

### UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 19/4/99      UWA Mount No. 98-62      Whose sample? Gavin E.      Operator(s) LF+BR

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Indicate any change to the following: 196 204 <sup>194</sup> bkg 206 207 208 238 248 254 270

Precambrian Count time (secs): 2 2 - 10 10 10/20\* 30/10\* 10 5 3 5 2 2 2  
 Phanerozoic\* Delay time (secs): 8 8 7 3 - 1 2 1 1 - 3 - 2 - 2 3

expected 196-204 = 8.170 amu      expected 204-bkg = 0.045 amu      Dead-time = 32 nanosecs  
 actual 196-204 = 10.168 <sup>10.162</sup>      actual 204-bkg = 0.043      expected resolution = >4200  
 actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = 5216

Primary = 0.55 nA      PESABM = 7 pA      actual Primary : PESABM (≈ 50:1) =   
 Raster time (mins): 1+1      Raster aperture (microns): 70 + 100      No. of scans: 6

Comments: 1° drooping during each spot.  
 NO<sub>2</sub><sup>-</sup> in beam, because O<sub>2</sub> is weak  
 30 μm spot; Retardation activated  
 ① adjusted 204-offset  
 ② changed integration times

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U 196 Kcps	206 Kcps	UO <sub>2</sub> ppm Kcps	204Pb ppb cps	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?		
	xtc.10-1	13:19	9.30	53.1	67.5	134	0.1	0	3.49 <del>1.78</del>	2638	?	
	xtc.10-2	13:35	8.64	61.1	59.4	130	0.2	0	2.84 <del>1.79</del>	2663	?	
	9895A.H1	14:06	5.25	0.8	0.6	2	0	0	4.77 <del>1.30</del>	2102	?	
	xtc.10a-1	14:36	8.56	68.1	52.6	108	0.2	0	3.02 <del>1.79</del>	2645	?	
①	1x4+ last	9862 A.H1	15:00	7.45	45.7	24.0	78	26	1.5	1.36	2485	?
②	Scan 1	A-2-1	15:23	7.02	35.2	10.6	39	11	1.3	1.22	2339	✓
		A-3-1	15:48	7.70	37.1	15.7	43	10	0.92	1.73	2438	✓
		A-4-1	16:10	7.09	61.7	18.2	39	0.2	0.01	2.26	2743	
		A-6-1	16:38	6.13	37.9	11.2	36.4	0.6	0.07	1.06	2512	
		xtc.10-3	17:02	8.84	56.2	44.3	91.4	5.5	0.03	3.12	2625.5	
Scan 1	xtc.10-4	17:22	8.67	63.6	44.0	98.3	0.1	0	2.77	2631	✓	

Burgess  
(Zircon)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	<sup>194</sup> U <sup>196</sup> Kcps	206 Kcps	U ppm Kcps	<sup>204</sup> Pb ppb cps	f <sup>206</sup> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	A.12-1	18:09	8.02	48.8	15.4	46.4	0.3	0.02	1.95	2669	—
"	A.12-2	18:19	7.33	40.9	12.7	43.0	0.5	0.05	1.34	2711	
"	A.18-1	19:07	5.99	59.4	14.4	41.2	1.1	0.02	1.20	2629	
	A.18-2	19:25	7.38	75.1	22.2	68.5	13.6	0.05	1.57	2642	
	A.19-1	19:46	8.48	60.0	26.9	68.5	4.7	0.04	2.34	2597	
	B.20-1	20:08	6.89	38.9	5.8	15.1	0.6	0.05	1.76	2637	
	xtc. 11-1	20:29	8.30	58.5	27.6	60.5	2.2	0.03	2.69	2634	
	xtc. 11-2	20:48	8.45	66.2	47.6	102.9	0.1	0	2.76	2611	
	A.10-1	21:11	9.39	34.9	15.7	31.1	0.1	0.01	3.61	2752	
	A.18-1	21:33	5.43	40.7	4.6	18.1	1.3	0.04	0.77	2456	
	A.22-1	21:54	6.52	48.3	9.1	24.8	0.4	0.02	1.54	2681	
	A.11-3	22:17	8.25	73.3	50.7	109	0.7	0.02	2.65	2651	