

CONTINUED
Sheet 2

UWA SHRIMP DATA LOG: ZIRCON U-Pb

Date: 6/8/95
UWA Mount No.: 95-10
Whose sample?: Y. Qiu
Operator(s): Y. Qiu (I.F.)

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	5	5	2
	Delay time (secs):	6	3	1	2	1	1	3	2	2
Phanerozoic	Count time (secs):	2	10	10	10	10	10	5	5	2
	Delay time (secs):	6	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 36² nanosecs
 actual 196-204 = 8.170 actual 204-bkg = 0.040 expected resolution = >4200
 Primary = 1.9^{2.4} nA PESABM = 40 pA actual resolution = 4885
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 60

Comments from Log Book:

Rejection over-ride	Sample/Std ID	Time - printout	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	U510A3-1	1:41	14.6K	4630	155	50.3	1.3	1883 ± 4	2613 ± 9	204
	U510A4-1	2:04	12.2K	8314	342	145	2.5	1311 ± 2	2631 ± 8	204
	U510A5-1	2:27	12.8K	3938	121	3.8	.08	2698 ± 8	2642 ± 6	204
	S(510.1-5)	2:52	12.5K	1220	212	2.7	.2	564 ± 1	560 ± 40	204
	U510A1-6	3:16	12.2K	4652	189	88.8	2.4	1482 ± 3	2669 ± 10	204
	U510A7-1	3:38	9.6K	9206	365	384.5	6.1	1296 ± 2	2621 ± 11	204
	U510A8-1	4:03	12.3K	4464	185	78.5	2.2	1481 ± 3	2648 ± 10	204
	U510A9-1	4:26	13.9K	5082	144	3.9	.07	2601 ± 6	2644 ± 5	204
	S(510.1-6)	4:47	13.2K	1337	202	3.8	.3	566 ± 1	555 ± 20	208
	U510A10-1	5:10	11.9K	10570	426	149.8	1.7	1556 ± 2	2520 ± 7	204
	U510A11-1	5:32	12.5K	4287	127	0.7	.02	2586 ± 7	2621 ± 6	204
	U510A12-1	5:54	13.2K	5977	122	22	.67	2031 ± 4	2625 ± 6	204

* Adjusted Matching ~~Y~~ to increase $1^\circ \Rightarrow$ did not work! Increased Matching lens by 10 small clicks + returned: 1° went from 1.5 nA to 2.0 nA. Spot Shape still OK \rightarrow std 3-1 still on calibration line.

** Adjusted Matching Lens again to get more $1^\circ \Rightarrow$ 2.7 nA. \oplus adjusted Matching Lens up to $\sim 3950V \Rightarrow 1^\circ \approx 1.8$ nA \rightarrow got broader peak!

POPULATION A (CONT.)

Rejection over-ride	Sample/Std ID	Time - printout	196 cps	206 cps	U ppm	204pb ppb	f ₂₀₆ %	Age $\pm 1\sigma$ (Ma) 206/238	207/206	Corr.
196 207 208	U510A.13-1	6:17	10.9K	9062	397	249.9	4.	1223	2545 ± 10	204
2d 208 (208)	S1510 1-7	6:40	12.2K	1253	198	7.	0.3	568 ± 1	630 ± 21	208
207 208 238 248	U510A.14-1	7:08	10.8K	8572	264	26	.4	1498 ± 3	2605 ± 5	204
204 207. 208	U510A.15-1	7:32	10.2K	5-252	281	259.6	6.2	1121 ± 2	2635 ± 15	204
196 208 1° unstable	U510A.16-1	7:53	7.7K	6533	351	455.7	9.04	1059 ± 2	2676 ± 16	204
196. 206 207 238 248	U510A.17-1	8:15	9.5K	32K	129	13.1	0.29	2532 ± 8	2648 ± 7	204
* 206 207 208 238 248 25.4	std 3-1	8:44	14.7K	1468	204	1.8	.29	574 ± 1	555 ± 19	208
206 207 208 208	UNK 18-1	9:06	15.8K	5.1K	216	70.1	2.54	1012 ± 2	2660 ± 10	204
196. 208 238 (208)	UNK 17-2	9:28	15.4K	5.1K	148	7.2	.13	2598 ± 6	2643 ± 5	204
196. 207 208	UNK 19-1	9:50	14.7K	10.4K	228	39.7	.69	1409 ± 3	2606 ± 5	204
196. 206 207 208 238	UNK 15-2	10:11	13.6K	5.7K	144	183	4.61	1490 ± 5	2629 ± 13	204
206 208	UNK 14-2	10:34	15.2K	5.8K	156	11.5	.23	2348 ± 5	2625 ± 5	204
196. 206. 207. 208 248 25.0	std 3-2	10:57	14.5K	1448	201	4.2	.23	571 ± 1	558 ± 19	208
1° dropped 15% for 1-2 scans. 208 208	UNK 9-2	11:19	13.5K	5.1K	142	4.7	.09	2593 ± 6	2637 ± 5	204
** 196 204	UNK 20-1	11:42	12.3K	6.5K	837	176	3.84	448 ± 1	2654 ± 10	204
\oplus 196	UNK 21-1	12:08	17.2K	9.7K	226	15.8	.21	2461 ± 4	2640 ± 4	204
205	UNK 21-2	12:39	12.1K	7.6K	195	5.7	.08	2643 ± 5	2688 ± 4	204
196 206 207 Adjusted Matching lens	std 3-3	13:01	12.2K	1244	210	2.5	.18	583 ± 1	645 ± 20	208
207 208	UNK 22-1	13:26	14.4K	8.7K	489	162.4	3.90	686 ± 1	2639 ± 9	204
196 208	UNK 21-3	13:48	13.4K	8.7K	224	12.5	.16	2559 ± 5	2656 ± 4	204
196. 207	UNK 23-1	14:10	12.4K	5.5K	320	344.6	11.3	700 ± 2	2710 ± 19	204
0 208	UNK 24-1	14:32	14.2K	8.9K	244	21.2	.29	2229 ± 4	2623 ± 4	204
196. 204. 206 207 208 25.4	std 3-4	14:55	13.4K	1353	202	2.8	.24	547 ± 1	673 ± 19	208
206 206 207 208	UNK 25-1	15:17	13.2K	3004	82	12.5	.45	2469 ± 8	2606 ± 8	204
1° unstable!	UNK 25-2	15:39	13.2K	4093	166	21.5	.47	2032 ± 5	2688 ± 7	204
Adjusted Matching Lens again (1.4 nA) 196 208	UNK 25-3	16:05	10.8K	3663	118	12.8	.34	2327 ± 6	2656 ± 7	204