

UWA SHRIMP DATA LOG

Date: **10/4/01** UWA Mount No.: **B22** Whose sample?: **SB** Operator(s): **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

Steel: Wein volts / nA = **403/19** for O⁻; = **288/3.6** for O₂⁻; = **242/7.8** for NO⁻

dead-time = **32** nanosecs expected resolution = >4200 actual resolution = **447.5**

aperture = **100** microns retardation lens = **-** 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 = **2.003**

206-207 = ~~0.998~~ **0.998** 206-208 = ~~1.998~~ **2.002**

Primary-epoxy = **3.1** nA Primary-CZ3 = **4.2** nA PESABM-CZ3 = ~~50~~ **50** pA

Raster time (mins): **1.0** Raster aperture (microns): **100** No. of scans: **6**

Comments: **Pop. (A) E380 - Murphy Hills, Duketon (volcaniclastic)**

Standards
n=10
1.76%

(B) E382 - Murphy Hills, Duketon (92-98 Porphyry)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
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	CZ.1-1	13:24	6.11	16	1800	238	-0.5	-01	571	552	✓
	CZ.1-2	13:42	6.17	17	1900	231	0.1	-01	545	600	✓
	A.1-1	14:04	6.03	19	2600	53	1.7	-12	2622	2687 ± 9	✓
	A.2-1	14:24	6.32	18	2500	51	1.2	-09	2551	2704 ± 8	
	CZ.1-3	14:42	6.22	19	2000	224	-0.3	-04	555	583	
	A.3-1	15:01	6.29	19	2100	39	-0.3	-03	2639	2713 ± 10	
	A.4-1	15:22	6.29	18	3500	73	0.3	-02	2644	2723 ± 8	✓
	A.5-1	15:41	5.89	20	3100	61	0.5	-03	2664	2702 ± 7	

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?	
	A-6-1	16:00	6.12	20	2300	42	0.5	-04	2699	2700 ± 8	✓	
	CZ.2-1	16:19	6.90	21	2000	220	0.8	-07	549	592		
	A.7-1	16:39	6.30	19	2400	45	0.1	.01	2671	2725 ± 8		
	A.8-1	16:57	6.12	21	2300	41	0.9	-08	2649	2713 ± 9	✓	
	A.9-1	17:17	6.07	21	3500	65	1.4	-08	2602	2711 ± 8	✓	
	A.10-1	17:35	5.76	22	2100	40	1.1	0.10	2610	2729 ± 8	✓	
	CZ2-2	19:56	6.53	15	1500	238	0.8	0.07	532	—	—	
	CZ2-3											
	CZ.2-3*	23:20	→ didn't print out.									
	CZ.3-1	23:49	6.30	16	1800	233	-0.4	-01	569	523	✓	
	A.6-2	0:13	6.51	15	2100	50	0.0	-003	2682	2714 ± 9	✓	
	A.11-1	0:37	6.17	15	1700	41	0.2	-02	2708	2702 ± 11		
	A.12-1	1:00	6.02	17	1800	41	0.7	-06	2683	2725 ± 11		
	CZ.3-2	1:49	6.43	9.3	1100	244	0.5	-02	544	583	✓	
	A.13-1	2:09	6.09	11	1300	46	-1.2	-01	2632	2725 ± 10		
	A.14-1	2:26	6.48	10	1400	51	-0.4	-03	2658	2718 ± 11		
	A.14-2	2:45	6.08	11	880	30	0.5	-07	2614	2701 ± 14		
	A.15-1	3:03	6.48	11	2200	74	0.9	.05	2651	2710 ± 10		
	CZ.3-3	3:21	6.63	11	1400	251	-1.5	-0.01	553	567	✓	
	A.16-1	3:41	6.03	12	700	22	-0.0	—	2680	2716 ± 16		
	A.16-2	4:00	6.19	12	1100	34	0.5	-05	2689	2712 ± 15		
	A.17-1	4:18	6.62	11	2300	74	1.9	-09	2626	2705 ± 10		
	A.18-1	4:41	6.43	13	2200	59	1.7	0.1	2703	2698 ± 9		
	A.19-1	5:00	6.43	14	1200	30	1.6	-20	2640	2705 ± 12	✓	
	CZ.3-4	5:19	5.99	15	1600	225	-1.2	—	566	533	✓	

Calibrating standard.
Calibrating standard

1° dropped out, turn 2°
Resumed 1° ± 2°
→ OK but lower 1° beam.

change to Pop = (B)

