

UWA SHRIMP DATA LOG

Date: 13/7/03 UWA Mount No.: 03-51 Whose sample?: DV Operator(s): McN + DV

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 = -311/-77/2.3 for O⁻; = -221/-54/3.1 for O₂⁻; = -184/-46/3.2 for NO⁻

dead-time = 2.4 nanosecs expected resolution = >4200 actual resolution = 518.4

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 = 8.170 204-bkg = 0.045 204-206 = 2.000 ±

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.6 nA Primary-CZ3 = 3.6 nA PESABM-CZ3 = 56 pA

Raster time (mins): 1.0 Raster aperture (microns): 80 No. of scans: 5

Comments:

** 196 peak centre OFF + 204 peak centre ON. → 196-204 offset adjusted to 8.170 after analysis*

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Offsets OK?
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	<u>CZ.1-1</u>	<u>9:29</u>	<u>6.21</u>	<u>20.0</u>	<u>1600</u>	<u>238</u>	<u>1.3</u>	<u>.11</u>	<u>571 ± 9</u>	<u>541 ± 36</u>	<u>✓</u>
	<u>* NBS.1-1</u>	<u>9:52</u>	<u>2.99</u>	<u>—</u>	<u>3200</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>measured 0.9000</u>	<u>✓</u>
	<u>CZ.1-2</u>	<u>10:09</u>	<u>6.43</u>	<u>19.0</u>	<u>1700</u>	<u>243</u>	<u>-0.2</u>	<u>-ve</u>	<u>575 ± 5</u>	<u>576 ± 22</u>	<u>✓</u>
	<u>D.1-1</u>	<u>10:25</u>	<u>6.45</u>	<u>19.0</u>	<u>3100</u>	<u>88.7</u>	<u>4.1</u>	<u>.18</u>	<u>2480 ± 21</u>	<u>2724 ± 9</u>	<u>✓</u>
	<u>D.2-1</u>	<u>10:41</u>	<u>5.73</u>	<u>22.0</u>	<u>1600</u>	<u>393</u>	<u>2.3</u>	<u>.08</u>	<u>2804 ± 30</u>	<u>2827 ± 13</u>	<u>✓</u>
	<u>D.3-1</u>	<u>10:56</u>	<u>6.05</u>	<u>21.0</u>	<u>1200</u>	<u>33</u>	<u>0.5</u>	<u>.05</u>	<u>2652 ± 34</u>	<u>2701 ± 13</u>	<u>✓</u>
	<u>CZ.1-3</u>	<u>11:12</u>	<u>6.09</u>	<u>21.0</u>	<u>1700</u>	<u>232</u>	<u>0.2</u>	<u>.01</u>	<u>582 ± 9</u>	<u>571 ± 37</u>	<u>✓</u>
	<u>D.4-1</u>	<u>11:29</u>	<u>5.65</u>	<u>22.0</u>	<u>1200</u>	<u>33</u>	<u>3.9</u>	<u>.45</u>	<u>2549 ± 31</u>	<u>2841 ± 15</u>	<u>✓</u>

labelled "u0351.7-1" no "D" in name ↓

Rejection over-ride Sample/Std ID Time - printout ^{254/238} UO/U 196 Kcps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Offsets OK?

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?	
	D.5-1	11:44	5.37	2600	1200	32	0	0	2648±33	278±13	✓
	D.6-1	12:00	6.47	19	3500	97	0.3	0.0001	2592±19	2513±8	✓
	D.7-1	12:16	5.37	23	1200	32	1.0	0.0009	3096±35	3168±9	✓
	CZ1-4	12:35	5.57	24	1400	217	1.4	0.0014	533±3	505±32	✓
	035A1-1	12:56	3.54	19	8300	836	2.2	0.0004	1826±23	1754±26	✓
	035A2-1	13:21	5.49	23	3800	17	0.1	0.00022	1723±37	1830±27	✓
	035A3-1	13:43	6.14	20	1800	75	0.6	0.00047	1838±17	1799±13	✓
	035A4-1	14:15	6.17	20	4800	19	0.5	0.0014	1889.9±33	1779±106	✓
	035A5-1	14:38	5.76	22	8800	38	1.0	0.0015	1789±26	1805±26	✓
	CZ1-5	14:56	5.84	19	1400	242	-0.6	0.0005	555±4	622±30	"
	035A6-1	15:24	5.16	26	7100	30.1	0.9	0.0002	1730.4±30	1792±27	✓
	035A7-1	15:46	6.4	20	1500	597	0.8	0.0008	1854±20	1831.9±16	✓
	035A8-1	16:04	6.26	20	1900	76	0.3	0.0002	1813±14	1822±13	✓
	035A9-1	16:26	6.18	20	9000	368	1.0	0.15	1858±23	1799±20	✓
	035A10-1	16:50	6.36	20	1300	51	1.8	0.08	1840±24	1823±18	✓
	CZ1-6	17:16	5.9	22	1600	231	0.4	0.04	566.5±3	568±26	✓
	035A11-1	17:45	5.6	23	1100	47.5	0.9	0.099	1778±18	185±22	✓
	035A12-1	19:01	5.88	20	2400	105	-0.1	0.005	1816±15	1819±10	✓
	035A13-1	19:22	5.41	23	2000	90	-0.6	0.04	1741±12	1847±13	✓
	035A14-1	19:43	5.79	22	4700	20	0.4	0.099	1770±28	1883±27	✓
	035A15-1	20:04	5.84	22	9800	40	0.3	0.05	1808±18	1803±19	✓
	CZ1-7	20:25	6.05	21	1600	231	0.6	0.059	576±4	558±28	✓
	035C1-1	20:48	5.93	22	1200	50	2.6	0.089	1791±16	1820±20	✓
	035C2-1	21:09	6.39	20	1900	72.2	-0.3	0.02	1926±16	1838±12	✓
	035C3-1	21:30	6.01	21	1000	39.9	0.5	0.09	1871±20	1813±20	✓

changed from 5 scans to 6 scans

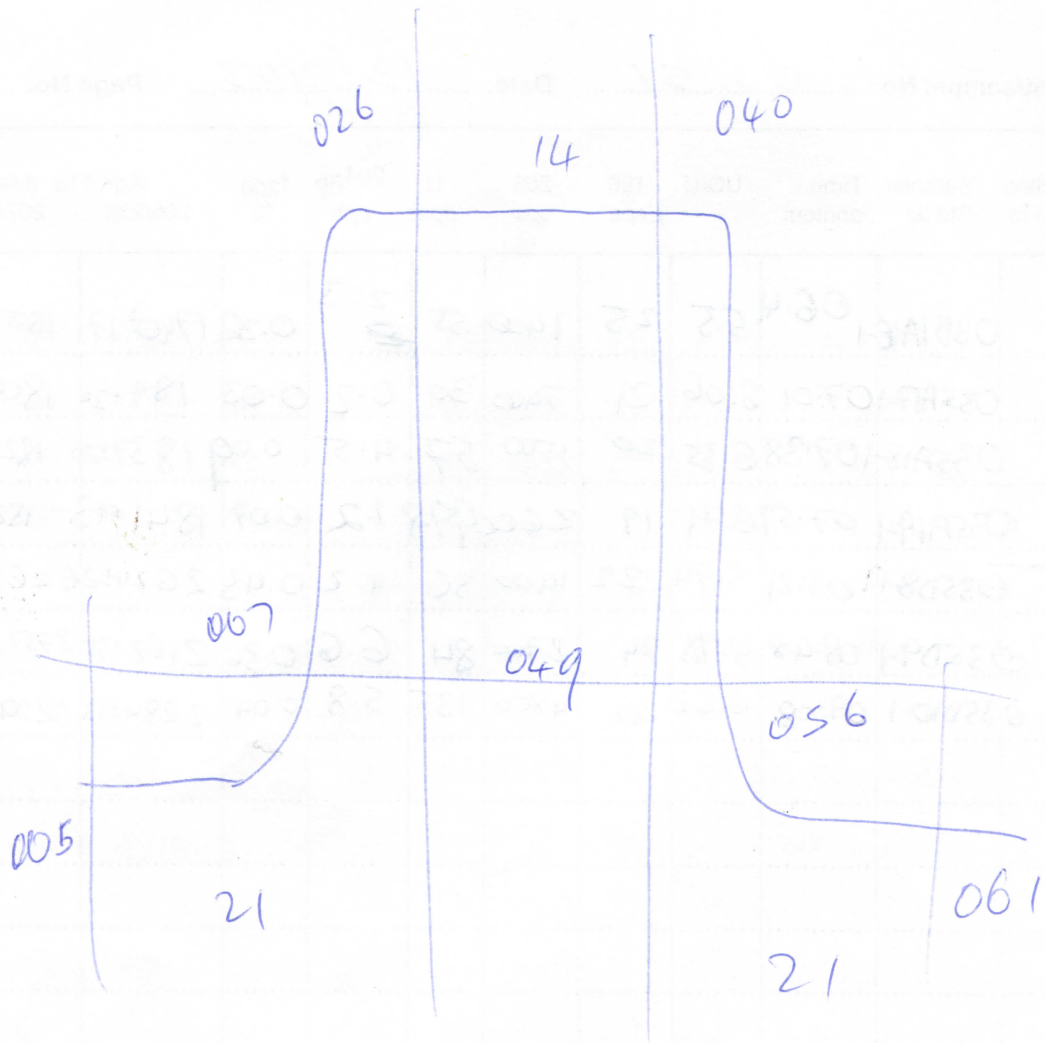
A

dropped Pb 204 slightly (-0.045)
dropped Pb 204 slightly

C

Rejection over-ride Sample/Std ID Time - printout UO/U Kcps 196 206 U 204Pb f206 Age ±1σ (Ma) Offsets OK?

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?
	035C4-1	21:52	6.26	19	1300	57	1.9	0.08	1719±18	1811±19	✓
	035C3-2	22:11	5.89	22	8400	35	1.5	0.12	1804±26	1845±26	✓
	035C5-	22:33	5.71	22	6900	29	0.9	0.18	1799±24	1849±30	✓
	035C6-1	23:01	5.95	22	1700	65	1.1	0.05	1820±50	186±16	✓
	CZ31-8	23:21	6.12	20	1600	237	1.8	0.06	579±4	552±30	✓
	035C7-1	23:41	6.04	21	2000	78	1.6	0.11	1894±16	183±13	✓
	CZ31-9	23:59	6.08	21	1600	230	0.3	0.05	580±4	616±27	✓
	035C8-1	00:20	5.93	21	8500	34	1.6	0.26	1860±24	1791±26	✓
	035C9-1	00:40	6.33	20	1900	74	2.4	0.18	1858±15	1830±14	✓
	035C10-1	01:00	5.86	24	1900	71	0.3	0.09	1803±22	1820±18	✓
	035C11-1	01:20	5.93	21	1400	59	1.6	0.15	1845±17	1811±16	✓
	035C12-1	01:41	6.02	21	1500	61	0.0	0.0	1854±16	1826±13	✓
	CZ31-10	01:59	5.77	23	1600	228	-0.4	0.03	569±3	519±28	✓
	035C13-1	02:20	5.92	21	1100	45	0.6	0.08	1853±21	1846±19	✓
	035C14-1	02:40	5.84	22	9600	39	2.1	0.31	1860±22	1791±28	✓
	035C15-	103:00	5.65	22	1900	79	1.1	0.08	1834±14	187±19	✓
035C8-2	035C16-1	103:20	6.45	19	6000	23	0.8	0.16	1894±37	1851±46	✓
	035C17-1	103:39	6.59	19	1600	64	1.1	0.025	1823±15	1871±17	✓
	CZ31-11	03:57	5.80	22	1600	231	0.1	0.009	572±3	571±24	✓
	035C18-1	04:20	5.78	22	2400	88.8	1.6	0.05	189±13	1821±14	✓
	035C19-1	04:39	5.86	23	1500	60	0.0	0.09	1801±18	1813±22	✓
	035C20-1	04:58	6.36	19	1300	92	2.1	0.22	1121±13	1790±21	✓
	035C21-1	05:21	5.7	24	2100	84	-0.1	0.07	1802±14	1826±11	✓
	035C22-1	05:41	6.48	21	8000	29	0.9	0.17	1837±23	1834±25	✓
	CZ31-12	06:02	6.17	20	1600	235	0.1	0.04	592±4	575±27	✓



2021.55
2301.73

1.00
5184
0.29

Prelim Age

$$207 \div 3 \div 206 = \text{ratio}$$