

UWA SHRIMP DATA LOG

Date: 9/2/00 UWA Mount No.: 99-70 Whose sample?: BK Operator(s): Noel + Noreen

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

Precambrian Count time (secs): 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 = 24V/6.5 for O⁻; = 34V/2.7 for O₂⁻; = 56V/15.0 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4980

aperture = 7 microns retardation lens = 0 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 = 8.168 204-bkg = 0.045 204-206 = ~1.998 (2 ± 0.005)
 206-207 = 1.000 206-208 = 1.999

Primary-epoxy = 2.5 nA Primary-CZ3 = nA PESABM-CZ3 = pA

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: C = CG-3
A = CG-2 } tuffs (reworked) → do subhedral zir's
B = MW-2

Will use data with
 $u^0/a^+ \geq 6.9$

Either (some) sample grains charging, or
wrong ¹⁰ species - I think the former, given
Adrienne's difficulties in a subsequent session
— need a mount.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	<u>sl.1-1</u>	<u>17:19</u>	<u>7.62</u>	<u>12.6</u>	<u>1003</u>	<u>220</u>	<u>1</u>	<u>0.1</u>	<u>572 ± 1</u>	<u>562 ± 35</u>	<u>✓</u>
	<u>sl.1-2</u>	<u>17:37</u>	<u>7.6</u>	<u>13.0</u>	<u>983</u>	<u>213</u>	<u>-0.2</u>	<u>—</u>	<u>561 ± 1</u>	<u>574 ± 23</u>	<u>✓</u>
	<u>C.1-1</u>	<u>17:58</u>	<u>7.7</u>	<u>12.0</u>	<u>1011</u>	<u>392</u>	<u>0.8</u>	<u>0.05</u>	<u>2743 ± 15</u>	<u>2615 ± 13</u>	<u>✓</u>
	<u>C.2-1</u>	<u>18:17</u>	<u>5.4</u>	<u>9.7</u>	<u>457</u>	<u>676</u>	<u>-2.7</u>	<u>—</u>	<u>2720 ± 19</u>	<u>2574 ± 17</u>	<u>✓</u>
	<u>sl.1-3</u>	<u>18:35</u>	<u>7.57</u>	<u>13.4</u>	<u>1006</u>	<u>213</u>	<u>-1.3</u>	<u>—</u>	<u>580 ± 1</u>	<u>643 ± 23</u>	<u>204/206</u> <u>-1.9995</u>
	<u>C.3-1</u>	<u>18:54</u>	<u>7.57</u>	<u>12.7</u>	<u>1038</u>	<u>40.5</u>	<u>0.0</u>	<u>—</u>	<u>2730</u>	<u>2634</u>	<u>204/206</u> <u>-2.001</u>
	<u>C.4-1</u>	<u>19:13</u>	<u>5.2</u>	<u>8.6</u>	<u>327</u>	<u>148</u>	<u>4.1</u>	<u>0.2</u>	<u>1278 ± 6</u>	<u>1157 ± 57</u>	<u>204/206</u> <u>-2.00186</u>
	<u>sl.2-1</u>	<u>19:33</u>	<u>5.5</u>	<u>11.2</u>	<u>504</u>	<u>377</u>	<u>4.6</u>	<u>0.26</u>	<u>508 ± 1</u>	<u>463 ± 64</u>	<u>✓</u>

Mount/sample No: 99-70

Date: 9/2/00

Page No: 2

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?
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	1st 11. c5-1	19:54	5.68	9.1	282	37.5	7.4	0.5	2675 ± 25	2663 ± 31	204/206 1.99965
	c6-1	20:12	7.91	12.8	1762	158	0.5	0.02	1184 ± 3	1169 ± 18	✓ 204/206 1.9997
	c7-1	20:30	7.12	13.3	1581	58.4	0.8	0.03	3144 ± 14	3085 ± 8	204/206 1.9997
	sl.2-2	20:47	4.85	8.7	400	577	5.6	0.18	581 ± 1	450 ± 60	204/206 2.0008
	c8-1	21:06	5.85	10.6	522	318	22	1.38	540 ± 2	474 ± 107	204/206 1.99988
	c9-1	21:25	5.78	11.6	822	133	2.0	0.07	1773 ± 7	1826 ± 20	204/206 1.9994
	c10-1	21:44	6.94	12.3	603	31	1.1	0.09	2733 ± 18	2640 ± 17	204/206 2.0000
	sl.3-1	22:10	5.12	11.7	501	463	12.8	0.56	533 ± 1	581 ± 74	✓ 204/206 2.0007
	c11-1	22:29	7.38	13.3	2091	129	2.3	0.08	1898 ± 6	1824 ± 12	204/206 2.0007
	c12-1	22:48	7.67	12.7	969	36	-1.9	✓	2758 ± 15	2658 ± 11	204/206 2.0009
	c13-1	23:08	7.38	12.9	287	30	1.9	0.50	1220 ± 7	1034 ± 79	✓ 204/206 1.99995
	c14-1	23:27	7.28	12.7	1192	51	-0.5	✓	2777 ± 14	2646 ± 11	204/206 1.99995
	sl.3-3	23:46	5.16	8.5	415	496	-1.3	✓	555 ± 1	636 ± 35	204/206 2.0007
	c15-1	00:05	5.14	9.2	150	163	4.4	0.52	563 ± 2	535 ± 117	204/206 2.00002
	c16-1	00:22	7.38	12.7	1441	149	0.1	0.04	1241 ± 3	1233 ± 16	204/206 1.9996
	1st 10 c17-1	00:41	7.35	12.5	806	34	1.9	0.14	2782 ± 17	2651 ± 15	204/206 1.99992
	c18-1	00:59	7.28	12.6	1425	62	0.6	0.03	2736 ± 12	2639 ± 10	204/206 2.0008
	sl.3-4	01:16	5.19	8.0	423	504	11.0	0.41	570 ± 1	453 ± 65	204/206 1.9995
	c19-1	01:36	7.62	12.0	1077	44	0.6	0.03	2691 ± 14	2587 ± 12	204/206 1.9988
	c20-1	1:53	7.55	12.7	931	36	1.5	0.11	2742 ± 15	2618 ± 13	✓ 204/206 2.0012
	c21-1	2:11	7.64	11.9	797	31	-0.1	✓	2805 ± 17	2649 ± 13	✓ 204/206 2.0012
	c22-1	2:28	7.84	12.7	1487	74	7.5	0.37	2035 ± 8	2626 ± 12	✓ 204/206 2.0012
	c23-1	2:47	6.95	13.5	719	34	0.4	0.03	2730 ± 17	2666 ± 14	✓ 204/206 2.0013
	sl.4-1	3:06	7.66	12.5	1035	222	1.9	0.16	578 ± 1	466 ± 39	✓ 204/206 2.0013
	c24-1	3:26	5.01	9.6	195	42	-1.6	✓	2623 ± 26	2668 ± 26	204/206 2.0013

Could this be
c23? - check
photos.
look OK

do -
→

Mount/sample No: 99-70

Date: 10/2/00

Page No: 3

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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	C25-1	3:45	7.45	12.2	844	37	-1.0	—	2676±16	2652±13	✓
	C26-1	4:03	5.53	9.7	677	95	3	0.09	2664±15	2626±15	204/206 2.0006
	C27-1	4:21	7.37	12.7	1311	55	0.8	0.04	2717±13	2631±11	✓
	SI.5-1	4:40	7.48	12.4	940	221	1.8	0.15	568±1	638±53	✓
1st	C28-1	5:00	7.49	11.9	738	30	0.0	—	2865±19	2626±13	✓
	C29-1	5:18	6.32	12.0	1020	73	10.6	0.39	2682±13	2638±14	✓
	C30-1	5:37	7.50	12.38	754	28	-0.5	—	2766±18	2641±13	204/206 2.0003
	C31-1	5:56	7.70	10.91	932	38	1.9	0.12	2886±17	2620±13	✓
	SI.6-1	6:14	7.28	13.6	1027	225	0.5	0.04	598±1	585±41	✓
	C32-1	6:32	7.39	13.8	1424	51	0.5	0.02	2868±13	2747±10	✓
	C33-1	6:50	6.67	12.5	1091	62	-0.4	—	2725±13	2583±11	204/206 2.0006
last	C34-1	7:08	4.64	9.1	511	143	4.8	0.08	2936±20	2614±27	204/206 2.0013
	C35-1	7:28	7.49	13.1	826	33	0.3	0.03	2698±16	2641±15	204/206 2.0001
	SI.6-2	7:46	7.41	13.1	1005	223	2.0	0.16	585±1	557±36	204/206 2.0014
last	C36-1	8:05	7.36	12.5	787	33	1.2	0.09	2771±17	2638±14	204/206 1.9967
	C37-1	8:25	6.09	11.2	1173	101	3.4	0.09	2670±12	2634±12	✓
	C38-1	8:47	6.99	12.5	890	43.3	-0.7	—	2772±15	2619±12	✓
	C39-1	9:05	6.25	11.9	983	73.9	2.4	0.09	2663±13	2619±14	✓
	SI.7-1	9:23	7.30	13.2	994	229	2.1	0.17	582±1	554±38	✓

FINISH