

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 11/11/96 UWA Mount No.: 96-02 Whose sample?: MVK Operator(s): McN + MVK

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~~ 10 5 5 2
 Phanerozoic* 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 = 8.163 actual 204-bkg = 0.040 expected resolution = >4200

actual 206-207 = 1.001 actual 206-208 = 1.999 actual resolution = 5200

Primary = 1.6 nA PESABM = pA actual Primary : PESABM (= 50:1) =

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 7

Comments:

- ① Computer problem - taking a long delay between peaks. Problem not resolved; continued (extra ~10 min / a part).
- ② Fixed; next run.

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.
	sl. 1-1	19:17	7.07	6680	910	220	3.6	.30	570 ± 1	594 ± 25	208
	sl. 1-2	19:38	6.62	6821	804	220	5.2	.33	570 ± 1	583 ± 26	208
	A. 56-1	20:00	7.19	6508	6.4k	367	442	4.36	1941 ± 4	2863 ± 10	204
	sl. 1-3	20:22	7.02	6726	925	201	4.5	.33	610 ± 1	604 ± 25	208
	A. 1-1	20:51	6.62	6656	2.97k	111	23.1	.46	3009 ± 11	2922 ± 7	204
	A. 1-3	21:50	6.62	1534	311	116	158.6	2.87	3098 ± 34	2820 ± 56	204
	sl. 1-4	22:23	6.62	4831	⁶¹¹ 222	222	4.8	.34	576 ± 1	552 ± 31	208
	A. 54-1	23:09	6.62	6616	8.9k	716	42	.31	1518 ± 2	2468 ± 5	204
	A. 50-1	23:42	6.62	6714	3.6k	115	9.7	.14	3520 ± 12	3458 ± 5	204
	A. 52-1	00:35	6.62	6625	1.86k	60	13	.35	3518 ± 17	3475 ± 7	204
	sl. 2-1	01:07	6.62	6678	952	194	5.8	.30	599 ± 1	583 ± 24	208

① bad z on 2nd y

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.
	u. 82-1	01:41	6.62	6703	3.67k	106	59	.89	3601 ± 13	3428 ± 6	204
	u. 85-1	02:14	6.62	6504	3.51k	99	14	.22	3727 ± 13	3448 ± 5	204
	u. 25-1	02:45	6.62	6956	6.1k	463	18.4	.175	1741 ± 3	2669 ± 5	204
	u. 84-1	03:17	6.62	6466	2.3k	66	13.4	.32	3656 ± 16	3470 ± 6	204
	u. 57-1	04:16	6.62	7101	2.69	97.5	39.5	.78	3193 ± 12	3213 ± 7	204
	sl. 2-2	04:47	6.62	6494	959	191	4.3	.37	610 ± 1	548 ± 24	208
	u. ⁶⁰ 88-1	05:45	6.62	6550	2.3k	82.6	156.3	3.0	3558 ± 16	3447 ± 9	204
	u. 62-1	06:16	6.62	6485	2.7k	93	60.8	1.09	3445 ± 14	3495 ± 6	204
	u. 87-1	06:47	6.62	6744	3889	128	291	4.04	3338 ± 11	3201 ± 10	204
	u. 15-1	07:29	6.62	6358	2157	68	26.8	.69	3436 ± 15	3248 ± 7	204
	sl. 2-3	07:59	6.62	6683	884	204.5	6	.50	583 ± 1	616 ± 25	208
	u. 89-1	08:30	6.62	6332	4279	136	56	.65	3691 ± 11	3459 ± 5	204
	u. <i>long break - fixing delay problem. Computer crashed, etc.</i>										
	sl. 2-4	10:38	6.51	8431	973	recal	6.8	.49	recal	592	208
	u. B.5-1	11:03	6.89	8283	17K	563	(102)	.44	2776	2933	204
	u. B.6-1	12:27	6.73	7944	5406	170	11.	.12	3180	3276	204
	u. B.7-1	11:50	6.74	8240	6705	189	14.	.13	3359	3296	204
	u. B.8-1	12:14	6.60	8270	2456	92	32.	.63	3247	3432	204
	u. B.9-1	12:42	6.81	8010	6403	500	187.	2.3	1394	1796	204
	sl. 2-5	13:04	6.48	8235	934	225	12.	.64	553	635	208

②

=SEM 1 on 46
 =SEM 5 on 45
 SEM 21 on 38
 SEM 23 on 34
 SEM 14 on 47 →

rej. 1st 206pk