

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

Date: 2/3/98      UWA Mount No.: 97-44      Whose sample?: AMIRA/AGSO      Operator(s): IRF / PV

Indicate any change to the following:    196    204    bkg    206    207    208    238    248    254

**Precambrian**    Count time (secs):    2 / 10 / 10 / 10 / 30/10\* / 10 / 5 / 5 / 2 /

**Phanerozoic\***    Delay time (secs):    7 / 3 / 1 / 2 / 1 / 1 / 3 / 2 / 2 /

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040 amu      Dead-time = 32 nanosecs

actual 196-204 = 8.170      actual 204-bkg = 0.044      expected resolution = >4200

actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = 4875

Primary = 4.1 nA    PESABM = 64 pA    actual Primary : PESABM (≈ 50:1) = 64

Raster time (mins): 1    Raster aperture (microns): 120    No. of scans: 6

Comments: Sensitivity = 17  
Poor spot shape  
sl. 1-3 deleted on the basis of data stability. However it is perfectly aligned with other data.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	<u>sl. 4-1</u>	<u>10:49</u>	<u>6.11</u>	<u>23.7</u>	<u>2296</u>	-	<u>1.1</u>	-	-	<u>595</u>	-
	<u>sl. 4-2</u>	<u>11:06</u>	<u>6.20</u>	<u>23.9</u>	<u>2303</u>	<u>212</u>	<u>~ve</u>	-	<u>566</u>	<u>565</u>	-
	<u>uc. 1-1</u>	<u>11:27</u>	<u>7.19</u>	<u>22.5</u>	<u>39K</u>	<u>295</u>	<u>3K</u>	<u>20.</u>	<u>3078</u>	<u>2667</u>	<u>204</u>
	<u>C-2-1</u>	<u>11:47</u>	<u>7.00</u>	<u>18.0</u>	<u>110K</u>	<u>3.1K</u>	<u>166</u>	<u>30</u>	<u>1574</u>	<u>1747</u>	<u>204</u>
<u>1st scan</u>	<u>C-3-1</u>	<u>12:05</u>	<u>5.91</u>	<u>27.0</u>	<u>11K</u>	<u>194</u>	<u>1.8K</u>	<u>25.</u>	<u>2072</u>	<u>2565</u>	<u>204</u>
	<u>C-4-1</u>	<u>12:27</u>	<u>6.12</u>	<u>23.6</u>	<u>5604</u>	<u>97</u>	<u>2.2</u>	<u>0.06</u>	<u>2655</u>	<u>2620</u>	<u>204</u>
	<u>sl. 4-4</u>	<u>12:44</u>	<u>6.20</u>	<u>23.3</u>	<u>2313</u>	<u>218</u>	<u>0.9</u>	<u>1.01</u>	<u>562</u>	<u>563</u>	<u>208</u>
	<u>C-8-1</u>	<u>13:06</u>	<u>6.04</u>	<u>25.8</u>	<u>131K</u>	<u>188</u>	<u>380.</u>	<u>4.7</u>	<u>2894</u>	<u>2621</u>	<u>204</u>
<u>Step in 1° Del 2nd last scan</u>	<u>C-12-1</u>	<u>13:24</u>	<u>7.76</u>	<u>17.8</u>	<u>390K</u>	<u>3.7K</u>	<u>18.</u>	<u>1.01</u>	<u>3095</u>	<u>2585</u>	<u>204</u>
	<u>C-14-1</u>	<u>13:43</u>	<u>5.02</u>	<u>23.4</u>	<u>2305</u>	<u>124</u>	<u>66.</u>	<u>2.0</u>	<u>1889</u>	<u>2830</u>	<u>204</u>
<u>last scan</u>	<u>C-17-1</u>	<u>14:01</u>	<u>6.43</u>	<u>21.7</u>	<u>3859</u>	<u>72</u>	<u>30.</u>	<u>1.3</u>	<u>2348</u>	<u>2622</u>	<u>204</u>

the only way to get 206 to do this



Rejection over-ride    Sample/Std ID    Time-printout    UO/U    196 cps    206 cps    U ppm    204Pb ppb    f206 %    Age ±1σ (Ma) 206/238 207/206    Corr.

	sl. 4-3	14:18	6:12	24.2	2247	214	0.0	-	563	559	-
	A. 1-1	14:36	6:00	25.1	3710	61	110.	4.6	2692	2604	204
	A. 2-1	14:56	6:31	23.9	1622	25	0.3	.03	2689	2696	204
1st 2 scans	A. 4-1	15:15	7:04	18.8	5482	91	200.	6.9	2220	2678	204
last 10	A. 5-1	15:32	6:33	24.0	2521	217	0.8	.07	561	578	204
	sl. x-1										
	A. 41-1 aborted: ThO @ 2 MHz										
	A. 7-1	15:53	6:05	24.2	4424	64	156.	7.2	2281	2686	204
1st scan	A. 42-1	16:24	6:37	25.6	11K	235	9K	16.5	1664	2633	204
	sl. 4-5	16:47	5:78	29.6	2108	236	-0.7	0.02	562	556	208
	A. 8-1	17:10	5:83	27.9	2428	52	72	4.6	2147	2615	204
	A. 9-1	17:29	6:56	27.8	8008	103.7	443.8	12.6	2203	2666	204
1st scan	A. 13-1	17:58	6:05	24.2	10K	305	800	11.6	1557	2636	204
	A. 14-1	18:21	7:34	25.7	11K	11.3	83	12.8	3355	2670	204
	sl. 4-6	18:42	6:04	24.9	2312	217	1.2	0.1	573.7	523.8	204.
1st scan	A. 17-1	19:04	6:51	25.9	14K	191	1K	15.4	2242	2657	204
	A. 18-1	19:23	5:95	25.5	3066	52	0.3	0.01	2736	2664	204
last scan	A. 20-1	19:46	5:77	27.8	14K	304	1.6K	17.9	1897	2561	204
probably not necessary (3rd + 4th scans)	A. 22-1	20:06	6:07	24.3	3057	55.1	41.7	2.11	2533	2661	204
	sl. 4-7	20:25	5:86	25.2	2238	231	0.6	0.04	572.9	558.2	204
	B. 2-1	20:47	6:18	22.8	9963	174	0.5	0.008	2641	2666	204
	B. 8-1	21:08	6:14	24.6	6508	137	195	4.8	2170	3025	204
	B. 10-1	21:28	5:85	30.1	6640	153	62	1.62	1907	2611	204.
1 <sup>o</sup> mistake. 5 cm board? 1 <sup>o</sup> step (?)	B. 16-1	21:53	5:88	19.3	3925	297	338	10.0	887.5	2291	204
	sl. 4-8	22:14	6:27	23.4	2457	218	-0.5	-	572.7	550.4	-
1 <sup>o</sup> steps and ↑	B. 18-1	22:37	5:86	25.8	5334	111	57	1.56	2359	2656	204

???

IF ↑  
PU ↓

probably not necessary (3rd + 4th scans)

1<sup>o</sup> mistake. 5 cm board? 1<sup>o</sup> step (?)

1<sup>o</sup> steps and ↑



Rejection over-ride    Sample/ Std ID    Time - printout    UO/U    196 cps    206 cps    U ppm    204Pb ppb    f<sub>206</sub> %    Age ±1σ (Ma) 206/238 207/206    Corr.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Corr.	
Score 1,2 4/5	B.19-1	22:57	5.93	26.6	6884	168	47	1.09	1947.6 2518	204	
10 ↓	B.22-1	23:17	6.15	21.3	5719	229	468	11.7	1244 2591	204	
	B.23-1	23:36	6.23	20.6	5483	316	220	6.0	935 2305	204	
	B.26-1	23:55	6.01	26.5	6082	163	107	2.8	1705 2636	204	
	sl. 1-1	00:15	6.11	25.1	2453	220	1.0	0.09	574 515	204	
10 ↓	B.27-1	00:35	5.98	23.8	6925	175	540	11.2	1849 2649	204	
Score 4	B.28-1	00:54	6.03	23.6	6087	156	43.9	1.07	1980 2618	204	
Score 1	B.29-1	01:15	5.77	25.1	8837	300	136	2.14	1657 2433	204	
	B.30-1	01:34	6.17	25.0	7468	137	60.2	1.34	2335 2688	204	
	B.31-1	1:52	6.22	24.5	7692	118	0.9	0.019	2720 2677	204	
	sl. 1-2	2:12	6.11	25.5	2464	213	0.6	0.052	586.6 592.1	204	
all pin to A	B.33-1	2:33	5.78	26.6	7532	155	80.4	1.53	2416 2694	204	
10 ↓	B.34-1	2:55	6.15	20.3	5305	270	377	9.74	1066 2564	204	
10 ↓	B.37-1	3:15	6.35	24.2	6739	211	109	2.97	1405 2734	204	
	B.38-1	3:34	6.32	22.9	7708	161	120	2.59	2080 2679	204	
	B.39-1	3:54	6.43	24.8	6257	191	126	3.96	1314 2455	204	
10 ↓	B.40-1	4:12	5.98	23.2	5938	198	256	6.06	1553 2710	204	
10 ↓	sl. 1-3	4:32	6.24	22.8	2362	218	-0.6	0.033	571.8 515.7	208	
DELETE	A.25-1	BEAM ABORTED / PRIMARY UNSTABLE									
1st scan	A.27-1	5:27	6.25	24.9	5268	76	205	6.89	2619 2586	204	
	A.30-1	5:46	6.15	27.8	10K	207	586	10.4	1843 2654	204	
	A.32-1	6:05	6.63	24.6	21K	247	1743	16.9	2488 2689	204	
	A.33-1	6:24	7.01	26.4	17K	226	1132	17.3	1826 2634	204	
	sl. 1-4	6:43	6.02	24.7	2365	226	0.7	0.054	573 616.5	204	
	A.36-1	7:06	6.05	23.5	2957	56.6	88.2	4.45	2439 2626	204	

~~B.31-1~~

