

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 3/5/96 UWA Mount No.: 96-22 Whose sample?: MEB Operator(s): IF + April

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254  
 Precambrian Count time (secs): 2 10 10 20 ✓ 30/10\* 10 ✓ 5 ✓ 5 ✓ 2 ✓  
 Phanerozoic\* Delay time (secs): 7 3 1 2 ✓ 1 ✓ 1 ✓ 3 ✓ 2 ✓ 2 ✓  
 expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs  
 actual 196-204 = 8.168 actual 204-bkg = 0.042 expected resolution = >4200  
 actual 206-207 = 1.000 actual 206-208 = 1.000 actual resolution = 477  
 Primary = 2.7 nA PESABM = 38 pA actual Primary : PESABM (= 50:1) = 68  
 Raster time (mins): 2 Raster aperture (microns): 120 No. of scans: 6

Comments: Note unusual 206 integration time  
 $Zr/U = 1.93269$   $calibra^2$  error = 1.1804%  $n_s = 12$   $\% = 1.27$   
 $U/U = 6.25828$  (Actual = 2.39  $\% = 1.18$ )  
 $Pb^*/U = 0.207332$   
 $n = 12$   $n_A = 34$

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 k cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Corr.
196, 206, 238, 254	sl 622.1-1	17:35	6.34	16.5	1856	cal.	0.2	-	cal 569	-
196, 238, 248, 254	A.1-1	17:53	6.46	16.9	1245	491	0	-	163 175	-
206, 207, 238	sl 1-2	18:10	6.35	16.2	1862	220	-ve	ve	580 636	208
196, 206, 238, 248	sl 1-3	20:01	6.23	16.0	1764	225	0.8	0.01	581 556	208
196, 238, 248	A 2-1	20:19	6.44	15.6	464.4	748	-ve	0.06	44.1 145	208 ?
196, 206, 207, 238, 248, 254	A 3-1	20:38	6.67	15.7	2204	757	1-1	0.09	183 120	-
206, 238, 254 del 1st run.	sl 1-4	20:57	6.28	16.6	1761	214	0	0.04	572 616	208
196, 206	A 3-2	21:15	6.17	16.1	2596	1174	0.5	-	173 180	-
196, 206, 238, 254	A 4-1	21:33	6.84	16.0	2050	619	-ve	-	190 161	-
196, 206, 207	A 5-1	21:51	6.67	16.7	3722	1566	6.4	1.43	139 -	208
196, 206, 208, 238	A 6-1	22:09	6.41	16.5	1974	749	0.6	0.13	178 111	208

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
<i>del 1<sup>st</sup> Tho.</i>	<del>SL1-5</del>	22:26	6.22	16.6	1729	218	0.6	0.01	566	530	208
	A 7-1	22:44	5.80	16.8	507	293	0.1	2.34	157	0	208
	A 8-1	23:02	6.06	16.7	1114	632	-ve	0.58	141	0	208
	A 9-1	23:19	6.16	16.6	1069	469	0.1	0.06	173	114	208
	A 9-1	23:36	6.60	16.8	1632	674	0.2	0.02	147	188	208
<i>Final 5<sup>th</sup> scan.</i>	SL1-6	23:54	6.43	16.7	1814	204	-ve	-	569	595	-
<i>del last-2 scans:</i>	A 10-1	24:12	6.37	16.0	3566	1700	-ve	-	181	223	2-
	A 11-1	24:29	6.40	16.5	1227	478	0.7	0.09	175	-	208
	A 12-1	24:47	6.56	15.5	879	340	0.7	0.13	174	-	208
	A 13-1	1:04	6.16	15.4	1930	920	0.7	0.05	172	164	204
	SL1-7	1:21	6.27	16.3	1756	219	0.2	0.02	570	502	208
	A 14-1	1:40	6.43	16.5	2273	839	-ve	0.00	182	206	208
	A 15-1	1:57	6.33	16.1	968	647	0.4	8.16	100	0	208
	A 16-1	2:15	6.32	15.5	1134	576	0.2	4.64	142	0	208
	A 17-1	2:33	6.47	16.4	3123	1155	0.9	0.22	178	205	208
<i>del 1<sup>st</sup> Tho</i>	SL1-8	2:51	6.31	16.5	1761	210	0.3	0.05	578	569	208
	A 18-1	3:08	6.69	16.3	995	352	0.3	0.05	171	-	208
	A 19-1	3:25	6.23	16.0	1548	674	1.2	0.12	174	-	208
	A 20-1	3:43	6.20	16.3	1535	768	0.3	0.03	152	170	208
	A 21-1	4:00	6.32	16.2	1077	442	-ve	0.10	175	120	208
	SL1-9	4:18	6.22	16.4	1688	215	0.5	0.01	568	526	208
	A 22-1	4:36	6.44	15.0	5622	2302	0.3	0.02	179	184	208
	A 23-1	4:53	6.27	16.3	1218	717	0.5	12.7	110	0	208
	A 24-1	5:10	6.68	15.9	9149	2669	0.3	0.01	212	195	208
	A 25-1	5:28	6.28	16.9	1563	634	0.6	0.09	174	145	208

