

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 27/8/96 UWA Mount No.: 96-29 Whose sample?: MUK Operator(s): McN & MUK

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	
Precambrian	Count time (secs):	2	10	10	10	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 = 8.172 actual 204-bkg = 0.040 expected resolution = >4200
 actual 206-207 = 1.001 actual 206-208 = 2.000 actual resolution = 5090
 Primary = 2.8 nA PESABM = 50 pA actual Primary : PESABM (= 50:1) = 5.6
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: A = VOM 95-078
 B = VOM 95-031

Rejection over-ride	Sample/Std ID	Time - printout	UO/U (>5.0)	196 cps (K)	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.	th/u
	sl. 2-1	11:31	6.37	18.8	1929	220	3.7	.18	571 ± 1 502 ± 18	208	
	sl. 2-2	11:50	6.32	19.2	1893	217	2.3	.14	573 ± 1 608 ± 18	208	
	B. 1-1	12:10	6.54	18.5	8095	144	3.6	.06	2860 ± 6 2920 ± 4	204	(.99)
	B. 1-2	12:28	6.88	19.1	21.9K	500	68	.53	1986 ± 2 2418 ± 4	204	(.70)
	sl. 2-3	12:48	6.11	19.1	1855	234	3.6	.17	578 ± 1 532 ± 19	208	
	B. 2-1	13:06	6.58	17.46	15.3K	406	67.8	.59	2112 ± 3 2625 ± 3	204	(.91)
	B. 3-1	13:30	6.29	18.2K	1713	29.6	0.8	.051	3265 ± 16 3240 ± 8	204	(3.49)
	sl. 2-4	13:50	6.35	19.5	1972	221	0.4	.058	5697 ± 1 600 ± 17	208	
	B. 4-1	14:13	6.15	19.7	873	16.7	1	.13	2999 ± 21 2930 ± 13	204	(.96)
	B. 5-1	14:39	6.37	18.3	15.0K	285	6.4	.05	2932 ± 5 2932 ± 3	204	(.56)
	B. 6-1	15:00	6.78	17.9	13.1K	386	14.7	.17	1762 ± 2 2618 ± 3	204	(.17)

O = discordant

Mount/sample No: 96-29 Date: 27/8/96 Page No: 2

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr. (Th/U)
	sl. 3a-1	15:19	6.22	19.5	1898	226	1.5	.12	572 ± 1	610 ± 18	208
	B. 7-1	15:37	6.38	19.1	13.7K	222	91.2	.78	3191 ± 6	3343 ± 3	204 (.46)
	B. 8-1	16:05	7.19	17.3	17.2K	367	7.2	.07	2060 ± 3	2549 ± 3	204 (.61)
	B. 9-1	16:23	6.60	18.0	19.5K	362	51.1	.33	2744 ± 4	3175 ± 3	204 (.45)
	sl. 3a-2	16:42	6.19	19.5	1843	228	2.0	.11	559 ± 1	599 ± 18	208
	B. 10-1	17:02	6.44	18.6	16.4K	406	5.2	.04	2260 ± 3	3044 ± 3	204 (.073)
	B. 11-1	17:20	6.35	18.4	15.8K	433	23.3	.18	2168 ± 3	2685 ± 3	204 (.49)
	B. 12-1	17:39	6.50	17.8	12.0K	308	49.6	.53	2210 ± 3	2801 ± 4	204 (.82)
	B. 13-1	17:57	6.40	18.0	8.7K	267	26.5	.38	1960 ± 3	2720 ± 5	204 (.82)
	sl. 3a-3	18:15	6.28	18.9	1909	222.9	1.4	.089	581.9 ± 1	494.9 ± 18	208
	B. 14-1	18:40	6.47	19.5	6455	259	5.2	.121	1402 ± 2	2263 ± 6	204 (.22)
	B. 15-1	19:03	6.67	18.7	17.6K	326	9.4	.077	2607 ± 4	2835 ± 3	204
	B. 16-1	19:24	6.26	18.3	13.8K	298	2.7	.224	2752 ± 4	2913 ± 3	204
	sl. 3a-4	22:19	6.35	18.2	1827	220	0.9	.05	572 ± 1	523 ± 19	208
	sl. 3b-1	22:38	6.08	19.7	1713	221	5.9	.295	562 ± 1	563 ± 19	208
	A. 1-1	23:27	6.42	14.85	2725	92.9	20.2	.384	3322 ± 14	3461 ± 6	204
	A. 1-2	23:47	6.63	13.6K	3601	69.2	4.2	.108	3335 ± 12	3452 ± 5	204
	sl. 3b-2	00:55	6.37	17.9K	1805	219	2.8	.096	562 ± 1	560 ± 18	208
	A. 2-1	00:31	6.72	16.8	16.9K	271	186	1.37	3125 ± 5	3155 ± 3	204
	A. 3-1	01:19	6.33	18.2K	4873	84	16.2	.357	3223 ± 9	3411 ± 5	204
	A. 4-1	01:57	6.12	18.2K	6545	143.9	79.7	1.18	2880 ± 7	3387 ± 5	204
	sl. 3b-3	02:17	6.30	18.2K	1771	220	0.7	.103	564 ± 1	581 ± 18	208
	A. 5-1	02:57	6.36	18.36	9133	143.6	24.4	.293	3399 ± 7	3428 ± 3	204
	A. 6-1	03:15	6.44	17.2	19.5K	321	19.9	.11	3347 ± 5	3414 ± 2	204
	A. 7-1	03:42	6.28	18.1	20.5K	338	7.9	.04	3425 ± 5	3431 ± 2	204

NB
 BASLINE → ~10% drop.
 ↖ 10
 ⊗ cal. std

* 10 beam program corrupted; stuffed about but got it going; not sure if on same calibr. line.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (k)	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)	206/238	207/206	Corr.
	A.8-1	04:25	6.4	17.4k	4609	74.5	7.8	.18	3426 ± 11	3415 ± 5	204	
	sl.35-4	04:46	6.36	18.2	1743	216	3	.174	553 ± 1	622 ± 18	208	
	sl.35-5	05:10	6.25	17.7	1764	225	0.5	.104	580 ± 1	605 ± 18	208	
	A.9-1	05:28	6.51	16.8	18.8k	506	24.2	.151	2238 ± 3	2944 ± 3	204	
	A.10-1	05:47	6.37	17.6	2959	49.2	5.5	.198	3356 ± 14	3435 ± 6	204	
	A.11-1	06:06	6.55	17.1	26.4k	542	64	.287	2715 ± 3	3109 ± 2	204	
	A.12-1	06:31	6.62	16.5	34.7k	609	23.6	.079	3077 ± 3	3223 ± 2	204	
	A.13-1	07:09	6.88	16.5	32.9k	470	13	.05	3329 ± 4	3314 ± 2	204	
	sl.4-1	07:31	6.37	17.8	1766	218	0.3	.059	562 ± 1	582 ± 19	208	
F*	A.14-1	07:51	6.78	17k	30k	389	27	.108	3609 ± 5	3470 ± 2	204	
	A.15-1	08:09	6.11	17.1k	18.7k	504	24.3	.129	2596 ± 3	2869 ± 3	204	
	A.16-1	08:23	6.42	17.1	19.3k	327	12.4	.069	3319 ± 5	3362 ± 2	204	
	sl.4-2	09:40	6.27	17.9	1741	224	0.5	.043	564 ± 1	570 ± 18	208	
F*	A.17-1	09:54	6.33	18.2	3938	74	71.2	1.94	2968 ± 10	3435 ± 7	204	
	A.18-1	10:13	6.21	18.4	2045	35	3.2	.162	3390 ± 16	3426 ± 7	204	
	A.19-1	10:38	6.49	17.1	7466	120	23	.338	3355 ± 8	3387 ± 4	204	