

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 24/4/98 UWA Mount No.: 98-100 Whose sample?: S. Brown Operator(s): I.F. A.R.

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 = 3.2 nanosecs

actual 196-204 = 8.171 actual 204-bkg = 0.043 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5090

Primary = 1.8 nA on zircon PESABM = pA actual Primary : PESABM (≈ 50:1) =

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

Comments: Followed on from mount 98-71

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?
	CZ5-1	2:47	6.48	8.1	880	220	4.6	.39	570	479	✓
	CZ5-2	3:05	6.67	7.7	841	208	-ve	-	556	665	✓
	B.1-1	3:27	6.57	7.9	969	44	0.4	.03	2630	2717	✓
	B.2-1	3:46	7.46	6.9	1309	90	6.1	.35	1496	2734	✓
	CZ5-3	4:04	6.50	3.9	501	237	-ve	-	615	681	✓
	B.3-1	4:22	6.57	7.9	1015	47	2.5	.15	2588	2729	✓
	B.4-1	4:41	6.70	8.0	1489	69	2.2	.09	2438	2717	✓
	B.5-1	4:58	8.6	5.0	1092	132	11.1	.81	837	2778	✓
	CZ5-4	5:18	6.31	8.1	808	218	2.7	.23	576	533	✓
	B.6-1	5:36	7.40	8.0	1235	99	8.4	.58	1167	2728	✓
	B.7-1	5:55	6.58	9.2	1409	103	4.0	.20	1522	2705	✓

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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?
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	B.8-1	6:13	7.31	7.1	1523	102	4.4	.21	1567	2724	check 204-206
	C2.5-5	6:31	6.27	7.3	777	245	2.9	.23	560	512	✓
	B.9-1	6:50	7.54	6.1	1226	196	12.7	.70	792	2761	✓
	B.11-1	7:08	7.15	6.7	1129	189	31.2	1.8	741	2723	✓
	C2.5-6	7:27	6.50	7.8	876	227	2.3	.19	569	630	check 204-206
	B12-1	7:48	6.66	7.8	1350	71	3.6	.16	2275	2736	✓
	B13-1	8:06	6.70	7.0	1210	82	4.7	.22	1973	2708	✓
	B.14-1	8:25	6.48	7.8	1491	83	2.4	.09	2331	2712	✓
	C2.5-7	8:43	6.23	8.2	856	238	5.4	.43	571±1	521±49	✓
FINISH											