

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 11/12/95
 UWA Mount No.: 95-33
 Whose sample?: A. Ross
 Operator(s): McW + Marcus

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	5	5	2 ✓
	Delay time (secs):	7	3	1	2	1	1	3	2	2 ✓
Phanerozoic	Count time (secs):	2	10	10	10	10	10	5	5	2
	Delay time (secs):	7	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
 Primary = 2.3 nA PESABM = 37 pA actual resolution = 4770
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 62.2

Comments: 7 SCANS RASTER TIME = 2 MINS
 APERTURE = 120 μ

① 207 for 40 sec: all others = 30 sec
 * calibrating std
 Zr14: 1.96276
 Uo14: 6.72763
 Pb*14: 0.233864
 n=6 1std dev = 1.0681%

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.
	① std 1-1*	10:48	6.22	16.5	1700	220	1.3	.06	572 ± 1	610 ± 16	208
	std 1-2*	11:13	6.58	16.3	1824	220	1.4	.14	571 ± 1	589 ± 17	208
	U 5-1R	11:36	6.49	16.8	1776	39	3.1	.21	2672 ± 11	2684 ± 9	204
AR	U 4-1R	11:58	6.43	16.6	505	11.3	2.4	.54	2729 ± 22	2649 ± 20	204
	std 1-3	12:21	6.65	16.0	1932	225	3.1	.15	582 ± 1	541 ± 17	208
AR, NL	U-1-1R	12:41	6.62	17.1	1920	38.1	3.3	.22	2736 ± 11	2654 ± 9	204
AR	U 1-2R	13:01	7.11	14.8	2007	38.3	2.2	.15	2676 ± 11	2693 ± 8	204
AR	U 1-3R	13:22	6.75	17.2	858	20.4	1.4	.22	2215 ± 12	2700 ± 14	204
AR	U 1-4R	13:42	7.01	15.2	1707	32.4	1.6	.13	2701 ± 12	2678 ± 9	204
	std 1-4	14:03	7.21	14.6	1968	202	2.6	.07	573 ± 1	590 ± 16	208
	U 3-1R	14:25	6.74	16.2	892	18.6	0.7	.11	2619 ± 16	2694 ± 13	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.
	U 3-2R	14:47	6.60	16.7	1099	22.4	2.1	.24	2740 ± 15	2663 ± 12	204
	U 3-3R	15:08	5.88	19.2	1501	38.9	2.0	.13	2719 ± 12	2677 ± 10	204
	U 3-4R	15:30	6.61	16.2	836	17.6	2.6	.39	2720 ± 17	2654 ± 15	204
	std 2-1	15:51	6.41	16.7	1814	226	4.3	.19	583 ± 1	616 ± 17	208
	U 2-1R	16:13	6.58	15.5	1236	27.6	2.8	.26	2719 ± 15	2663 ± 12	204
	U 10-1	16:34	6.64	15.9	1635	35.3	5.7	.43	2673 ± 12	2671 ± 11	204
	U 11-1	16:55	6.59	15.7	2087	45.3	3.2	.18	2740 ± 11	2676 ± 8	204
	U 8-1R	17:17	6.78	15.2	1231	25.9	1.5	.15	2700 ± 14	2689 ± 11	204
	std 2-2	17:37	7.23	14.2	2030	207	1.8	.19	586 ± 1	547 ± 17	208
Remove scan of 238	U 6-1R	18:05	7.11	14.5	2344	45.7	1.1	.06	2678 ± 11	2675 ± 9	204
	U 6-2R	18:27	6.25	18.1	1435	31.9	2.0	.16	2746 ± 13	2681 ± 10	204
	U 11-2	18:48	7.13	14.5	1902	36.6	2.1	.15	2680 ± 11	2685 ± 9	204
	U 12-1										
	U 12-1	19:09	6.27	16.8	1688	39.2	2.3	.15	2796 ± 12	2684 ± 9	204

GO TO 95-28 (~7:30pm)