

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 19/12/96 UWA Mount No.: 96-80 Whose sample?: Dave Matri, Chris Yeats Operator(s): McN / DM / CY

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): 78 3 1 2 1 1 3 2 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.168 actual 204-bkg = 0.040 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5215

Primary = 2.8 nA PESABM = 44 pA actual Primary: PESABM (≈ 50:1) =
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments:
 A = Radio Hill
 B = R1

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
DISCARD →	sl. 1-1	11:36	5.71	15.6	1554	220	1.4	.12	571 ± 1	518 ± 28	204
	sl. 5-1	11:56	5.61	16.2	1628	220	0.4	.04	572 ± 1	557 ± 30	204
	A. 1-1	12:17	5.56	17.5	3.0K	123	43.3	1.68	1607 ± 4	2605 ± 12	204
1° ~ 10% lower!	A. 2-1	12:37	5.21	15.2	2.5K	296	159.6	5.08	852 ± 2	2510 ± 23	204
	sl. 5-2	12:55	5.50	16.9	1597	225	0.5	.04	567 ± 1	557 ± 22	204
	A. 3-1	13:15	6.04	15.7	4.0K	179	60.0	2.08	1275 ± 3	2586 ± 12	204
	A. 4-1	13:33	5.05	12.0	1952	188	75.8	2.10	1488 ± 5	2624 ± 16	204
	A. 5-1	13:51	5.45	16.0	3.2K	94	4.1	.12	2558 ± 8	2597 ± 7	204
	sl. 5-3	14:09	5.60	16.5	1650	220	0.8	.07	572 ± 1	519 ± 28	204
1° ~ 10% lower	A. 6-1	14:28	6.50	13.4	2.6K	104	19.2	1.06	1377 ± 4	2603 ± 12	204
	A. 7-1	14:46	6.56	13.9	3.7K	333	159.5	6.84	555 ± 1	2624 ± 20	204

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	A.8-1	15:04	5.94	15.6	3.6K	104	27.4	1.00	1989±5	2591±10	204
	A.9-1	15:23	6.96	14.3	3.5K	126	27.2	1.49	1154±3	2628±11	204
	sl.5-4	15:44	5.81	15.7	1661	210	-0.1	.04	560±1	572±19	208
	A.10-1	16:04	6.22	14.9	3.7K	100	17.4	.68	1947±5	2590±9	204
1° ~ 15% lower	A.11-1	16:22	6.24	10.5	578	38.9	3.8	.76	1173±6	1647±41	204
	A.12-1	16:41	5.04	17.5	2.6K	269	117.0	3.52	983±2	2599±18	204
	A.13-1	17:05	5.89	18.3	3.1K	108	48.2	2.26	1523±4	2612±14	204
	sl.5-5	17:23	5.79	15.6	1643	210	1.5	.14	564±1	555±28	204
DAVE MARTIN CHRIS YEATS											
204 206 207 248	B.1-1	17:42	6.18	15.6	7.7K	171	3.9	.08	2282±5	2476±6	204
204	B.2-1	18:04	6.07	15.8	4.6K	98	4.1	.13	2423±7	2623±6	204
206 248	B.3-1	18:21	5.73	16.5	8.9K	200	1.5	.02	2634±5	2661±4	204
238 248 196 204 206 207 208 248	B.4-1	18:39	5.76	17.1	1986	41.8	9.7	.62	2662±12	2671±11	204
	B.5-1	18:58	5.41	18.4	4.6K	102	46.3	1.08	2879±8	2715±8	204
	sl.4-1	19:21	6.00	16.5	1862	194	0.5	.05	575±1	536±22	204
206 207 248 254	B.6-1	19:41	5.72	17.8	4.9K	101	5.7	.15	2672±7	2644±6	204
196 238 254 * 206, 207, 208 * 248 all fail!	B.7-1	20:00	5.58	18.1	3.6K	80.1	1.7	.06	2694±8	2668±7	204
208 * 206, 207, 208 248 254 all fail!	B.8-1	20:19	5.85	17.0	10.7K	220	0.6	.01	2618±5	2666±4	204
196 206 207 208 238 248 254	B.9-1	20:37	5.75	17.8	6.1K	125	15.2	.33	2661±7	2626±6	204
196 207 208 254 254 * 206, 207 all fail! 196 248	B.10-1	20:56	5.70	18.1	3.9K	78.8	12.1	.40	2713±8	2598±8	204
	B.11-1	21:15	5.81	17.0	1832	39	19.0	1.35	2573±12	2659±14	204
	sl.4-2	21:37	5.94	16.4	1733	201	0.9	.09	544±1	622±27	204
204 * 206-254 all fail! 196 206 207	B.12-1	21:56	6.06	15.6	5.1K	98.9	7.7	.21	2658±7	2649±5	204
238 248 254 204	B.13-1	22:16	5.51	33.8	2.7K	58.1	68.8	3.07	2665±10	2658±16	204
* 206-254 fail!	B.14-1	22:34	5.76	16.8	4.7K	103	6.6	.17	2627±7	2669±6	204

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
206 207 208 254 *248 all fail	B.15-1	22:53	5.57	17.5	46K	109	3.8	-10	2632 ± 7 2669 ± 6	204
206 207 208 *238 248 254 fail	B.16-1	23:10	5.91	16.9	3.6K	76.7	5.6	-21	2591 ± 8 2657 ± 7	204
	sl. 4-3	23:31	5.87	16.9	1804	205	1.6	-15	560 ± 1 539 ± 26	204
204 206 238 5cm 1 del.	B.17-1	23:51	5.33	17.1	2626	68.5	28.2	1.01	2828 ± 11 2688 ± 10	204
206 207 208	B.18-1	00:10	6.04(?)	14.5	106K	179.2	27.9	+41	2722 ± 5 2632 ± 4	204
196 206 208 238 248 254	B.19-1	00:31	6.03	14.6	2477	56.7	3.2	-16	2513 ± 9 2673 ± 8	204
206 254	B.20-1	00:49	6.46	14.7	6.3K	113.9	1.7	+04	2520 ± 6 2625 ± 5	204
238 248 254 *204 206 208 208 all fail 206 248	B.21-1	01:08	6.35	13.7	64.4K	1236	4557.5	10.36	2445 ± 2 2281 ± 8	204 !! High
	B.22-1	01:27	5.55	14.0	3.2K	101.6	3.8	+11	2520 ± 8 2676 ± 7	204
	sl. 4-4	01:46	6.05	16.0	1801	196.2	-	-02	558 ± 1 587 ± 18	208
176 204 *206-254 all fail	B.23-1	02:06	5.61	15.5	3.0K	78.0	6.2	-21	2666 ± 9 2670 ± 7	204
248	B.24-1	02:27	5.93	14.1	5.0K	115.5	-	-	2659 ± 7 2669 ± 5	-
*206-254 all fail	B.25-1	02:46	6.46	14.2	6.2K	110.1	0.3	+01	2611 ± 7 2659 ± 5	204
204 238 *206-208 248 254 all fail	B.26-1	03:04	6.54	14.9	6.9K	134.1	11.6	-29	2252 ± 5 2553 ± 6	204
206 208 238 254	B.27-1	03:23	6.25	14.1	13.3K	306.7	5.4	+06	2328 ± 4 2396 ± 4	204
*248 all fail	B.28-1	03:42	5.85	16.3	7.9K	201.3	165	2.72	2230 ± 5 2467 ± 10	204 !! High
204 206 207 208 254	sl. 5-6	04:02	5.73	16.8	1691	209.9	-	+01	559 ± 1 586 ± 19	208
196 206 208 208 238 254 *248 all fail	B.29-1	04:22	5.67	16.8	2127	48.6	0.2	+01	2669 ± 11 2653 ± 8	204
204	B.30-1	04:40	5.77	16.8	4.4K	98.9	9.6	-27	2532 ± 7 2652 ± 7	204
196 207 238 248 254 *208 all fail	B.31-1	04:59	5.81	16.8	6.8K	141.4	126.8	2.40	2625 ± 6 2634 ± 9	204 !! High
206 208 238	B.32-1	05:18	6.59	14.8	12.8K	287.4	9.4	+13	1981 ± 3 2207 ± 4	204
*248 254 all fail	B.33-1	05:36	7.00	14.3	21.7K	354.8	7.3	+07	2306 ± 3 2328 ± 3	204
238 254 *206 208 208 248 all fail	B.34-1	05:57	6.00(?)	16.8	4.1K	88.3	8.4	-26	2587 ± 7 2663 ± 6	204
207 254	sl. 5-7	06:17	5.62	17.1	1704	214.6	0.7	+06	578 ± 1 545 ± 25	204
196 207 208 248	B.35-1	06:38	5.92	16.6	2846	57.6	23.4	1.11	2598 ± 9 2673 ± 11	204

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
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204 207 238
248 254
*196 all in!

	B.36-1	06:57	629	15.0	9.2K	182.8	4.3	.07	2491±5	2580±4	204
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204 206 247
208 238 248
254

	B.37-1	07:16	5.66	17.5	3.3K	73.3	4.7	.18	2631±8	2631±7	204
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End of session (No standard left)