

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

Date: 8/8/95      UWA Mount No.: 94-28      Whose sample?: M. Barley      Operator(s): IF + YQ

Indicate any change to the following:		196	204	bkg	206	207	208	238	248	254
<b>Precambrian</b>	Count time (secs):	2 ✓	10 ✓	10 ✓	10 ✓	30 ✓	10 ✓	5 ✓	5 ✓	2 ✓
	Delay time (secs):	7 ✓	3 ✓	1 ✓	2 ✓	1 ✓	1 ✓	3 ✓	2 ✓	2 ✓
<b>Phanerozoic</b>	Count time (secs):	2	10	10	10	10	10	5	5	2
	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 = 8.165      actual 204-bkg = 0.045      expected resolution = >4200  
 Primary = 2.1 nA      PESABM = 3.4 pA      actual resolution = 4686  
 expected Primary : PESABM ≈ 50:1      actual Primary : PESABM = 6.2

Comments: checked 206-207 spacing after sl. 6-2

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.
	<u>sl. 428.61</u>	<u>12:28</u>	<u>5.64</u>	<u>7.3K</u>	<u>820</u>	<u>—</u>	<u>6.2</u>	<u>0.5</u>	<u>cal</u>	<u>541</u> 208
	<u>62</u>	<u>13:01</u>	<u>5.67</u>	<u>12.7K</u>	<u>1400</u>	<u>—</u>	<u>2.6</u>	<u>0.2</u>	<u>re-cal</u>	<u>573</u> 208
	<u>-do-</u>	<u>6-3</u>	<u>5.70</u>	<u>12 K</u>	<u>1400</u>	<u>219</u>	<u>3.5</u>	<u>0.2</u>	<u>595</u>	<u>571</u> 208
<u>delete last</u>	<u>u 428B.11</u>	<u>14:00</u>	<u>5.87</u>	<u>12.4K</u>	<u>1712</u>	<u>31</u>	<u>2.8</u>	<u>0.1</u>	<u>3557</u>	<u>3490</u> 204
	<u>21</u>	<u>14:26</u>	<u>5.79</u>	<u>12.9K</u>	<u>1065</u>	<u>39</u>	<u>3.2</u>	<u>0.3</u>	<u>1994</u>	<u>2005</u> 204
	<u>-do-</u>	<u>sl 428.64</u>	<u>5.67</u>	<u>13.2K</u>	<u>1474</u>	<u>215</u>	<u>3.3</u>	<u>0.1</u>	<u>585</u>	<u>588</u> 208
<u>Delete last</u>	<u>u 428B.12</u>	<u>15:24</u>	<u>5.71</u>	<u>13.1K</u>	<u>1283</u>	<u>26</u>	<u>9.3</u>	<u>0.6</u>	<u>3352</u>	<u>3509</u> 204
	<u>C.1-1</u>	<u>16:03</u>	<u>5.63</u>	<u>13 K</u>	<u>4633</u>	<u>94</u>	<u>2.0</u>	<u>0.03</u>	<u>3523</u>	<u>3498</u> 204
	<u>AOK</u>	<u>C.2-1</u>	<u>5.76</u>	<u>12.5K</u>	<u>2993</u>	<u>60</u>	<u>1.6</u>	<u>0.05</u>	<u>3425</u>	<u>3430</u> 204
	<u>3-1</u>	<u>16:45</u>	<u>6.06</u>	<u>11.7K</u>	<u>231K</u>	<u>467</u>	<u>8.7</u>	<u>0.04</u>	<u>3135</u>	<u>3378</u> 204
	<u>4-1</u>	<u>17:13</u>	<u>6.30</u>	<u>13.3K</u>	<u>6500</u>	<u>141</u>	<u>21.0</u>	<u>0.4</u>	<u>2400</u>	<u>3190</u> 204

*Duhisus  
2<sup>nd</sup> subtraction  
any time (most  
times)*

*Rest all  
sl. 428.61  
Rest all  
-do-  
delete last  
Rest all  
-do-  
Delete last  
Rest all  
AOK  
Rest all  
Rest all  
(all  
scrapped)*

YO Continued

Mount/sample No: 94-28 Date: 8/8/95 Page No: 2

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.	
	Del. lat 206	sl.428.6-5	17:34	5.60	12.9K	1362	224	3.0	0.15	562	587	208
	Rest. all	428.5-1	17:56	5.77	12.6K	5500	105	1.8	0.03	3573	3499	204
	-do-	6-1	18:27	6.28	13.1K	4857	71	0.6	0.02	3372	3451	204
	AOK	7-1	18:50	6.07	14.1K	6122	94	2.8	0.05	3362	3420	204
	Rest. all	8-1	19:12	5.96	14.1K	7126	111	6.5	1.09	3444	3444	204
	-do-	9-1	19:35	6.12	13.6K	3724	57	2.6	1.08	3369	3460	204
	⊗ Delete last scan Rest. all	10-1	20:02	6.12	13.6K	8949	155	3.9	1.05	3332	3395	204
	1 <sup>o</sup> dropped -do-	sl.428.6-6	20:43	6.09	14.1K	1633	100.5	0.8	0.08	550	578	204
	-do-	428.12-1	21:07	6.28	13.3K	4331	63	.2	1.004	3354	3509	204
	-do-	13-1	21:29	6.30	12.4K	3814	60	0.4	1.01	3333	3520	204
	-do-	14-1	21:51	6.40	11.7K	6946	113	3.2	1.05	3243	3455	204
	-do-	15-1	22:13	6.11	11.5K	2426	46	1.3	1.05	3293	3503	204
	(Swapping data) -do-	16-1	22:35	6.54	10.2K	6503	146	97.8	1.6	2611	3301	204
	-do-	17-1	22:57	6.39	11.5K	6722	127	3.4	1.06	2930	3260	204
	1 <sup>o</sup> unstable -do-	sl.428.6-7	23:21	6.01	12.8K	1456	201	3.8	.4	529	617	208
	-do-	18-1	23:45	6.37	10.2K	4931	97.	1.8	1.04	3151	3493	200
	Gradually -do-	19-1	0:09	6.71	10.1K	3497	60	1.2	1.04	3111	3444	204
	-do-	20-1	0:33	6.71	9.3K	3674	69	2.7	1.07	3090	3503	204
	-do-	21-1	0:56	6.08	9.7K	2556	62	4.5	0.1	3122	3455	204
	1 <sup>o</sup> dropped to -do-	22-1	1:19	6.51	9.1K	1438	30	2.4	.2	3127	3507	204
	Rest. all	23-1	1:41	6.85	9.1K	5801	104	6.7	.1	3086	3586	204
	1 <sup>o</sup> improved to 2.1 nA (Swapping data) -do-	sl.428.6-8	2:08	6.02	14.3K	1603	190	2.2	.2	548	558	204
	AOK	428.24-1	2:38	5.85	4.7K	1216	57	8.1	.2	3643	3507	204
	Rest. all	25-1	3:01	6.32	13.4K	4024	58	1.6	1.05	3286	3486	204

Increased 2<sup>nd</sup> extraction vol to improve peak tops.

⊗ Delete last scan Rest. all

(Swapping data)

1<sup>o</sup> unstable

Gradually

1<sup>o</sup> dropped to

1<sup>o</sup> improved to 2.1 nA (Swapping data)

*Y. Ois*  
Continued.

Mount/sample No: *94-28* Date: *8-9/8/95* Page No: *3*

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.
---------------------	----------------	-----------------	------	---------	---------	-------	-----------	--------	------------------------------	-------

<i>Restored</i>	<i>U428.C26-1</i>	<i>3:23</i>	<i>6.43</i>	<i>12.2K</i>	<i>3653</i>	<i>54</i>	<i>1.8</i>	<i>.06</i>	<i>3343 3507</i>	<i>204</i>
<i>-do- (over-ride)</i>	<i>27-1</i>	<i>3:45</i>	<i>6.52</i>	<i>11.7K</i>	<i>9676</i>	<i>153</i>	<i>3.1</i>	<i>.04</i>	<i>3163 3484</i>	<i>200</i>
<i>-do-</i>	<i>28-1</i>	<i>4:08</i>	<i>6.09</i>	<i>13.3K</i>	<i>3783</i>	<i>66</i>	<i>4.3</i>	<i>.1</i>	<i>3140 3471</i>	<i>204</i>
<i>-do-</i>	<i>29-1</i>	<i>4:24</i>	<i>6.18</i>	<i>11.9K</i>	<i>2536</i>	<i>45</i>	<i>3.1</i>	<i>.1</i>	<i>3256 3515</i>	<i>204</i>
<i>-do-</i>	<i>30-1</i>	<i>4:51</i>	<i>6.49</i>	<i>11.5K</i>	<i>12.1K</i>	<i>219</i>	<i>14.4</i>	<i>.2</i>	<i>2919 3502</i>	<i>204</i>
<i>-do-</i>	<i>31-1</i>	<i>5:13</i>	<i>6.43</i>	<i>13.2K</i>	<i>9.1K</i>	<i>145</i>	<i>2.4</i>	<i>.04</i>	<i>2960 3259</i>	<i>204</i>
<i>data as group as crystal too narrow some of these spots too close Data seem OK</i>	<i>Deloket The U428.6-9</i>	<i>5:37</i>	<i>6.13</i>	<i>13.7K</i>	<i>1599</i>	<i>191</i>	<i>3.5</i>	<i>.4</i>	<i>536 570</i>	<i>204</i>
<i>Rest. ad</i>	<i>28-2</i>	<i>6:00</i>	<i>6.66</i>	<i>13.5K</i>	<i>13.3K</i>	<i>193</i>	<i>10</i>	<i>.11</i>	<i>2861 3340</i>	<i>204</i>
<i>-do-</i>	<i>32-1</i>	<i>6:23</i>	<i>6.29</i>	<i>12.3K</i>	<i>5565</i>	<i>97</i>	<i>5.1</i>	<i>.1</i>	<i>3060 3497</i>	<i>204</i>
<i>-do-</i>	<i>33-1</i>	<i>6:44</i>	<i>6.45</i>	<i>12.1K</i>	<i>16.4K</i>	<i>246</i>	<i>4.5</i>	<i>.03</i>	<i>3287 3404</i>	<i>204</i>
	<i>34-1</i>	<i>7:05</i>	<i>6.24</i>	<i>12.7K</i>	<i>2131</i>	<i>35</i>	<i>2.2</i>	<i>.1</i>	<i>3202 3437</i>	<i>204</i>
	<i>32-2</i>	<i>7:29</i>	<i>6.04</i>	<i>12.7K</i>	<i>8952</i>	<i>167</i>	<i>9.7</i>	<i>.1</i>	<i>3143 3432</i>	<i>204</i>