

apple + option + P + R

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 15/5/98 UWA Mount No.: 98-11 Whose sample?: FB Operator(s): McW + FB

Indicate any change to the following:

| | 196 | 204 | bkg | 206 | 207 | 208 | 238 | 248 | 254 |
|--------------|----------------------|-----|-----|-----|--------|-----|-----|-----|-----|
| Precambrian | Count time (secs): 2 | 10 | 10 | 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 = 8.165 actual 204-bkg = 0.045 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 3427

Primary = 2.1 nA PESABM = 2.5 pA actual Primary : PESABM (≈ 50:1) =

Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 6

Comments:

* 207 for 1st 2 analyses was 30 secs; thereafter 10secs!!
 (change cts by "÷3" + change count time for 1st two analyses)
 Knill will look after it!

| 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 -Corr. |
|---------------------|---------------|-----------------|------|----------|---------|-------|-----------|--------|------------------------------|---------------------------------|
| | sl. 1-1 | 16:56 | 6.68 | 8.4 | 818 | 220 | -3.1 | / | 572 ± 1 459 ± 25 | 8.165 .045 1.000 2.000 |
| * → | sl. 1-2 | 17:30 | 6.79 | 7.7 | 770 | 220 | -0.4 | / | 552 ± 1 515 ± 25 | -11- |
| | B. 1-1 | 17:30 | 6.57 | 8.2 | 271 | 121 | -0.9 | - | 374 ± 1 364 ± 75 | -11- |
| | B. 2-1 | 17:46 | 6.52 | 8.1 | 369 | 176 | 2.4 | .06 | 360 ± 1 318 ± 66 | -11- |
| | sl. 1-3 | 18:05 | 6.53 | 8.2 | 763 | 232 | 0.0 | - | 552 ± 1 515 ± 93 | -11- |
| | B. 4-1 | 18:21 | 6.81 | 7.9 | 199 | 827 | -0.1 | - | 374 ± 1 513 ± 82 | -11- |
| | B. 3-1 | 18:37 | 6.76 | 7.3 | 155 | 77.4 | 0.0 | - | 343 ± 1 412 ± 97 | -11- |
| | sl. 1-4 | 18:52 | 6.26 | 8.9 | 726 | 230 | 4.1 | .01 | 555 ± 1 595 ± 43 | -11- |
| (CORE) | B. 5-1 | 19:08 | 6.41 | 7.3 | 140 | 74.2 | -0.5 | - | 382 ± 1 385 ± 103 | -11- |
| (RIM) | B. 5-2 | 19:23 | 6.87 | 7.8 | 732 | 291 | 1.2 | .12 | 386 ± 1 232 ± 49 | -11- |
| PD 1 ✓ | sl. 1-5 | 19:39 | 6.98 | 7.5 | 836 | 217 | 0.3 | .003 | 579 ± 2 524 ± 41 | -11- |

| Rejection over-ride | Sample/Std ID | Time - printout | UO/U | 196 cps | 206 cps | U ppm | 204Pb ppb | f206 % | Age ±1σ (Ma) | 206/238 | 207/206 | 204-196 Corr: 207-206 208-206 |
|---------------------|---------------|-----------------|------|---------|---------|-------|-----------|--------|--------------|-----------|---------|-------------------------------|
| | B.6-1 → | 19:56 | 6.52 | 7.7 | 69.6 | 362 | -0.6 | .10 | 351 ± 2 | 515 ± 137 | 8.165 | 1.000 2.000 |
| | B.7-1 → | 20:12 | 6.68 | 7.6 | 409 | 185 | 2.3 | .02 | 380 ± 1 | 363 ± 62 | -11- | |
| 2 suspect → | sl.1-6 → | 20:27 | 6.43 | 7.1 | 572 | 229 | 2.7 | .25 | 514 ± 1 | 575 ± 48 | -11- | |
| | B.8-1 | 20:43 | 6.30 | 6.9 | 470 | 164 | 1.2 | .19 | 416 ± 1 | 371 ± 57 | -11- | |
| | B.76-1 | 20:59 | 6.61 | 6.4 | 145 | 76.5 | 0.1 | .24 | 396 ± 2 | 519 ± 96 | -11- | |
| | B.76-2 | 21:15 | 6.67 | 7.1 | 251 | 126 | 1.2 | .28 | 369 ± 1 | 415 ± 71 | -11- | |
| | sl.1-7 → | 21:31 | 6.49 | 7.5 | 673 | 225 | 1.1 | .01 | 556 ± 1 | 509 ± 46 | -11- | |
| | B.9-1 | 21:47 | 6.68 | 6.6 | 117 | 66.6 | 2.9 | .46 | 346 ± 1 | 309 ± 116 | -11- | |
| RIM | B.10-1 | 22:03 | 6.74 | 6.6 | 273 | 138 | 1.4 | .31 | 382 ± 1 | 344 ± 76 | -11- | |
| CORE | B.10-2 | 22:21 | 6.75 | 8.2 | 352 | 148 | 0.3 | .11 | 368 ± 1 | 405 ± 65 | -11- | |
| | sl.1-8 | 22:37 | 6.18 | 8.9 | 769 | 243 | 1.7 | .03 | 582 ± 1 | 742 ± 40 | -11- | |
| PD 2 RIM | B.10-3 | 22:53 | 6.66 | 8.4 | 146 | 61.3 | -0.7 | - | 371 ± 1 | 167 ± 109 | -11- | |
| | B.11-1 | 23:11 | 6.73 | 7.8 | 246 | 97.8 | 1.1 | .31 | 409 ± 1 | 357 ± 79 | -11- | |
| | B.12-1 | 23:27 | 6.47 | 8.0 | 141 | 65.8 | 3.9 | .41 | 385 ± 1 | 528 ± 97 | -11- | |
| PD 3 | sl.1-9 | 23:43 | 6.67 | 7.9 | 744 | 221 | 0.2 | .03 | 553 ± 1 | 594 ± 42 | -11- | |
| | B.13-1 | 00:00 | 6.84 | 7.0 | 204 | 95.7 | 1.5 | .48 | 368 ± 1 | 425 ± 85 | -11- | |
| | B.14-1 | 00:17 | 6.96 | 7.0 | 100 | 31 | 1.5 | .32 | 521 ± 3 | 573 ± 113 | -11- | |
| | B.18-1 | 00:34 | 6.93 | 6.4 | 868 | 413 | 3.6 | 0.07 | 383 ± 1 | 364 ± 43 | -11- | |
| | sl.2-1 | 00:49 | 7.1 | 7.0 | 794 | 203 | 1.4 | - | 603 ± 2 | 578 ± 41 | -11- | |
| | B.20-1 | 01:06 | 6.5 | 5.7 | 187 | 129 | 1.5 | .23 | 356 ± 1 | 420 ± 88 | -11- | |
| | B.77-1 | 01:22 | 7.16 | 5.7 | 213 | 103 | 6.2 | 1.7 | 381 ± 1 | 670 ± 75 | -11- | |
| | B.22-1 | 01:37 | 6.65 | 6.2 | 72.4 | 43.5 | 0.9 | .64 | 358 ± 2 | 492 ± 135 | -11- | |
| | sl.2-2 | 01:55 | 7.11 | 6.4 | 729 | 208 | 0.6 | .06 | 587 ± 2 | 628 ± 42 | -11- | |
| PD 4 | B.23-1 | 02:12 | 6.77 | 6.6 | 252 | 123 | 0.9 | .01 | 387 ± 1 | 396 ± 77 | -11- | |
| lost 1° mount. | B.27-1 | 02:56 | 6.50 | 6.3 | 207 | 131 | 1.0 | .24 | 358 ± 1 | 471 ± 82 | -11- | |

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U cps | 196 cps | 206 cps | U ppm | 204Pb ppb | f206 % | Age ±1σ (Ma) 206/238 | Age ±1σ (Ma) 207/206 | 204-196 Corr. 207-206 208-206 |
|---------------------|----------------|-----------------|----------|---------|---------|-------|-----------|--------|----------------------|----------------------|-------------------------------|
| | B. 78-1 | 2.29 | 4.73 | 14.0 | 457 | 81.9 | 2.7 | .35 | 390 ± 1 | 396 ± 123 | 8.165 1.000 2.000 |
| | sl. 2-3 | 03.11 | 6.75 | 7.2 | 714 | 220 | 1.9 | .16 | 562 ± 2 | 678 ± 92 | -11- |
| RIM | B. 29-1 | 03.26 | 6.87 | 7.1 | 245 | 110 | 0.7 | .01 | 374 ± 1 | 358 ± 79 | -11- |
| CORE | B. 29-2 | 03.42 | 6.68 | 7.3 | 146 | 70.0 | 0.3 | .65 | 375 ± 1 | 624 ± 92 | -11- |
| CORE | B. 33-1 | 03.57 | 6.73 | 6.4 | 158 | 82.4 | -1.0 | - | 377 ± 1 | 423 ± 96 | -11- |
| | sl. 2-4 | 04:14 | 6.47 | 7.62 | 679 | 221 | 0.4 | .05 | 574 ± 2 | 567 ± 45 | -11- |
| RIM | B. 33-2 | 04:30 | 6.35 | 6.50 | 769 | 468 | 2.8 | .16 | 385 ± 1 | 516 ± 43 | -11- |
| | B. 36-1 | 04:45 | 6.67 | 7.05 | 203 | 99.4 | -1.7 | - | 381 ± 1 | 507 ± 82 | -11- |
| | B. 39-1 | 05:01 | 6.63 | 6.68 | 329 | 183 | 0.0 | - | 361 ± 1 | 307 ± 70 | -11- |
| | sl. 2-5 | 05:16 | 6.98 | 6.69 | 728 | 210 | 2.1 | - | 603 ± 2 | 542 ± 43 | -11- |
| | B. 41-1 | 05.33 | 6.71 | 5.26 | 142 | 105 | 0.8 | .11 | 332 ± 1 | 72 ± 115 | -11- |
| | B. 42-1 | 05.50 | 6.52 | 6.51 | 214 | 119 | 0.8 | .02 | 389 ± 1 | 522 ± 80 | -11- |
| | B. 44-1 | 06:05 | 6.97 | 186.3 | 180 | 91.9 | 1.4 | .16 | 364 ± 1 | 158 ± 99 | -11- |
| | sl. 2-6 | 06:21 | 6.70 | 6.56 | 668 | 216 | -3.3 | - | 600 ± 2 | 604 ± 44 | -11- |
| | B. 47-1 | 06:38 | 7.12 | 5.99 | 292 | 129 | 0.8 | .12 | 409 ± 1 | 379 ± 72 | -11- |
| | B. 49-1 | 06:54 | 6.94 | 5.4 | 457 | 270 | -0.6 | - | 366 ± 1 | 232 ± 61 | -11- |
| | B. 51-1 | 07:09 | 6.86 | 5.9 | 186 | 94.6 | 1.3 | .11 | 396 ± 1 | 477 ± 87 | -11- |
| | sl. 4-1 | 07:24 | 6.81 | 6.0 | 657 | 224 | 0.4 | .04 | 586 ± 2 | 705 ± 43 | -11- |
| CORE | B. 53-1 | 07.41 | 6.85 | 5.8 | 156 | 73.5 | 1.1 | .50 | 442 ± 2 | 484 ± 95 | -11- |
| RIM | B. 53-2 | 07:56 | 6.89 | 5.7 | 826 | 425 | 3.8 | .25 | 409 ± 1 | 304 ± 45 | -11- |
| CORE | B. 55-1 | 08:11 | 6.87 | 6.0 | 194 | 72.2 | 2.1 | .35 | 532 ± 3 | 619 ± 80 | -11- |
| | sl. 4-2 | 08:26 | 7.10 | 5.74 | 674 | 211 | 2.5 | .02 | 600 ± 2 | 606 ± 44 | -11- |
| RIM | B. 55-2 | 08.41 | 6.76 | 6.07 | 758 | 405 | 0.0 | - | 390 ± 1 | 432 ± 44 | -11- |
| | B. 75-1 | 08:56 | 6.94 | 5.5 | 175 | 97.1 | -1.8 | - | 383 ± 1 | 324 ± 94 | -11- |
| | sl. 4-3 | 09:11 | 6.91 | 5.66 | 586 | 219 | -1.0 | - | 553 ± 2 | 611 ± 47 | -11- |

lost 10 completely...
"Primary 2.42 ppm"

PD 5 CORE ✓

PD 6