

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 9/4/98 UWA Mount No.: 97-07 Whose sample?: Jenny M. Operator(s): IF

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

Precambrian Count time (secs): 2⁵ 10 10 10 30/10* 10 5 5 2⁵

Phanerozoic* Delay time (secs): 8 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 = 8.169 actual 204-bkg = 0.043 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5070

Primary = 4.0 nA PESABM = 45 pA actual Primary : PESABM (≈ 50:1) = 89

Raster time (mins): 0.5 Raster aperture (microns): 100 No. of scans: 5

Comments: ① changed 207 from 20 to 30 sec. integ.

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)	206/238	207/206	Corr.
	<u>sl. 4-3</u>	<u>10:33</u>	<u>6.04</u>	<u>20.1</u>	<u>1710</u>	-	<u>-ve</u>	-	-	<u>469</u>	-	
	<u>sl. 6-4</u>	<u>10:46</u>	<u>6.13</u>	<u>18.8</u>	<u>1580</u>	<u>212</u>	<u>-ve</u>	-	<u>562</u>	<u>538</u>	-	
	<u>C. 1-2</u>	<u>11:04</u>	<u>6.18</u>	<u>19.6</u>	<u>3740</u>	<u>85</u>	<u>10.</u>	<u>.33</u>	<u>2614</u>	<u>2650</u>	<u>204</u>	
	<u>C. 21-1</u>	<u>11:19</u>	<u>6.05</u>	<u>20.0</u>	<u>1497</u>	<u>35</u>	<u>2.1</u>	<u>.16</u>	<u>2645</u>	<u>2674</u>	<u>204</u>	
<u>1st scan</u>	<u>C. 22-1</u>	<u>11:36</u>	<u>5.45</u>	<u>21.9</u>	<u>577</u>	<u>19</u>	<u>1.6</u>	<u>.24</u>	<u>2550</u>	<u>2678</u>	<u>204</u>	
	<u>sl. 6-5</u>	<u>11:50</u>	<u>6.10</u>	<u>19.5</u>	<u>1646</u>	<u>209</u>	<u>0.7</u>	<u>.06</u>	<u>579</u>	<u>557</u>	<u>204</u>	
	<u>C. 23-1</u>	<u>12:11</u>	<u>6.35</u>	<u>18.2</u>	<u>2703</u>	<u>60</u>	<u>1.0</u>	<u>.05</u>	<u>2633</u>	<u>2666</u>	<u>204</u>	
<u>1st scan</u>	<u>C. 24-1</u>	<u>12:27</u>	<u>6.40</u>	<u>16.9</u>	<u>19100</u>	<u>446</u>	<u>240</u>	<u>1.5</u>	<u>2604</u>	<u>2601</u>	<u>204</u>	
	<u>C. 9-2</u>	<u>12:41</u>	<u>6.43</u>	<u>18.1</u>	<u>30530</u>	<u>664</u>	<u>0.6</u>	<u>0.00</u>	<u>2623</u>	<u>2668</u>	<u>204</u>	
	<u>sl. 6-6</u>	<u>12:56</u>	<u>6.45</u>	<u>12.2</u>	<u>1138</u>	<u>198</u>	<u>1.1</u>	<u>.10</u>	<u>565</u>	<u>529</u>	<u>204</u>	
	<u>C. 25-1</u>	<u>13:13</u>	<u>7.20</u>	<u>14.7</u>	<u>60K</u>	<u>1130</u>	<u>130</u>	<u>.35</u>	<u>2518</u>	<u>2322</u>	<u>204</u>	

P.D. 1 counts, low, but OK.

Bad data delete analyses?

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 k cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
	C-26-1	13:32	7.28	15.4	4939	260	82.	2.6	980	2594	204
	C-27-1	13:56	6.03	19.6	2400	58	3.3	.15	2643	2660	204
	C-28-1	14:09	6.03	20.6	1678	68	2.5	.18	1646	2660	204
	SI-6-7	14:24	5.94	20.4	1603	219	-16	.02	564	470	208
	C-29-1	14:40	6.22	19.0	8104	199	3.0	.05	2473	2590	204
	C-5-2	14:53	6.14	19.9	2549	61	7.4	.35	2518	2654	204
	C-23-2	15:09	7.14	16.9	11807	280	61	.86	1968	2284	204
	SI-3-4	15:23	5.97	20.5	1620	218	-	-	560	548	-
	C-11-2	15:41	6.73	16.1	4300	299	119	.36	2495	2625	204
	C-14-2	15:59	6.26	18.6	9528	216	27.7	.34	2646	2675	204
	C-16-2	16:14	6.04	20.7	2131	48	-	-	2663	2691	-
	SI-3-5	16:27	5.76	20.2	1540	234	1.1	.09	568	494	204
	<p>→ Moved to Mount ←</p> <p>98-01</p>										

Spot overlaps
10/drop print
(ambiguously)

non-linear

P.D-2

Didn't hit
Calibration Poek =
"ok" after date
transf.
A.D. 3

P.D-3