

UWA SHRIMP DATA LOG

Date: 27/10/99 UWA Mount No.: 99-34 Whose sample?: ALSO 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 = ~~32V/13.0~~ for O<sup>-</sup>; = 44V/2.3 for O<sub>2</sub><sup>-</sup>; = 32V/4.4 for NO<sup>-</sup>

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 5090

aperture = 100 microns retardation lens = 7 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 = 8.169 204-bkg = 0.045 204-206 = 2.002

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.1 nA Primary-CZ3 = 2.9 nA PESABM-CZ3 = 28 pA

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

Comments: A = 9996 7055 → 2637 Ma (n=9) = 8 more concord results  
 C = " 9096 A = 11 new results  
 C = 19 results. (58-60 not imaged)

sl 2-1. I<sup>0</sup> much reduced when turned on for this analysis, but I<sup>0</sup> continued to step up <sup>from 2-6</sup> to 7.8 nA

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?

	sl. 1-1	11:58	7.12	10.0	1215	220	1.5	.12	571 ± 1	591 ± 33	✓
	sl. 1-2	12:17	7.00	10.4	1250	224	0.3	0.03	582 ± 1	595 ± 26	✓
	A. 32-1				high	2004					
	A. 36-2										
	sl. 1-3	12:50	6.95	10.0	1198	227	1.0	.08	585 ± 1	638 ± 36	✓
	sl. 1-4	13:07	6.76	10.1	1171	242	3.5	.27	577 ± 1	494 ± 41	✓
	A. 36-1	13:23	6.87	9.7	2200	84.4	1.4	.04	2628 ± 11	2672 ± 8	✓
	A. 45-1				computer - Otec problems						

I<sup>0</sup> dropped to ~2.7 nA  
 I<sup>0</sup> steadily increased during analysis & plateaued

I<sup>0</sup> jumped to 3.0 nA

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

Rejection over-ride	Sample/Std ID	Time - printout	UO/U Kcps	196	206	U	204Pb	f206	Age ±1σ (Ma)	Offsets OK?
				Kcps	cps	ppm	ppb	%	206/238 207/206	
	<del>SI 934J-5</del> A. 46-1	14:43	6.07	6040 <sub>g</sub>	745	220	-ve	.01	572 ± 1 492 ± 29	✓
NEW SETTINGS. [A]	SI 1-6	15:23	6.51	9.9	1096	220	4.4	.09	572 ± 1 580 ± 24	✓
1.0 nA	A. 46-1	15:44	6.61	10.9	1690	51	2.0	.10	2753 ± 13 2644 ± 10	✓ ?
3 nA	A. 46-2	16:02	6.48	11.2	1232	38	-ve	-	2775 ± 15 2652 ± 10	✓ ?
3.2 nA	A. 44-1	16:21	5.88	12.6	2114	83	2.2	.04	2680 ± 11 2654 ± 9	✓ ok.
1.0 nA	SI. 1-7	16:41	6.67	10.9	1248	205	0.6	.06	591 ± 1 544 ± 22	✓
3 nA	A. 43-2	16:59	6.45	11.4	1260	39	0.6	.04	2745 ± 15 2644 ± 11	✓ ok
3.05 nA	A. 42-1	17:18	7.10	10.2	1512	40	-ve	-	2743 ± 14 2643 ± 9	✓ ok
"	A. 40-1	17:36	6.80	10.8	1043	29	1.2	.10	2808 ± 17 2643 ± 13	✓ ?
3.2 nA	A. 36-2	17:56	6.22	11.5	962	33	1.8	.14	2751 ± 17 2633 ± 14	✓ ok.
3.1 nA	SI. 1-8	18:13	6.61	10.8	1260	206	0.9	.03	608 ± 1 590 ± 22	✓
3 nA	A. 50-1	18:32	6.81	10.2	3737	110	2.2	.05	2753 ± 9 2639 ± 6	✓ ok
3.2 nA	A. 60-2	18:54	6.42	11.3	5747	185	4.4	.06	2738 ± 7 2665 ± 5	✓ ok
"	A. 61-1	19:14	6.38	11.6	1370	42	3.6	.21	2796 ± 14 2619 ± 12	✓ ?
3 nA	A. 62-1	19:33	6.76	10.7	1762	51	1.1	.06	2742 ± 13 2657 ± 10	✓ ok alot of Dvtec rins 1 fl.
NB: 1.0 nA maximized @ 2.6 nA - 2.8 nA	SI. 20-1	19:55	7.12	8.0	1216	198	1.2	.11	594 ± 1 575 ± 23	✓
[C]	C. 61-1	20:19	6.81	9.9	1494	45	4.1	.23	2760 ± 14 2650 ± 11	✓ ok?
2.9 nA - 3 nA scan ↑	C. 62-1	20:39	7.07	9.4	1132	32	1.9	.15	2789 ± 17 2638 ± 13	✓ ?
2.9 → 3.1 → 2.9 nA	C. 64-1	20:58	6.72	10.1	824	26	3.2	.32	2710 ± 18 2640 ± 16	✓ ok
3 nA	C. 63-1	21:16	6.68	10.3	1359	43	4.8	.29	2703 ± 14 2665 ± 12	✓ ok
3 nA	SI. 4-1	21:36	6.91	10.1	1304	206	-ve	.04	594 ± 1 584 ± 21	✓
"	C. 60-1	21:54	6.95	10.2	1095	30	2.8	.24	2772 ± 17 2631 ± 16	✓ ?
"	C. 67-1	22:12	6.89	9.9	2642	76	5.5	.18	2807 ± 10 2654 ± 8	✓ ?
"	C. 80a-1	22:31	6.83	10.2	1009	29	4.8	.42	2784 ± 18 2653 ± 15	✓ ?
8"	C. 80b-1	22:50	7.04	10.2	615	17	2.8	.44	2636 ± 21 2640 ± 21	✓ ok

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
3.1nA	sl. 4-2	23:08	6.86	10.5	1322	199	2.1	.06	608 ± 1	531 ± 22	✓
3.0nA	C. 79-1	23:26	6.88	9.9	2843	83	5.8	.18	2774 ± 10	2630 ± 8	✓
3.1nA	C 81-1	23:46	6.40	10.6	485	15	3.7	.57	2996 ± 28	2625 ± 28	✓
2.9nA	C 59-1	24:05	7.09	9.6	1114	30	1.3	.11	2817 ± 17	2635 ± 13	✓
"	C 78-1	24:26	6.75	10.1	919	28	4.3	.39	2730 ± 18	2651 ± 16	✓
"	sl. 11-1	24:46	6.80	10.1	1284	208	0.2	.02	609 ± 1	531 ± 31	✓
"	C 77-1	1:05	7.00	10.3	3307	88	4.6	.05	2786 ± 10	2641 ± 7	✓
" - 3nA	C 83-1	1:24	6.76	10.2	768	22	2.8	.31	2821 ± 20	2655 ± 18	✓
3nA	C 84-1	1:44	6.35	10.1	615	21	2.5	.29	2956 ± 24	2637 ± 21	✓
2.9nA - 3.0nA	C 85-1	2:03	6.82	10.0	774	22	0.0	.002	2832 ± 20	2641 ± 13	✓
3nA - 2.9nA	sl. 11-2	2:24	6.64	10.4	1190	209	0.5	.03	581 ± 1	464 ± 23	✓
2.9nA	C 27-1	2:42	6.74	9.8	4698	146	4.9	.09	2788 ± 8	2649 ± 6	✓
"	C 90-1	3:01	6.56	10.1	797	26	8.1	.80	2808 ± 20	2592 ± 20	✓
"	C 58-1	3:19	6.58	10.6	596	19	2.7	.37	2711 ± 22	2647 ± 21	✓
"	sl. 12-1	3:37	6.60	10.4	1229	211	1.4	.04	609 ± 1	609 ± 22	✓

Scan 3  
124 ThO  
Scan 2/3

x  
?  
ok  
?  
?  
x  
?  
?  
o.k.