

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 8/3/98 UWA Mount No.: 96-12 Whose sample?: YQ Operator(s): McV + YQ

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):	48	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040⁵ amu Dead-time = 32 nanosecs

actual 196-204 = 8.168 actual 204-bkg = 0.045 expected resolution = >4200

actual 206-207 = 1.001 actual 206-208 = 2.001 actual resolution = 5080

Primary = 4.1 nA PESABM = 56 pA actual Primary : PESABM (= 50:1) = 73

Raster time (mins): 1.34 Raster aperture (microns): 100 No. of scans: 5

Comments: B = YQ 38

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.		
	196 206 254	S1.1-1	10:08	6.57	18.1	2455	220	1.1	.10	572±1	544±27	204
	196 207 208	S1.2-1	10:22	6.59	18.5	2405	215	-0.4	.04	560±1	613±17	208
	196 238	B.1-2	10:39	6.80	18.2	10.2K	229	55.2	.98	1835±3	2776±6	204
	248 254	B.3-2	10:53	5.62	16.7	43K	130	2.2	.05	2613±8	2629±6	"
	196 206	S1.2-2	11:07	6.43	18.7	2307	221	1.0	.09	555±1	541±27	204
	208	B.14-2	11:22	6.64	18.3	3.3K	51.7	0.5	.03	2666±10	2728±7	"
		B.4-2				high						204
	196 206 250	B.16-2	11:43	6.05	18.4	2701	69.9	7.5	.35	2221±8	2716±9	"
	250	B.11-2	11:57	7.13	18.6	2348	52.0	1.7	.15	1631±6	2730±10	"
	QUIT ACQ → 238 254	S1.2-3	12:14	6.60	18.4	2420	215	0.0	.001	561±1	569±16	"
	250	B.8-2	12:29	6.90	18.2	7.9K	148	88.7	2.06	2050±5	2952±8	"

* Labelled 23-1
on printout

⊕ Overlapped rim zone → high U.

Mount/sample No: 96-12 Date: 8/3/98 Page No: 2

Rejection over-ride Sample/Std ID Time - printout UO/U 196 K cps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Corr.

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	B.9-2					high	204				
206	B.17-2	12:47	6.48	18.2	2.8K	46.4	0.1	.005	2669±?	2727 2748±?	204
206	sl.2-4	13:02	6.54	18.3	2366	218	0.8	.07	261±1	534±29	"
207, 208 488	B.18-2	13:16	6.78	18.6	4.7K	96.1	90.2	3.54	1905±6	2771 2786±13	"
206 17.8	B.20-2	13:30	6.44	18.7	2.7K	44.9	0.9	.06	2672±11	2727 2728±8	"
196 206 207, 208	B.21-2	13:45	6.62	18.4	2.9K	41.3	0.5	.03	2888±12	2979 3011±7	"
206 208 ✓	sl.2-5	14:01	6.35	19.0	2324	223	0.5	.04	566±1	565±23	"
QUIT ACQ →	23-1 B.23-2	14:15	6.73	18.1	11.8K	176	6.8	.10	2697±5	2789 2785±4	"
206	B.24-3	14:32	6.53	18.5	3173	49.2	0.8	.04	2771±11	2768 2775±7	"
0 206 208	B.24-4	14:48	8.13	10.2	2853	516	103	5.94	268±1	2768±22	"
196 208	sl.2-6	15:04	6.68	18.2	2503	211	0.3	.02	574±1	538±36	"
206, 488, 250	B.25-2	15:18	6.55	19.0	4033	81.9	40.5	1.70	2118±7	2702 2700±11	"
206	B.26-2	15:37	6.71	18.7	5.2K	95.5	78.1	2.60	2169±6	2934 2974±10	"
206	B.27-2	15:51	6.91	18.0	3.1K	105	41.0	2.49	1216±3	2720 2736±14	"
206 17.8 38	sl.2-7	16:06	6.68	18.1	2462	211	0.4	.04	571±1	589±21	"
238 208 88	B.12-2	16:20	8.10	14.0	4.9K	151	276	12.61	1022±4	2689 2740±25	"
206, 7 38	B.5-2	16:35	6.54	18.4	12.0K	200	3.3	.05	2599±5	2765 2784±4	"
206	B.29-1					high	204				
QUIT ACQ →	sl.3-1	17:06	6.39	19.1	2362	221	-0.7	.03	565±1	546±18	208
WENT TO UWA 97-37											

$206/U = 1.72345$
 $UO/U = 6.53226$
 $Pb^*/U = 0.23606$
 $n = 9$

$15 = 0.79\%$