

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: **10/8/95** UWA Mount No.: **95-4** Whose sample?: **L. WANG (Archaean)** Operator(s): **MCN + LW.**

| 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 = **8.164** actual 204-bkg = **0.040** expected resolution = >4200
 Primary = **1.9** nA PESABM = **39** pA actual resolution = **4678**
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = **49**

Comments: **Zr/U: 1.82301**
Uo/U: 5.94977
Pb/U: 0.190701
n=11 1 std. dev. 1.98

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 cps | 206 cps | U ppm | 204Pb ppb | f ₂₀₆ % | Age ±1σ (Ma) 206/238 207/206 | Corr. |
|---------------------|---------------------|-----------------|--------------|--------------|-----------------------------|-------------|-------------|--------------------|-------------------------------|------------|
| | std 5-3 | 12:10 | 5.740 | 16.0K | 1547 1547 | 220* | 3.0 | .22 | 571 ± 1 557 ± 19 | 208 |
| | std 5-4 | 12:31 | 5.899 | 15.2K | 1607 | 218 | 3.3 | .23 | 575 ± 1 582 ± 18 | 208 |
| AL | UNK 8-3 | 12:53 | 5.915 | 15.3K | 2447 | 57 | 4.7 | .21 | 2754 ± 10 2781 ± 8 | 204 |
| | std 5-5 | 13:15 | 5.869 | 15.1K | 1587 | 220* | 2.1 | .21 | 571 ± 1 561 ± 18 | 208 |
| AL | UNK 14-1 | 13:37 | 5.878 | 15.3K | 1148 | 25 | 3.7 | .34 | 2910 ± 18 2885 ± 12 | 204 |
| AL | UNK 14-2 | 13:58 | 6.002 | 14.4K | 4.5K | 165 | 321 | 7.72 | 1775 ± 5 2716 ± 17 | 204 |
| AL | UNK 14-3 | 14:20 | 5.653 | 15.4K | 1527 | 39 | 2.5 | .15 | 2866 ± 13 2889 ± 9 | 204 |
| | std 5-6 | 14:42 | 5.858 | 15.2K | 1552 | 216 | 2.8 | .26 | 566 ± 1 546 ± 19 | 208 |
| AL | UNK 15-1 | 15:04 | 6.061 | 14.5K | 4.8K | 142 | 230 | 5.38 | 2098 ± 6 2749 ± 13 | 204 |
| AL | UNK 16-1 | 15:26 | 6.335 | 14.1K | 5.1K | 145 | 458 | 11.4 | 1852 ± 6 2753 ± 20 | 204 |
| AL | UNK 16-2 | 15:48 | 5.673 | 9.8K | 2700 | 121 | 49.9 | 1.13 | 2584 ± 9 2720 ± 10 | 204 |

95-4D = ✓ RE80

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.

| | | | | | | | | | | | |
|---------------------|---------|------|-------|-------|------|-----|-----|------|---------|---------|-----|
| | Std4-5 | 3:13 | 5.955 | 12.4K | 1348 | 207 | 2.0 | 0.15 | 593±1 | 543±20 | 208 |
| | UNK19-1 | 3:43 | 6.540 | 12.2K | 2982 | 69 | 3.2 | 0.13 | 2527±8 | 2719±7 | 204 |
| | UNK20-1 | 4:07 | 5.973 | 11.3K | 1890 | 49 | 4.9 | 0.29 | 2512±12 | 2730±11 | 204 |
| Delete low count. → | UNK21-1 | 4:40 | 4.614 | 5.0K | | | | | | | |
| | UNK22-1 | 5:04 | 6.197 | 12.4K | 1599 | 41 | 5.5 | 0.35 | 2667±12 | 2746±10 | 204 |
| | UNK23-1 | 5:26 | 6.335 | 11.5K | 2586 | 66 | 8.2 | 0.32 | 2654±10 | 2749±8 | 204 |
| | Std4-6 | 5:49 | 6.069 | 12.7K | 1397 | 208 | 3.5 | 0.27 | 564±1 | 587±20 | 208 |
| | UNK24-1 | 6:12 | 6.195 | 13.1K | 3770 | 88 | 8.0 | 0.27 | 2742±8 | 2757±6 | 204 |
| | UNK25-1 | 6:34 | 5.972 | 14K | 1379 | 83 | 1.2 | 0.09 | 2779±13 | 2767±10 | 204 |
| | UNK26-1 | 6:55 | 6.069 | 13.5K | 2614 | 64 | 0.9 | 0.03 | 2724±10 | 2756±7 | 204 |
| | UNK27-1 | 7:17 | 5.921 | 14.2K | 3662 | 90 | 2.6 | 0.07 | 2766±8 | 2757±6 | 204 |
| | Std4-7 | 7:41 | 5.882 | 13.9K | 1427 | 210 | 5.8 | 0.3 | 574±1 | 600±20 | 208 |
| | UNK11-1 | 8:16 | 5.972 | 14K | 3011 | 74 | 2.7 | 0.09 | 2746±9 | 2745±7 | 204 |
| | UNK12-1 | 8:39 | 6.866 | 12K | 2175 | 87 | 9.3 | 5.9 | 1329±5 | 2793±20 | 204 |
| | UNK13-1 | 9:01 | 5.837 | 14K | 2598 | 66 | 3.7 | 0.13 | 2799±10 | 2693±8 | 204 |
| | UNK14-1 | 9:24 | 6.073 | 12.9K | 1497 | 37 | 2.5 | 0.16 | 2800±14 | 2756±13 | 204 |

Delete low count. →

From 4C. 11-1 ↓