

WEN 356 !

**UWA DATA LOG: SHRIMP ZIRCON U-Pb**

Date 17-5-98 UWA Mount No. 98-10 Whose sample? F. Birelein Operator(s) IF + FB

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	2	10	10	<sup>20</sup> 10	<sup>10</sup> 10*	5	5	2
Phanerozoic*	Delay time (secs):	7	3	1	2	1	3	2	2

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040 amu      Dead-time = <sup>32</sup> nanosecs

actual 196-204 = <sup>8.168</sup>      actual 204-bkg = <sup>0.043</sup>      expected resolution = >4200

actual 206-207 = <sup>1.000</sup>      actual 206-208 = <sup>2.000</sup>      actual resolution = <sup>5070</sup>

Primary = <sup>2.4</sup> nA      PESABM = <sup>26</sup> pA      actual Primary : PESABM (≈ 50:1) = <sup>92</sup>

Raster time (mins): <sup>1</sup>      Raster aperture (microns): <sup>100</sup>      No. of scans: <sup>6</sup>

Comments: Sensitivity = 10.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	204-196 Corr. 207-206 208-206
	Sl. 5-6	10:40	6.92	7.47	829	220	-1.8	-	572±2 555±41	8.168 1.000
	Sl. 5-7	10:55	6.93	7.42	849	229	-0.4	-	579±2 592±40	-
6 <sup>3</sup> rejected	B. 1-1	11:13	7.01	8.0	419	138	-0.5	-	419±1 224±62	-
	B. 2-1	11:30	6.93	7.73	245	93.8	6.8	.64	389±1 933±64	-
	B. 5-1	11:46	7.05	5.9	633	309	9.2	.89	380±1 679±44	-
	Sl. 6-7	12:02	7.05	6.8	744	215	1.6	.14	589±2 580±41	8.168 1.000
	B. 61-1	12:18	7.22	7.1	505	181	0.3	-14	403±1 414±55	-
wif 204	B. 62-1	12:34	7.62	6.8	732	294	34.3	8.5	324±1 1755±26	-
	B. 6-1	12:49	6.92	7.35	605	164	0.1	.36	573±2 606±46	-
	Sl. 6-8	13:04	6.74	7.75	744	222	-1.2	-	571±1 515±42	-
PD 1	B. 7-1	13:20	6.73	7.14	433	187	0.9	.02	408±1 524±56	-

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Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	204-196 Corr- 207-206 208-206
60 (PM) <u>reject</u>	B. 7-2	13:36	6.95	7.06	395	160	3.2	.55	400±1	548±57	8.168(2.1) 1.000 2.000
	B. 63-1	13:51	7.09	7.05	409	156	5.2	.90	403±1	731±54	-11-
	<u>sl. 6-9</u>	<u>14:06</u>	<u>6.73</u>	<u>7.58</u>	<u>791</u>	<u>224</u>	<u>1.3</u>	<u>.11</u>	<u>575±1</u>	<u>582±41</u>	-11-
	B. 8-1	14:21	6.68	7.36	389	166	3.7	.36	408±1	347±61	-11-
	B. 9-1	14:37	7.00	6.95	791	320	<del>7.9</del>	.69	399±1	556±41	-11-
(core)	B. 10-1	14:53	6.93	7.05	138	44.4	0.7	.35	502±3	528±99	-11-
	<u>sl. 6-10</u>	<u>15:08</u>	<u>6.68</u>	<u>7.03</u>	<u>719</u>	<u>230</u>	<u>0.7</u>	<u>.05</u>	<u>564±2</u>	<u>669±42</u>	-11-
	B. 10-2	15:24	6.68	7.42	298	140	-0.9	-	368±1	492±68	-11-
	B. 64-1	15:39	6.86	6.99	321	136	0.7	.14	399±1	381±64	-11-
	B. 65-1	15:55	6.88	7.06	682	295	11.9	.01	386±1	756±41	-11-
	<u>sl. 7-13</u>	<u>16:11</u>	<u>6.74</u>	<u>7.49</u>	<u>793</u>	<u>225</u>	<u>1.7</u>	<u>.04</u>	<u>577±2</u>	<u>550±41</u>	-11-
PD 2 ✓	B. 66-1	16:27	6.78	7.64	387	160	1.5	.26	390±1	415±62	-11-
	B. 67-1	16:43	7.02	7.37	478	180	11.0	.77	400±1	812±48	-11-
(core)	B. 68-1	16:58	7.08	6.85	325	122	-0.6	-	421±1	471±66	-4-
	<u>sl. 7-14</u>	<u>17:13</u>	<u>6.87</u>	<u>7.13</u>	<u>756</u>	<u>215</u>	<u>0.5</u>	<u>.01</u>	<u>575±2</u>	<u>564±42</u>	-11-
	B. 69-1	17:28	6.73	7.83	624	255	5.0	.13	394±1	493±48	-11-
high 204!	B. 70-1	17:43	7.10	7.04	790	290	30.1	2.7	416±1	1106±34	-11-
	B. 12-1	18:01	6.94	7.36	179	68.6	2.5	.07	407±2	226±103	-11-
	<u>sl. 7-15</u>	<u>18:26</u>	<u>6.63</u>	<u>7.57</u>	<u>785</u>	<u>234</u>	<u>-2.4</u>	<u>-</u>	<u>574±1</u>	<u>546±42</u>	-11-
	B. 13-1	18:31	6.93	6.90	282	118	-0.7	-	397±1	358±74	-11-
high 204! <u>reject!</u>	B. 71-1	18:46	7.36	6.64	1003	399	203	15.5	366±1	2649±17	-11-
	B. 72-1	19:01	7.27	6.46	358	138	2.1	.03	402±1	363±66	-11-
	<u>sl. 7-16</u>	<u>19:16</u>	<u>6.75</u>	<u>7.57</u>	<u>774</u>	<u>225</u>	<u>-0.2</u>	<u>'</u>	<u>557±1</u>	<u>696±41</u>	-11-
	B. 18-1	19:32	6.91	6.82	264	110	2.2	.16	409±1	476±75	-11-
PD 3 ✓ <u>reject</u>	B. 73-1	19:48	7.38	7.57	712	274	135	15.5	342±1	2759±19	-11-

high 204!

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)	206/238	207/206	204-196 Corr: 207-206 208-20
	B.74-1	20:06	6.88	7.30	207	81.3	1.6	.51	411±2	795±75		8.168 1.000 2.000
	sl. 7-17	20:21	6.60	7.57	755	236	1.6	.08	558±2	572±42		-11-
	B.20-1	20:36	6.92	7.10	324	124	1.2	.04	426±1	253±72		-11-
	B.75-1	20:51	6.78	7.13	541	207	1.1	.19	448±1	460±52		-11-
	B.76-1	21:07	6.72	7.74	442	165	1.5	.20	437±1	756±51		-11-
	sl. 7-18	21:23	6.71	7.67	764	225	0.9	.01	552±1	645±41		-11-
	B.77-1	21:38	6.34	8.1	462	200	50.1	6.2	430±1	1803±32		-11-
	B.78-1	21:54	6.52	8.17	245	97.3	2.5	.01	426±1	513±75		-11-
	B.79-1	22:09	6.47	7.45	416	187	0.7	.42	422±1	446±59		-11-
rejected	sl. 7-19	22:24	6.66	8.50	820	218	-1.1	-	565±1	541±40		-11-
	B.80-1	22:39	6.90	7.94	479	175	7.1	.82	402±1	791±48		-11-
	B.81-1	22:54	6.66	8.24	487	173	3.5	.91	441±1	642±51		-11-
	sl. 7-20	23:10	6.57	8.69	815	221	1.8	.15	566±1	577±40		-11-
	B.22-1	23:26	6.54	8.34	337	129	1.2	.02	428±1	366±68		-11-
	B.82-1	23:45	6.53	8.34	526	204	1.6	.01	424±1	328±55		-11-
	B.24-1	00:00	6.77	7.91	422	156	2.4	.06	421±1	369±61		-11-
	sl. 7-21	00:16	6.80	7.62	806	225	0.5	.07	565±1	578±41		-11-
	B.26-1	00:31	6.63	8.22	527	206	-0.3	409±1	324±54	.045		-11-
	B.83-1	00:47	6.77	7.92	418	162	1.4	.55	401±1	956±58		-11-
	B.28-1	01:03	7.04	7.23	454	165	0.5	.21	418±1	313±60		-11-
	sl. 7-22	01:18	6.70	7.50	749	221	-0.7	-	568±1	548±43		-11-
	B.29-1	01:35	6.39	7.31	317	164	1.7	.20	388±1	411±69		-11-
	B.30-1	01:50	6.75	7.70	468	184	-0.4	-	411±1	280±60		-11-
	B.30-2	02:04	6.67	7.57	485	202	0.8	.37	409±1	323±58		-11-
	sl. 2-12	02:19	6.69	7.59	799	228	-7.7	-	580±2	561±41		-11-

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PD 4 ✓

PD 5

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PD 6 ✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204pb ppb	f206 %	Age ±1σ (Ma)	206/238	207/206	204-196 Corr- 207-206 208-206
	B.33-1	02:36	7.05	6.90	693	283	124	13.5	389±1	2952±21	8.168	1.000 2.000
	B.34-1	02:51	6.82	6.92	502	226	-1.5	-	388±1	417±55	-	-
	B.35-1	03:06	6.72	7.37	405	176	3.0	.17	396±1	611±56	-	-
	S/2-13	03:20	6.66	7.46	766	234	1.2	.01	562±1	604±41	-	-
	B.36-1	03:35	6.82	7.69	409	172	-2.2	-	375±1	473±59	-	-
	B.37-1	03:50	6.61	7.51	390	173	-0.9	-	398±1	407±62	-	-
	B.38-1	04:05	6.60	8.0	409	186	5.1	.60	365±1	537±58	-	-
	S/2-14	04:22	6.67	7.59	768	225	2.0	.03	571±2	611±41	-	-
	B.39-1	04:37	6.81	7.41	602	242	5.2	.59	408±1	488±48	-	-
	B.41-1	04:51	6.47	7.39	194	88.8	0.0	-	417±2	532±85	-	-
	B.42-1	05:07	6.59	7.17	250	117	1.7	.13	401±1	445±76	-	-
	S/2-15	05:22	6.74	7.14	735	234	-1.7	-	543±1	669±41	-	-
	B.44-1	05:40	6.30	8.04	320	155	-0.4	-	397±1	411±68	-	-
	B.45-1	05:55	6.61	7.52	524	237	6.9	.01	389±1	530±51	-	-
	B.84-1	06:10	7.22	7.57	388	170	86.8	8.0	312±1	2526±26	-	-
	S/2-16	06:27	6.89	6.92	786	232	1.1	.05	567±2	625±40	-	-
	B.85-1	06:43	8.22	4.89	288	277	25.9	6.4	157±1	1970±40	-	-
	B.46-1	07:00	7.08	6.80	414	169	22.5	3.8	389±1	1388±41	-	-
	B.47-1	07:16	6.72	7.47	543	237	0.1	.16	387±1	452±52	-	-
	S/2-17	07:31	6.83	6.89	748	232	3.4	.01	555±1	619±42	-	-
	B.48-1	07:47	6.78	7.95	327	132	6.4	.39	384±1	728±60	-	-
	B.56-1	08:05	6.94	6.10	160	74.5	15.4	.51	403±2	411±96	-	-
	S/2-18	08:21	6.76	7.67	804	225	-0.3	-	568±1	531±41	-	-

high 204

PD 7 ✓

high 204

high 204 reject!

high 204

PD 8