

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 3/2/97 UWA Mount No.: 97-37 Whose sample?: YQ Operator(s): McN + YQ

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

~~Precambrian~~ Count time (secs): 2 10 10 ²⁰ ~~10~~ ²⁰ ~~30/10~~ 10 5 5 2
 Phanerozoic* Delay time (secs): ~~48~~ 3 1 2 1 1 3 2 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040⁵ amu Dead-time = 32 nanosecs

actual 196-204 = 8.168 actual 204-bkg = 0.045 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 4875

Primary = 2.7 nA PESABM = 38 pA actual Primary : PESABM (= 50:1) = 71

Raster time (mins): 2/3/5 Raster aperture (microns): 100/120 No. of scans: 5

Comments: B = G22-1

→ changed at 10:20 am (*)
 " @ 11:30 am (**)

$N_{std} = 6, \% = 0.80 \checkmark$

(Actual slope = 1.98 $\%$ = 0.79)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
	<u>sl. 6-1</u>	<u>10:13</u>	<u>6.29</u>	<u>13.3</u>	<u>1542</u>	<u>220</u>	<u>0.6</u>	<u>.17</u>	<u>571 ± 1</u> <u>620 ± 25</u>	<u>208</u>
<u>*</u> →	<u>sl. 6-2</u>	<u>10:30</u>	<u>6.51</u>	<u>12.7</u>	<u>1584</u>	<u>211</u>	<u>5.6</u>	<u>.17</u>	<u>577 ± 1</u> <u>542 ± 25</u>	<u>"</u>
	<u>B. 1-1</u>	<u>10:48</u>	<u>6.43</u>	<u>12.8</u>	<u>671</u>	<u>226</u>	<u>4.3</u>	<u>.59</u>	<u>240 ± 1</u> <u>252 ± 78</u>	<u>"</u>
	<u>B. 2-1</u>	<u>11:04</u>	<u>6.50</u>	<u>13.3</u>	<u>520</u>	<u>167</u>	<u>1.9</u>	<u>.69</u>	<u>234 ± 1</u> <u>249 ± 72</u>	<u>"</u>
	<u>sl. 6-3</u>	<u>11:21</u>	<u>6.36</u>	<u>13.3</u>	<u>1592</u>	<u>222</u>	<u>3.7</u>	<u>.16</u>	<u>568 ± 1</u> <u>552 ± 25</u>	<u>"</u>
<u>**</u> →	<u>B. 3-1</u>	<u>11:39</u>	<u>6.28</u>	<u>13.7</u>	<u>257</u>	<u>86.4</u>	<u>2.7</u>	<u>.96</u>	<u>241 ± 1</u> <u>244 ± 105</u>	<u>"</u>
	<u>B. 4-1</u>	<u>11:57</u>	<u>6.17</u>	<u>13.6</u>	<u>641</u>	<u>227</u>	<u>1.8</u>	<u>.36</u>	<u>247 ± 1</u> <u>230 ± 98</u>	<u>204</u>
	<u>B. 5-1</u>	<u>12:22</u>	<u>6.13</u>	<u>14.2</u>	<u>305</u>	<u>110</u>	<u>2.7</u>	<u>.67</u>	<u>236 ± 1</u> <u>211 ± 92</u>	<u>208</u>
	<u>sl. 6-4</u>	<u>12:41</u>	<u>6.02</u>	<u>14.3</u>	<u>1565</u>	<u>239</u>	<u>3.0</u>	<u>.06</u>	<u>575 ± 1</u> <u>587 ± 25</u>	<u>"</u>
	<u>B. 7-1</u>	<u>13:00</u>	<u>6.08</u>	<u>14.2</u>	<u>351</u>	<u>126</u>	<u>0.5</u>	<u>.13</u>	<u>245 ± 1</u> <u>367 ± 75</u>	<u>"</u>
	<u>B. 8-1</u>	<u>13:22</u>	<u>6.18</u>	<u>14.3</u>	<u>412</u>	<u>140</u>	<u>0.7</u>	<u>.07</u>	<u>244 ± 1</u> <u>372 ± 70</u>	<u>"</u>

Rejection over-ride	Sample/Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
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	B.9-1	13:41	6.18	14.5	410	138	1.2	.55	242±1	306±82	208
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	B.9-2	13:59	6.34	14.3	287	90	2.6	1.07	241±1	—	"
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sl. 6-5 ~~RESTARTED COMPUTER !!~~ *computer locked up on 206*

1° increased after restart
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	sl. 5-1	14:49	5.74	17.6	1789	220	1.1	.03	572±1	662±22	208
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	B.10-1	15:09	5.89	17.3	271	75.5	2.5	1.16	238±1	—	"
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B.11-1 *ORTEC FROZE → see if enough data to use*

TURNED COMPUTER OFF & RESTARTED

	sl. 5-2	16:01	5.74	18.6	1942	220	2.6	.04	572±1	654±21	208
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B.11-2 *ditto as B 11-1*

Turned computer OFF / turned ORTEC off / restart

sl. 5-3 *→ ORTEC locked up during run*

CLOSE DOWN