

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 6/12/95 UWA Mount No.: 95-28 Whose sample?: MARCUS Operator(s): IF+MR

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 = 32 nanosecs
 actual 196-204 = 8.168 actual 204-bkg = 0.045 expected resolution = >4200
 Primary = 2.6 nA PESABM = 41 pA actual resolution = 4585
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 63

Comments: 1st run unstable (fritchy) but seems to be improving
 ① Reset 206-207 spacing
 ② Re-adjusted 206-207-208 spacings

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	Corr.	
<u>207, 208</u> <u>248</u>	<u>sl</u>	<u>28:41</u>	<u>12:46</u>	<u>6.65</u>	<u>16</u>	<u>1916</u>	<u>-</u>	<u>0.9</u>	<u>0.08</u>	<u>-</u>	<u>554</u>	<u>204</u>
<u>238, 248</u> <u>254</u>	<u>4-2</u>	<u>13:09</u>	<u>6.64</u>	<u>17</u>	<u>2027</u>	<u>225</u>	<u>0.4</u>	<u>0.03</u>	<u>577</u>	<u>596</u>	<u>204</u>	
<u>196, 208</u> <u>238, 254</u>	<u>4-3</u>	<u>13:36</u>	<u>6.52</u>	<u>17</u>	<u>1938</u>	<u>221</u>	<u>0.9</u>	<u>0.06</u>	<u>569</u>	<u>632</u>	<u>208</u>	
<u>254</u>	<u>u</u>	<u>528:1-1</u>	<u>14:02</u>	<u>6.65</u>	<u>15</u>	<u>599</u>	<u>63</u>	<u>2.1</u>	<u>0.5</u>	<u>651</u>	<u>558</u>	<u>204</u>
<u>196, 238</u> <u>254</u>	<u>2-1</u>	<u>14:35</u>	<u>6.19</u>	<u>16</u>	<u>859</u>	<u>77</u>	<u>1.1</u>	<u>0.2</u>	<u>879</u>	<u>867</u>	<u>204</u>	
	<u>3-1</u>	<u>-</u>	<u>high</u>	<u>204</u>	<u>-</u>	<u>abandon</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
<u>204, 238</u> <u>248</u>	<u>3-2</u>	<u>15:04</u>	<u>6.72</u>	<u>16</u>	<u>1934</u>	<u>133</u>	<u>0.9</u>	<u>0.08</u>	<u>909</u>	<u>884</u>	<u>204</u>	
<u>254, 196, 206</u> <u>208, 238</u>	<u>sl</u>	<u>3-1</u>	<u>15:31</u>	<u>6.34</u>	<u>17</u>	<u>2083</u>	<u>224</u>	<u>0.7</u>	<u>0.06</u>	<u>577</u>	<u>528</u>	<u>204</u>
<u>196, 206</u> <u>254</u>	<u>u</u>	<u>4-1</u>	<u>15:56</u>	<u>6.74</u>	<u>16</u>	<u>1406</u>	<u>102</u>	<u>1.0</u>	<u>0.1</u>	<u>842</u>	<u>840</u>	<u>204</u>
	<u>4-2</u>	<u>-</u>	<u>high</u>	<u>204</u>	<u>-</u>	<u>abandon</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
<u>196, 206</u> <u>248</u>	<u>5-1</u>	<u>16:27</u>	<u>7.03</u>	<u>16</u>	<u>419</u>	<u>40</u>	<u>2.5</u>	<u>1.1</u>	<u>570</u>	<u>817</u>	<u>204</u>	

Mount/sample No: 95-28

Date: 6/12/95

Page No: 2

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238 207/206	Corr.
196.206 206.	u C.6-1	16:56	6.53	16	1463	35	1.6	0.1	2476 2467	204
196.206 254.238.248	u C.7-1	17:18	6.61	17	4926	107	3.0	0.08	2534 2490	204
204.238 ② 254	sl 3-2	17:42	6.65	18	2086	216	1.3	0.1	571 578	204
196.207	u C.8-1	18:22	6.41	16	782	62	3.0	0.5	888 812	204
⇒ * (254)	u C.9-1	18:51	6.84	17	1716	126	1.6	0.02	729 861	204
196.204 206.208	u C.10-1	19:15	7.10	15	1417	163	29.5	3.9	461 938	204
196 196.207	u C.11-1	19:38	6.54	16	695	53	1.1	0.2	860 854	204
	PS28.3-3	20:23	6.46	20	2108	207	1.2	0.1	559 559	204
196.206 218.	u C.12-1	20:49	6.61	16	3924	90	1.3	0.04	2403 2480	204
196.206 238.207.208	u C.13-1	21:15	6.63	16	485	34	0.9	0.3	875 943	204
196.	u C.14-1	22:38	6.50	15	857	70	1.5	0.2	851 865	204
* 206.208 238.218	u C.15-1	22:05	6.44	15	659	66	3.6	0.6	821 729	204
218	u C.16-1	22:33	6.51	17	405	31	2.3	0.9	832 723	204
196.204 254.206.238	sl 3-4	23:08	6.50	18	2027	223	0.8	0.06	564 530	204
196.204 218.254	u C.17-1	23:33	6.53	16	990	85	3.8	0.5	791 854	204
204.218	u C.17-2	23:57	6.69	15	1333	107	13.2	1.5	786 891	204
196.238 218.254	u C.18-1	00:21	6.48	16	1332	101	3.3	0.3	884 839	204
238.254	u 19-1	00:44	6.51	15	1046	82	1.0	0.1	888 878	204
—	u 19-2	01:08	6.37	16	534	44	1.3	0.3	880 887	204
196.204	sl 3-5	01:31	6.65	16	2056	228	1.5	0.1	576 532	204
—	u 20-1	01:55	6.78	16	764	76	1.6	0.3	622 577	204
254	u 21-1	02:17	6.60	15	768	58	0.8	0.1	887 869	204
206.208 218.	u 22-1	02:40	6.58	15	1809	141	1.9	0.1	897 858	204
238. 254	u 23-1	03:06	6.71	15	830	60	1.2	0.2	911 935	204
—	u 24-1	03:29	6.69	16	497	35	3.0	1.0	872 721	204

Mount/sample No: 95-28

Date: 6/7-12-95

Page No: 3

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196	206	U	204Pb	f206	Age $\pm 1\sigma$ (Ma)		Corr.
				cps	cps	ppm	ppb	%	206/238	207/206	
196-206 207-238 254	SL 1-1	03:58	6.62	17	2136	231	1.8	0.1	579	555	204
204-248 254	MS28C.25-1	04:22	6.59	16	437	32	1.3	0.4	861	874 774	204
196	M C.26-1	04:46	6.51	16	613	48	1.4	0.3	855	865	204
196-248	M C.27-1	05:09	6.64	15	3373	81	2.2	0.08	2432	2459	204
196-206	M C.28-1	05:32	6.62	16	916	84	2.2	0.4	680	665	204
196	M C.29-1	05:56	6.53	15	709	56	5.6	1.1	898	707	204
196-204 254	SL 1-2	06:21	6.59	16	2000	232	1.4	0.1	568	548	204
204-254	M C.30-1	06:41	6.53	16	1226	94	1.1	0.1	878	882	204
204-206 254-208-238	M C.31-1	07:03	6.59	15	2365	271	1.9	0.1	600	605	204
238-254	M C.32-1	07:28	6.51	14	530	42	6.2	1.6	910	730	204
196-206 207	M C.33-1	07:50	6.51	15	1620	37	3.6	0.2	2742	2632	204
196-206 207	SL 1-3	08:13	6.58	16	1954	230	2.3	0.1	573	536	204