

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 4/4/96 UWA Mount No.: 96-02 Whose sample?: A. Ross Operator(s): IF + AR
 +

| 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 | 5 | 5 | 2 |
| | Delay time (secs): | 7 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 2 |
| Phanerozoic | Count time (secs): | 2 | 10 | 10 | 10 | 10 | 10 | 5 | 5 | 2 |
| | Delay time (secs): | 7 | 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 = 8.167 actual 204-bkg = 0.040 expected resolution = >4200
 Primary = 2.9 nA PESABM = 44 pA actual resolution = 4885
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 66

Comments:

All stds
 $n=7$
~~Uo/U: 1.92787~~ ~~1.92710~~
~~Uo/U: 6.04652~~ ~~6.05415~~
~~Pb*/U: 0.187177~~ ~~0.186503~~
 $n=8$ 1st dev = 1.30171
 [del 6-#14] unknowns = 16

| 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 | Corr. | |
|---------------------|-------------------------|-----------------|-------|---------|---------|-------|-----------|--------|----------------------|---------|-------|-----|
| | AR | Sl 6-9 | 11:14 | 6.04 | 17.7 | 1661 | 220 | 3.6 | .23 | — | — | 208 |
| | AR | Sl 6-10 | 11:35 | 5.86 | 18.4 | 1657 | 235.2 | 1.9 | .15 | 567 | 597 | 208 |
| AR, NL | <u>adjusted 207/208</u> | u c39-1 | 12:06 | 5.97 | 20.0 | 2836 | 65.7 | 69.3 | 3.0 | 2499 | 2631 | 204 |
| | AR | u c35-2 | 12:35 | 5.63 | 18.5 | 1879 | 62.7 | 32.7 | 1.6 | 2357.3 | 2646 | 204 |
| | AR, NL | Sl 6-11 | 12:57 | 5.99 | 18.2 | 1728 | 225 | 2.6 | .11 | 579 | 615 | 208 |
| | AR | u c36-2 | 13:15 | 5.79 | 17.4 | 6073 | 165 | 0.7 | .01 | 2739 | 2671 | 204 |
| | AR | u c32-2 | 13:38 | 5.91 | 18.1 | 2654 | 642 | 25.9 | 1.04 | 2732 | 2678 | 204 |
| | AR | y c34-2 | 14:02 | 6.00 | 17.6 | 2093 | 51.3 | 1.1 | .06 | 2669 | 2692 | 204 |
| | AR, NL | Sl 6-12 | 14:24 | 5.98 | 17.3 | 1737 | 237 | 1.6 | .06 | 582 | 587 | 208 |
| | AR, NL | u c23-3 | 14:51 | 5.97 | 17.7 | 2425 | 60 | 2.3 | .10 | 2687 | 2688 | 204 |
| | AR | u c22-2 | 15:13 | 5.70 | 18.1 | 861 | 24 | 0.3 | .03 | 2723 | 2668 | 204 |

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 Corr.

| 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 | Corr. |
|---------------------------|--------------------------|-----------------|-----------|---------|---------|--------|-----------|--------|------------------------------|-------|
| X | u C25-3 | — | abandoned | | | ↑ F206 | — | | | |
| AR | u C7-2 | 16:44 | 5.98 | 18.3 | 4662 | 115 | 28.9 | .65 | 2585 2579 ⁺⁷ | 204 |
| NL, AR | s1 6-13 | 16:03 | 6.26 | 16.9 | 1709 | 208 | 4.1 | .17 | 578 575 | 208 |
| AR | u C4-2 | 16:27 | 6.26 | 17.3 | 2039 | 44 | 1.6 | .10 | 2698.9 2634.1 | 204 |
| AR | u C4-3 C4-3 | 16:53 | 5.86 | 15.7 | 2632 | 83 | 7.6 | .26 | 2551 2665 | 204 |
| X | u C5-2 | — | abandoned | | | ↑ F206 | — | | | |
| AR | u C1-2 | 17:28 | 6.06 | 18.2 | 2348 | 68 | 3.2 | .13 | 2580 2692 | 204 |
| AR | u C3-2 | 17:49 | 6.04 | 16.5 | 4903 | 117 | 35 | .75 | 2810 2662 | 204 |
| Delete? -spiky! AR, NL | s1 6-14 | 18:10 | 5.89 | 17.3 | 1710 | 234 | 1.1 | .02 | 611 609 | 208 |
| AR | u C17-2 | 18:36 | 6.25 | 16.5 | 1516 | 33.6 | 1.3 | .10 | 2744 2688 | 204 |
| spiky! NL | u C 38-1 40 | 19:04 | 5.72 | 15.4 | 2783 | 93 | 9.4 | .27 | 2659 2697 | 204 |
| NL, AR | s1 3-4 | 19:27 | 6.09 | 17.2 | 1665 | 219 | 2.5 | .21 | 574 628 ⁵²² | 208 |
| AR | u C 41-1 | 19:50 | 6.30 | 17.3 | 1782 | 37.5 | 0.9 | .06 | 2690 2666 ¹⁸ | 204 |
| AR | u C 22-3 22-3 | 20:15 | 5.49 | 17.1 | 553 | 17.5 | 0- | - | 2868 2718 ¹⁴ | 204 |
| AR, NL | s1 3-5 | 20:37 | 6.14 | 16.3 | 1618 | 219 | 2.8 | .23 | 572 533 | 204 |