

UWA SHRIMP DATA LOG

Date: 28.5.04 UWA Mount No.: 04-49 Whose sample?: marco Operator(s): AP / MG

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270

Precambrian Count time (secs): 2 10 10 ~~10~~³⁰/~~20~~¹⁰* 10 5 5 2
Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

C23
Steel: Wein volts / nA = 91v/18nA for O₁⁻; = 68/6.6 for O₂⁻; = 59/6.2 for NO⁻

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 5262

aperture = 100 microns retardation lens = 0 volts sensitivity = 18.6

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = 8.170 204-bkg = 0.045 204-206 = 2.001

206-207 = 1.001 206-208 = 2.002

Primary-epoxy = 4.8 nA Primary-CZ3 = 6.6 nA PESABM-CZ3 = 200 pA

Raster time (mins): 1.5 Raster aperture (microns): ~~80~~ 70 No. of scans: 6

Comments: min require
A = 10 } Be careful bec. zoned!
B = 10 } ~ 85 ma
C = 15 } ~ 80 ma

1-1 : 1.9825
 Pb/U = 0.1771
 UO/U = 5.8390

2-1 : 1.9052
 Pb/U = 0.2144
 UO/U = 6.4075

* NB: might be probs with conductivity on mount. part. around CZ3

NB: conductivity probs reflected.

208-corr

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	Offsets OK?
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1° = 6.6bt

new calibrated std

	CZ1-1	11:45	5.84	43	3800	238	1.1	0.09	572 ± 4	564 ± 25	✓
	CZ2-1	12:09	6.41	37	4100	238	0.0	0.00	572 ± 3	602 ± 18	✓
	A. 1-1	12:30	6.08	40	1200	46	0.6	0.78	87 ± 1	-	✓
	A. 2-1	12:56	6.12	38	160	63	-	-	88 ± 1	-	✓
	CZ. 3-1	13:18	5.99	39	3800	229	0.8	0.06	569 ± 2	565 ± 20	✓
	B. 1-1	13:48	5.93	38	250	112	2.1	1.64	81 ± 5	-	✓
	B. 2-1	14:27	5.96	38	310	129	0.6	0.98	86 ± 3	-	✓
	CZ. 2-2	14:47	6.12	40	3900	219	0.0	0.00	568 ± 5	556 ± 26	✓

zoned core + rim

SBM set to "0" zoned rim

208-Low

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 Offsets OK?

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	Offsets OK?
	A.3-1	15:08	6.27	38	160	64	1.1	1.14	86 ± 2	86 ± 205	✓
	A.4-1	15:34	5.95	36	130	57	0.0	0.00	89 ± 1	218 ± 117	✓
	A.5-1	15:56	6.19	37	150	60	0.6	0.46	86 ± 1	146 ± 176	✓
	C2.3-2	16:17	6.34	35	4000	242	0.3	0.04	590 ± 2	534 ± 27	✓
	<i>zoned rim</i> B.3-1	16:39	5.70	38	170	81	1.1	1.39	80 ± 1	97 ± 192	✓
	<i>zoned rim</i> B.4-1	17:01	6.11	34	260	127	0.1	0.46	80 ± 1	83 ± 158	✓
	<i>zoned core</i> B.5-1	17:23	6.15	32	240	113	0.5	0.94	87 ± 1	-	✓
	C2.3-1	18:48	6.27	41	3100	203	-	-	463 ± 264	1161 ± 328	✓
	C2.3-3	19:13	6.26	44	4700	235	0.8	1.07	565 ± 3	557 ± 22	✓
	A.6-1	19:38	5.93	46	150	56	0.3	1.72	83 ± 1	-	✓
	A.6-2	19:59	5.80	47	180	63	0.3	1.71	89 ± 1	-	✓
	C2.5-1	20:59	5.85	35	3200	224	0.5	1.05	568 ± 4	545 ± 30	✓
	A.7-1 B.3-2	21:20	6.04	35	88	40	1.1	3.82	82 ± 2	-	✓

1° spiked scan 3.

1° = 6.3AA

11V push

1° = 6.2AA

11V disappeared at after 3 scans.

Duo restated (errors)