

SHRIMP data acquisition logsheet

SHRIMP A or **B**

Mineral = **ZR**

Date	Sample/Mount(s)	Sample owner	SH operator	Night-runner(s)
17/6/10	04-116B 09-28C 16-06	ELSON JACEK	McN	Serena

Deadtime.....ns Kohler aperture.....
 Retard.....volts Resoln.....
 Primary on steel: O⁻ Bits/nA O₂⁻ Bits/nA
 Primary O₂⁻ on: epoxynA standardnA PostESA BM on std
 Raster: Time (mins) Aperture No. of scans

Zircon/Badd.	196	204	Bk	206	207	208	238	248	254		
Count time (secs)	2	10	10	10/20	20/10	10	5	5	2		
Delay time (secs)	8	8	8	4	2	8	3	8	8		
Peak centring time (secs)	3	-	-	8	-	-	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		

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	8.63	0.040	~2.005	1.004	2.006	
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						

Filename	Time	UO/U	196	206	f206	U	Sensit- ivity	Age/Ma	Age/Ma	Check offsets	SBM (%)
		254/238	Keps	-cps-	(%)	ppm		206/238	207/206		
Alternatives		UO2/UO	Reference			254/270		Pb/U ratio	207/206		
		270/254	Keps			Keps					
<i>0928</i> BR.1-16	9:24	5.55	14	2800	.10	903	24.2	558±3	533±26	✓	1.0
BR.1-17	9:41	5.58	14	2800	.06	902	24.2	555±4	611±25	✓	1.4
06C.1-3	9:58	5.47	14	4900	.09	212	23.5	3429±28	3484±10	✓	1.6
BR.1-18	10:14	5.59	14	2800	.03	890	24.8	561±4	551±23	✓	1.1
C.43-2	10:32	5.31	15	1400	.34	408	23.6	622±5	630±54	✓	1.2
C.43-3	10:48	5.59	14	1800	.17	493	24.5	644±4	642±48	✓	1.3
BR.1-19	11:05	5.40	15	2700	.03	877	24.2	559±5	572±29	✓	2.1
C.42-3	11:24	5.57	14	1300	.36	361	24.9	628±8	677±60	✓	1.3
C.42-4	11:40	5.41	14	1300	.15	387	23.2	630±8	632±60	✓	1.7
C.45-3	11:56	5.59	14	640	.85	189	24.2	618±10	433±101	✓	1.6
C.45-4	12:12	5.49	14	1400	-	428	23.3	619±10	642±26	✓	3.5
BR.1-20	12:31	5.47	14	2700	-	922	23.5	555±4	596±24	✓	?
BR.1-21	12:49	5.36	14	2700	.10	890	23.3	557±5	551±26	✓	1.6
<i>04116</i> TEM.1-1	13:12	5.61	14	310	-	137	25.1	413±9	371±63	✓	3.4
TEM.1-2	13:28	5.30	15	390	.48	177	23.6	418±5	271±133	✓	2.5
B.2-4	13:49	5.75	13	2500	.08	761	24.1	634±4	639±24	✓	2.0
B.2-5	14:05	5.85	13	2700	.13	782	25.4	610±4	676±36	✓	2.5
B.4-3	14:25	5.18	14	1200	1.04	357	23.2	628±8	581±75	✓	2.4
TEM.1-3	14:41	5.96	13	550	-	250	26.0	401±4	528 ±50	✓	3.9
TEM.1-4	14:58	5.90	13	310	.76	140	25.4	405±6	193±164	✓	2.4
B.4-4	15:19	5.85	13	790	.57	235	24.7	628±6	650±86	✓	2.2
B.15-6		-	aborted	→	high	204					
TEM.2-1	15:46	5.73	13	190	1.35	86	25.1	412±8	-	✓	2.0
TEM.3-1	16:06	5.79	13	410	.97	183	25.6	407±6	72±173	✓	2.8
CONTINUED TO 10-06 (JACEK)											

Offsets: 196-204 = 8.163 204-Bkg = .040 204-206 = 2.005 206-207 = 1.004 207-208 = 1.002