

11/7/07

UWA SHRIMP LOG SHEET

Date **9/5/07** UWA mount no(s) **07-16** Mineral(s) **ZR** Whose sample? **McN** Operator(s) **Serena**

Notes: Masses in **bold** = peak centred; others = offset from lower mass centred peak (see offsets below).

Zircon/Badd.	196	204	204.1	206	207	208	238	248	254
Count time (secs)	2	10	10	10/20	30/10	10s	5	5	2
Delay time (secs)	8	3	1	4	2	1	3	2	2
Centring (secs)	3	-	-	3	-	-	3	3	2

Titanite/Perovskite	200	204	204.1	206	207	208	248	254	270
Count time (secs)	2	10	10	10/20	30/10	10	5	5	7
Delay time (secs)	8	3	1	4	2	1	4	2	3
Centring (secs)	3	-	-	4	-	-	4	3	3

Monazite (SHB)	202	203	204	204.1	206	207	208	232	254	264	270
Count time (secs)	2	2	10	10	10/20	30/10	5	5	2	2	2
Delay time (secs)	8	1	1	1	4	2	2	4	3	3	2
Centring (secs)	1	2	-	-	4	-	2	2	2	2	2
Cup in/out (SHA) out								in	out	in	

Xenotime (SHB)	194	(196)	204	204.1	206	207	208	238	248	254
Count time (secs)	2	(5)	10	10	10/20	30/10	5	5	5	2
Delay time (secs)	8	(2)	3	1	4	2	1	3	2	2
Centring (secs)	1	-	-	-	4	-	-	4	3	2

MASS OFFSETS (record setup offsets for session, and **check them after each analysis**).

Note: Setup offsets are different for SHRIMP A and B: i.e. 206-207 = 1.001 for A and 1.005 for B.

Zircon/Badd.	196-204	204-204.1	204-206	206-207	206-208	
Expected offsets:	8.170	0.045	~2.001/9	1.001/5	2.001/9	
Setup offsets:	8.155	0.045	~2.004	1.004	2.007	
Titanite/Perovsk.	200-204	204-204.1	204-206	206-207	206-208	
Expected offsets:	4.136	0.045	~2.001/9	1.001/5	2.001/9	
Setup offsets:	.....	.....	.....	.....	.....
Monazite (SHB)	202-203	203-204	204-204.1	204-206	206-207	206-208
Expected offsets:	~1.000	1.110	0.045	~2.001/9	1.001/5	~2.001/9
Setup offsets:	.....	.....	.....	.....	.....	.....
Xenotime (SHB)	(194-196)	194-204	204-204.1	204-206	206-207	206-208
Expected offsets:	1.998	10.143	0.045	~2.001/9	1.001/5	2.001/9
Setup offsets:	.....	.....	.....	.....	.....	.....

Deadtime ns **Kohler aperture** **Retard**volts **Resoln**

Primary on Steel: O⁻ bits & nA O₂⁻ bits & nA

Primary O₂⁻ on: epoxy = nA; standard = nA; **PESABM** on std = pA

Raster: Time (mins): 2.0 Aperture: 120 **No. of scans:** 5

Useful information	MONAZITE	XENOTIME
CZ3 = 564 Ma & 551 ppm U	French = 514 Ma & 1000 ppm U	MG1 = 490(?) Ma
Temora 2 = 417 Ma & ~130 ppm U	PD95 7/6 age = 1698(?) Ma	BS1 = 507(?) Ma
Khan = 518 Ma & 700 ppm U	Z2908 7/6 age = 1795(?) Ma	Xeno1 = 994 Ma & 7/6 age = 997 Ma
SDA : 7/6 age = 3578+/-4 Ma	QMa = 505(?) Ma	
BR266 : 559 Ma & 903 ppm U		

11/07/07

Date ~~11/07/07~~

UWA mount no(s) 07-16

Page no. 1

Note: Bold = constant for stds & unknowns.....check after each analysis; also check offsets.

Sample/ Std ID	Time on printout	UO/U 254/238	196 (zr) Keps	206 cps	U ppm	f ₂₀₆ %	Sensit.	Age+/-1σ (Ma) 206/238 207/206	Offsets OK?
<i>Alternative</i>		UO2/UO 270/254	194 (xt) 200 (tnt) 203 (mz)	206 cps	254 270 Keps	204 cps	196/194 264 Keps	206/238 206/254 206/270	207/206 Check after each!!!
BR266.2-1	23:12	6.53	12	2600	954	0.02	26.3	550 ± 4 608 ± 40	✓
BR266.3-1	23:30	6.46	13	2500	892	0.03	27.2	548 ± 4 558 ± 24	✓
BR266.4-1	23:48	6.82	12	2600	886	0.07	28.5	560 ± 5 517 ± 8	
0716.48-1	00:15	7.158	12	7800	321	0.03	29.3	3625 ± 24 3622 ± 5	✓
0716.49-1	00:35	6.97	12	6200	256	0.08	29.0	3651 ± 44 3668 ± 12	✓
0716.50-1	00:53	6.52	12	11000	490	0.031	26.7	3499 ± 26 3645 ± 8	✓
BR266.2-2	1:13	6.80	12	2600	941	0.002	27.4	549 ± 24 598 ± 19	✓
0716.51-1	1:29	6.84	12	5400	228	0.07	28.5	3630 ± 27 3658 ± 4	✓
0716.52-1	1:50	6.45	12	4700	212	0.03	26.4	3605 ± 28 3664 ± 6	✓
0716.53-1	2:08	6.44	12	2000	87.6	0.04	26.8	3635 ± 44 3670 ± 11	✓
0716.54-1	2:26	6.77	12	2700	118.6	0.08	27.7	3647 ± 63 3647 ± 9	✓
BR266.3-2	2:43	6.66	12	2400	898	-0.04	27.5	559 ± 4 621 ± 25	✓
0716.55-1	3:02	6.83	12	3900	163	0.134	28.3	3650 ± 50 3676 ± 8	✓
0716.56-1	3:19	6.84	12	4200	181	0.112	28.1	3611 ± 41 3695 ± 4	✓
0716.57-1	3:36	6.29	12	1900	93.6	0.04	26.3	3444 ± 62 3609 ± 11	✓
BR266.4-2	3:53	7.065	11	2500	891	0.014	29.3	547 ± 7 600 ± 30	✓
0716.58-1	4:12	6.23	12	1500	66.8	0.16	26.2	3689 ± 59 3852 ± 8	✓
0716.59-1	4:30	6.76	12	5400	241	0.07	27.9	3559 ± 32 3614 ± 8	✓
0716.60-1	4:49	6.93	12	7300	333	0.08	28.7	3454 ± 25 3636 ± 6	✓
BR266.1-1	5:06	7.26	11	2600	882	0.06	30.8	557 ± 4 570 ± 24	✓
0716.61-1	5:25	7.016	12	5800	358	0.06	29.7	2460 ± 15 3520 ± 4	✓

