

7.3 -9  
1.6 -8  
5.0-3 2nd. recal  
2.4-6

UWA SHRIMP DATA LOG

Date: 1/9/99 UWA Mount No.: 99-43 Whose sample?: Bolivia Operator(s): McN + AP

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270

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 2 2

Steel: Wein volts / nA = 38V/3.7 for O<sup>-</sup>; = 46V/3.6 for O<sub>2</sub><sup>-</sup>; = 70V/18.0 for NO<sup>-</sup>

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4585

aperture = ? 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: 196-204 = 8.168 204-bkg = 0.045 204-206 = 1.997  
 206-207 = 1.000 206-208 = 1.999

Primary-epoxy = 3.2 nA Primary-CZ3 = 4.4 nA PESABM-CZ3 = 39 pA

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

Comments: A = 9996 4100 (A39 onwards not imaged) NB: ~~Q~~ usable std v. limited.  
 B = 9996 4016C (B34 onwards not imaged.)

Occasional "mega" spikes, ~~.....~~  
 I<sup>o</sup> v. stable during analysis. Problems with conductivity which explains the ↓ in I<sup>o</sup> for the various analysis.

Rejection Sample/ Time - UO/U 196 206 U 204Pb f206 Age ±1σ (Ma) Offsets  
 over-ride Std ID printout Kcps cps ppm ppb % 206/238 207/206 OK?

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 OK?
[A]											
4.4nA -	sl. 1-1	13:25	5.26	13.6	1126	220	0.7	.06	572 ± 1	564 ± 32	✓
4.4nA -	sl. 2-1	13:44	4.12	9.9	670	547	1.9	.06	650 ± 1	552 ± 54	✓
4.3nA -	943A21	14:03	6.00	16.0	5767	100	7.9	.19	2832 ± 7	2745 ± 5	✓ con
4.3nA -	A. 3-1	14:27	5.85	16.8	10330	225	12.1	.16	2423 ± 4	2663 ± 4	✓
4.2nA -	sl 2-2	14:53	6.24	14.4	1458	151	1.3	.17	556 ± 1	553 ± 36	✓
4.4nA -	A. 6-1	15:14	5.55	15.3	5843	142	6.6	.12	2776 ± 7	2742 ± 5	✓ con.
4.1nA -	A. 14-1	16:08	7.04	14.1	8255	108	9.1	.23	2645 ± 6	2728 ± 4	✓ con. pass Au-coating
4.1nA -	A. 7-1	16:30	5.18	16.7	4680	151	19.9	.37	2549 ± 6	2705 ± 6	✓ - partly off the grain. 2nd. copy.

NOTE: stds are weird!! Ratios strange/different but Age o.k.

\* IAN: change sample no to 39-1

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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 OK?

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 OK?
4.3nA loaded new mount →	sl 2-3	16:48	4.80	12.7	971	286	1.8	.11	603 ± 1	586 ± 34	✓ - Turned off HV
4.0nA	sl 2-4 should be 39-1	17:17	6.03	13.6	1364	166	1.3	.15	563 ± 1	479 ± 37	✓ same grain as sl 2-2
4.0nA	* uA 34-1	17:45	4.46	14.8	1307	99	134	3.9	2420 ± 12	2680 ± 25	✓
4.2nA non-linear	uA 40-1	18:16	5.98	15.8	6095	110	18.2	.41	2795 ± 7	2756 ± 6	✓ con
4.4nA	uA 26-1	18:36	5.71	17.9	1099	21	0.4	.05	2750 ± 15	2761 ± 12	✓ con
4.1nA	uA 41-1	18:53	6.64	14.6	7509	113	6.6	.16	2638 ± 6	2735 ± 4	✓ con
4.2nA	sl 1-3	19:20	4.26	12.1	710	431	10.6	.38	582 ± 1	623 ± 30	✓ same grain as 2-1 (✓)
4.0nA	uA 42-1	19:44	6.54	14.7	6934	103	4.1	.10	2760 ± 6	2756 ± 5	✓ con
4.1nA low con	uA 32-1	20:10	5.98	13.3	5742	129	24.1	.49	2686 ± 6	2737 ± 6	✓ con
4.0nA	uA 31-1	20:27	6.43	14.7	2215	35	1.2	.09	2717 ± 11	2733 ± 8	✓ con
"	uA 33-1	20:46	7.42	12.4	14.6K	183	9.1	.13	2686 ± 4	2719 ± 3	✓ con
3.9nA	uA 35-1	21:03	6.67	12.1	6665	106	10.5	.24	2902 ± 7	2683 ± 5	✓
4.2nA	sl 1-4	21:22	4.33	11.8	707	404	5.1	.24	574 ± 1	496 ± 43	✓ as 2-1
4.1nA	uB 20a-1	21:40	6.20	15.7	20.8K	371	17.5	.13	2576 ± 3	2696 ± 3	✓
4.0nA	uB 20b-1	21:57	7.04	14.5	5389	85	9.4	.37	2214 ± 5	2735 ± 6	✓
"	uB 34-1	22:20	6.47	14.4	4347	69	6.2	.23	2748 ± 8	2737 ± 6	✓ con
4.1nA low con	uB 35-1	22:42	5.57	14.8	5127	130	3.7	.07	2742 ± 7	2782 ± 5	✓ con
"	uB 36-1	23:04	6.38	15.7	5432	89	10.3	.32	2555 ± 6	2719 ± 6	✓
4.2nA loaded	sl 3-1	23:25	5.67	18.1	1429	160	0.2	.08	568 ± 1	604 ± 20	✓
4.2nA	uB 37-1	24:34	5.58	13.3	6018	194	24.7	.38	2430 ± 5	2656 ± 6	✓
4.3nA	uB 38-1	24:51	5.61	17.6	4722	99	16.2	.42	2706 ± 7	2769 ± 6	✓ con
4.2nA	uB 39-1	1:08	6.07	16.7	12.5K	278	22.8	.29	2141 ± 3	2551 ± 4	✓
"	uB 40-1	1:30	6.34	15.6	5244	99	9.6	.13	2329 ± 5	2649 ± 6	✓
"	uB 41-1	1:47	6.41	15.2	13.7K	266	30.3	.38	2251 ± 3	2575 ± 4	✓
4.0nA	sl 3-2	2:07	7.10	13.7	1705	127	0.2	.05	554 ± 1	587 ± 19	✓

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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 OK?

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 OK?
4.0nA	uB.6-1	2:25	6.35	13.9	2410	42	4.4	.27	2714 ± 10	2774 ± 8	✓ con.
4.1nA	uB.42-1	3:04	6.11	13.0	6981	250	9.7	.17	1741 ± 3	2584 ± 5	✓
	uB.43-1	3:20	5.41	14.6	3507	94	26.0	.66	2870 ± 9	2744 ± 8	✓ con?
4.2nA	uB.44-1	3:39	6.45	14.2	18.0K	321	17.8	.16	2525 ± 4	2717 ± 3	✓
4.0nA	uB.28-1	3:56	3.16	4.2	649	?	?	.46	3319 ± 30	2723 ± 17	✓ check values! very precise
4.0nA	SLS-1	4:15	6.37	14.8	1477	141	0.7	.09	552 ± 1	556 ± 31	✓
A 4.1nA	uA.44-1	4:37	5.64	17.5	1113	22	1.5	.17	2770 ± 15	2738 ± 12	✓
4.0nA	uA.45-1	4:55	6.50	15.0	1696	25	2.7	.27	2726 ± 12	2749 ± 10	✓
"	uA.46-1	5:12	6.87	14.0	8727	120	11.4	.25	2697 ± 6	2748 ± 4	✓
4.1nA	uA.47-1	5:29	6.18	16.5	5230	95	40.2	1.23	2431 ± 6	2742 ± 8	✓
"	SLS-2	5:47	4.46	10.5	752	379	3.1	.14	618 ± 1	518 ± 43	✓
"	uA.1-1	6:05	5.83	15.4	10.6K	215	29.1	.34	2780 ± 5	2742 ± 4	✓
"	SLS-3	6:26	4.19	10.4	696	511	-ve	-	623 ± 1	576 ± 27	✓
			GO TO 99-45								