

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

Date: 2/11/48 UWA Mount No.: 98-78 Whose sample?: Birger Operator(s): IF + BR  
*penders + 194*

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Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
Precambrian Count time (secs):	2	2	10 ✓	10 ✓	10/20*	30/10*	3	2	1	1
Phanerozoic* Delay time (secs):	8	8	3 ✓	1 ✓	2 ✓	1 ✓	1	1	3	2

expected 196-204 = 8.170 amu      expected 204-bkg = 0.045 amu      Dead-time = 32 nanosecs  
 actual 196-204 = 10.169      actual 204-bkg = 0.042      expected resolution = >4200  
 actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = 5880

Primary = 0.34 nA      PESABM =          pA      actual Primary : PESABM (≈ 50:1) =           
 Raster time (mins): 1      Raster aperture (microns): 70      No. of scans: 6

Comments: 30 μ aperture  
Retardation

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 <sup>4</sup> Kcps	206 Kcps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma)	Offsets OK?
									206/238    207/206	
	xlc-1-1	11:57	9.83	31	46	-	0.4	0.03	4.78    2636	207 outlier
	xlc-1-2	12:09	9.92	33	58	284	0	0	5.08    2634	- " -
	P.9-1a	12:40	8.38	22	0.55	9	0.1	0.33	1.79    1698	✓
	9-1b	13:01	8.84	31	0.85	8	0.1	0.50	1.92    1721	✓
	9-1c	13:24	7.47	18	0.33	8	0.3	1.2	1.41    1580	✓
	9-1d	13:52	7.67	21	0.46	8	0.2	1.1	1.34    1664	✓
	xlc-2-1a	14:12	10.32	28	101	481	0.1	0	6.02    2634	✓
	xlc-2-1b	14:28	10.22	24	89	491	0	0	5.78    2625	✓
	xlc-2-1c	14:43	10.19	20	79	480	0.1	0	5.65    2617	✓
	xlc-2-1a	14:54	10.23	20	74	634	0.1	0	5.33    2619	✓
	7-1a	15:21	9.11	30	0.39	4	0	0.23	2.09    1654	✓

30 μ aperture  
Spot was moved slightly

Mount/sample No: 92-78

Date: 2/11/98

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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?
	7-1b	15:39	8.30	27	0.37	4	0	.40	1.68	1688	✓
	7-1c	15:55	9.48	23	0.36	4	0	.21	1.89	1740	✓
	7-1d	16:17	9.13	19	.33	4	0.1	.76	1.54	1636	✓
	7-2a	16:43	8.26	27	1.0	12	0	.04	1.65	1713	✓
	7-2b	16:54	8.49	24	.98	15	0.1	.27	1.64	1691	✓
	7-2c	17:15	8.43	22	.91	17	0	.06	1.58	1715	✓
	etc 3-1a	17:35	9.72	29	34	234	0	0	4.77	2630	✓
	3-1b	17:50	9.34	27	31	265	0	0	4.37	2644	✓
	3-1c	18:05	9.49	24	30	272	0.1	0	4.31	2631	✓
	7-3a	18:24	9.77	24	.75	5	0.1	.86	2.44	1681	✓
	7-3b	18:40	8.85	24	.78	7	0.1	.54	2.11	1696	-
	7-3c	18:56	8.89	23	.81	10	0.1	.33	1.89	1704	✓
	5-1a	19:19	8.90	30	1.2	11	0.1	.32	2.14	1731	✓
	5-1b	19:38	8.49	23	1.1	14	0	0.04	1.91	1694	✓
	5-2a	20:10	8.99	25	0.6	6.3	0.1	0.44	2.09	1636	✓
	5-2b	20:26	8.41	23	0.56	8.1	0.1	0.26	1.93	1675	✓
	5-2c	20:41	8.39	20	0.51	7.8	0.1	0.23	1.81	1695.7	✓
crash - should be 2-2a	etc 2-1a	21:56	10.38	19	52	428	0.1	0	5.84	2631	
	etc 2-2b	22:13	10.23	18	48	404	0.1	0.01	5.56	2628	