

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 26/4/99 UWA Mount No.: 98-100 Whose sample?: Brown/Berley Operator(s): IF+MD+SB

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 ✓

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs

actual 196-204 = 8.177 actual 204-bkg = 0.044 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5235

Primary = 1.6 nA PESABM = 30 pA actual Primary : PESABM (≈ 50:1) =

Raster time (mins): 02 Raster aperture (microns): 120 No. of scans: 6

Comments: Sensitivity ~ 17.
 ① change to 2-min raster
 ② moved 204
 ③ changed raster to 3-min.

Standard CZ3
n = 12
error = 1.00 %

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
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	CZ.2-1	11:02	6.29	11.3	1155	-	-ve	-	-	692	✓
	CZ.2-2	11:27	6.21	11.4	1171	229	1.7	0.17	578	587	✓
238/4	A.1-1	11:51	6.35	11.2	4140	141	2.5	0.05	2704	2698	✓
238/3 206/2	A.2-1	12:09	6.35	11.6	2772	97	9.5	0.28	2522	2711	✓
	CZ.2-3	14:25	6.62	8.1	933	215	6.4	0.34	565	497	
	<u>2 hours to stabilize primary</u>										
①	CZ.2-3	14:25	6.62	8.1	933	215	6.4	0.34	565	497	✓
	A.3-1	14:45	6.17	8.7	865	53	9.1	0.59	2158	2674	✓
	A.4-1	15:05	6.76	8.6	1552	119	64.	3.0	1371	2662	✓
	A.4b-1	15:23	6.38	9.0	3881	159	1.6	0.03	2701	2690	✓
	A.6-1	15:42	7.43	9.2	1388	137	23.	1.7	804	2694	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	A-6-1	16:01	6.69	9.0	1427	71	72.	3.8	1989	2610	✓
	C2.2-4	16:21	6.38	9.3	1005	225	1.5	.13	569	590	✓
	A-8-1	16:41	6.34	9.4	954	38	0.7	.05	2715	2742	✓
	A-9-1	16:59	6.71	9.2	1548	54	-ve	-	2660	2724	✓
	A-10-1	17:20	6.35	9.4	784	32	3.5	.30	2668	2665	✓
	A-11-1	17:38	6.44	9.3	1245	48	1.3	.07	2676	2670	✓
238/4 254/3	A-12-1	17:58	6.49	9.4	1445	68	11.	.55	2217	2677	-
② -	C2.2-5	18:17	6.42	9.2	1005	218	2.4	.20	581	523	✓
③ -	C-1-1	18:38	6.26	9.5	1118	47	1.1	.06	2670	2684	✓
Same spot name	C-3-1	19:05	6.40	9.6	1004	40	4.3	.30	2613	2677 ± 14	-
A	C-4-1	19:27	6.39	9.3	2557	92	996	26.	2268	2684.	
	C-9-1	20:11	6.05	9.4	2344	96	1656	42.	1884	2233	
	C-27-1	20:32	6.19	9.4	1818	81	48	1.6	2608	2680	
	C .2-5	20:54	6.26	9.7	1025	234	0.5	.04	567	582	
	A-13-1	21:19	5.26	9.07	922	69	2.3	.08	2823	2679	
	A-14-1	21:40	6.26	9.47	937	38	2.0	.13	2738	2722	
	A-15-1	22:00	6.13	9.5	2507	85	1.3	.03	3312	3384	
	A-16-1	22:20	6.57	9.9	1059	43	10.0	.74	2296	2662	✓
	A-17-1	22:42	6.33	9.9	1880	72	1.5	.06	2700	2689	✓
	S1.2-6	23:07	6.24	9.6	1017	237	0.8	.03	566 ± 1	590 ± 24	✓
	A-18-1	23:35	5.91	10.2	2783	145	9.1	.18	2442 ± 8	2679 ± 8	✓
	A19-2	23:58	6.29	9.8	1505	61	9.6	.42	2619 ± 13	2686 ± 12	✓
	A20-1	00:20	6.39	9.3	1707	69	12.4	.48	2626 ± 12	2743 ± 11	✓
	A21-1	00:46	6.16	9.4	432	21	0.2	-	2477 ± 21	2696 ± 17	✓
206/4	A22-1	1:08	6.39	9.4	1032	38	0	0.0	2819 ± 17	2685 ± 11	✓

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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 $\pm 1\sigma$ (Ma) 206/238 207/206		Offsets OK?
	A23-1	1:33	6.3	9.0	1691	51	10.3	0.3	3523 \pm 19	3658 \pm 7	✓
	S12-7	2:04	6.1	9.4	915	232	0.9	0.07	567 \pm 1	585 \pm 25	✓
	S12-8	2:30	6.1	9.2	879	231	0.7	0.08	556 \pm 1	?	✓
	A24-1	2:54	6.62	8.9	2222	87	1.5	0.03	2556 \pm 10	2710 \pm 8	✓
	A25-1	3:17	6.51	9.1	1351	54	2.6	0.05	2583 \pm 13	2678 \pm 11	✓
File = A26	^{Actual No. of grain} A26-1	3:43	5.9	8.4	1253	87	17.2	0.11	2261 \pm 11	2665 \pm 14	✓
File = A27	^{Actual No. of grain} A26-1	4:09	6.2	9.6	884	45	2.7	0.09	2320 \pm 13	2756 \pm 14	✓
	A28-1	4:34	6.2	9.1	5844	285	17.3	0.03	2479 \pm 6	2654 \pm 5	✓
	A30-1	5:02	5.9	10.7	805	43	14.8	1.1	2276 \pm 14	2704 \pm 21	✓
?	S12-9	5:30	6.1	9.4	915	237	1.3	0.11	549 \pm 1	631 \pm 25	✓
	A33-1	6:04 5:59	6.6	8.4	1251	56	8.2	0.45	2372 \pm 12	2717 \pm 13	✓
	A34-1	6:23	6.4	9.2	1471	572	2.3	0.10	2731 \pm 14	2730 \pm 10	✓
	A31-1	6:46	6.2	6.6	184	13	1	0.22	2397 \pm 31	2656 \pm 32	✓
	S12-10	7:10	6.1	7.9	873	248	0.1	0.08	595 \pm 1	—	✓
	A32-1	7:32	6.3	9.0	671	26.5	-0.7	—	2812 \pm 21	2730 \pm 14	✓
	A38-1	7:54	6.5	9.1	1121	41	0.8	0.05	2779 \pm 16	2707 \pm 11	✓
248/3	A35-1	8:18	6.2	9.2	1341	58	—	—	2693 \pm 14	2694 \pm 10	✓