

**UWA SHRIMP DATA LOG**

**B**

Date: 29-11/04      UWA Mount No.: C71, C33, ~~C34~~      Whose sample?: XI-P763 + ~~APC/10/04~~      Operator(s): AP + MB

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	24	42	1	3	2	2

Steel: Wein volts / nA = <sup>198V 2.5nA</sup> ~~198V / 1.8nA~~ for O<sup>-</sup>; = 142V / 1.8nA for O<sub>2</sub><sup>-</sup>; = \_\_\_\_\_ for NO<sup>-</sup>

dead-time = 24 nanosecs      expected resolution = >4200      actual resolution = 5384  
 aperture = 50 microns      retardation lens = 0 volts      sensitivity = 26.4

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 = 8.165      204-bkg = 0.045      204-206 = 2.013  
 206-207 = 1.005      206-208 = 2.009

Primary-epoxy = 1.6 nA      Primary-CZ3 = 2.14 nA      PESABM-CZ3 = 52 pA  
 Raster time (mins): 2      Raster aperture (microns): 125      No. of scans: 6

Comments: C71C ~ 25-30 start @ 14-1  
 C33A ~ ~~20-25~~ start @ 25-1  
 ~ 20-25 (concordant)

Calibr # 14904  
 Pb/U = 0.2109  
 UO/U = 58785

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Offsets OK?
---------------------	---------------	-----------------	------	----------	---------	-------	-----------	--------------------	------------------------------	-------------

**C71**

raster apert. 120µm

change name 1-4 → 2-7

A 125µm new cali =

probs with focus.

probs w/ focus?

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Offsets OK?
	C2.2-6	11:04	5.74	13	1800	551	3.4	0.13	563 ± 5    511 ± 34	✓ 26.3
	C2.2-7	11:24	5.88	13	1900	551	0.9	0.04	564 ± 4    502 ± 25	✓ 28.6
①	C.14-1	11:50	5.95	13	3100	158	-	-	2642 ± 21    2711 ± 7	✓ 29.3
①	C.15-1	12:15	5.92	13	3800	200	2.8	0.05	2650 ± 26    2665 ± 7	✓ 26.0
	C2.4-1	12:37	5.79	13	1800	562	1.2	0.05	547 ± 3    487 ± 41	✓ 25.8
③	C.16-1	12:59	5.87	13	2600	136	3.8	0.10	2720 ± 27    2704 ± 11	✓ 25.5
	C.17-1	13:18	5.78	12	3100	199	-	-	2552 ± 23    2717 ± 9	✓ 22.7
	C2.3-4	13:37	5.83	14	1800	525	-	-	548 ± 4    558 ± 20	✓ 26.9

Sens.

C33

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204pb ppb	f <sub>206</sub> %	Age ± 1σ (Ma) 206/238	207/206	Offsets OK?
	C-18-1	13:58	5.84	13	3800	212	1.3	0.02	2513 ± 17	2665 ± 8	✓ 26
ⓐ	C-19-1	14:17	5.68	12	1900	115	1.3	0.04	2604 ± 35	2699 ± 14	✓ 23
ⓑ	C-20-1	14:39	5.91	14	3800	198	1.7	0.03	2621 ± 33	2702 ± 8	✓ 28.8
ⓐ	<del>C-23-5</del> C-21-1	15:02	5.92	13	1900	542	0.6	0.02	578 ± 4	548 ± 33	✓ 26.9
ⓑ	<del>AWBNS</del>	15:24	5.80	13	1800	92	3.6	0.15	2629 ± 31	2706 ± 11	✓ 31
ⓐ	C-22-1	15:43	5.81	13	2100	107	1.9	0.07	2637 ± 25	2722 ± 11	✓ 27
	C-23-1	16:05	5.72	13	300	171	-	-	2584 ± 20	2708 ± 7	✓ 25.9
	C-23-6	16:25	5.78	12	1700	555	0.5	6.02	550 ± 4	567 ± 29	✓ 26.8
* ⓐ	C-24-1	16:47	5.79	13	4900	287	2.6	0.04	2511 ± 15	2618 ± 8	✓ 26.6
* ⓑ	C-25-1	17:05	5.77	13	2700	147	1.5	0.04	2584 ± 43	2658 ± 12	✓ 26.7
	C-26-1	17:25	5.70	13	800	26	4.4	0.36	2589 ± 42	2719 ± 17	✓ 25.0
	C-24-2	17:45	5.68	13	1800	552	5.9	0.22	562 ± 5	576 ± 33	✓ 25.5
	C-27-1	18:10	5.84	12	2400	136	-	-	2550 ± 27	2715 ± 10	✓ 26.0
	C-28-1	18:32	5.97	15	2900	153	-	-	2558 ± 24	2709 ± 11	✓ 29.0
	C-29-1	18:50	5.87	12	2800	162	1.2	0.03	2499 ± 23	2678 ± 11	✓ 28.1
	C-24-3	19:19	5.81	12	1800	573	1.9	0.07	550 ± 5	493 ± 37	✓ 26.6
	C-30-1	19:44	5.87	13	2700	148	1.4	0.04	2581 ± 33	2707 ± 8	✓ 27.0
* ⓐ	C-31-1	20:03	5.79	13	4200	232	0.7	0.01	2608 ± 21	2719 ± 8	✓ 27.6
	C-32-1	20:24	5.85	13	2900	167	2.8	0.06	2534 ± 26	2701 ± 8	✓ 26.1
	C-33-1	20:45	5.89	13	2000	211	0.6	0.01	2608 ± 29	2712 ± 7	✓ 26.3
	C-24-4	21:04	5.70	13	1400	557	-	-	550 ± 5	536 ± 25	✓ 27.1
ⓐ	C-34-1	21:23	5.82	13	3500	180	0.2	0.003	2624 ± 30	2709 ± 8	✓ 25.7
	C-35-1	21:44	6.02	14	5500	292	0.2	0.002	2423 ± 22	2596 ± 9	✓ 27.8
	C-36-1	22:03	5.77	14	2800	154	0.6	0.015	2522 ± 20	2668 ± 8	✓ 24.9
	C-25-1	22:21	5.77	14	1900	551	1.7	0.065	543 ± 5	532 ± 29	✓ 27.7

Big 1° spike in scan 2  
→ Street new analysis

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	C.37-1	22:41	5.84	14	3600	186	0.3	0.006	2546 ± 8	2645 ± 9	✓ 29.0
	C.38-1	23:00	6.11	13	3300	184	-	-	2478 ± 29	2672 ± 8	✓ 26.8
	C.39-1	23:19	5.82	13	10000	585	6.5	0.04	2590 ± 11	2676 ± 7	✓ 26.1
	C.40-1	23:42	5.85	13	6300	338	4.7	0.05	2553 ± 21	2712 ± 7	✓ 26.8
	C2.5-2	00:00	5.72	12	1500	550	2.4	0.095	535 ± 4	510 ± 30	✓ 25.7
	C.41-1	00:20	5.84	12	3900	221	4.6	0.008	2545 ± 22	2658 ± 8	✓ 28.5
	C.42-1	00:38	5.78	13	2900	162	-	-	2568 ± 23	2729 ± 8	✓ 27.2
	C.43-1	00:57	5.78	13	4100	224	-	-	2541 ± 25	2685 ± 8	✓ 26.2
	C.44-1	01:16	5.84	13	4700	255	2.1	0.03	2546 ± 27	2722 ± 8	✓ 26.2
C-71 out	C2.5-3	01:35	5.68	13	1800	557	0.3	0.01	546 ± 4	556 ± 23	✓ 25.9
Mount change	C-33 in										
	C2.2-8	01:59	6.08	13	1900	566	2.58	0.01	531 ± 5	477 ± 36	✓ 26.6
New cone + calib std for data taken on C33 (for prints) only, of course!	C2.2-7	02:18	5.97	13	1900	551	0.8	0.03	564 ± 4	514 ± 32	✓ 26.8
	a.25-1	02:38	5.80	13	4800	269	1.2	0.016	2628 ± 17	2676 ± 7	✓ 24.8
	a.26-1	02:56	5.91	13	4900	289	0.8	0.01	2642 ± 21	2636 ± 8	✓ 25.6
	a.27-1	03:14	5.90	13	3700	208	1.4	0.002	2636 ± 22	2682 ± 8	✓ 24.9
	a.28-1	03:33	5.87	13	4300	246	6.0	0.001	2635 ± 24	2659 ± 7	✓ 24.5
	a.29-1	03:52	5.93	13	3400	191	11.6	0.2	2625 ± 24	2679 ± 10	✓ 25.3
	C2.2-10	04:11	5.99	13	1900	556	2.8	0.1	565 ± 5	528 ± 29	✓ 25.4
	a.30-1	04:30	5.84	13	4300	247	-	-	2657 ± 36	2667 ± 20	✓ 26.3
	a.31-1	04:48	5.91	12	4900	275	146.	1.9	2666 ± 19	2647 ± 13	✓ 25.0
	C.32-1	05:07	6.12	12	5300	339	7.0	0.08	2573 ± 17	2638 ± 6	✓ 26.9
	a.33-1	05:36	6.22	12	5600	341	44	0.52	2440 ± 15	2574 ± 8	✓ 25.5
	a.34-1	05:55	5.94	12	4900	276	-	-	2640 ± 20	2656 ± 8	✓ 24.2
	C2.2-11	06:13	5.97	13	1800	553	4.0	0.15	562 ± 5	546 ± 30	✓ 26.4

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.35-1	06:33	5.99	13	4100	228	-	-	2622±32	2686±9	✓24.7
	a.36-1	06:57	5.98	12	5100	283	4.2	0.055	2627±23	2654±6	✓23.8
	a.37-1	07:16	5.97	15	4900	271	43.5	0.59	2614±18	2646±12	✓26.2
	a.38-1	07:34	5.94	13	3400	192	0.7	0.01	2625±28	2674±11	✓25.0
	a.39-1	07:53	5.89	13	3900	231	-	-	2666±25	2670±8	✓23.7
	<b>CE.2-12</b>	<b>08:11</b>	<b>5.95</b>	<b>13</b>	<b>2000</b>	<b>551</b>	-	-	<b>572±4</b>	<b>593±30</b>	<b>✓25.4</b>
	a.40-1	08:32	6.02	12	4300	243	54.6	0.82	2643±24	2685±14	✓25.2
	a.41-1	09:51	6.01	13	3900	214	1.8	0.03	2607±21	2672±7	✓26.5
* Dip in 1° during Scan 5. (~10%) *	a.42-1	09:09	6.15	13	5500	286	16	<del>0.20</del> 0.20	2631±22	2661±7	✓26.9
	a.43-1	09:31	6.04	13	6300	337	4.2	0.05	2554±15	2577±6	✓24.9
	a.44-1	09:49	5.66	14	3700	185	2.4	0.05	2643±79	2665±9	✓25.0
	<b>CE.2-13</b>	<del>08:50</del> <b>09:07</b>	<b>5.90</b>	<b>14</b>	<b>2000</b>	<b>549</b>	-	-	<b>570±5</b>	<b>624±47</b>	<b>✓25.5</b>
* change name	a.45-1	10:26	5.78	14	4400	248	4.4	0.07	2571±20	2663±8	✓24.2