

SHRIMP data acquisition logsheet

SHRIMP A or **B**

Mineral = **RUTILE**

Date	Sample/Mount(s)	Sample owner	SH operator	Night-runner(s)
30/10/12	08-63 + 12-22 + 12-25	ASRF	McN	Ni

Deadtime.....**25**.....ns      Kohler aperture.....**100+**.....      Retard.....**14.4**.....volts      Resoln.....**5238**

Primary on steel:    O<sup>-</sup> ..... Bits/nA      O<sub>2</sub><sup>-</sup> ..... Bits/nA

Primary O<sub>2</sub><sup>-</sup> on:    epoxy ..... nA    standard ..... nA    PostESA BM on std .....

Raster:    Time (mins) .....**2.0**.....      Aperture .....**100**.....      No. of scans .....**6**.....

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		
<b>Titanite/Perovskite</b>	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		
<b>Rutile</b>	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		
<b>Monazite</b>	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
<b>Xenotime</b>	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						
<b>Zircon/Badd.</b>	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						
<b>Titanite/Perovskite</b>	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						
<b>Rutile</b>	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	12.091	-0.040	~2.005	1.004	2.006	
<b>Monazite</b>	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						
<b>Xenotime</b>	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						

**Rutile**  
 WHQ =  
 U/Pb = 2625 Ma  
 Pb/Pb = 2642 Ma  
 Age U = 164 ppm

08-03 = STD

Date 30/10/12 Mount 12-22 + 12-25 Page no. 1

Filename	Time	<del>UO2</del> 254/238 UO2/UO 270/254	<del>196</del> Kcps Reference Kcps	206 Kcps-	f206 (%)	<del>U</del> ppm Kcps	Sensit- ivity	<del>Age/Ma</del> 206/238 Pb/U ratio 206/270	Age/Ma 207/206 207/206	SMB %
0803 * → WH. 8-2	13:42	1.38	290	10	.02	18	-	.833	2631±6	9.5
" WH. 3-2	14:04	1.75	1600	21	.05	123	-	1.000	2641±3	13.2
WH. 4-2	14:23	1.69	1900	21	.03	?	-	.955	2619±4	11.3
1222 A. 1-1	14:45	1.81	1700	.093	5.76	45	-	0.52	165±1008	16.4
" A. 2-1	15:05	1.75	1900	.230	10.97	77	-	0.548	0±895	13.0
" A. 3-1	15:36	2.11	970	.065	1.30	25	-	0.325	1343±353	
0803 WH. 5-2	16:02	1.77	1500	22	.01	?	-	.956	2627±10	9.2
" WH. 20-1	16:20	1.25	3300	19	.002	?	-	0.95	2632±3.5	13.1
1222 C. 1-1	16:49	1.82	1600	1.7	6.79	?	-	1.063	2925±21	16.8
should name as 2-1 C. 1-2	17:19	1.2	3400	0.3	4.80	26.7	-	0.833	2390±108	12.4
should name as 3-1 C. 1-3	17:38	1.14	2300	0.3	3.07	43.2	-	0.938	2442±73	4.5
" C. 4-1	18:09	0.83	4900	0.49	9.50	45.6	-	0.942	2341±90	18 <sup>12</sup>
" C. 5-1	18:29	0.875	2600	0.32	11.5	48.8	-	0.914	2042±168	14.5
" C. 6-1	18:49	0.656	6700	0.2	1.04	1.7	-	0.952	2482±80	18.6
changed samples 0803 WH. 8-3	19:17	1.71	1100	4.4	0.52	153.2	-	1.073	2648±16	16.1
" WH. 16-1	20:57	1.91	1400	21	0.02	?	-	1	2642±18	7.4
" WH. 17-1	21:21	1.2	4400	17	0.38	?	-	0.944	2618±4	14.5
1225 B. 1-1	21:51	1.67	1700	1.6	0.26	10.4	-	1.143	2921±14	5.6
" B. 1-2	22:10	1.65	1600	0.6	2.46	22.3	-	1.176	3354±271	5.8
" B. 2-1	22:28	1.78	1100	3.6	1.17	81.8	-	1.125	2877±57	12.2
" B. 3-1	22:48	0.775	4300	0.97	3.41	8.6	-	1.043	2907±19	13.1
" A. 4-1	23:07	1.243	1300	2.8	4.59	309.2	-	0.609	2463±23	13.7
" B. 5-1	23:28	1.343	1300	0.5	5.49	66.7	-	1.064	2701±96	14.7
" B. 6-1	23:47	0.673	4800	0.82	5.91	8.6	-	1.108	2921±27	16.0
0803 WH. 17-2	00:12	1.25	2400	13	0.16	?	-	0.867	2623±14	14.4
" WH. 18-1	00:31	1.615	1200	21	0.19	?	-	1	2642±4.1	9.1
1225 B. 7-1	00:57	1.727	5700	0.2	6.18	36.1	-	1.053	2818±48	5.6
" B. 8-1	01:21	1.9	470	0.39	2.01	179.5	-	1.026	2574±59	10.1
" B. 9-1	01:40	0.915	2600	0.46	0.76	36.5	-	0.852	2518±45	10.7
" B. 10-1	02:1	1.772	510	0.72	7.74	129.1	-	1.310	3177±81	11.2
" B. 11-1	02:23	1.677	960	0.44	0.74	45.5?	-	0.904	2457±33	10.0
" B. 12-1	02:44	1.524	1200	0.63	0.202	39.8	-	0.984	2787±23	9.3
0803 WH. 12-2	03:08	1.867	500	15	0.019	?	-	1.071	2589±24	11.4

Offsets: Ref-204 = 12.091 204-Bkg = 0.140 204-206 = 2.005 206-207 = 1.004 206-208 = 2.006

\* Turned retardation lens "off"

sudden changes otherw: all good

Filename	Time	UO/U	196	206	f206	U	Sensit-	Age/Ma	Age/Ma	SBM	
		254/238	Kcps	Kcps-	(%)	ppm	ivity	206/238	207/206	%	
Alternatives		UO2/UO	Reference			254/270		Pb/U ratio	207/206		
		270/254	Kcps			Kcps		206/270			
1225 .. .. .. .. .. .. .. .. 0803 .. .. 1225 .. .. .. 0803 .. ..	WH.18-1	03:35	1.929	510	5.6	0.017	255.3	—	1.037	2637±6	10
	B. 12-2	03:58	1.459	1000	0.54	0.664	45.5	—	1	2684±34	5.8
	B. 13-1	04:17	1.477	780	0.63	0.403	46.1	—	0.969	2644±30	8.8
	B. 14-1	04:36	1.545	1200	0.51	0.26	33.2	—	1	2755±29	6.8
	B. 15-1	04:54	2	470	1.0	0.283	60.7	—	1.064	2858±112	11.9
	B. 16-1	05:16	1.654	710	0.76	24.8	84.9	—	1.767	4089±357	8.5
	B. 17-1	05:36	1.745	520	0.88	0.154	40.0	—	1.073	2903±19	12.5
	WH.18-2	06:02	1.935	450	6.2	0.33	1078.2	—	1.033	2636±5	14.3
	WH.10-2	06:21	1.778	390	12	0.13	158.6	—	1.25	2608±24	10.0
	B. 17-2	06:42	1.688	1000	2.7	0.197	186.3	—	1	2682±455	13.4
	B. 18-1	07:01	1.6	800	3.4	0.058	23.8	—	1.063	2856±11	9.7
	B. 18-2	07:20	1.6	730	2.5	0.08	?	—	1.042	2866±22	6.9
	WH.19-1	07:44	1.667	1600	26	0.059	1754.4	—	1.04	2631±4	9.2
	WH.21-1	8:02	1.60	1200	15	0.02	31	—	0.94	2645±12	6.7
	← FINISHED →										
	( GO TO ZR IN 12-23 )										

Offsets: Ref-204 = ..... 204-Bkg = ..... 204-206 = ..... 206-207 = ..... 206-208 = .....

