

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 6/7/99 UWA Mount No.: 99-15 Whose sample?: RM/JD Operator(s): McN + AR

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
Precambrian	Count time (secs):	2	10	10	10/20* ²⁰ 30/10*	10	5	5	2	
Phanerozoic*	Delay time (secs):	8	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.167 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5216
 epoxy 2-3
 Primary = 3.2 nA PESABM = 35 pA actual Primary : PESABM (= 50:1) =
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

PRIORITY = B
 Comments: B = RM0244
 C = " 249
 D = " 242
 A = " 251

* increase in 1° = a step \rightarrow delete analysis?

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age $\pm 1\sigma$ (Ma) 206/238	207/206	Offsets OK?
	<u>sl. 8-1</u>	<u>11:22</u>	<u>6.31</u>	<u>11.3</u>	<u>1342</u>	<u>220</u>	<u>1.4</u>	<u>.12</u>	<u>571 \pm 1</u>	<u>556 \pm 32</u>	<u>✓</u>
	<u>sl. 8-2</u>	<u>11:45</u>	<u>6.26</u>	<u>11.5</u>	<u>1319</u>	<u>223</u>	<u>1.2</u>	<u>.10</u>	<u>560 \pm 1</u>	<u>527 \pm 33</u>	<u>✓</u>
	<u>B. 1-1</u>	<u>12:06</u>	<u>6.79</u>	<u>9.7</u>	<u>418</u>	<u>143</u>	<u>-0.6</u>	<u>/</u>	<u>262 \pm 1</u>	<u>256 \pm 47</u>	<u>✓</u>
	<u>sl. 8-3</u>	<u>12:29</u>	<u>6.06</u>	<u>11.1</u>	<u>1172</u>	<u>227</u>	<u>-0.4</u>	<u>.01</u>	<u>561 \pm 1</u>	<u>673 \pm 25</u>	<u>✓</u>
	<u>B. 1-2</u>	<u>12:49</u>	<u>6.25</u>	<u>9.1</u>	<u>322</u>	<u>153</u>	<u>2.3</u>	<u>.66</u>	<u>257 \pm 1</u>	<u>/</u>	<u>✓</u>
	<u>B. 3-1</u>	<u>13:07</u>	<u>6.70</u>	<u>9.8</u>	<u>568</u>	<u>204</u>	<u>0.2</u>	<u>.04</u>	<u>256 \pm 1</u>	<u>232 \pm 65</u>	<u>✓</u>
	<u>sl. 8-4</u>	<u>13:25</u>	<u>6.15</u>	<u>10.1</u>	<u>1115</u>	<u>226</u>	<u>0.2</u>	<u>.02</u>	<u>563 \pm 1</u>	<u>549 \pm 29</u>	<u>✓</u>
	<u>B. 4-1</u>	<u>13:43</u>	<u>6.53</u>	<u>6.4</u>	<u>383</u>	<u>218</u>	<u>-0.7</u>	<u>.29</u>	<u>265 \pm 1</u>	<u>/</u>	<u>✓</u> $1^\circ \approx 3.2$
	<u>B. 5-1</u>	<u>14:03</u>	<u>6.42</u>	<u>11.5</u>	<u>163</u>	<u>56.8</u>	<u>-0.3</u>	<u>/</u>	<u>255 \pm 1</u>	<u>301 \pm 75</u>	<u>✓</u>
	<u>B. 6-1</u>	<u>14:27</u>	<u>6.89</u>	<u>12.3</u>	<u>802</u>	<u>215</u>	<u>0.5</u>	<u>.10</u>	<u>253 \pm 1</u>	<u>265 \pm 49</u>	<u>✓</u> $1^\circ \approx 3.5$
	<u>sl. 8-5</u>	<u>14:44</u>	<u>5.99</u>	<u>14.3</u>	<u>1494</u>	<u>229</u>	<u>0.6</u>	<u>.05</u>	<u>571 \pm 1</u>	<u>596 [3]</u>	<u>✓</u> $1^\circ \approx 3.8$

increased in 1° run!
 last scan
 last 40

1° increased between runs

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
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2 steps - would not open for check

	B7-1	15:05	6.26	13.8	313	103	1.7	.58	242	0 ± 177	✓
	B.8-1	15:25	6.69	11.6	481	149	2.5	.57	252	0 ± 10	✓
	B.9-1	16:43	6.56	13.6	492	139	0.2	.08	252	243	✓
	S1.15-1	16:01	6.09	14.7	1616	228	7.2	.59	569	489	✓
	B10-1	16:19	6.55	13.7	831	232	0.6	.12	252	205	✓
	B.11-1	16:37	6.31	13.6	414	133	5.9	.20	244	330	✓
	B.12-1	16:55	6.82	13.1	2022	530	3.0	.25	255	218	✓
①	→ S1.15-1										
②	→ couldn't regain 1°. Shut down ←										

- ① Lost 1° 4:40pm. followed procedures as per 5/7/99 in blue book except, couldn't find AFC switch. Sample applicatⁿ wouldn't load, so I loaded sample application from SHRIMP-Back-up. 1° returned, but not getting any 2°. Had to adjust run table. 6:00pm.
- ② - 6pm lost 1° again. 6:30 couldn't get SAMPLE SHRIMP Back-up to open. couldn't regain 1° Shut down