

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 9/2/96 UWA Mount No.: 96-6 Whose sample?: Ame Operator(s): McN-Dennis - Frank

Indicate any change to the following:		196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	2	10	10	10	30	10	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2
Phanerozoic	Count time (secs):	2	10	10	10	10	10	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 36 nanosecs
 actual 196-204 = 8.170 actual 204-bkg = 0.040 expected resolution = >4200
 Primary = 2.1 nA PESABM = 37 pA actual resolution = 4440
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 56.8

Comments: Raster = 3 minutes @ 120 μ
 CONTINUED DATA COLLECTION FROM 8/2/96 WITH
 A CHECK ON PEAK POSNS etc.

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	Corr.
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<u>1st cycle deleted</u>	<u>std. 6-8</u>	<u>10:31</u>	<u>6.12</u>	<u>12.1</u>	<u>1332</u>	<u>221</u>	<u>-1.2</u>	<u>-</u>	<u>572±1</u>	<u>507±31</u>	<u>NONE</u>
	<u>A. 5-1</u>	<u>10:54</u>	<u>6.47</u>	<u>15.0</u>	<u>545</u>	<u>93.8</u>	<u>1.1</u>	<u>.33</u>	<u>378±1</u>	<u>354±96</u>	<u>204</u>
	<u>A. 6-1</u>	<u>11:13</u>	<u>6.47</u>	<u>15.8</u>	<u>810</u>	<u>109</u>	<u>0.9</u>	<u>.40</u>	<u>456±1</u>	<u>342±63</u>	<u>208</u>
	<u>A. 7-1</u>	<u>11:33</u>	<u>6.35</u>	<u>16.4</u>	<u>1145</u>	<u>192</u>	<u>0.6</u>	<u>.08</u>	<u>378±⁻⁴</u>	<u>385±45_{mm}</u>	<u>208</u>
	<u>A. 8-1</u>	<u>11:52</u>	<u>6.20</u>	<u>17.3</u>	<u>265</u>	<u>47</u>	<u>1.0</u>	<u>.31</u>	<u>364±.8</u>	<u>450±94</u>	<u>208</u>
	<u>std. 6-9</u>	<u>12:12</u>	<u>6.15</u>	<u>17.5</u>	<u>1930</u>	<u>216</u>	<u>0.0</u>	<u>-</u>	<u>577±1</u>	<u>645±25</u>	<u>NONE</u>
	<u>A. 9-1</u>	<u>12:41</u>	<u>6.15</u>	<u>17.4</u>	<u>1489</u>	<u>257</u>	<u>0.8</u>	<u>0.09</u>	<u>380±.4</u>	<u>331±43</u>	<u>208</u>
	<u>A-10-1</u>	<u>13:02</u>	<u>6.21</u>	<u>17.0</u>	<u>482</u>	<u>84</u>	<u>0.0</u>	<u>0.01</u>	<u>369±.7</u>	<u>385±44_{mm}</u>	<u>208</u>
	<u>A-11-1</u>	<u>13:25</u>	<u>5.56</u>	<u>17.2</u>	<u>977</u>	<u>163</u>	<u>2.9</u>	<u>1.2</u>	<u>548±.7</u>	<u>421±45</u>	<u>208</u>
<u>core?</u>	<u>A-12-1</u>	<u>14:05</u>	<u>6.80</u>	<u>15.2</u>	<u>2141</u>	<u>410</u>	<u>9.0</u>	<u>0.5</u>	<u>287±.1</u>	<u>647±26</u>	<u>208</u>
	<u>std. 6-10</u>	<u>14:36</u>	<u>6.06</u>	<u>17.0</u>	<u>1836</u>	<u>222</u>	<u>0.0</u>	<u>-</u>	<u>575±.6</u>	<u>572±25</u>	<u>NONE</u>

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
	A.13-1	14:58	6.32	18.6	767	126	6.2	1.1	340±.4 425±55	208
	A.14-1	15:18	6.19	16.9	1678	298	-0.7	-	374±1 400±30	none
	A.15-1	15:38	6.37	17.2	950	153	0.9	0.1	368±1 238±61	204
	A.16-1	15:59	6.24	17.2	1782	303	0.6	-	374±1 340±30	none
	std 6-11	16:19	6.00	17.5	1800	224	0.8	-	563±1 607±31	none
	A.4-2	16:41	6.06	17.7	4368	139	-0.2	-	1901±4 1920±10	none
1st 206	A.17-1	17:02	6.13	17.3	578	106	0.5	0.1	365±1 358±67	204
	A.18-1	17:22	5.89	17.0	807	171	3.0	0.1	367±1 296±49	208
core	A.19-1	17:43	6.23	16.4	395	50	1.0	0.4	519±2 491±119	204
	std 6-12	18:03	6.11	17.8	1899	215	-0.4	-	572±1 568±25	none
	A.20-1	18:24	6.18	16.8	990	182	1.6	0.2	365±1 282±54	204
	A.21-1	18:44	6.30	17.2	291	35	0.3	0.1	508±2 489±127	204
	A.22-1	19:04	6.46	17.2	512	79	0.7	0.2	367±1 317±92	204
	A.23-1	19:26	6.26	16.9	611	107	0.9	0.2	366±1 409±66	204
10 somewhat erratic	std 6-13	19:47	6.28	17.7	1949	205	0.2	-	565±1 579±27	none
1st cycle	A.24-1	20:09	5.98	17.1	529	107	0.8	0.4	361±1 369±57	208
	A.25-1	20:29	5.96	17.5	259	50	0.9	0.5	376±2 227±167	204
	A.26-1	20:50	6.22	15.1	1342	268	4.6	0.2	368±1 516±39	208
	A.27-1	21:10	6.23	17.7	1808	370	17.3	1.1	303±1 640±33	208
1st two deleted	std 6-14	21:30	6.25	16.7	1866	211	0.1	-	566±1 602±26	none
	A.28-1	21:53	6.44	17.0	1909	301	0.5	-	368±1 442±35	none
last cycle	A.29-1	22:15	5.93	19.7	1014	191	1.9	0.3	349±1 379±50	208
	A.29-2	22:36	6.38	17.5	1643	256	0.0	-	374±.2 416±29	none
	A.30-1	22:58	5.97	20.1	805	142	3.4	0.7	354±.5 232±89	204
	std 6-15	23:19	5.97	18.0	1872	221	0.2	-	582±1 538±52	none
	A.31-1									

T=223°C

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 Corr.

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	Corr.
Erratic 1°	A31-1	23:40	6.09	17.8	1121	212	1.0	0.09	351±3 415±41	208
	A32-1	00:24	6.05	17.7	5850	143	0.0	0.1	2369±5 2467±7	208
	A33-1	00:24	6.28	17.4	662	128	0.7	1.0	36±.4 257±68	208
Erratic 1° Dropped away 1° UO erratic	A34-1	—	—	—	Aborted		—	—	—	—
Erratic 1° at start	Std 6-16	1:11	5.91	17.8	1766	226	0.6	0.05	563±6 558±26	208 <i>leave in</i>
	A34-1	1:45	5.85	20.8	1957	219	0.5	0.04	570±6 526±31	204
Dip in 1° at start	A34-1	2:07	5.65	19.0	777	187	1.2	0.2	333±1 481±47	208
	A35-1	2:38	6.28	18.5	694	109	0.6	0.1	367±1 345±66	204
	A36-1	2:58	6.13	19.2	1880	296	5.6	0.1	381±1 487±30	208
	A37-1	3:21	6.03	20.4	412	65	0.9	0.4	376±1 286±120	204
	Std 6-18	3:43	5.84	20.5	1950	224	0.2	0.03	567±1 558±26	208
20% drop in 1°, last 2 cycles	A38-1	4:05	6.04	18.4	522	98	1.2	0.7	349±1 217±84	208
	A39-1	4:50	5.81	20.0	466	85	0.0	—	379±1 198±58	None
	A40-1	5:11	6.06	21.1	1346	212	3.1	0.4	358±1 317±55	204
	A41-1	5:31	5.98	19.9	598	99	0.0	—	381±1 293±49	None
erratic 1° adjusted O ² lost 1° 20% drop in 1°	Std 6-19	6:13	5.91	21.7	2061	219	0.2	0.02	556±1 523±25	208
	Std 6-20	—	—	—	aborted		—	—	—	—
	Std 6-21	—	—	—	lost peaks		—	—	(Post in!)	—
erratic 1° last cycle	Std 3-1	7:21	6.17	19.3	2043	211	0.6	0.04	558±1 605±25	208
	A42-1	7:45	6:04	20.9	526	89	2.3	0.8	343±1 335±106	204
	A43-1	8:07	6:17	20.5	1841	300	15.1	0.9	335±1 578±30	208
	A44-1	8:36	6.20	19.1	1618	274	2.3	0.3	344±1 346±41	204