

UWA SHRIMP DATA LOG: ZIRCON U-Pb

Date: 19/4/95 UWA Mount No. 94-25C Whose sample? L. WANG Operator(s) Ian F.

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
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 = 36 nanosecs ✓
 actual 196-204 = 8.169 actual 204-bkg = 0.041 expected resolution = >4200
 Primary = 3.2 nA PESABM = 50 pA actual resolution = 6500
 expected Primary : PESABM = 1:50 actual Primary : PESABM = 64

Comments from Log Book: Fresh Duo (cleaned yesterday) - (my) is a bit unstable but decided not to ratio data to SBM. after 1st std, changed my mind - now ratioing to SBM

Rejection over-ride	Sample/ Std ID	Time	196 cps	206 cps	U ppm	204Pb ppb	f206 %	204-corr. Age ±1σ (Ma) 206/238 207/206	Peak cent. OK?
→ SBM Ratio turned on.	sl-1a-1	11:07	23K	1930	220	1.6	0.14	571.6 ± 0.5	✓
←	sl-1a-2	11:30	21K	1750	249	0.4	0.05	534 ± 0.5	✓
← guessed first grain #	uC-30-1	12:00	20K	122	22	6.2	7.5	294 ± 4	✓
	sl-4a-1	12:20	21K	1970	224	1.0	0.09	549 ± 0.5	✓
	sl-4a-2	12:40	22K	1930	227	1.2	1.0	537 ± 0.6	✓
	uC-31-1	13:00	18K	86	42	2.0	2.3	173 ± 2	✓
	uC-32-1	13:23	21K	277	152	2.3	1.5	116 ± 1	✓
	sl-4a-3	13:45	20K	1814	230	1.0	0.08	543 ± 0.6	✓
	uC-33-1	14:05	18K	910	512	2.1	0.4	117 ± 0.2	✓
	uC-34-1	14:25	20K	580	255	1.3	0.5	126 ± 0.4	✓
← (my) dropout	uC-35-1	14:50	18K	74	32	3.0	5.2	147 ± 3	✓
	sl-4a-4	15:20	22K	1820	226	2.5	0.2	532 ± 0.6	✓
	uC-36-1	15:40	19K	54	24	1.7	3.8	186 ± 5	✓
	uC-37-1	16:02	18K	241	176	0	0	118 ± 1	✓

Rejection over-ride	Sample/ Std ID	Time	196 cps	206 cps	U ppm	204Pb ppb	f206 %	204-corr. Age $\pm 1\sigma$ (Ma)	206/238 207/206	Peak cent. OK?
	uC-38-1	16:25	181K	157	100	2.3	2.2	117 \pm 1	-	✓
	uC-39-1	16:43	191K	181	112	-	-	120 \pm 1	-	✓
Sample change (air lock)	sl-4a-5	17:05	201K	1750	224	1.2	0.1	532 \pm 0.6	-	✓
DAO Dropout P reset to 800	sl-4a-6	17:40	171K	1731	188	3.7	0.4	572 \pm 0.8	-	✓
	uC-40-1	18:05	171K	195	111	1.0	0.9	115 \pm 1	-	✓
	uC-41-1	18:26	191K	20	7	0.1	0.6	181 \pm 3	-	✓
	uC-42-1	19:47	84K	30	48	3.6	5.3	115 \pm 3	-	✓
	uC-43-1	20:16	191K	208	113.9	0.7	0.5	116 \pm 1	-	✓
	uC-44-1	20:46	18K	77	18	9.9	17.5	228 \pm 6	-	X
	sl-4a-7	21:08	191K	1654	230	1.8	0.15	544 \pm 0.7	-	✓
	uC-45-1	21:32	191K	77	37	2.9	3.7	175 \pm 3	-	✓
	uC-46-1	21:56	18K	20	8.4	1.4	8.5	157 \pm 10	-	✓
	uC-47-1	22:18	191K	224	162	2.4	1.1	113 \pm 0.7	-	✓
	uC-48-1	22:41	17K	223	130	2.2	1.1	123 \pm 0.7	-	✓
	sl-3a-1	23:05	16K	1499	215	2.1	0.19	539 \pm 0.7	-	✓ $^{10} = 2.7$
	uC-49-1	23:33	16K	73	30	1.0	1.5	196 \pm 2	-	✓
	uC-50-1	23:58	9.7K	161	201	1.9	0.77	102 \pm 0.6	-	✓
	uC-51-1	0:18	18K	483	270	0.7	0.17	119 \pm 0.3	-	✓ $^{10} = 2.5$
	uC-52-1	0:49	17K	156	97	0.4	0.42	110 \pm 0.6	-	✓
	uC-53-1	1:16	17K	574	307	1.1	0.26	116 \pm 0.3	-	✓
	sl-3a-2	3:19	18K	1565	243	1.5	0.12	552 \pm 0.8	-	✓