

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

Date: 25/8/95      UWA Mount No.: 95-17      Whose sample?: Chris Adams      Operator(s): IF+JL

Indicate any change to the following:		196	204	bkg	206	207	208	238	248	254
<b>Precambrian</b>	Count time (secs):	2 ✓	10 ✓	10 ✓	10 ✓	30	10 ✓	5 ✓	5 ✓	2 ✓
	Delay time (secs):	7 ✓	3 ✓	1 ✓	2 ✓	1 ✓	1 ✓	3 ✓	2 ✓	2 ✓
<b>Phanerozoic</b>	Count time (secs):	2	10	10	10	10	10	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040 amu      Dead-time = 32 nanosecs  
 actual 196-204 = 8.168      actual 204-bkg = 0.042      expected resolution = >4200  
 Primary = 2.0 nA      PESABM = 37 pA      actual resolution = 4775  
 expected Primary : PESABM ≈ 50:1      actual Primary : PESABM = 54

Comments:

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Corr.
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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Corr.			
	del 207(3)	sl 517.3-1	12:37	5.85	12K	965	—	6.3	0.3	—	504	208	
	del 204(7)	3-2	13:00	5.70	15K	1214	229	15.3	0.3	621	603	208	
	del 207(1)	3-3	13:23	5.36	16K	1213	recal	3.9	0.3	Recal	594	208	
											606	208	
	Restored	u 517B.11	13:47	5.74	15K	1624	274	14.0	1.1	523	350	204	
											325	208	
	-do-	u 8.21	14:10	7.00	15K	223	23	4.5	4.8	430	132	204	
	check Pb spacing	3-1	—	1.7	dropped	30	27	—	—	about	—	—	
	Restored	sl 34	14:57	5.54	15K	1147	206	8.5	0.9	553	645	208	
	-do-	u B.32	15:20	5.90	14K	5190	459	8.3	0.2	917	962	204	
	2 mg drilled down	Del206(1)	A.11	15:43	5.73	11K	174	90	17.	6.	~230	—	204/208
	Rest-all	A.21	16:09	5.84	14K	97	30	8.7	8.	~270	—	204/208	
	Del207(7)	3-1	16:33	5.79	13K	225	390	14.	7.	~240	—	204/208	

Rejection over-ride Sample/Std ID Time - printout UO/U 196 cps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Corr.

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	Restored all	16:56	5.82	13K	1178	188	6.3	0.5	574	496	208
	-do- u A.41	17:20	5.50	11K	767	92	14.	1.3	1082	1181	204
	-do- 5-1	17:57	5.65	16K	782	128	8.5	1.3	530	7800	204/208
	-do- 6-1	18:17	5.37	7.5K	436	44	12.	1.3	237	?	204/208
	-do- 52	18:41	5.78	13.9'	802	143	6.8	1.0	506	397	204
	Restored all	19:08	6.15	14.1K	1255	165	4.5	0.5	547	477	204
	Restored all	19:33	5.96	15.5K	1381	184	4.7	0.2	551	639	208
	-do- u5178.4-1	20:03	6.11	14.9K	1120	60	2.9	1.5	762	604	208
	-do- u5178.5-1	20:28	6.03	14.6K	475	64	4.3	1.2	544	485	204
	-do- u5178.6-1	20:53	5.93	14.7K	1028	152	3.8	0.2	531	499	208
	-do- u5178.7-1	21:20	6.11	14.9K	437	65	5.9	1.8	464	392	208
	-do- u517.2-1	<del>Loss of high frequency, but data look OK</del>									
	<del>u517.2-2</del>	POWER WENT OFF									
	<del>u517.2-2</del>	22:08	5.94	14.8	1310	176	2.9	0.2	571	648	208
	TEST	Absorted									
	-do- u517.2-3	23:47	5.77	16K	1294	191	9.5	0.4	534	563	208
	-do- u517.2-4	00:20	5.86	15.4K	1335	179	4.8	0.2	581	581	208
	-do- u5178.8-1	02:13	5.29	14.0K	1354	153	5.0	0.1	886	985	208
	Del u5178.9-1	02:34	6.03	11.4K	497	93	8.4	1.7	507	1523	208
	Del u5178.10-1	03:00	6.06	11.8K	188	70	12.6	8.0	230	276	208
	Del u5178.11-1	03:24	5.81	9.5K	546	346	10.8	1.9	206	236	208
	Restored all	03:48	5.94	10.2K	972	184	12.7	0.8	588	590	208
	Restored all	04:13	5.84	9.7K	1053	319	17.8	1.3	414	502	208
	Restored all	04:42	4.33	31K	1378	181	7.3	0.4	1.064	818	208
	Restored all	05:06	4.53	30.8K	574	291	7.0	0.2	231	447	208

1 my unstable, dropping  
Duo gas pres. indicated  
2 my dropped away (very curved)

my unstable, dropping during the test operation. How fastening for 5 minutes

Absorted many dropped 30%  
Absorted

Proprietary settings were changed  
1: 1.6 mA  
2: 3.2 pA

1: jumped to 1.0 mA  
2: 40 pA

Could this be the NO<sub>2</sub> peak?  $Zr_{20}$  has increased, but not Pb!

Mount/sample No: 9517

Date: 25-26/8/95

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	<sup>204</sup> Pb ppb	<sup>206</sup> Pb %	Age ±1σ (Ma) 206/238      207/206		Corr.
	15143.151	05:30	4.47	30.8K	1053	250	3.0	0.3	521	466	204
	1514.1-1	05:56	4.45	32.2K	1090	220	4.9	0.2	597	617	208
	1517.1-2	06:20	4.31	33.2K	1093	238	5.7	0.2	640	637	208
	1517.1-3	06:44	4.27	31.7K	1045	252	5.9	0.2	641	595	208
	1517.14	07:07	4.40	32.9K	1106	221	0.5	0.1	630	554	208