## UWA DATA LOG: SHRIMP ZIRCON U-Pb

| Date | UWA Mount No. | Whose sample? | Operator(s) |
|---|---|---|---|
| 20/11/97 | 97-30 | Stn B. | IF + SB |

| Indicate any change to the following: | | 196 | 204 | bkg | 206 | 207 | 208 | 238 | 248 | 254 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Precambrian** | Count time (secs): | 2 ✓ | 10 ✓ | 10 ✓ | 60 ~~10~~ | ~~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 = 0.040 amu  Dead-time = 32 nanosecs

actual 196-204 = 8.169  actual 204-bkg = 0.044  expected resolution = >4200

actual 206-207 = 1.000  actual 206-208 = 2.000  actual resolution = 4885

Primary = 4.0 nA  PESABM = 62 pA  actual Primary : PESABM (≈ 50:1) = .....

Raster time (mins): 1  Raster aperture (microns): 120  No. of scans: 7

Sensitivity = 15

Comments: Retardation lens in use.

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 k cps | 206 cps | U ppm | $^{204}$Pb ppb | $f_{206}$ % | Age ±1σ (Ma) 206/238 | Age ±1σ (Ma) 207/206 | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | sl.2-1 | 11:46 | 5.62 | 23.5 | 1901 | – | 0.9 | .02 | – | 520 | 208 |
| | sl.2-2 | 12:11 | 5.71 | 21.1 | 1813 | 225 | 0.4 | .00 | 564 | 603 | 208 |
| | A.13-1 | 12:48 | 5.86 | 21.8 | 0.2 | 31 | 0.1 | 64 | 0.1 ± 0.1 | — | 208 |
| | A.10-1 | 13:17 | 5.90 | 24.9 | 0.6 | 82 | 0.4 | 44 | 0.2 ± 0 | — | 208 |
| | A.17-1 | 14:04 | 5.68 | 25.2 | 0.3 | 41 | -ve | – | 0.4 ± 0 | — | — |
| | Sl.2-2 | 14:48 | 5.60 | 25.8 | 2103 | 225 | 0.0 | – | 572 ± 1 | 532 ± 4 | — |
| High-U 500ppm CORE → | A.20-1 | 15:10 | 5.79 | 24.3 | 3.1 | 496 | 0.4 | 14 | 0.3 ± 0 | | 208 |
| | A.20-2 | 15:35 | 5.57 | 25.8 | 0.5 | 81 | 0.6 | 59 | 0.2 ± 0 | — | 208 |
| High-U CORE → | A.19-1 | 16:08 | 5.99 | 20.9 | 7.2 | 280 | 3.6 | 60 | 0.6 ± 0.1 | — | 207 |
| | A.19-2 | 16:32 | 5.55 | 23.8 | 3.3 | 296 | 1.4 | 33 | 0.5 ± 0 | — | 207 |
| | Sl.2-4 | 17:14 | 5.86 | 24.0 | 2260 | 220 | 0.2 | .01 | 574 ± 1 | | 207 |

UWA 97-30

**Mount/sample No:** 1063 **Date:** ..... **Page No:** .....

| | Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 cps | 206 cps | U ppm | $^{204}$Pb ppb | $f_{206}$ % | Age ±1σ (Ma) 206/238 | 207/206 | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CORE | ~~A.4-1~~ | A.4-1 | 17:40 | 6.03 | 24.5 | 3.3 | 362 | 0.3 ~~5.94~~ | 13 | 0.4±0 | — | 208 |
| RIM | ~~A.4-2~~ | A.4-2 | 18:06 | 5.72 | 25.8 | 0.5 | 76 | 0.4 ~~1.1~~ | 6 | 0.4±0 | — | 207 |
| CORE | | A.15-1 | 18:38 | 5.82 | 24.6 | 0.9 | 139 | 0.4 | 3 | 0.4±0 | — | 207 |
| RIM | | A.15-2 | 19:02 | 5.85 | 26.0 | 1.3 | 213 | 0.0 | 18 | 0.3±0 | — | 208 |
| | | SI.2-5 | 19:33 | 5.60 | 26.0 | 2233 | 234 | 0.9 | .07 | 576±1 | | 207 |
| | | A.8-1 | 20:01 | 5.55 | 24.8 | 0.4 | 68 | 0.3 | 27 | 0.3±0.1 | — | 207 |
| CORE | | A.11-1 | 20:32 | 5.57 | 26.9 | 0.8 | 107 | 0.5 | 36 | 0.3±0.0 | — | 208 |
| RIM. | | A.11-2 | 20:57 | 5.75 | 25.9 | 1.5 | 59 | 0.3 | 26 | 1.1±0.2 | | 207 |
| | | A.9-1 | 21:27 | 5.20 | 23.5 | 0.5 | 128 | 0.8 | 36 | 0.2±0 | — | 208 |
| | | SI.2-6 | 21:56 | 5.56 | 26.5 | 2229 | 235 | 0.8 | .06 | 577±1 | — | 207 |
| | | A.12-1 | 22:25 | 5.81 | 24.4 | 2.8 | 510 | -ve | — | 0.3±0 | — | — |
| CORE | | A.23-1 | 22:56 | 4.61 | 19.8 | 0.5 | 180 | 0.0 | — | 0.6±0 | — | — |
| RIM | | A.23-2 | 23:22 | 4.57 | 17.9 | 0.6 | 357 | 1.6 | 20 | 0.3±0 | — | 208 |
| | | A.21-1 | 0:01 | 5.71 | 25.2 | 0.9 | 164 | 0.1 | 25 | 0.3±0 | — | 208 |
| 97-30 ↑ | | SI.4-1 | 0:31 | 5.92 | 26.6 | 2384 | 206 | 0.0 | — | 561±1 | 599±22 | — |
| | | A.25-1 | 0:58 | 5.64 | 25.9 | 1.8 | 375 | 0.2 | 9 | 0.3±0 | — | 208 |
| 97-26 ↓ | | SI.2-1 | 1:39 | 5.78 | 24.7 | 2238 | 219 | 0.1 | .01 | 582±1 | 643 | 204 |
| | CAL → | SI.2-2 | 2:04 | 5.59 | 25.8 | 2138 | 220 | 0.3 | .03 | 572 (CAL) | 607 | 208 |
| | | C.9-1 | 2:30 | 5.68 | 25.1 | 1.3 | 208 | 0.1 | 18 | 0.3±0 | — | 208 |
| | | C-14-1 | 2:59 | 5.45 | 24.2 | 1.1 | 202 | 0.2 | 10 | 0.4±0 | — | 208 |
| | | C-14-2 | 3:23 | 5.95 | 23.9 | 1.2 | 71 | 0.4 | 61 | 0.4±0 | — | 208 |
| increasing 206 counts → | | C.11-1 | 3:50 | 5.77 | 24.1 | 4.6 | 249 | 1.2 | 35 | 0.7±0 | — | 208 |
| | | SI.2-3 | 4:16 | 5.84 | 22.9 | 2082 | 211 | 0.1 | .01 | 561±1 | — | 207 |
| | | C-4-1 | 4:48 | 5.87 | 24.5 | 0.7 | 61 | 0.1 | 51 | 0.3±0.1 | — | 208 |
| | | C.17-1 | 5:17 | 5.64 | 24.7 | 0.5 | 104 | -ve | — | 0.3±0 | | — |

**Mount/sample No:** ..... **Date:** ..... **Page No:** .....

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 cps | 206 cps | U ppm | $^{204}Pb$ ppb | $f_{206}$ % | Age ±1σ (Ma) 206/238 | 207/206 | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | c.18-1 | 5:42 | 5.90 | 24.4 | 0.9 | 149 | 0.0 | — | 0.3±0 | — | — |
| | c.10-1 | 6:09 | 5.75 | 23.1 | 0.5 | 96 | 0.5 | 30 | 0.2±0 | — | 208 |
| | S1.2-4 | 6:35 | 5.88 | 22.3 | 2059 | 211 | -ve | — | 558±1 | 496±25 | — |