

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

Date: 15/4/99      UWA Mount No.: 98-90      Whose sample?: Yanni Qin      Operator(s): LF+YC

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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 ✓    10 ✓    10 ✓    10/20\* ✓    30/10\* ✓    10 ✓    5 ✓    5 ✓    2 ✓    (copy 1-1)

**Phanerozoic\***    Delay time (secs):    8 ✓    3 ✓    1 ✓    2 ✓    1 ✓    1 ✓    3 ✓    2 ✓    2 ✓

expected 196-204 = 8.170 amu      expected 204-bkg = 0.045 amu      Dead-time = 32 nanosecs

actual 196-204 = 8.170      actual 204-bkg = 0.042      expected resolution = >4200

actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = 5216

Primary = 1.9 nA    PESABM = 22 pA    actual Primary : PESABM (≈ 50:1) = 86

Raster time (mins): 1    Raster aperture (microns): 120    No. of scans: 6

Comments: Sensitivity = 13.0

① moved K. aperture to remove tail on spot.

② changed 206, 207 integration times

D = JCHGL-19

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	CZ. 1-11	12:52	6.99	63	792	-	4.2	.36	-	379	.
①	CZ. 1-12	13:13	6.99	6.8	818	222	0.0	0	550	616	✓
②	D. 1-1	13:35	7.14	6.2	237	293	<0	0	129	-	✓
	D. 2-1	13:59	7.16	6.2	115	143	1.1	.50	127	-	✓
	D. 2-2	14:17	7.12	6.1	183	187	0.1	.03	158	-	✓
	CZ. 1-13	14:34	6.96	6.2	757	222	<0	-	562	665	✓
	D. 3-1	14:52	6.96	6.1	92	124	3.3	1.8	127	-	✓
	D. 4-1	15:11	6.96	6.01	25	34	-ve	-	130	-	✓
	CZ. 1-14	15:29	7.10	6.1	795	215	0.2	.02	586	536	+ fixed for next spot
	D. 5-1	15:50	6.74	6.4	93	51	-ve	-	327	366	✓
	D. 5-2	16:07	7.10	6.2	168	82	0	-	328	399	✓

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?
	D.6-1	16:24	6.99	6.1	208	277	1.1	.27	128	-	✓
	D. 7-1	16:46	7.81	5.2	74	89	0.5	.52	122	-	✓
	D.7-2	17:09	7.13	5.3	40	28	0.8	1.4	130	-	✓
	CZ.2-15	17:27	6.98	6.1	746	219	0.9	.08	565	605	✓
	D.8-1	17:47	7.07	5.3	154	218	2.5	.75	135	-	✓
	D.9-1	18:04	7.14	5.9	129	164	0.2	.11	131	-	✓
	D10-1	18:24	7.04	6.1	21	27	2.1	4.5	130	313	✓
	D11-1	18:42	7.14	5.9	145	188	1.9	1.06	129	-	✓
	S12-16	19:00	7.13	5.8	725	214	1.8	.03	558	513	✓
	D12-1	19:18	7.08	6.02	144	187	2.3	2.8	126	-	✓
	D13-1	19:36	7.25	5.6	129	165	1.3	.2	132	297	✓
	D16-1	19:57	7.11	5.6	32	46	-0.1	2.4	117	-	✓
	D16-2	20:14	6.99	5.8	24	34	-0.7	2.	123	396	✓
	S12-17	20:31	7.14	5.9	747	213	1.3	.05	567	587	✓

*all notes*

*n=13*

*13. n=14*

*n=15*