

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

Date: 5/5/98 UWA Mount No.: 98-15 Whose sample?: Yumin Operator(s): IF+YQ

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	
<b>Precambrian</b>	Count time (secs):	<u>2</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>30/10*</u>	<u>10</u>	<u>5</u>	<u>5</u>	<u>2</u>
<b>Phanerozoic*</b>	Delay time (secs):	<u>8</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>2</u>

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040 amu      Dead-time = 32 nanosecs  
 actual 196-204 = 8.169      actual 204-bkg = 0.043      expected resolution = >4200  
 actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = 5780

Primary = 3.8 nA      PESABM = 46 pA      actual Primary : PESABM (≈ 50:1) = 65  
 Raster time (mins): 1      Raster aperture (microns): 100      No. of scans: 6  
Sensitivity ~ 10

Comments: ① Let 2 stds: 1<sup>o</sup> unstable.  
 ② From ~ 5 pm, -ve spikes in 1<sup>o</sup>.  
 D = Sample KY 17      1std = 14      % = 3.02  
 B = Sample KY 5      (Actual slope = 1.9 ; % = 8.01)

error of Type 1b occurred.

1<sup>o</sup> unstable

- || - del scan 3 FS: 2.5%

Stable

Trash? very poor regression

PD1

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 k cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Corr.	196-204 206-207
	sl.4-1	10:22	6.79	17.5	1576	-	1.5	.02	-	604	208
	sl.4-2	10:43	6.42	15.7	1264	248	0.9	.07	559	613	208
	sl.3-1	11:11	6.43	16.7	1349	242	-ve	-	571	551	-
	nd.1-1	11:27	6.04	13.6	2043	89	66	.17	2911	2878	204
	D.2-1	11:43	6.58	16.5	5980	237	21	.32	2137	2471	204
	D.3-1	12:04	6.40	15.3	4560	143	-ve	-	2482	2418	-
	D.4-1	12:19	6.60	15.3	4945	145	-ve	-	2897	2811	-
	sl.3-2	12:35	6.48	15.5	1349	250	-ve	-	582	615	-
	D.5-1	12:54	6.32	16.2	1468	53	0.4	.02	2607	2711	204
	D.6-1	13:12	6.60	15.0	2572	76	1.6	.05	2953	2891	204
	D.7-1	13:28	6.44	15.6	8913	338	6.0	.05	2470	2746	204

196-204  
206-207

8.169  
1.000  
8.169  
1.000

- || -

Rejection over-ride Sample/Std ID Time - printout UO/U 196 k 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 k cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	D-8-1	13:47	6.44	15.7	3106	101	0.3	.01	2793	2838	-
	D-9-1	14:05	6.33	15.7	3049	99	-ve	-	2910	2832	-
	sl. 3-3	14:22	6.36	15.5	1314	247	1.4	.10	609	482	204
	D-10-1	14:39	6.18	12.1	2988	194	0.9	.02	2164	2500	204
	D-11-1	14:59	6.48	15.5	1807	53	0	0	3030	2875	204
	D-12-1	15:17	6.42	15.1	1131	35	1.3	.08	3063	2916	204
	D-5-2	15:32	6.42	15.8	2639	90	2.5	.07	2683	2866	204
	D-13-1	15:49	6.29	16.8	2769	107	0.3	0	2436	2674	204
	sl. 4-3	16:05	6.46	14.6	1206	243	-ve	-	574	561	-
	D-14-1	16:23	6.43	15.1	3062	98	2.5	.06	2909	2863	204
	D-15-1	16:43	6.68	14.8	6367	174	1.4	.02	3072	2837	204
	D-16-1	16:59	6.51	15.6	2322	73	2.9	.10	2798	2818	204
	D-17-1	17:17	6.47	14.3	7084	238	0.2	0	2895	2925	-
	D-17-2	17:32	6.38	14.9	2707	99	2.0	.05	2709	2716	204
	sl. 3-4	17:49	6.40	15.4	1290	241	-ve	-	601	546	-
	D-18-1	18:05	6.68	15.0	4834	183	10.	.17	2326	2710	204
	D-19-1	18:22	6.63	15.5	4079	177	1.0	.02	2063	1999	204
	D-20-1	18:38	6.36	15.6	9067	425	2.5	.02	2694	/	204
	D-21-1	18:56	6.53	14.	4717	604	6.6	.1	287	1748	204
	D-22-1	19:13	6.47	14.8	1885	59.5	-1.2	/	2962	2890	204
	sl. 3-5	19:31	6.68	14.3	1344	231	-1.0	.05	618	590	204
	D-23-1	19:51	6.65	15.4	4367	120	0.5	.01	2996	2912	204
	D-23-2	20:11	6.99	40.1	648	218	11.	.13	2673	2898	204
	D-24-1	20:32	6.1	15.2	3445	130	0.9	.02	2922	2834	204
	D-25-1	20:49	5.88	14.1	2214	100	-2.3	/	2972	2889	204

PD2

checkable 10 min early scan(s)

del scan 1: 248 + 258

possible data drop points (10 we skip) PD2

core rim(?)

PD3

will de loessit & take it remove from file del scan 1: 206 → 238

PD3

handwritten scribbles

8.16  
1.00  
8.16  
1.00

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.

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.
	S13-6	21:10	6.44	12.9	1108	260	-1.1	✓	565 594	✓
	D3-2	21:33	4.13	15.3	21	391	-190	✓	3301 2907	✓
	S13-7	22:	6.21	15.	1205	255	1.2	.08	601 469	204
	B15-1	22:25	6.09	14.7	545	19	0.9	.09	3144 2912 <sup>±21</sup>	206
	B13-1	22:43	6.84	12.9	1732	51	0.5	.02	3051 2942±9	206
	B12-1	23:03	6.69	13.	1398	46	0.3	.01	2926±14 2968±10	206
	B10-1	23:20	6.24	14.	1221	44	-0.5	✓	3060±16 2968±10	✓
	B7-1	23:44	6.82	14.8	9323	244	2.3	.02	3022±6 2949±4	204
	S13-8	0:02	6.11	14.2	1092	267	-2.	✓	581 517	206
	B6-1	0:22	6.29	13.7	1083	39	1.8	.1	3039±17 2933±13	204
	B5-1	0:40	6.30	15.1	1660	57	0.1	.01	2912±13 2922±9	204
	B4-1	0:59	6.86	14.9	795	19.	0.2	.02	3157±22 2939±14	206
	B3-1	1:16	6.34	15.9	533	16.	1.	.13	3051±25 2964±22	204
	B1-1	1:33	6.74	14.5	1226	32	-0.8	✓	3193±18 2949±10	206
	S13-9	1:56	6.5	14.3	1200	229	0.	0.	607±1 584±20	208
	B23-1	2:18	6.35	13.7	3374	115	0.4	.01	3108±10 3086±6	204
	B22-1	2:36	6.68	13.3	436	13	0.9	.15	3187±3 2945±22	206
	B25-1	2:53	6.51	14.8	1506	44	-1.	✓	3107±15 2968±9	✓
	B26-1	3:10	6.53	15.	2728	80	0	✓	3048±11 2965±7	✓
	B27-1	3:27	6.77	10.4	2498	105	8.2	.2	2794±1 2747±8	204
	S13-9	3:45	6.31	16.9	1357	242	0.7	.05	600 593	204
	B28-1	4:02	6.35	16.6	1687	48	1.8	.08	3073±14 2988±9	204
	B31-1	4:21	6.96	12.3	613	17.	2.2	.26	3146±25 2939±20	206
	B32-1	4:39	6.19	16.1	620	20	1.9	.2	3076±23 2900±18	204
	B32-2	4:55	6.34	15.6	1589	51	0.1	.006	2954 2995	204

4 PD 9:10 PM ↑  
 PD doesn't like this remove from file

5 Sample  
 B = K/5

PD

New P.D. 6

suspected contamination  
 delete from data reduction? ←

P.D.



