

UWA SHRIMP DATA LOG

Date: 14/12/03 UWA Mount No.: 03-57
 03-79 Whose sample?: Daniela Operator(s): IF+DV

Indicate any change to the following: 196¹⁹⁶ 204 bkg 206 207 208 238 248 254 270

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

Steel: Wein volts / nA = for O⁻; = for O₂⁻; = for NO⁻

dead-time = 25 nanosecs expected resolution = >4200 actual resolution = 5900

aperture = 30 microns retardation lens = HV+6 volts

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 = 10.1405 204-bkg = 0.045 204-206 = ~1.992

206-207 = 1.0045 206-208 = 2.008

Primary-epoxy = nA Primary-CZ3 = 0.6 nA PESABM-CZ3 = pA

Raster time (mins): 2 Raster aperture (microns): 50 No. of scans: 6

Comments: *fine stds on c-30. M61 seems to have a charging problem.*

Main stds on 03-57

11 extra
 03-57 ~~11~~ ~~6~~ ~~X~~ ~~M~~ ~~61~~
~~1~~ ~~X~~ ~~X~~ ~~1~~
~~1~~ ~~X~~ ~~?~~ ~~other~~ ~~M~~ ~~61~~
 C-30 ~~5~~ ~~X~~ ~~X~~ ~~1~~
~~2~~ ~~X~~ ~~BSI~~
only.

Rejection over-ride	Sample/Std ID	Time - printout	254/238 UO/U	196 Kcps	5 206 cps	10 U ppm	3 204Pb ppb	f206 %	5/8 Age ±1σ (Ma)	6/5 207/206	Offsets OK?
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<i>dud.</i>	<i>C30 →</i>	M61-1	10:27								✓
	0357 →	M61-1	11:48								✓
<i>OK →</i>		X1-1	10:47								✓
<i>do not count</i>	<i>→ big BSI</i>	BSI-1	11:09								—
	<i>0357 →</i>	0357M-1	11:45	10.9	48	7.5 × 10 ²	11	0.07	0.7	0.06	—
		0357N-1	12:15	10.3	49	1.5 × 10 ⁴	93	0.05	1.7	0.07	—
		0357E1	13:11	9.4	30	1.3 × 10 ³	59	2.4	2.0	0.159	✓
		0357E1-2	14:06	10.0	40	1.5 × 10 ³	4	0.29	3.8	0.14	✓

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194-204 = 10.1405

206-207 = 1.0045

204-blkgd = 0.045

206-208 = 2.008

204-206 = -1.992

Mount/sample No: Date: Page No:

Rejection over-ride	Sample/ Std ID	Time - printout	10/8 UO/U	1 198 Kcps	5 206 cps	10 3 U 204Pb ppm	f206 %	5/8 6/5 Age ±1σ (Ma) 206/238 207/206	Offsets OK?
	0357g1-1	14:32	10.6	37	2.2x10 ³	6	0.07	3.90 0.14	✓
	0357g1-2	14:49	9.6	40	1.1x10 ³	3.1	0.098	3.3 0.14	✓
	0357L1-1	15:13	8.9	30	2x10 ³	32	0.14	0.54 0.13	✓
	0357JH	15:34	9.9	44	2x10 ⁴	57	0.37	3.4 0.486	✓
	0357J1-2	15:51	9.9	39	1.3x10 ⁴	44	0.38	2.85 0.14	✓
C30	X1-2	16:16	10.6	53	1.9x10 ⁴	110	0.08	1.8 0.07	✓
"	X1-3	16:32	10.4	53	1.9x10 ⁴	110	0.15	1.77 0.07	✓
"	X1-4	16:50	10.5	54	1.9x10 ⁴	110	0.1	1.74 0.07	✓
	X1-5	17:28	10.3	54	1.9x10 ⁴	110	0.11	1.71 0.07	✓
	0357KH	17:53	9.2	47	2.7x10 ³	15	1.1	1.66 0.124	✓
	0357MH	18:14	10.4	43	4x10 ⁴	91	0.5	4.6 0.17	✓
	0357M1-2	18:32	10.1	48	2.6x10 ⁴	61	0.3	4.4 0.17	✓
	0357dH	19:12	11.2	50	3.8x10 ⁴	77	0.11	5.5 0.17	✓
0357	0357M1-2	19:30	10.2	62	9.2x10 ³	14	0.13	0.68 0.06	✓
C30	BS1-2	19:48	9.8	42	3.8x10 ³	5.8	0.02	0.64 0.057	✓
"	BS1-3	20:08	10.4	40	4.5x10 ³	6.8	0.05	0.7 0.059	✓
0357	0357MGL3	20:54	10.3	57	8.7x10 ²	13	0.05	0.697 0.056	✓
"	0357MGL4	21:12	10.2	64	9.4x10 ²	14	0.05	0.699 0.057	✓
	0379FH	21:38	10.5	51	9.6x10 ³	36	0.4	2.8 0.112	✓
	0379AH	22:00	9.5	56	1.3x10 ⁴	47	0.16	2.666 0.106	✓
	0379BH	22:22	10.2	57	2.4x10 ⁴	82	0.1	2.92 0.11	✓
	0379EH	22:43	10.1	59	1.2x10 ⁴	43	0.08	2.74 0.11	✓
	0379IH	23:24	10.14	60	1.1x10 ⁴	37	0.08	2.91 0.11	✓
	0379JH	00:07	10.3	65	9.2x10 ³	34	0.25	2.8 0.11	✓
	0379MH	00:28	8.5	56	1.4x10 ⁴	46	0.7	2.7 0.16	✓

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Small BSI should be "BSI-1" as if started new

wrongly labelled as 0357FH-1

SAMPLE CHANGES

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10/8 1 5 10 3
 Rejection Sample/ Time - UO/U 196 206 U 204Pb f206 Age ±1σ (Ma) Offsets
 over-ride Std ID printout Kcps cps ppm ppb % 206/238 207/206 OK?

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	0379LI-1	00:54	10.2	68	2.1x10 ⁴	80	0.2		2.7	0.11	✓
	0379NH	01:16	9.7	67	1.1x10 ⁴	47	0.2		2.2	0.11	✓
	0379O-1	01:49	10.4	69	6x10 ³	20	0.08		3.05	0.11	✓
	0379PH-1	02:10	10.1	62	18x10 ⁴	63	0.11		2.9	0.11	✓
	0379HI-1	02:31	9.9	61	1.5x10 ⁴	54	0.14		2.7	0.11	✓
	0379GH	02:52 02:52	9.4	57	6.9x10³ 5.8x10 ³	28	0.15		2.3	0.11	✓
	0379I-1	03:14	9.9	59	1.5x10 ⁴	55	0.14		2.7	0.11	✓
	0379J-1	03:35	8.7	40	65x10 ³	34	0.3		1.7	0.11	✓
	0379L-2	03:55	10.5	60	8.1x10 ³	50	1.2		1.71	0.10	✓
	0379M-3	04:12	11.4	50	1.2x10 ⁴	95	0.2		1.4	0.11	✓
	0379MI-2	04:48	8.6	46	1.1x10 ⁴	53	0.8		1.77	0.155	✓
	0379PT-2	05:08	9.8	63	1.3x10 ⁴	48	0.15		2.6	0.11	✓
	0357	05:27	10.3	65	1x10 ³	15	0.04		0.7	0.06	✓
	0357MI-1	05:44	10.3	71	8x10 ²	10	0.07		0.74	0.06	✓
	0357L-2	06:04	9.5	44	1.5x10 ³	73	0.2		1.998	0.13	✓
	0357FI-1	06:27	9.6	51	1.5x10 ³	5.2	0.14		2.8	0.14	✓
	0357HI-1	06:56	10.2	29	5.7x10 ³	20	3.0		2.9	0.12	✓
	0357MG-1	07:37	10.3	65	9.4x10 ²	14	0.08		0.72	0.058	✓
	0357MG-1	07:54	9.7	66	9x10 ²	13	0.09		0.66	0.058	✓
	0357MG-1	08:10	9.99	65	9.6x10 ²	14	0.03		0.69	0.058	✓
	0357MG-1	08:29	10.1	67	9.7x10 ²	14	0.05		0.68	0.057	✓
	0357MG-10										

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 ← "0357"
 "MG-1"