

TITANITE → follows from 99-24

UWA SHRIMP DATA LOG

Date: 18/1/00 UWA Mount No.: 99-71 Whose sample?: McN Operator(s): McN + AR

Indicate any change to the following: ²⁰⁰196 204 bkg 206 207 208 ~~208~~ 248 254 270
 Precambrian Count time (secs): 2 10 10 10/20 30/10 10 5 5 2
 Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 4 2

Steel: Wein volts / nA = 660/9.4 for O⁻; = 440/0.9 for O₂⁻; = 350/2.2 for NO⁻

dead-time = 3.2 nanosecs expected resolution = >4200 actual resolution = 4774

aperture = 2 microns retardation lens = 0 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: ²⁰⁰⁻²⁰⁴196-204 = 4.138 204-bkg = 0.045 204-206 = 2.002

206-207 = 1.0005 206-208 = 2.001

Primary-epoxy = 1.8 nA Primary ^{Khan} ~~CZ3~~ = 2.5 nA PESABM ^{Khan} ~~CZ3~~ = 98 pA

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Using No-
beam

Comments: Used Khan std for 99-24

| Rejection over-ride | Sample/ Std ID | Time - printout | U ²⁰⁰ U ¹⁹⁶ cps | 206 cps | U ²⁰² ppm | 204Pb ppb | f ²⁰⁶ % | Age ±1σ (Ma) 206/208 | 207/206 | Offsets OK? |
|---------------------|----------------|-----------------|---------------------------------------|---------|----------------------|-----------|--------------------|----------------------|---------|-------------|
|---------------------|----------------|-----------------|---------------------------------------|---------|----------------------|-----------|--------------------|----------------------|---------|-------------|

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|---|--|-------|------|------|------|------|-----|-----|-------|------|---|
| | | | * | | | | | * | | | |
| | → standards → standards Kh924# 4-1 to 4-9 are from this mount as 99-24 had no standard left. | | | | | | | | | | |
| | B.1-1 | 22:59 | .659 | 2751 | 2662 | 4657 | 0.9 | .46 | .572 | 2618 | ✓ |
| | B.2-1 | 23:17 | .653 | 2553 | 1786 | 3179 | 0.7 | .52 | .561 | 2640 | ✓ |
| | Kh.4-10 | 23:35 | .668 | 2880 | 847 | 9928 | 0.4 | .69 | .0853 | 462 | ✓ |
| | B.3-1 | 23:52 | .671 | 2906 | 1734 | 3102 | 1.1 | .77 | .559 | 2605 | ✓ |
| B | B.4-1 | 00:09 | .652 | 2678 | 1657 | 2340 | 1.0 | .76 | .564 | 2609 | ✓ |
| A | A.1-1 | 00:31 | .661 | 3069 | 97 | 754 | 0.1 | .08 | .129 | 947 | ✓ |

| Rejection over-ride | Sample/ Std ID | Time - printout | U ₂ /U ₂₃₈ cps | 206 cps | U ₂₃₅ cps | 204Pb ppb | f ₂₀₆ % | Age ±1σ (Ma) 206/238 | 207/206 | Offsets OK? | |
|---------------------|----------------|-----------------|--------------------------------------|---------|----------------------|-----------|--------------------|----------------------|---------|-------------|---|
| | A.2-1 | 00:50 | .665 | 3630 | 241 | 1960 | 0.1 | .54 | .123 | 745 | ✓ |
| | kh4-11 | 1:08 | .677 | 3228 | 976 | 11:3 | 0.6 | .98 | .0858 | 368 | ✓ |
| | kh4-12 | 1:25 | .665 | 3180 | 962 | 11.5 | 0.3 | .40 | .0839 | 543 | ✓ |
| | A.3-1 | 1:48 | .670 | 3629 | 104 | 767 | 0.1 | .65 | .136 | 709 | ✓ |
| | A.4-1 | 2:08 | .667 | 3479 | 103 | 776 | 0.1 | -ve | .133 | 776 | ✓ |
| | A.5-1 | 2:28 | .682 | 3527 | 107 | 837 | 0.1 | -ve | .128 | 879 | ✓ |
| | A.6-1 | 2:53 | .681 | 3806 | 116 | 904 | 0.0 | -ve | .128 | 954 | ✓ |
| | kh4-13 | 3:12 | .634 | 3972 | 884 | 11.1 | 0.4 | .71 | .0793 | 500 | ✓ |
| | A.7-1 | 3:30 | .689 | 3581 | 131 | 1037 | 0.1 | .56 | .126 | 765 | ✓ |
| | A.7-2 | 3:47 | .679 | 3716 | 132 | 1004 | 0.1 | .04 | .131 | 830 | ✓ |
| | A.7-3 | 4:05 | .661 | 3773 | 230 | 1824 | 0.2 | .49 | .126 | 743 | ✓ |
| | A.7-4 | 4:22 | .672 | 3643 | 134 | 1053 | 0.1 | .38 | .127 | 878 | ✓ |
| | kh4-14 | 4:42 | .673 | 2718 | 798 | 9.6 | 0.3 | .49 | .0834 | 617 | ✓ |
| | A.8-1 | 5:03 | .677 | 2646 | 85 | 689 | 0.1 | .30 | .123 | 802 | ✓ |
| | A.9-1 | 5:21 | .673 | 2979 | 116 | 894 | 0.1 | 1.3 | .125 | 568 | ✓ |
| | A.10-1 | 5:41 | .658 | 2953 | 111 | 904 | 0.2 | 3.2 | .123 | 184 | ✓ |
| | A.11-1 | 6:01 | .687 | 3099 | 151 | 1171 | 0.1 | -ve | .129 | 928 | ✓ |
| | kh4-15 | 6:19 | .656 | 2667 | 817 | 9.9 | 0.5 | .83 | .0820 | 415 | ✓ |
| | A.12-1 | 6:41 | .663 | 3064 | 192 | 1410 | 0.1 | -ve | .136 | 859 | ✓ |
| | A.13-1 | 6:59 | .677 | 3077 | 171 | 1326 | 0.2 | 1.3 | .129 | 662 | ✓ |
| | A.14-1 | 7:17 | .687 | 3043 | 204 | 1665 | 0.1 | .32 | .122 | 867 | ✓ |
| | A.15-1 | 7:36 | .669 | 2892 | 183 | 1474 | 0.1 | .10 | .124 | 847 | ✓ |
| | A.16-1 | 8:01 | .654 | 2674 | 109 | 834 | 0.1 | .57 | .131 | 692 | ✓ |
| | kh4-16 | 8:19 | .631 | 2205 | 654 | 854 | 0.4 | 1.1 | .0770 | 330 | ✓ |
| | kh4-17 | 8:36 | .666 | 2702 | 767 | 9.1 | 0.4 | .62 | .0839 | 522 | ✓ |

Fall into during analysis

Fall into

All four mislabelled - abbreviated with kh971 - rather than kh971-

→ computer froze 7:50 pm ←