

### UWA SHRIMP DATA LOG

Date: 10/04/00 UWA Mount No.: A-14 Whose sample?: Steve G  
A.G.S.D.  
~~Steel~~ Operator(s): IFTMG

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 = ..... for O<sup>-</sup>; = ..... for O<sub>2</sub><sup>-</sup>; = ..... for NO<sup>-</sup>

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 5336

aperture = 100 microns retardation lens = 1000V 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 = 1.999  
 206-207 = 1.000 206-208 = 2.000

Primary-epoxy = ..... nA Primary-CZ3 = 18.0 nA PESABM-CZ3 = 45 pA

Raster time (mins): 5 Raster aperture (microns): 120 No. of scans: 7

Comments: Sensitivity = 5.5 (OK for O<sup>-</sup>; Pb<sup>+</sup> is ~ 2 \* Pb<sup>+</sup> from O<sub>2</sub>)  
 ① short rasters before here to check 204<sup>+</sup> on CZ3.  
 ② Increased retardation 1 large.  
 ③ AK testing software links. Computer crash, needed to reestablish 2<sup>o</sup> conditions.

Rejection <del>excess</del>	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?
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	<u>C2.4-1</u>	<u>11:15</u>	<u>5.17</u>	<u>45</u>	<u>2965</u>	<u>-</u>	<u>0.5</u>	<u>0.4</u>	<u>-</u>	<u>528</u>	<u>✓</u>
	<u>C2.4-2</u>	<u>printout</u>	<u>lost</u>	<u>due to</u>	<u>computer-printer glitch</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>30 sec raster</u>											
<u>1 min raster</u>	<u>①</u>	<u>B.1-1</u>	<u>12:14</u>	<u>4.59</u>	<u>49</u>	<u>24</u>	<u>99</u>	<u>?</u>	<u>?</u>	<u>3 bad scans</u>	<u>-</u>
	<u>②</u>	<u>B.2-1</u>	<u>12:42</u>	<u>4.69</u>	<u>47</u>	<u>0.8</u>	<u>16</u>	<u>0.2</u>	<u>✓</u>	<u>3.1</u>	<u>-</u>
		<u>B.3a-1</u>	<u>13:10</u>	<u>4.73</u>	<u>49</u>	<u>1.0</u>	<u>22</u>	<u>no</u>	<u>-</u>	<u>2.8</u>	<u>-</u>
		<u>C2.1-1</u>	<u>13:37</u>	<u>4.88</u>	<u>49</u>	<u>2848</u>	<u>250</u>	<u>0.6</u>	<u>0.05</u>	<u>569</u>	<u>539</u>
		<u>B.21-1</u>	<u>14:04</u>	<u>4.93</u>	<u>50</u>	<u>5.3</u>	<u>48</u>	<u>no</u>	<u>-</u>	<u>2.6</u>	<u>-</u>
		<u>B.17-1</u>	<u>14:32</u>	<u>4.72</u>	<u>52</u>	<u>4.1</u>	<u>80</u>	<u>0.0</u>	<u>1.2</u>	<u>2.9</u>	<u>-</u>

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238	207/206	Offsets OK?
	B.22-1	15:01	5.01	52	2.9	46	0.4		2.8	-	✓
	CZ.1-3	16:31	5.25	41	2888	220	1.1	0.09	-	570	✓
	B.23-1	17:00	4.67	50	2.2	33	0.3		4.2	-	
	B.24-1	17:30	4.89	41	1.5	28	0.6		3.3		✓
	B.6-1	17:59	4.90	44	1.8	38	0.0		2.6		✓
	CZ.1-4	18:29	4.73	43	2516	288	0.7	0.04	586	571	✓
	B.7-1	18:58	4.81	42	2.0	45	0.6	-	2.9		✓
	B.25-1	19:27	4.88	42	1.1	22	-ve	-	2.9		✓
	B.8-1	19:58	5.03	43	1.8	35	1.0		2.7		✓
	CZ.1-5	20:28	4.85	43	2524	260	0.5	0.03	569	567	✓
	B.15-1	21:17	5.06	46	1.2	17	0.5		3.5	-	✓
	B.17-1	21:46	5.00	46	2.8	50	0.3		2.9		✓
	CZ.1-6	22:15	5.15	39	2581	236	-ve	-	548	550	✓
Retardation out Change to $\text{O}_2^-$											
	CZ.1-7	23:04	6.56	21	1901	220	0.5	0.04		575.5	✓
	CZ.1-8	23:22	6.79	26	1914	209	1.6	0.15	564	588	✓
	D.1-1	23:43	6.48	21	3373	67	7.5	0.27	2809	2747	✓
	D.2-1	00:03	6.40	21	5087	108	11.6	0.27	2750	2759	✓
	D.3-1	00:20	6.54	21	5965	118	11.0	0.24	2769	2746	✓
Abandoned High 204	D.4-1										
	D.5-1	0:42	6.50	21	5327	105	1.7	0.04	2780	2755	✓
	CZ.1-9	01:02	6.53	20	1846	221	2.2	0.19	571	482	✓

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Rejection <del>override</del>	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)		Offsets OK?
									206/238	207/206	
	D.6-1	01:20	6.50	21	6072	118	5.8	0.12	2826	2735	✓
	D.7-1	01:38	6.36	21	5333	120	35.6	0.76	2715	2748	✓
	D.8-1	01:57	6.56	21	4989	96	1.0	0.03	2760	2761	✓
	D.9-1	02:16	6.46	21	4506	89	0.9	0.02	2803	2750	✓
	C2.1-10	02:34	6.47	20	1734	226	0.9	0.08	543	580	✓
	D.10-1	02:55	6.15	24	2884	61	2.2	0.09	2795	2747	✓
	D.11-1	03:13	6.56	21	2601	51	-ve	-	2769	2758	✓
	D.12-1	03:33	6.45	21	5671	119	3.0	0.06	2744	2747	✓
Migh 204	D.13-1	03:51	4.22	11	1625	408	503	3.4	2537	2699	✓
	C2.1-11	04:10	6.44	20	1798	229	0.4	0.04	561	528	✓
	D.14-1	04:27	6.55	21	5886	113	1.6	0.03	2808	2741	✓
	D.15-1	04:45	6.63	21	7273	137	3.3	0.06	2812	2753	✓
	D.16-1	05:07	6.52	19	2660	62	0.5	0.02	2652	2744	✓
	D.17-1	05:24	6.66	21	7956	147	1.2	0.01	2794	2749	✓
	C2.1-12	05:43	6.52	21	1853	223	0.0	-	555	584	✓
	D.18-1	06:00	6.51	21	4531	87	0.9	0.02	2818	2757	✓
	D.19-1	06:18	6.50	21	6746	132	2.0	0.04	2821	2763	✓
last scan	D.20-1	06:36	5.46	18	1948	91	-ve	-	2620	2732	✓
	D.21-1	06:54	5.89	20	2648	81	0.8	0.03	2669	2790	✓
	C2.1-13	07:13	6.43	20	1745	232	0.4	0.03	534	544	✓
	D.22-1	07:31	6.48	22	5912	113	4.6	0.10	2796	2753	✓
	D.23-1	07:49	6.67	22	5937	106	12.2	0.29	2760	2744	✓
	D.24-1	08:07	6.47	22	4174	83	10.5	0.32	2729	2741	✓
	C2.1-14	08:25	6.43	21	1938	226	0.2	0.01	580	550	✓