

**UWA SHRIMP DATA LOG**

Date: 2/12/99 UWA Mount No.: 99-61 Whose sample?: McN Operator(s): McN & NV

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~~ <sup>20/10 10/30</sup> 10 5 5 2  
**Phanerozoic\*** Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts / nA = ~~84V/17.0~~ for O<sup>-</sup>; = 60V/2.5 for O<sub>2</sub><sup>-</sup>; = 48V/14.0 for NO<sup>-</sup>

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4678

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 = 2.001

206-207 = 1.000 206-208 = 1.999

Primary-epoxy = 2.7 nA Primary-CZ3 = 3.7 nA PESABM-CZ3 = 244 pA

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: E = RMO072 → use 206 = 20secs + 207 = 10secs  
 others ⇒ use 206 = 10secs + 207 = 30secs.

Rejection <del>override</del>	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	<sup>204</sup> Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
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	<u>sl.6-1</u>	<u>11:41</u>	<u>7.03</u>	<u>8.4</u>	<u>1188</u>	<u>220</u>	<u>1.7</u>	<u>-15</u>	<u>571 ± 1</u>	<u>643 ± 45</u>	✓
	<u>sl.6-2</u>	<u>11:57</u>	<u>6.72</u>	<u>8.5</u>	<u>1095</u>	<u>234</u>	<u>1.4</u>	<u>-11</u>	<u>562 ± 1</u>	<u>562 ± 46</u>	✓
	<u>E.93-1</u>	<u>12:15</u>	<u>7.12</u>	<u>8.2</u>	<u>311</u>	<u>135</u>	<u>3.1</u>	<u>1.05</u>	<u>247 ± 1</u>	✓	✓
	<u>sl.6-3</u>	<u>12:32</u>	<u>6.89</u>	<u>8.5</u>	<del>1127</del>	<u>222</u>	<u>2.5</u>	<u>-21</u>	<u>564 ± 1</u>	<u>633 ± 50</u>	✓
	<u>E.94-1</u>	<u>12:50</u>	<u>6.95</u>	<u>8.5</u>	<u>146</u>	<u>52</u>	<u>-1.1</u>	✓	<u>313 ± 1</u>	<u>812 ± 93</u>	✓
	<u>E.95-1</u>	<u>13:07</u>	<u>7.04</u>	<u>7.9</u>	<u>607</u>	<u>287</u>	<u>1.8</u>	<u>.29</u>	<u>245 ± 1</u>	<u>327 ± 74</u>	✓
<sup>125</sup> Tl	<u>sl.5-1</u>	<u>13:27</u>	<u>6.80</u>	<u>8.4</u>	<u>1095</u>	<u>230</u>	<u>-0.8</u>	✓	<u>560 ± 1</u>	<u>600 ± 35</u>	✓
<sup>125</sup> Tl scan	<u>E.94-2</u>	<u>13:45</u>	<u>7.42</u>	<u>7.8</u>	<u>177</u>	<u>56</u>	<u>1.3</u>	<u>-79</u>	<u>313 ± 2</u>	<u>386</u>	✓

Rejection <del>over-ride</del>	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?	
	E.95-2	14:00	7.11	8.3	530	228	2.2	.44	247±1	315±102	✓	
	E.92-1	14:19	7.03	8.3	734	317	2.5	.35	256±1	—	✓	
	sl.4-1	14:37	7.04	8.2	1138	218	3.4	.30	566±2	584±49	✓	
	E.89-1	14:55	7.21	7.9	763	323	1.4	.19	255±1	309±75	✓	
	E.88-1	15:13	6.97	8.2	312	146	2.5	.78	245±1	—	✓	
	E.88-2	15:30	7.10	8.1	303	133	2.5	.85	249±1	—	✓	
	sl.4-2	15:47	6.88	8.4	1096	224	3.3	.29	553±1	557±48	✓	
1st Scan	E.87-1	16:04	7.14	8.2	136	59	2.1	1.68	243±2	—	✓	
	E.99-1	16:21	6.90	8.3	351	166	1.6	.45	248±1	—	✓	
	E.99-2	16:37	7.14	8.1	444	196	0.5	.13	247±1	—	✓	
	sl.4-3	16:54	7.00	8.3	1114	221	-0.3	—	555±1	585±35	✓	
	E.100-1	17:12	7.23	7.7	345	154	3.1	.91	247±1	220±?	✓	
	E.103-1	17:29	7.12	8.1	681	295	1.9	.29	252±1	183±94	✓	
	E.102-1	17:48	6.87	8.4	362	166	2.7	.74	253±1	—	✓	
	sl.4-4	18:08	6.95	8.2	1104	223	2.1	.18	562±2	—	✓	
	E.97-1	18:29	7.05	8.6	152	64	3.1	1.65	249±2	—	✓	
	E.98-1	18:53	7.10	8.4	537	235	1.9	0.37	243±1	—	✓	
	E.83-1	19:13	7.31	8.3	637	258	1.9	0.34	245±1	—	✓	
1st ThO	sl.3-1	19:33	6.79	8.6	1145	228	1.9	0.16	578±2	—	✓	
	E.82-1	19:52	6.96	8.2	159	73	1.7	1.04	249±1	—	✓	
	E.85-1	20:11	7.07	8.6	378	160	3.2	0.89	246±1	—	✓	
	E.86-1	20:27	7.17	8.5	668	268	1.0	0.16	255±1	—	✓	
1st ThO	sl.3-2	20:47	6.87	8.4	1116	223	3.0	0.26	568±2	538±50	✓	
Different Count times on 204 / Bkg / 206 / 207 / 208 + no. of scans = 4. See p. 3	1st MO	A.1-1	21:11	6.86	9.0	524	30	2.2	0.39	1704±14	1569±45	✓
	A.2-1	21:25	7.12	8.3	810	79	3.6	0.44	1021±5	1108±57	✓	

Different Count times on 204 / Bkg / 206 / 207 / 208 + no. of scans = 4. See p. 3

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- (10)
- (11)
- (12)
- (13)
- (14)



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

Rejection <u>over-ride</u>	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	<sup>204</sup> Pb ppb	f <sup>206</sup> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	A.30-1	21:37	7.32	8.4	602	30	3.7	0.62	1749±15	1681±50	✓
	SL.3-3	21:52	6.82	9.5	1283	233	—	0.18	565±1	576±29	✓
1st M	A.31-1	22:05	8.95	9.0	889	47	3.2	0.36	1676±11	1595±36	✓
	A.32-1	22:18	6.68	9.4	3347	302	2.6	0.01	1165±3	1201±15	✓
	A.33-1	22:33	7.07	9.5	1474	245	—	—	560±1	665±23	✓
	A.34-1	22:47	6.74	10.3	482	41	3.6	0.76	1113±7	1129±75	✓
	SL.3-4	23:01	6.94	9.95	1389	223	3.2	0.26	579±1	523±56	✓
1st M, Mo	A.35-1	23:14	6.85	10.2	286	22	3.3	1.25	1171±15	1139±238	✓
	A.36-1	23:27	7.09	10.0	1742	19.6	—	—	2756±26	2780±16	✓
	A.37-1	23:40	6.6	10.9	955	82	—	—	1107±5	1141±23	✓
	A.38-1	23:52	6.97	10.3	1139	64	3.5	0.34	1482±8	1411±33	✓
	A.39-1	00:05	7.00	11.0	793	32	3.9	0.56	1849±13	1859±38	✓
	SL.10-1	00:17	6.90	11.1	1449	217	—	—	569±1	640±23	✓
1st M, Mo	A.20-1	00:31	7.02	10.86	447	30	1.9	0.51	1187±11	1170±136	✓
	A.40-1	00:43	6.62	10.9	640	52	4.0	0.65	1149±7	1098±72	✓
	A.41-1	00:58	6.98	11.0	3563	253	3.2	0.11	1118±3	1066±18	✓
	A.42-1	01:11	6.78	11.10	514	40	0.4	0.09	1119±7	1150±40	✓
	SL.10-2	01:27	6.59	11.62	1481	243	4.1	0.32	568±1	531±68	✓
	A.18-1	01:40	6.64	11.33	599	47	—	—	1148±6	1281±28	✓
	A.43-1	01:53	6.70	11.28	1642	78	2.7	0.17	1755±8	1700±22	✓
	A.44-1	02:05	6.68	10.74	2017	104	1.8	0.09	1721±7	1818±19	✓
	A.21 A.21	2:18	6.66	11.58	354	26	0.9	0.28	1168±9	1144±74	✓
	A.22-1	2:32	6.49	11.61	730	125	0.7	0.11	571±2	585±98	✓
	SL.10-3	2:44	6.74	11.60	1598	239	4.2	0.33	583±1	505±44	✓
1st M	A.45-1	2:58	6.79	11.91	564	38	2.1	0.45	1185±8	1135±63	✓

very spiky

✓

✓

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?

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?
	A16-1	3.11	6.94	11.5	2430	168	0.3	0.02	1122±3	1139±16	✓
	A15-1	3.23	7.16	11.4	2141	263	—	—	602±1	570±19	✓
	A14-1	3.35	6.94	10.6	3894	176	3.6	0.10	1765±5	1811±11	✓
	SL11-1	3.49	6.82	10.5	1426	234	—	—	570±1	577±23	✓
	A5-1	4.02	6.88	10.5	2012	97	1.1	0.06	1717±7	1789±15	✓
	A4-1	4.15	6.72	10.4	585	51	0.7	0.12	1081±6	1073±53	✓
	A3-1	4.28	7.04	9.8	337	45	0.5	0.18	679	750	✓
	A46-1	4.41	6.44	10.6	391	72	5.4	1.39	587±4	309±207	✓
	SL11-2	4.54	6.79	10.2	1286	223	2.1	0.18	558±1	638±41	✓
	A13-1	5.07	7.08	9.1	886	49	1.3	0.14	1592±10	1595±32	✓
	A12-1	5.19	6.65	9.7	353	33	1.6	0.41	1112±8	1118±62	✓
	A11-1	5.32	6.56	8.8	682	51	3.3	0.38	1532±10	1523±42	✓
	A10-1	5.44	6.93	9.6	1114	85	0.7	0.07	1209±5	1258±31	✓
	A47-1	5.56	6.89	10.0	542	91	2.3	0.47	563±2	519±103	✓
	SL11-3	6.12	6.87	9.7	1304	226	1.7	0.14	571±1	607±58	✓
	A6-1	6.25	6.96	9.4	3058	176	3.2	0.10	1573±5	1571±14	✓
	A48-1	6.37	6.60	9.6	1650	100	0.5	0.03	1705±8	1744±15	✓
	A49-1	6.50	6.63	9.5	333	101	5.5	1.23	371±2	—	✓
	A50-1	7.05	6.40	8.5	654	55	4.6	0.49	1528±10	1494±54	✓
	A7-1	7.18	6.59	10.3	1434	117	7.9	0.53	1222±5	1203±46	✓
	SL9-1	7.32	6.99	9.2	1256	223	7.8	0.68	558±2	422±76	✓
	A25-1	7.46	7.41	9.0	383	21	0.1	0.04	1468	1536	✓
	A51-1	7.58	6.80	9.7	972	98	0.8	0.09	978±4	986±39	✓
	A52-1	8.10	6.88	9.4	1702	120	1.2	0.07	1346±5	1368±21	✓
	A53-1	8.22	6.91	9.2	1385	121	7.7	0.55	1114±4	1130±42	✓
	SL9-2	8.35	6.75	9.6	1238	234	3.7	0.31	557±1	526±54	✓

↑ gradually  
↓ still drops  
v noisy  
2nd NO  
v noisy

1st NO