

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 17/4/99 UWA Mount No.: 98-101 Whose sample?: Barley/Blake Operator(s): SB/MD

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

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.169 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = 0.999 actual 206-208 = 1.999 actual resolution = 5100

Primary = 2.2 nA PESABM = 24 pA actual Primary : PESABM (≈ 50:1) =
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: Baddeleyite pop. C.
 Zircon pop. B.

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U Kcps | 196 Kcps | 206 cps | U ppm | 204Pb ppb | f ₂₀₆ % | Age ±1σ (Ma) 206/238 | 207/206 | Offsets OK? |
|---------------------|----------------|-----------------|-----------|----------|---------|-------|-----------|--------------------|----------------------|-----------|-------------|
| | S1.2-1 | 12:39 | 7.02 | 11.2 | 1400 | 220 | 4.3 | .18 | 571 ± 1 | 579 ± 21 | |
| | Ph.67-1 | 13:00 | 4.56 | 18.9 | 537 | 58 | 5.2 | .33 | 2165 ± 14 | 2056 ± 26 | |
| | G. 1-1 | 13:19 | 4.97 | 15.3 | 2203 | 578 | 22.3 | .49 | 817 ± 2 | 711 ± 28 | |
| | Ph.67-2 | 13:41 | 4.43 | 18.3 | 510 | 64 | 7.1 | .40 | 2228 ± 15 | 2066 ± 26 | |
| | C.2-1 | 14:04 | 5.22 | 17.4 | 547 | 92 | 8.2 | 1.02 | 896 ± 3 | 637 ± 80 | ✓ |
| | C.3-1 | 14:25 | 4.58 | 17.8 | 335 | 110 | 38.0 | 4.3 | 793 ± 5 | 628 ± 200 | |
| | Ph.68-1 | 14:47 | 4.40 | 18.7 | 539 | 76 | 6.0 | .31 | 2079 ± 13 | 2057 ± 26 | |
| | C.4-1 | 15:08 | 4.41 | 23.1 | 407 | 145 | 4.0 | .21 | 724 ± 2 | 905 ± 60 | ✓ |
| | C.5-1 | 15:31 | 4.89 | 37.9 | 616 | 153 | 7.8 | .70 | 753 ± 2 | 712 ± 60 | ✓ |
| Zircon | C.6-1 | 15:56 | 6.83 | 9.2 | 3192 | 155 | 214 | .19 | 2079 ± 7 | 2588 ± 19 | ✓ |
| | S1.3-1 | 16:26 | 6.59 | 9.9 | 1071 | 245 | 0.0 | .23 | 539 ± 1 | 529 ± 25 | ✓ |

Mount/sample No: 98-101

Date: 1/4/99

Page No: 2

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 Kcps | 206 cps | U ppm | 204Pb ppb | f ₂₀₆ % | Age ±1σ (Ma) | | Offsets OK? |
|------------------------|-------------------|--------------------|------|-------------|------------|----------|--------------|-----------------------|--------------|-----------|----------------|
| | | | | | | | | | 206/238 | 207/206 | |
| | b.6-1 | 16:52 | 6.85 | 9.9 | 989 | 35 | 5.7 | .44 | 2629 ± 16 | 2729 ± 14 | ✓ |
| | b.7-1 | 17:14 | 6.74 | 10.5 | 669 | 24 | 4.2 | .46 | 2677 ± 19 | 2723 ± 18 | ✓ |
| | b.8-1 | 17:34 | 6.81 | 10.3 | 769 | 25 | 7.5 | .76 | 2706 ± 19 | 2741 ± 19 | ✓ |
| | b.9-1 | 17:54 | 7.19 | 10.2 | 6707 | 198 | 2.6 | .04 | 2641 ± 6 | 2704 ± 4 | ✓ |
| | * b.10-1 | 18:13 | 7.32 | 9.9 | 2800 | 101 | 4.74 | 15.6 | 1902 ± 9 | 2745 ± 36 | ✓ |
| | S1.4-1 | 18:44 | 6.73 | 9.1 | 1078 | 246 | 21.3 | 1.7 | 546 ± 1 | 602 ± 24 | ✓ |
| (C-11-1) | b.11-1 | 19:03 | 7.0 | 10.8 | 2672 | 72 | 150 | .19 | 2722 ± 11 | 3329 ± 12 | ✓ |
| (C12-1) | b.12-1 | 19:25 | 7.0 | 10.6 | 1804 | 53 | 5.1 | .25 | 2709 ± 13 | 2718 ± 10 | ✓ |
| | b.29-1 | 19:45 | 6.9 | 10.6 | 1109 | 34 | 8.5 | .63 | 2727 ± 16 | 2702 ± 14 | ✓ |
| | b.30-1 | 20:12 | 6.8 | 10.6 | 1598 | 54 | 10.1 | .50 | 2634 ± 13 | 2713 ± 12 | ✓ |
| | b.27-1 | 20:45 | 6.64 | 8.0 | 1313 | 64 | 13.7 | 1.1 | 2562 ± 13 | 2712 ± 13 | ✓ |
| | S1.5-1 | 21:05 | 7.05 | 10.6 | 1274 | 209 | 7.5 | .38 | 571 ± 1 | 590 ± 23 | ✓ |
| | b.25-1 | 21:26 | 7.2 | 10.1 | 3444 | 98 | 11.8 | .31 | 2700 ± 9 | 2730 ± 7 | ✓ |
| | b.24-1 | 21:50 | 7.1 | 10.3 | 2213 | 64 | 7.2 | .29 | 2719 ± 11 | 2740 ± 9 | ✓ |
| | b.26-1 | 22:09 | 6.8 | 9.0 | 648 | 22 | 18.3 | 1.9 | 2965 ± 25 | 2703 ± 25 | ✓ |
| | b.23-1 | 22:30 | 6.9 | 10.5 | 1596 | 50 | 4.8 | .25 | 2714 ± 13 | 2732 ± 10 | ✓ |
| | b.22-1 | 22:49 | 7.1 | 10.4 | 4971 | 144 | 7.3 | .13 | 2734 ± 8 | 2719 ± 5 | ✓ |
| = 5-2 | S1.6-1 | 23:16 | 6.9 | 10.5 | 1235 | 218 | 2.4 | .21 | 566 ± 1 | 526 ± 22 | ✓ |
| | b.21-1 | 23:34 | 6.7 | 10.8 | 1571 | 51 | 92.7 | 4.1 | 2689 ± 14 | 3286 ± 14 | ✓ |
| | b.20-1 | 23:58 | 6.8 | 10.2 | 481 | 15 | 3.4 | .55 | 2855 ± 26 | 2726 ± 24 | ✓ |
| | b.17-1 | 00:18 | 7.2 | 10.5 | 2363 | 82 | 89. | 3.5 | 2208 ± 9 | 2714 ± 17 | ✓ |
| | b.18-1 | 00:38 | 7.1 | 9.7 | 4056 | 124 | 11.1 | .23 | 2754 ± 9 | 2736 ± 6 | ✓ |
| | b.16-1 | 00:59 | 6.9 | 9.8 | 780 | 31 | 91.4 | 9.1 | 2157 ± 17 | 2721 ± 48 | ✓ |
| | S1.7-1 | 1:23 | 6.9 | 10.8 | 1325 | 233 | 3.9 | .27 | 535 ± 1 | 544 ± 22 | ✓ |
| | b.19-1 | 1:44 | 6.8 | 10.9 | 3055 | 76 | 14.8 | .37 | 3212 ± 12 | 3331 ± 6 | ✓ |

