

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 16/11/96 UWA Mount No. 96-71 Whose sample? Manti van K Operator(s) IRF & M v K

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 = 8.170 actual 204-bkg = 0.040 expected resolution = >4200

actual 206-207 = 1.0005 actual 206-208 = 2.001 actual resolution = 4990

Primary = 3.0 nA PESABM = 4.6 pA actual Primary : PESABM (≈ 50:1) = 65

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: A = M95-556a Tamb. dome house sheet
 B = M94-302 N.S. central dome
 C = M95-028a Tamb. dome porph. dia. ga.
 (D) = M95-028b " wig. veins) NO GOOD ZIRCS.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 <cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
	sl 671.6-1	11:44	6.76	15.5	1937	-	1.9	.14	-	588	208
	sl 671.6-2	12:01	6.76	15.5	1933	224	2.8	.12	582±1	554±18	208
	u 8.1-1	12:23	6.81	15.1	14K	221	4.4	.04	3260	3239	204
	B.2-1	12:42	6.96	14.7	16K	243	1.9	.02	3263	3239	204
	B.3-1	13:04	6.97	14.2	9740	155	1.6	.02	3279	3244	204
	sl 671.6-3	13:23	6.76	14.99	1853	216	4.1	.196	556±1	523±18	208
	u B.4-1	13:45	6.88	14.5	16K	248	2.0	.02	3335	3235	204
	B.5-1	14:08	7.06	14.3	17K	255	3.2	.02	3276	3248	204
	B.6-1	14:27	6.95	14.5	6765	109	3.7	.07	3207	3231	204
	B.7-1	14:45	6.92	15.1	7822	122	18.	.28	3231	3241	204
	sl 6-4	15:04	6.76	15.0	1879	220	2.4	.22	570	593	208

Step in primary

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	Corr.
	B.8-1	15:22	7.06	14.5	13K	192	4.2	.04	3275	3250	204
	B.9-1	15:42	6.82	14.5	8577	142	5.9	.08	3280	3241	204
	B.10-1	16:00	6.99	14.2	8500	135	4.8	.07	3250	3240	204
	B.11-1	16:17	6.80	14.6	9082	153	9.0	.11	3238	3232	204
	B.12-1	16:35	7.05	14.3	18K	279	3.6	.02	3308	3246	204
	sl 6-5	16:56	6.71	15.3	1858	220	3.1	.22	568	598	204
on 25 discordant	A.1-1	17:17	7.20	13.7	16K	464	75.	.64	1887	2664	204
SEM38 on 31	A.2-1	17:36	6.95	14.3	15K	236	5.0	.04	3267	3244	204
on 27	A.3-1	18:15	7.04	16.3	6750	148	39.	.84	2178	3053	204
"	A.4-1	18:34	6.76	17.4	5985	474	28.5	.63	862±1	1928±10	204
	sl 6-6	18:57	6.76	15.15	1903	218	5.8	.23	578±1	594±18	208
SEM39 on 30	A.8-1	19:17	6.76	12.3	50.7k	1081	105.3	.24	2786±3	2861±2	204
SEM30 on 30	A.5-1	19:37	6.76	14.5	11.3k	161	4.0	.04	3409±7	3236±3	204
SEM43 on 30	A.5-2	19:54	6.76	14.2	14.6k	232	4.5	.04	3346±6	3244±3	204
SEM44 on 30	A.6-1	20:13	6.76	13.5	18.3k	485	125.2	.89	2124±3	2745±4	204
SEM41 on 30	A.7-1	20:49	6.76	13.7	16.09k	400	32.3	.25	2253±3	2897±3	204
	sl. 6-7	21:09	6.76	15.3	1906	220	5.2	.34	578±1	535±19	208
SEM29 on 31	A.9-1	21:48	6.76	14.98k	6944	107	10.2	.16	3489±10	3398±4	204
SEM26 on 31	A.10-1	22:05	6.76	14.2k	10.9k	173	6.0	.06	3272±7	3237±3	204
SEM30 on 31	A.11-1	22:23	6.76	14.6k	9019	151	20.7	.26	3239±7	3247±4	204
on 26	A.12-1	22:47	6.76	15.4k	7694	130	7.6	.11	3174±8	3223±4	204
SEM25 on 32	A.13-1	23:05	6.76	14.9k	8132	129	60.7	.87	3299±8	3234±4	204
	sl. 7-1	23:25	6.76	15k	1859	224	6.7	.40	575±1	607±18	208
28 on 32	A.14-1	23:43	6.76	14.8k	12.9k	201	133	1.2	3281±6	3346±4	204
27 " "	A.15-1	00:01	6.76	14.3k	6410	161	17.1	.3	2397±6	3116±4	204

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	A.16-1	00:20	6.76	14.4	10.1k	290	59.5	.75	1989±3	2833±5	204
	A.17-1	00:40	6.76	14.7k	16.15k	261	7.1	.05	3317±6	3239±2	204
	A.18-1	00:57	6.76	14.3k	15.2k	364	63.8	.51	2367±3	3040±3	204
	sl.7-2	01:22	6.76	15.3	1875	229	7.7	.44	584±1	578±19	208
	A.19-1	01:41	6.76	13.5	15.2k	383	60.9	.42	2503±4	3119±3	204
	A.20-1	02:11	6.76	14.1	21.6k	360	10	.06	3010±4	3175±2	204
	A.21-1	02:29	6.76	14.7	19.3k	317	16.3	.09	3333±5	3254±2	204
	A.22-1	02:48	6.76	14.7	6596	102	6.1	.11	3334±9	3242±4	204
	sl.7-3	03:06	6.76	14.9	1810	227	4.8	.44	579±1	626±19	208
	C.1-1	03:24	6.76	14.9	14.3k	225	30	.25	3220±6	3414±3	204
	C.2-1	03:43	6.76	16.7	6327	133	20.7	.34	2858±7	3411±4	204
	C.3-1	04:01	6.76	14.4	12.2k	190	11.5	.12	3012±6	3316±3	204
	C.4-1	04:28	6.76	12.4	15.7k	260	8.7	.06	3423±6	3425±2	204
	C.5-1	04:48	6.76	14.6	6134	92.9	9.7	.18	3471±10	3422±10	204
	C.6-1	05:05	6.76	15.4	5852	107	16.3	.30	3094±9	3424±4	204
	sl.7-4	05:23	6.76	14.8	1936	222	8.6	.43	605±1	635±18	208
	C.7-1	05:42	6.76	14.5	3370	64.6	11.3	.38	2941±10	3407±6	204
	C.7-2	06:00	6.76	14.6	8769	158.9	7.7	.09	3238±7	3424±3	204
	sl.5-1	06:17	6.76	14.5	1970	208	4.9	.38	595±1	589±18	208
	C.8-1	06:35	6.76	15.1	6429	114	26.3	.50	2883±7	3346±2	204
	C.9-1	06:54	6.76	14.1	24.2k	397	42.6	.23	2945±4	3161±2	204
	C.10-1	07:11	6.76	14.7	4168	75.1	20.5	.54	3114±10	3301±5	204
	C.11-1	07:36	6.76	14.3	9812	350	15.8	.15	1878±3	3095±3	204
	C.12-1	07:54	6.76	12.1	9542	187	7.0	.06	3471±8	3427±3	204
	C.13-1	08:12	6.76	14.4	8660	137	13.2	.17	3297±8	3411±3	204
	sl.5-2	08:31	6.76	14.8	1841	217	7.6	.46	579±1	627±18	208

11 on 32
 Rim →
 12 on 35
 13 on 35
 16 on 35
 22 on 34
 21 on 34
 10 " 36
 gp 66
 step down in primary →
 1° back up again = misalignment of dioplas z.
 + narrow ledge of sample ...
 5 on 82
 10 on 81
 dip in primary →
 = dioplas z misaligned.
 9 on 80

