

FOLLOWS FROM 99-40

UWA SHRIMP DATA LOG

Date: 14/10/99 UWA Mount No.: 99-22 Whose sample?: Bucci Operator(s): MWN & AR

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 = ^{22V} 22V/18.0 for O⁻; = 46V/3.3 for O₂⁻; = 37V/3.3 for NO⁻

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

aperture = 150 microns retardation lens = 10014 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 = 8.170 204-bkg = 0.045 204-206 =

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 3.0 nA Primary-CZ3 = 40 nA PESABM-CZ3 = 43 pA

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

Comments:

* The majority of grains in Pop B. are not zircons!

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?

	S1.18-1	23:18	7.34	15.2	2001	220	0.5	.04	572	541	✓
①	S1.19-1	00:04	7.13	16.1	1950	217	1.6	.14	577	601	✓
②	B.1-1	00:53	8.73	13.6	15.5	669	141	2.1	954	1640	✓
1st - 2nd	B.2-1	1:12	7.82	15.3	4170	68	73	2.9	2663	2428	✓
	S1.19-2	1:32	7.39	14.1	1720	204	5.9	.56	559	596	✓
	B.3-1	1:49	6.43	13.4	215	93	33	1.3	2112	2625	✓
	B.4-1	2:10	8.05	14.2	3436	143	174	8.1	1112	2620	✓
	B.5-1	2:28	7.04	13.4	1669	44	1.9	.12	2568	2645	✓

① 11pm last 1^o Loaded no volts, turned off HV. → turned on HV, loaded saved 1^o settings it recovered!, Moved spot + re-did analysis
 ② 11:50pm → application "unknown" has unexpectedly quit, error of type 33 occurred. 1^o dropped to 2uA. Recovered using Wein Z deflect
 ↳ sample program

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?
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	S1.20-1	2:46	7.27	13.6	1715	223	-102	-	557	585	✓
	B.6-1	3:13	7.49	14.1	1189	27	6.9	.77	2416	2620	✓
	B.7-1	3:33	7.95	13.7	4916	154	1.4	.04	1656	2435	✓
	B.8-1	3:52	6.49	13.5	2580	89	2.7	.87	2516	2639	✓
1st ThO	S1.17-1	4:10	7.43	13.5	1778	216	0.6	-.06	565	570	✓
	B.9-1	4:28	7.13	13.1	3409	92	1.2	.04	2526	2628	✓
	B.10-1	4:46	7.62	13.1	1812	4.9	1.2	.09	2163	2642	✓
	B.11-1	5:07	7.67	13.6	1850	56	8.6	.64	1858	2577	✓
	S1.17-2	5:24	7.32	13.8	1760	219	1.1	.09	565	541	✓
1/2 on epoxy small grain *	B.12-1	5:46	5.48	11.7	1547	121	5.4	1.5	2268	2583	✓
	B.13-1	6:07	6.99	14.6	2984	80	5.5	.21	2429	2627	✓
	B.14-1	6:27	6.74	13.9	2528	115	5.7	.22	1759	2594	✓
1st ThO	S1.14-1	6:44	7:34	13.9	1722	212	0.4	.03	562	591	✓
	B.15-1	7:03	7.12	15.1	2181	83	3.1	1.7	1638	2568	✓
	B.16-1	7:22	7.01	13.5	3063	109	6.2	2.1	1990	2580	✓
	B.17-1	7:40	7.43	13.1	1468	33	3.0	.25	2631	2599	✓
	S1.14-2	8:02	7.08	14.0	1692	227	0.5	.04	563	550	✓
1/4 on epoxy	B.18-1	8:24	3.61	12.6	1242	1040	102	.21	3188	2636	✓
on inclusion ←	B.19-1	8:44	7.40	13.2	2806	80	8.7	.37	2191	2632	✓
B	S1.14-3	9:10	7.23	13.5	1698	224	0.6	.05	561	533	✓
A	11-1				→ 7204 (300 counts)						