

SHRIMP data acquisition logsheet

SHRIMP A or **B** Mineral = **ZR**

Date	Sample/Mount(s)	Sample owner	SH operator	Night-runner(s)
24/11/08	08-18 + others	Marco B.	NMcN	Marco +

Deadtime.....25.....ns Kohler aperture.....50..... Retard.....14.1.....volts Resoln.....5237.....

Primary on steel: O⁻ Bits/nA O₂⁻ Bits/nA

Primary O₂⁻ on: epoxy0.38.....nA standard0.52.....nA PostESA BM on std14.6.....

Raster: Time (mins)3.0..... Aperture100..... No. of scans7.....

Zircon/Badd.	196	204	Bk	206	207	208	238	248	254		
Count time (secs)	2	10	10	10/20	30/10	10	5	5	2		
Delay time (secs)	8	3	1	4	2	1	3	2	2		
Peak centring time (secs)	3	-	-	3	-	-	3	3	2		
Titanite/Perovskite	200	204	Bk	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		
Peak centring time (secs)	3	-	-	4	-	-	2	3	3		
Rutile	192	204	Bk	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		
Peak centring time (secs)	3	-	-	4	-	-	2	3	3		
Monazite	202	203	204	Bk	206	207	208	232	254	264	270
Count time (secs)	2	10	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
Peak centring time (secs)	1	2	-	-	4	-	2	2	2	2	2
Xenotime	194	204	Bk	206	207	208	238	248	254		
Count time (secs)	2	10	10	10/20	30/10	5	5	5	2		
Delay time (secs)	8	3	1	4	2	1	3	2	2		
Peak centring time (secs)	1	-	-	3	-	-	4	3	2		

Mass Offsets

Zircon/Badd.	196-204	204-Bk	204-206	206-207	206-208	
Expected offset	8.170	0.045	2.001/9	1.001/5	2.001/9	
Setup offsets	8.155	0.045	2.006	1.003	2.005	
Titanite/Perovskite	200-204	204-Bk	204-206	206-207	206-208	
Expected offset	4.136	0.045	2.001/9	1.001/5	2.001/9	
Setup offsets						
Rutile	192-204	204-Bk	204-206	206-207	206-208	
Expected offset	12.100	0.045	2.001/9	1.001/5	2.001/9	
Setup offsets						
Monazite	202-203	203-204	204-Bk	204-206	206-207	206-208
Expected offset	1.000	1.110	0.045	2.001/9	1.001/5	2.001/9
Setup offsets						
Xenotime	194-204	204-Bk	204-206	206-207	206-208	
Expected offset	10.143	0.045	2.001/9	1.001/5	2.001/9	
Setup offsets						

* Changed 206/207 count times after analysis. → gram was Badd!!

Date 24/11/03 Mount 08-18 Page no. 1

Filename	Time	UO/U	196	206	f206	U	Sensit-	Age/Ma	Age/Ma	Check	
		254/238	Kcps	-cps-	(%)	ppm	ivity	206/238	207/206	offsets	
Alternatives		UO2/UO	Reference			254/270		Pb/U ratio	207/206		
		270/254	Kcps			Kcps					
08-18 RECALIBRATE BR. 3-7	10:02	4.00	4.0	59	.70	903	2.1	555 ± 14	2008 ± 108	✓	
BR. 3-7											
" BR. 1-4	10:34	7.75	3.0	380	-17	903	12.5	558 ± 6	447 ± 66	✓	
" BR. 1-5	10:58	8.06	3.0	370	.12	898	13.1	535 ± 6	550 ± 57	✓	
" BR. 1-6	11:22	8.39	2.9	410	-08	947	13.5	537 ± 5	564 ± 73	✓	
" F. 4-3	11:52	7.88	3.0	94	.47	100	12.7	1175 ± 30	1094 ± 102	✓	
" F. 4-4	12:17	7.82	3.2	230	.83	232	13.6	1152 ± 23	1111 ± 83	✓	
" BR. 1-7	12:41	8.00	2.9	370	0	904	12.9	535 ± 7	549 ± 42	✓	
" F. 4-4b	13:06	6.59	3.6	94	1.34	129	11.9	929 ± 24	941 ± 193	✓	
" E. 1-2	13:39	7.91	2.6	330	-	421	11.4	1115 ± 23	1273 ± 47	✓	
" E. 1-2b	13:59	6.39	3.6	260	-46	308	16.1	1143 ± 23	1144 ± 75	✓	
" BR. 1-8	— aborted → 10 drafting										
	Adjusted Dno : 600 → 500										
" BR. 1-9		"	"								
" BR. 1-10	15:00	8.19	3.1	400	-05	911	12.6	528 ± 8	579 ± 52	✓	
" BR. 2-4	15:23	8.29	3.2	420	-	891	13.3	543 ± 8	520 ± 46	✓	
" G. 1-1	15:59	7.65	2.6	80	0	114	9.6	1072 ± 29	1295 ± 51	✓	
" G. 1-2	16:26	7.97	3.4	210	-13	203	12.8	1129 ± 20	1126 ± 81	✓	
" Q. 1-3	16:52	7.55	3.2	180	.83	198	11.6	1130 ± 20	1324 ± 86	✓	
" BR. 2-5	17:16	7.75	3.3	420	-08	872	13.3	545 ± 7	480 ± 54	✓	
" B. 1-2	18:14	7.75	3.5	97	.53	96.2	11.9	1161 ± 45	956 ± 244	✓	
" C. 1-2	18:41	7.75	3.4	96	-	101.0	11.2	1163 ± 30	1160 ± 60	✓	
" C. 1-3	19:05	7.75	3.2	60	-41	61.5	11.3	1196 ± 38	1080 ± 122	✓	
" BR. 2-6	19:29	7.75	3.4	400	9.11	858.4	13.3	533 ± 6	659 ± 59	✓	
" C. 1-4	19:54	7.75	3.0	65	-34	86.0	10.5	1067 ± 42	1337 ± 136	✓	
" C. 1-5	20:18	7.75	2.8	79	-	100.2	10.7	1081 ± 34	1251 ± 56	✓	
" H. 1-1	21:02	7.75	2.8	46	2.58	522.4	11.1	1153 ± 17	1055 ± 102	✓	
" BR. 2-7	21:26	7.75	3.0	360	-05	921.5	11.8	507 ± 5	649 ± 51	✓	
08-14	BR. 1-1	22:08	7.75	2.8	380	-11	916.0	12.9	517 ± 7	517 ± 54	✓
"	BR. 1-2	22:32	7.75	3.0	440	-21	871.6	12.7	626 ± 44	810 ± 161	✓
"	BR. 1-3	22:56	7.75	3.0	380	-17	902.4	12.5	518 ± 7	562 ± 50	✓
→	BR. 1-4	00:54	7.75	3.0	350	-41	869.7	11.5	531 ± 9	407 ± 85	✓

no 2° on unknown, test on std.

still no 2° on unknown, switch mount

