

UWA SHRIMP DATA LOG

Date 18/9/03 UWA Mount No. 03-61 Whose sample? NV Operator(s) IRF
27/9/03 03-53 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	2	1	1	3	2	2

Steel: Wein volts / nA = for O⁻; = for O₂⁻; = for NO⁻

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 5200

aperture = 30 microns retardation lens = 10000 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 = 204-bkg = 204-206 =

206-207 = 206-208 =

Primary-epoxy = nA Primary-CZ3 = nA PESABM-CZ3 = pA

Raster time (mins): 2 Raster aperture (microns): 40 No. of scans: 7

Comments:

Setup by Ian

*MGI x 6
2 x BS1
4 x Xan⁰1*

(Sdds on SPS-2)

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?
	<i>MGI.1-1</i>	<i>11:26</i>	<i>9.72</i>	<i>31.9</i>	<i>394</i>	<i>7.1</i>	<i>0.1</i>	<i>0.04</i>	<i>0.5250</i>	<i>576 ± 54</i>	✓
	<i>BS1.1-1</i>	<i>11:51</i>	<i>9.58</i>	<i>54</i>	<i>230</i>	<i>4.1</i>	<i>0.1</i>	<i>1.4</i>	<i>0.5376</i>	<i>699 ± 16</i>	✓
	<i>Xan⁰1.1-1</i>	<i>12:14</i>	<i>9.64</i>	<i>55</i>	<i>15000</i>	<i>110</i>	<i>6.3</i>	<i>0.09</i>	<i>1.2333</i>	<i>100% ± 8</i>	✓
<i>BW</i>	<i>D.1-1</i>	<i>12:55</i>	<i>8.82</i>	<i>57</i>	<i>590</i>	<i>1.9</i>	<i>0.1</i>	<i>0.66</i>	<i>2.6640</i>	<i>2580 ± 25</i>	✓
<i>BW</i>	<i>D.1-2</i>	<i>13:11</i>	<i>9.21</i>	<i>56</i>	<i>430</i>	<i>1.4</i>	<i>0.4</i>	<i>1.42</i>	<i>2.7392</i>	<i>2536 ± 36</i>	✓
	<i>MGI.1-2</i>	<i>13:42</i>	<i>9.59</i>	<i>31</i>	<i>390</i>	<i>7.3</i>	<i>0.2</i>	<i>0.46</i>	<i>0.5157</i>	<i>475 ± 68</i>	✓
<i>BW</i>	<i>F.1-1</i>	<i>14:01</i>	<i>9.11</i>	<i>49</i>	<i>450</i>	<i>1.4</i>	<i>0.2</i>	<i>1.77</i>	<i>2.1375</i>	<i>2501 ± 47</i>	✓
<i>BW</i>	<i>F.1-2</i>	<i>14:30</i>	<i>8.24</i>	<i>41</i>	<i>350</i>	<i>1.2</i>	<i>0.2</i>	<i>1.77</i>	<i>3.1077</i>	<i>2500 ± 404</i>	✓

Start on 03-53
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Rejection over-ride	Sample/ Std ID	Time - printout	270/254 UO/UO2	¹⁹⁴ 200 cps	206 cps	²⁵⁴ 270 cps	204Pb cps	f206 %	Measured 206/270	Age±1σ 207/206	Offsets OK?
	MGI.1-3	14:54	9.61	34	360	6.7	0.1	0.34	0.5198	376±93	✓
	Xenol.1-2	15:17	9.55	56	14000	120	0.1	0.01	1.1917	988±5	✓
BW	I.1-1	15:45	9.10	51	400	130	0.3	0.83	2.8427	2606±32	✓
BW	I.1-2	16:14	8.64	39	300	48 0.98	0.1	0.19	2.6529	2677±31	✓
	MGI.1-4	16:37	9.44	33	380	7.0	0.0	0.17	0.5053	472±90	✓
BW	J.1-1	17:08	9.38	37	270	0.8	0.4	1.31	3.1361	2627±41	✓
BW	J.1-1b	17:27	9.44	32	240	0.68	0.1	0.39	3.3649	2605±40	✓
	MGI.1-5	17:49	9.68	38	360	6.8	0.2	0.36	0.5176	379±85	✓
	Xenol.1-3	18:12	9.68	57	15000	110	0.3	0.06	1.2366	996±5	✓
KB	0.2-1	18:47	8.71	55	7500	23	7.9	1.37	2.8051	2646±43	✓
KB	0.2-1b	19:07	8.30	53	6200	21	7.0	1.40	2.5100	2623±11	✓
	MGI.1-6	19:32	9.57	38	340	6.4	0.0	-ve	0.5062	614±84	✓
KB	0.2-2	19:56	7.84	55	5400	19	7.9	2.23	2.2943	2617±10	✓
KB	0.2-2b	20:17	7.75	55	5900	21	6.7	1.68	2.1695	2625±9	✓
	MGI.1-7	20:44	9.98	36	310	5.6	0.1	-ve	0.5378	547±96	✓
	Xenol.1-4	21:07	9.48	58	14000	110	0.5	0.015	1.1921	976±12	✓
KB	0.2-3	21:33	7.56	59	6300	24	14.9	2.86	1.9967	2627±19	✓
KB	0.2-3b	21:54	7.84	46	5600	22	8.2	2.33	2.0360	2633±11	✓
	MGI.1-8	22:19	9.45	38	350	6.700	0.0	0.13	0.4994	519±77	✓
	BSI.1-2	22:41	9.34	58	250	4.400	0.1	0.73	0.5218	198±148	✓
KB	0.3-1	23:18	8.76	53	8700	27	6.2	1.11	2.8178	2627±7	✓
	0.3-1b	23:38	8.15	53	8200	27	6.8	1.09	2.4574	2631±7	✓
	MGI.2-1	00:03	9.14	69	670	13	0.3	0.093	0.4663	465±41	✓
KB	0.3-2	00:27	8.52	52	6300	20	4.4	0.96	2.6915	2625±0	✓
KB	0.3-2b	00:45	8.122	50	6200	21	5.0	0.92	2.3963	2652±7	✓

Rejection over-ride	Sample/ Std ID	Time - printout	270/254 UO/UO2	200 cps	206 cps	270 cps	204Pb cps	f206 %	Measured 206/270	Age±1σ 207/206	Offsets OK?
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	M61.2-2	01:07	9.30	66	490	9600	0.1	0.274	0.4810	461±53	✓
	Xenol.1-5	01:28	9.37	56	15000	12	0.5	0.021	1.1723	988±11	✓
KB	0.1-1	01:54	9.00	53	10000	30	12.3	1.43	3.0033	2620±11	✓
KB	0.1-1b	02:14	8.72	51	7900	25	4.8	0.76	2.7678	2634±6	✓
	M61.2-3	02:38	9.03	66	420	8.2	0.0	0.114	0.4598	521±67	✓
KB	N.1-1	03:05	8.84	57	7900	25	1.9	0.37	2.7968	2641±14	✓
KB	N.1-1b	03:25	8.33	55	7200	24	1.8	0.39	2.5209	2649±5	✓
	M61.2-4	03:48	8.45	67	560	11	0.0	NA	0.4100	528±32	✓
	Xenol.1-6	04:11	9.05	58	15000	11	0.0	0.011	1.0957	986±6	✓
	M61.2-5	04:45	9.35	67	480	9.2	0.2	0.301	0.4830	441±59	✓
KB	D.1-1	05:17	8.37	56	10	33	7.2	0.694	2.5846	2639±12	✓
KB	D.1-1b	05:35	8.25	56	7900	26	3.4	0.60	2.4574	2637±7	✓
	M61.2-6	06:00	9.15	69	570	11	0.2	0.144	0.4632	491±51	✓
	BSI.1-1	06:22	9.70	58	240	4.3	0.1	0.728	0.5395	212±155	✓
KB	B.1-1	06:48	8.45	60	4400	15	0.9	0.25	2.5556	2611±97	✓
KB	A.1-1	07:28	8.50	53	11000	35	7.0	0.811	2.7777	2644±19	✓
KB	A.1-1b	07:46	8.15	50	9900	32	4.5	0.90	2.4926	2647±7	✓
KB	A.1-2	08:08	7.35	57	13000	43	9.9	1.33	2.1278	2634±19	✓
	M61.2-7	08:30	9.26	70	500	9.9	0.1	0.25	0.4748	420±60	✓
	Xenol.1-7	08:54	9.36	59	14000	110	0.8	0.02	1.1433	994±9	✓
27/9/03											
	M61.1-1	13:01	9.12	140	750	16	0.1	0.306	0.428	508±41	✓
	Xenol.1-1	13:38	9.66	120	38	32	0.3	0.008	1.15	973±7	✓
	A.1-1	14:08	8.45	120	890	3.1	0.4	0.712	2.41	2567±52	✓

Sample change
 53-53 out
 13-61 in
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 03-61

START on
 03-53
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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?
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	Xanol-12	17:11	9.53	110	34000	290	0.2	0.068	1.13	970 ± 10	✓
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	0.1-3	17:42	8.82	110	740	27	0.3	0.426	2.45	2597 ± 21	✓
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NOTE: Had numerous problems with machine today, including very weak 1st and shivering ESA exp. Ratios coming out very low → called IRF who prescribed a number of tests for retardation lens. Couldnt carry out tests because CRV gate valve opened & closed coupled with pressure fluctuation in Source Chamber → 1st extraction volts fluctuating between 2000 → 6000V. MAJOR PROBLEMS → IRF suggests go home.