

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

Date: 29/1/96 UWA Mount No.: 95-42 Whose sample?: Kromardouk - McN Operator(s): McN - ~~Yumiri~~  
+ 95-36 Roger - Wetbury

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 = 8.163      actual 204-bkg = 0.040      expected resolution = >4200  
 Primary = 1.8 nA      PESABM = ..... pA      actual resolution = 4783  
 expected Primary : PESABM ≈ 50:1      actual Primary : PESABM = .....

Comments: Duo ~ 420 + 1° stable!!

Raster = 3mm x 120µ

Calibra<sup>2</sup> Ave n=7

Zr/U = ~~1.8003~~ 1.79919

UO/U = ~~5.9856~~ 5.97580

Pb<sup>x</sup>/U = ~~0.179239~~ 0.182250

B<sub>n</sub> = 12

Cali error = 0.547%

95-42  
del. 15V

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma)	Corr.	
									206/238    207/206		
	<u>std 5-5</u>	<u>10:30</u>	<u>6.09</u>	<u>13.3</u>	<u>1411</u>	<u>220</u>	<u>1.4</u>	<u>.04</u>	<u>572 ± 1</u>	<u>575 ± 22</u>	<u>208</u>
	<u>std 5-6</u>	<u>10:54</u>	<u>6.11</u>	<u>13.2</u>	<u>1425</u>	<u>220</u>	<u>1.4</u>	<u>.08</u>	<u>572 ± 1</u>	<u>605 ± 19</u>	<u>208</u>
	<u>B. 23-1</u>	<u>11:18</u>	<u>6.61</u>	<u>10.1</u>	<u>21.6K</u>	<u>1207</u>	<u>1.10ppm</u>	<u>5.35</u>	<u>1422 ± 1</u>	<u>1795 ± 12</u>	<u>204</u>
	<u>std 5-7</u>	<u>11:41</u>	<u>5.89</u>	<u>13.6</u>	<u>1345</u>	<u>227</u>	<u>1.2</u>	<u>.11</u>	<u>572 ± 1</u>	<u>575 ± 20</u>	<u>208</u>
	<u>B. 24-1</u>	<u>12:34</u>	<u>7.30</u>	<u>8.0</u>	<u>48K</u>	<u>2700</u>	<u>3.05ppm</u>	<u>6.96</u>	<u>1347 ± 1</u>	<u>1791 ± 9</u>	<u>204</u>
	<u>B. 25-1</u>	<u>12:55</u>	<u>6.95</u>	<u>10.5</u>	<u>27K</u>	<u>1088</u>	<u>900</u>	<u>4.25</u>	<u>1605 ± 2</u>	<u>1912 ± 9</u>	<u>204</u>
	<u>B. 26-1</u>	<u>13:24</u>	<u>6.32</u>	<u>12.6</u>	<u>9.7K</u>	<u>296</u>	<u>68.8</u>	<u>.70</u>	<u>2331 ± 4</u>	<u>2930 ± 4</u>	<u>204</u>
	<u>std 5-8</u>	<u>13:46</u>	<u>5.88</u>	<u>13.6</u>	<u>1329</u>	<u>228</u>	<u>2.0</u>	<u>.07</u>	<u>566 ± 1</u>	<u>563 ± 20</u>	<u>208</u>
	<u>B. 27-1</u>	<u>14:08</u>	<u>6.39</u>	<u>12.8</u>	<u>8.3K</u>	<u>187</u>	<u>39.2</u>	<u>.46</u>	<u>2888 ± 6</u>	<u>3297 ± 4</u>	<u>204</u>
	<u>B. 28-1</u>	<u>14:38</u>	<u>6.54</u>	<u>11.0</u>	<u>193K</u>	<u>823</u>	<u>762</u>	<u>4.13</u>	<u>1746 ± 2</u>	<u>2268 ± 8</u>	<u>204</u>
	<u>B. 29-1</u>	<u>15:00</u>	<u>7.36</u>	<u>7.3</u>	<u>4.4K</u>	<u>1077</u>	<u>324</u>	<u>7.56</u>	<u>348 ± 1</u>	<u>1951 ± 30</u>	<u>204</u>

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.	
	B. <del>30-1</del>	15:26	6.42	12.6	10.0K	445	287	3.27	1588±2	2169±11	204	
del 1st 204	196, 238, 254	std 5-9	15:49	5.98	13.7	1222	223	3.4	.28	500±1	815±19	208
	196, 206, 238	std 5-10	16:10	6.09	13.7	1222	215	3.5	.09	562±1	581±19	208
196, 207, 208, 238, 254	B31-1	16:34	6.67	10.8	18.6K	733	815	4.8	1798±2	2201±10	204	
207, 238, 248, 254	B32-1	17:09	6.73	11.0	17.6K	779	689	4.7	1555±2	1897±12	204	
196, 206, 207, 208, 254	B33-1	17:35	6.53	13.5	12.7K	327	346	3.2	2283±4	2933±6	204	
196, 206, 207, 208, 238, 254	B34-1	18:04	6.76	10.8	16.8K	685	729	5.1	1681±2	1986±12	204	
207, 254	std 5-11	18:27	5.82	13.9	1335	230	2.5	.11	571±1	507±20	208	
CHANGE TO 95-36 → see separate sheet												
<del>std 3-9</del>												