

UWA SHRIMP DATA LOG

Date: 30/7/01 UWA Mount No.: B-52 Whose sample?: Bree Operator(s): McW + NV

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* 30/10* 10 5 5 2
Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts / nA = 352/85V/9.6 for O⁻; = 243/59V/2.1 for O₂⁻; = 200/48V/4.2 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4536

aperture = 100 microns retardation lens = 0 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = 8.170 204-bkg = 0.045 204-206 = ~2.000 ± 5

206-207 = 1.000 206-208 = 1.999

Primary-epoxy = 1.9 nA Primary-CZ3 = 2.5 nA PESABM-CZ3 = 32 pA

Raster time (mins): 1.0 Raster aperture (microns): 60 No. of scans: 6

Comments: SDA = 3578 ± 4 Ma

WH =

~ 20µm spot size

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ± 1σ (Ma) 206/238	207/206	Offsets OK?
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	<u>CZ.1-1</u>	<u>9:52</u>	<u>6.33</u>	<u>12</u>	<u>1200</u>	<u>238</u>	<u>-0.4</u>	<u>-</u>	<u>572 ± 4</u>	<u>622 ± 26</u>	<u>✓</u>
	<u>CZ.1-2</u>	<u>10:11</u>	<u>6.32</u>	<u>12</u>	<u>1200</u>	<u>239</u>	<u>0.6</u>	<u>.05</u>	<u>583 ± 6</u>	<u>573 ± 40</u>	<u>✓</u>
	<u>SDA.1-1</u>	<u>10:29</u>	<u>6.54</u>	<u>11</u>	<u>6200</u>	<u>153</u>	<u>0.5</u>	<u>0.01</u>	<u>3643 ± 24</u>	<u>3568 ± 4</u>	<u>204/bkgst 1.045</u>
	<u>C.6-1</u>	<u>10:56</u>	<u>5.60</u>	<u>14</u>	<u>1300</u>	<u>34</u>	<u>5.7</u>	<u>0.43</u>	<u>3528 ± 46</u>	<u>3541 ± 12</u>	<u>"</u>
	<u>CZ.1-3</u>	<u>11:36</u>	<u>6.39</u>	<u>12</u>	<u>1200</u>	<u>239</u>	<u>0.1</u>	<u>0.01</u>	<u>576 ± 4</u>	<u>631 ± 30</u>	<u>✓</u>
	<u>C.19-1</u>	<u>11:55</u>	<u>5.90</u>	<u>13</u>	<u>2500</u>	<u>63</u>	<u>1.5</u>	<u>0.06</u>	<u>3597 ± 33</u>	<u>3579 ± 7</u>	<u>✓</u>
	<u>C.3-1</u>	<u>12:17</u>	<u>6.77</u>	<u>12</u>	<u>9100</u>	<u>457</u>	<u>9.7</u>	<u>1.16</u>	<u>1868 ± 14</u>	<u>2719 ± 12</u>	<u>✓</u>
	<u>CZ.1-4</u>	<u>12:36</u>	<u>6.16</u>	<u>13</u>	<u>1200</u>	<u>227</u>	<u>0.8</u>	<u>0.07</u>	<u>579 ± 4</u>	<u>621 ± 35</u>	<u>✓</u>

changed run table
grain 18 =
new run table

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

	C3-2	55 12:36	6.26 6.16	12 12	7600 1200	326 277	24 0.8	0.3 0.07		2301±16	3152±14	✓
	C1-1	13:15	6.50	11	8600	606	103	1.14		1566±8	2618±8	✓
	C28-1											✓
	C28-1	13:43	5.67	14	5100	173	4.8	0.09		2813±17	3408±6	✓
	C23.15	14:02 6:25	6.25	12	1100	230	0.4	0.04		572±4	502±44	✓
	C29-1	14:24	6.29	12	7600	385	104	1.31		2069±33	2920±7	✓
	C39-1	14:43	6.17	12	1100	151	0.8	0.07		852±8	865±36	✓
	C23.16	15:01	6.15	12	1200	232	0.9	0.07		596±5	510±37	✓
popc	≡ Zircon	B43-1	15:21	3.13	5.5	850	330	-0.4	—	1535±4	2000±21	✓
		SDA1-2	15:40	6.29	12	4200	102	-0.4	—	3650±27	3584±5	✓
		C23.17	15:57	6.40	11	1200	242	-0.1	—	605±5	497±25	✓
		C23.2-1	16:15	5.95	13	1100	226	0.3	0.03	572±5	584±41	✓
End of zircons												
Start RUTILE	ID	Time	UO ₂ /UO	207.8 cps	206 cps	U ₂ Kcps	204 cps	206/204 ×10 ⁻⁴	206/238	207/206	offsets OK?	
Std = 96-58	wh.2-1	18:11	0.543	6100	1800	1.9	0.18	0.93	4.46	0.1794		
	wh.2-2	18:37	0.459	150 730	1600	1.7	0.11	0.68	2.90	0.1763		
	B.2-1	18:56	1.082	1300	600	53	0.12	2.02	19.14	0.2185	✓	
	B.2-2	19:13	1.051	1200	490	0.41	0.25	4.99	19.11	0.2200	✓	
	wh.2-3	19:35	0.525	480	2100	2.1	0.14	0.67	4.088	0.1761	✓	
	B1-1	19:56	1.428	950	440	0.4	0.06	0.62	26.305	0.2205	✓	
	B2-1-2	20:14	1.452	940	510	0.45	0.10	0.10	29.135	0.2436	✓	
	B1-3	20:31	1.552	960	490	0.45	0.14	2.86	30.625	0.2245	✓	
	wh.2-4	20:51	0.488	270	1900	4.3 2.1	0.08	0.45	3.333 3.402	0.1792	✓	
? to delete 2nd repeat	B2-3	21:19	1.044	1300	550	0.47	0.25	4.52	17.234	0.2167	✓	
	SDA2-1	21:45	4.111	59	4800	7400	9.0	17.91	1.598	0.3226	✓	

$TiO_2 / 204Pb = -3.84799$

