

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

Date: 20/5/95      UWA Mount No.: 94-26B      Whose sample?: LIANG      Operator(s): NM & N.

Indicate any change to the following:      196      204      bkg      206      207      208      238      248      254

<u>Precambrian</u>	Count time (secs):	<u>2</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>40</u>	<u>10</u>	<u>5</u>	<u>5</u>	<u>2</u>
	Delay time (secs):	<u>6</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>
<u>Phanerozoic</u>	Count time (secs):	<u>2</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>5</u>	<u>5</u>	<u>2</u>
	Delay time (secs):	<u>6</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>2</u>

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040 amu      Dead-time = <sup>32</sup>~~36~~ nanosecs

actual 196-204 = 8.170      actual 204-bkg = 0.040      expected resolution = >4200

Primary = 1.5 nA      PESABM = 27 pA      actual resolution = 4850

expected Primary : PESABM ≈ 50:1      actual Primary : PESABM = 55.6

Comments from Log Book: All OK; Arc dropped out occasionally!  
Raster = 120µ + 3 minutes

⊗ = CALIBRATION STD

Rejection over-ride	Sample/Std ID	Time - printout	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.
—	std centre-1 ⊗	10:07	10K	1095	220	3.6	—	—	—	—
—	centre-2	10:46	14.4K	882	178	1.8	—	—	—	—
—	std 1-1 ⊗	11:21	8.9K	950	220	-0.9	0	571 ± 1 572 ± 1	615 650 ± 35	208 NONE
—	std 1-2 ⊗	11:41	10.0K	1075	220	1.8	0.11	571 ± 1	424 ± 58	204
—	unk 3-1	12:02	9.7K	138	154	<del>2.1</del>	1.08	123 ± 1	—	208
—	std 1-3	12:37	10.3K	1074	228	-0.1	0.08	530 ± 1	557 ± 35	208
—	std 1-4 ⊗	12:55	10.1K	1033	220	1.0	0.07	571 ± 1	591 ± 35	208
—	unk 4-1	1:19	7.8K	168	201	1.4	0.99	127 ± 1	—	208
—	unk 5-1	1:39	9.9K	209	203	1.1	0.70	131 ± 1	—	208
—	std 1-5	1:58	10.0K	1013	221	0	0.08	578 ± 1	546 ± 36	208
—	unk 6-1	2:21	9.7K	171	177	2.4	1.05	130 ± 1	—	208
—	unk 7-1	2:39	9.8K	211	244	-0.4	0.36	128 ± 1	182 ± 136	208

MESOZOIC GRANITES

1<sup>0</sup> drifted down during run !!

Rejection over-ride	Sample/Std ID	Time - printout	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
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	UNK 8-1	2:59	9.6K	155	153	0.7	0.65	126 ± 1	78 ± 140	208
	std 1-6	3:18	9.7K	930	213	0.7	0.06	557 ± 1	581 ± 37	208
	UNK 9-1	3:39	9.4K	132	166	-0.2	-	118 ± 1	246 ± 112	NONE
	UNK 10-1	4:00	9.6K	172	179	0.2	.37	130 ± 1	307 ± 127	208
	UNK 11-1	4:19	9.2K	103	91	-0.1	0.80	128 ± 1	79 ± 160	208
	std 1-7	4:39	9.5K	970	220	-0.3	0.10	582 ± 1	588 ± 36	208
	UNK 12-1	4:59	8.7K	223	225	-0.1	-	129 ± 1	216 ± 86	NONE
	UNK 13-1	5:23	8.8K	163	183	2.0	.64	127 ± 1	-	208
	UNK 14-1	5:48	8.9K	167	136	1.5	0.39	162 ± 1	170 ± <sup>106</sup> / <sub>114</sub>	208
	UNK 15-1	6:19	10.2K	2323	108	0.1	.003	2196 ± 7	2528 ± 11	204
	std 2-1	6:43	10.6K	1082	217	0.4	.07	582 ± 1	546 ± 35	208
	UNK 15-2	7:06	10.2K	893	44	2.1	0.20	2135 ± 11	2495 ± 20	204
	UNK 14-2	7:27	10.8K	172	78	1.6	0.53	234 ± 1	197 ± 102	208
	UNK 16-1	7:51	10.2K	153	156	1.8	0.77	131 ± 1		
	std 2-2	20:14	10.7K	1076	213	2.7	0.23	577 ± 1	544 ± 35	208
	unk 9-2	20:40	10.3K	443	398	1.0	0.21	133 ± 0.5		
	unk 17-1	21:02	10.6K	165	138	1.2	0.79	129 ± 1		
	unk 18-1	21:22	10.7K	195	167	2.4	1.1	123 ± 0.6		
	unk 18-2	21:41	10.1K	97	88	1.4	1.0	135 ± 1.3		
	unk 19-1	22:03	10.2K	295	268	0.1	0.03	131 ± 0.3		
	std 2-3	22:24	11.1K	1083	220	0.7	0.06	577 ± 1	578 ± 1	208
	unk 20-1	22:47	10.1K	290	229	0.9	0.31	147 ± 0.5		
	unk 21-1	23:06	10.5K	294	195	1.2	0.41	129 ± 0.7		
	unk 22-1	23:32	10.8K	168	151	2.1	0.91	130 ± 0.7		
	<del>unk 23-1</del>	23:52	10.4K	1082	224	1.0	0.08	583 ± 1		
	std 2-4									

<sup>10</sup> drifted down during run

Adjusted <sup>10</sup> to get nice. from 1.12A to 1.42A.

(X1570)