

UWA DATA LOG: SHRIMP ZIRCON U-Pb

| Date | UWA Mount No. | Whose sample? | Operator(s) | | | | | | | |
|---------------------------------------|--------------------|---------------|-------------|-----|-----|-----|-----|-----|-----|-----|
| 10/12/95 | 95-30 | A. Ross | 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 |

From 9/12/95 }
 expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.168 actual 204-bkg = 0.045 expected resolution = >4200
 Primary = 2.3 nA PESABM = 39 pA actual resolution = 4590
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 60

Comments:

Set 1 Set 2
 S12-8 - S12-10 incl. S12-10-end
 Zr/U: 1.92657 Zr/U: 1.99494
 Uo/U: 6.76988 Uo/U: 6.78783
 Pb*/U: 0.241292 Pb*/U: 0.251264
 No Std = 3 No Std.
 1st dev. 1.6424% 1st dev = 1.4220%

NL = non linearity }
 AR = all restand } Prawn

| Rejection over-ride | Sample/Std ID | Time - printout | UO/U | 196 Kcps | 206 cps | U ppm | 204Pb ppb | f206 % | Age ±1σ (Ma) | | Corr. | |
|---------------------|-------------------|---------------------------------------|------|------------------|---------|-------|-----------|--------|--------------|---------|-------|--------------|
| | | | | | | | | | 206/238 | 207/206 | | |
| | S12-8 → NL, AR | 2:41 | 6.87 | 15.8 | 2000 | — | 0.7 | 0.10 | — | 593.1 | 208 | |
| | S12-9 → AR | 3:03 | 6.64 | 16.4 | 2005 | 231 | 1.9 | 0.08 | 583 | 535 | 208 | |
| | X U2-2 | — abandoned T204, U, V | | ————— | | | | | | | | X |
| | AR U1-4 | 3:39 | 6.96 | 15.6 | 1499 | 28 | 1.4 | 0.12 | 2692 | 2673 | 204 | |
| | AR U6-4 | 4:04 | 6.63 | 16.2 | 1743 | 35 | 22 | 1.6 | 2781 | 2676 | 204 | |
| | AR U3-3 | 4:27 | 6.79 | 15.7 | 1071 | 21.4 | 5.2 | 0.62 | 2746 | 2668 | 204 | |
| | NL, AR S12-10 | 4:50 | 6.74 | 15.4 | 1998 | 229 | 1.8 | 0.16 | 593 | 526 | 208 | |
| | AR U7-4 | 5:16 | 6.64 | 15.7 | 2708 | 57.6 | 16.1 | 0.72 | 2747 | 2658 | 204 | |
| | AR U4-3 | 5:39 | 6.83 | 16.5 | 2423 | 46.5 | 1.0 | 0.06 | 2691 | 2680 | 204 | |
| | X U2-3 | — abandoned T204, and U, V | | ————— | | | | | | | | X |
| | AR U5-2 | 6:13 | 6.96 | 15.5 | 2338 | 44.8 | 3.7 | 0.21 | 2703 | 2677 | 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. |
|------------------------------------|--------------------------------------|-----------------|------|---------|---------|-------|-----------|--------|----------------------|---------|-------|
| AR | u18-3 | 6:40 | 6.99 | 15.6 | 1306 | 24.1 | 6.6 | 0.70 | 2739 | 2680 | 204 |
| CHANGE OF POPULATION: 1 grain only | | | | | | | | | | | |
| TRACHYTE: AL 1 grain | u530 AI-3 | 7:04 | 6.61 | 16.6 | 3554 | 75.3 | 1.7 | 0.06 | 2695 | 2691 | 204 |
| AR | S12-11 | 7:26 | 6.74 | 15.3 | 1952 | 219.7 | 3.9 | 00.20 | 609 | 540 | 208 |
| X | u15-2 | | | | | | | | | | X |
| AL - Scan 1 ug removed | u13-3 | 7:59 | 6.71 | 15.3 | 1435 | 29.7 | 2.0 | 0.17 | 2803 | 2680 | 204 |
| AR | u14-2 | 8:22 | 6.68 | 16.2 | 1706 | 32.4 | 61.1 | 4.5 | 2802 | 2626 | 204 |
| AR, NL | S11-6 | 8:45 | 6.71 | 14.8 | 1810 | 209 | 4.7 | 0.19 | 619 | 539 | 208 |
| AR, NL - weird data | u18-2 | 9:10 | 7.14 | 14.6 | 10982 | 199 | 393 | 0.50 | 2791 | 2647 | 204 |
| | S11-7 u25-2 | | | | | | | | | | |
| Kicked off after Raster! | | | | | | | | | | | |

TRACHYTE USING S12-10, u530 AI-3, S12-11, S11-6

Zr/U: 1.99494
Uo/U: 6.78783
Pb*U: 0.251264
Std N=3

1.4220% = 1 std dev