

### UWA SHRIMP DATA LOG

Date: 14/03/00      UWA Mount No.: 99-84      Whose sample?: NMN/AGSO      Operator(s): IF + Amy Lowe

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

**Precambrian**    Count time (secs):    2 ✓ 10<sup>5</sup>    10<sup>5</sup>    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 = 19.5 for O<sup>-</sup>; = 2.8 for O<sub>2</sub><sup>-</sup>; = 4.0 for NO<sup>-</sup>

dead-time = 32 nanosecs      expected resolution = >4200      actual resolution = 4875

aperture = 100 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

206-207 = 1.000    206-208 = 2.000

Primary-epoxy = 2.4 nA    Primary-CZ3 = 3.2 nA    PESABM-CZ3 = 45 pA

Raster time (mins): 2    Raster aperture (microns): 120    No. of scans: 6

Comments: Unusual 206, 207 integration times.  
Sensitivity = 17.5

Rejection	Sample/	Time -	UO/U	196	206	U	204Pb	f206	Age ±1σ (Ma)	Offsets
<del>over ride</del>	Std ID	printout		Kcps	cps	ppm	ppb	%	206/238    207/206	OK?

	<u>C2-6a-1</u>	<u>10:31</u>	<u>7.34</u>	<u>14.8</u>	<u>1581</u>	<u>-</u>	<u>0.4</u>	<u>0.3</u>	<u>624</u>	<u>-</u>
	<u>C2-6a-2</u>	<u>10:50</u>	<u>6.90</u>	<u>18.4</u>	<u>1796</u>	<u>244</u>	<u>0.1</u>	<u>0.1</u>	<u>564</u>	<u>591</u>
	<u>A-1-1</u>	<u>11:11</u>	<u>6.63</u>	<u>19.9</u>	<u>1540</u>	<u>30</u>	<u>0.7</u>	<u>0.05</u>	<u>3285</u>	<u>3266</u>
	<u>A-2-1</u>	<u>11:34</u>	<u>6.75</u>	<u>18.8</u>	<u>2979</u>	<u>120</u>	<u>-ve</u>	<u>-</u>	<u>1798</u>	<u>1800</u>
<u>Scm 1/2</u>	<u>A-3-1</u>	<u>11:58</u>	<u>6.63</u>	<u>19.4</u>	<u>8093</u>	<u>332</u>	<u>1.2</u>	<u>0.02</u>	<u>1803</u>	<u>1812</u>
	<u>A-26-1</u>	<u>12:18</u>	<u>6.81</u>	<u>18.6</u>	<u>1281</u>	<u>51</u>	<u>0</u>	<u>-</u>	<u>1792</u>	<u>1809</u>
	<u>C2-6a-3</u>	<u>12:44</u>	<u>6.70</u>	<u>19.6</u>	<u>1815</u>	<u>251</u>	<u>0.8</u>	<u>0.06</u>	<u>566</u>	<u>570</u>
	<u>A-4-1</u>	<u>13:04</u>	<u>7.05</u>	<u>18.2</u>	<u>706</u>	<u>16</u>	<u>-ve</u>	<u>-</u>	<u>2726</u>	<u>2780</u>

20 knot steering  
reference checked  
OK to keep it

Mount/sample No: 99-84

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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-27-1	13:24	6.70	19.1	762	31	7.2	1.1	1758	1711	✓
	A-5-1	13:45	6.88	18.0	2092	53	-ve	-	2619	2731	✓
	A-28-1	14:04	6.77	18.2	868	58	1.0	0.5	1170	1137	-
	A-29-1	14:25	6.92	18.0	3787	152	0.6	0.02	1758	1775	✓
	A-30-1	14:44	6.92	18.6	2944	77	-ve	-	2473	2437	✓
	C2-6a-4	15:05	7.03	17.6	1785	236	0.1	0.01	570	599	✓
	A-31-1	15:27	6.79	18.3	881	39	0.8	0.10	1656	1633	✓
	A-32-1	15:47	6.79	18.6	1166	76	0.5	0.05	1153	1161	-
	A-7-1	16:07	6.89	18.5	2754	107	-ve	-	1777	1791	✓
	A-8-1	16:27	7.08	17.8	9428	308	0.9	0.01	1994	1983	✓
	A-33-1	16:48	6.91	18.2	2571	61	0.8	0.04	2711	2716	✓
	A-34-1	17:08	6.96	18.2	1517	36	2.7	0.20	2701	2726	✓
	A-35-1	17:30	7.23	17.8	1465	53	0	0	1732	1800	✓
	C2-12-1	17:50	6.85	18.8	1731	238	0.6	0.05	556	612	-
	A-36-1	18:12	6.77	17.7	278	18.5	0.6	0.25	1195	1031	✓
	C2-12-2	18:42	6.84	18.8	1639	235	0.7	0.06	538	534	✓
	B-10-1	19:08	7.16	18.0	1736	517	366.8	2.6	2037	2448	✓
	B-11-1	19:28	7.05	19.7	1642	483	809.5	6.4	1981	2410	✓
	B-12-1	19:50	6.70	18.1	1139	31.6	0.8	0.07	2580	2630	✓
	B-13-1	20:12	6.96	17.8	4907	658	2711	61.04	1995	2604	✓
	B-14-1	20:34	6.71	17.5	13994	538	544.7	3.91	1949	2415	✗
	C2-12-3	20:55	6.97	16.9	1649	236	0.9	0.07	564	543	✓
	B-15-1	21:34	7.47	14.14	1115	28	0.4	0.04	2664	2686	✓
	B-16-1	21:55	8.11	14.00	5458	2307	4597	13.7	1247	828	✓
	B-17-1	22:19	7.11	16.5	7843	205	372.9	5.2	2439	2520	✓

in initial 204

check 4 map

fine & name in file

Scan!

v. non-linear

Scan!

206-207 offset is wrong

*2° isotopic problem*

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?
	<del>CZ13-1</del>	<del>22:39</del>	<del>7.69</del>	<del>10.8</del>	<del>1295</del>	<del>214</del>	<del>ve</del>	<del>0.006</del>	<del>580.6</del>	<del>507</del>	<del>✓</del>
	CZ13-2	23:20	6.91	18.0	1717	241	0.4	0.036	554	420	✓
	<del>B10-1</del>	<del>Did not print</del>									
	B10-1	00:08	6.75	18.4	2531	66.7	66.3	2.82	2556	2409	✓
	B12-1	00:29	7.01	16.4	1242	32.6	0.1	0.007	2635	2594	✓
	B13-1	00:50	6.9	17.0	1155	31.5	1.4	1.28	2572	2619	✓
	B14-1	1:12	7.1	18.3	4466	97.0	439.8	12.38	2446	2316	✓
	CZ13-3	1:32	6.96	17.0	1733	242	—	—	575	302	✓
	C1-1	1:56	6.22	16.3	265	10	0.8	2.32	2635	2399	✓
	C4-1	2:21	6.96	16.6	4657	118	0.7	0.016	2733	2627	✓
	C7-1	2:42	7.15	16.7	7021	167	0.7	0.01	2688	2476	✓
	C11-1	3:02	7.27	15.2	10265	346	33.8	3.61	2081	2455	✓
	C17-1	3:30	6.56	17.7	3773	118	9.7	2.41	2529	2510	✓
	CZ9-1	3:51	6.70	17.2	1553	253	0.6	0.049	546	355	✓
	<del>C19-1</del>	<del>4:21</del>	<del>18.6</del>	<del>—</del>	<del>1200</del>	<del>28939</del>	<del>58704</del>				
	C3-1	4:49	8.4	13.6	20606	693.1	25.5	1.98	1631	1732	✓
	C20-1	5:10	8.1	14	10109	274	13	1.8	2108	2096	✓
	C12-1	5:30	8.0	15.8	12948	306	46.7	5.48	2093	2221	✓
	C15-1	5:51	7.28	17.5	7887	230	11.1	1.83	2079	2241	✓
	CZ9-2	6:11	6.95	16.1	1587	239	1.9	1.54	565	254	✓
	C2-1	6:32	7.49	14.3	10209	284	8	0.09	2409	2207	✓
	C21-1	6:56	5.34	42.9	9100	258	9.8	1.26	2341	2256	✓

*Zircon?*