actual 206-207 = <sup>1.000</sup>.....      actual 206-208 = <sup>1.999</sup>.....      actual resolution = .....

Primary = <sup>3.6</sup>..... nA      PESABM = <sup>~60</sup>..... pA      actual Primary : PESABM (≈ 50:1) = <sup>~60</sup>.....  
 Raster time (mins): <sup>1</sup>.....      Raster aperture (microns): <sup>120\*</sup>.....      No. of scans: <sup>6</sup>.....

Comments: \* changed from 70 <sup>seconds</sup> after first Kh, then to 100 for ~~the~~ <sup>DI-1</sup> then to 120 for 1+2.  
 1° dropped slightly through all analyses

D = 97969248

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U <sup>200</sup> <sub>196</sub> (206/254) Kcps	206 cps	UO <sub>2</sub> ppm Kcps	204Pb ppb cps	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 254	Offsets OK?		
	Kh.8-14	23:11	.803	1837	3552 <sup>k</sup>	23.9	1.2	.48	.119	532	✓
	Kh.8-15	23:30	.815	1942	3724 <sup>k</sup>	24.4	1.0	.37	.125	469	✓
	D.1-1	23:52	.832	2076	1406	1498	3.4	3.14	.781	2646	✓
	D.2-1	00:13	.786	1975	832	901	1.9	3.03	.726	2655	✓
may have labelled as SL	Kh.8-16	00:33	.786	1780	3582 <sup>k</sup>	23.8	1.0	.44	.118	492	✓
	D.3-1	00:53	.765	1867	1158	1203	3.4	3.33	.736	2656	✓
	D.4-1	01:16	.824	2011	1488	1611	3.4	3.03	.761	2621	✓
	D.5-1	01:36	.756	1933	1127	1199	2.0	2.38	.711	2635	✓
may have labelled as SL	Kh.8-17	01:56	.794	1804	3112 <sup>k</sup>	19.9	5.9	3.24	.124	541	✓
	D.6-1	02:17	.839	1942	1358	1301	12.6	12.8	.876	2471	6/7 = .996 ✓ 6/8 = 1.995 6/7 = .997
	D.7-1	02:37	.804	1966	1177	1232	2.5	2.76	.768	2621	6/8 = 1.996



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Rejection over-ride	Sample/ Std ID	Time - printout	UO <sub>2</sub> /UO <sub>2</sub>		206 cps	UO <sub>2</sub> ppm cps	204Pb ppb cps	f206 %	Age ±1σ (Ma)		Offsets OK?
			270/254	196 Kcps					206/238 254	207/206	
	D. 8-1	02:59	.755	1558	1210	1228	6.1	6.82	.744	2635	✓
	D. 9-1	03:18	.829	2025	1376	1439	3.0	2.80	.793	2664	✓
	Kh. 8-18	03:37	.793	1775	3326	<sup>K</sup> 23.0	1.2	.52	.115	492	✓
	D. 10-1	03:57	.832	2032	1301	1385	3.2	3.28	.781	2615	✓
	D. 11-1	04:16	.848	1918	1865	1991	3.3	2.35	.794	2668	✓
	D. 12-1	04:44	.844	2075	1358	1431	2.3	2.19	.801	2678	✓
	D. 13-1	05:04	.774	2195	908	978	2.1	3.10	.719	2633	✓
	Kh. 9-1	05:24	.822	2034	3653	<sup>K</sup> 24.3	1.1	.48	.123	538	✓
	D. 14-1	05:44	.559	1545	6265	2819	2.08	37	1.230	3836	✓
	D. 15-1	06:05	.792	1896	1156	1266	2.6	3.00	.723	2693	✓
	D. 16-1	06:26	.804	2072	1401	1493	3.2	3.01	.755	2595	✓
	D. 17-1	06:44	.825	2012	1531	1652	3.1	2.72	.764	2636	✓
	Kh. 9-2	07:03	.786	1749	3429	<sup>K</sup> 23.2	1.1	.53	.116	473	✓
	D. 18-1	07:25	.779	1805	1415	1412	2.7	2.49	.781	2660	✓
	D. 19-1	07:44	.787	1854	1130	1238	2.1	2.39	.719	2666	✓
	D. 20-1	08:02	.820	1997	1299	1375	2.9	2.97	.774	2640	✓
	Kh. 9-3	08:21	.791	1886	3553	<sup>K</sup> 23.7	1.4	.41	.119	489	✓

adjusted time on 607  
+208 prior to analysis