

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 20/10/97 UWA Mount No. 97-26 Whose sample? AGSU Operator(s) McN + AR

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
<del>Precambrian</del> Count time (secs):	2	10	10	10	30/100	10	5	5	2
<del>Phanerozoic</del> Delay time (secs):	78	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 = 0.040      expected resolution = >4200  
 actual 206-207 = 1.001      actual 206-208 = 2.000      actual resolution = 4875  
 Primary = 3.4 nA      PESABM = 55 pA      actual Primary : PESABM (= 50:1) = 62  
 Raster time (mins): 1      Raster aperture (microns): 100      No. of scans: 6

Comments: A = 1063 3φ - stu  
 B = 9796 9126 - AGSU  
 C = " 9102B - AGSU

6-1, 41-1  
 6-2, 43-1  
 all seem to be NO<sub>2</sub><sup>-</sup> analysis

Note Kniff glitch with B22-1 and B34-1

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	sl. 1-1	10:07	5.38	22.1	2116	220	0.5	.04	572 ± 1	631 ± 22	204
	sl. 1-2	10:23	5.45	21.8	2190	216	0.4	.03	578 ± ?	570 ± ?	"
	B. 1-1	10:41	5.62	23.1	23K	439	10.5	.08	2196 ± 3	2613 ± 3	"
	B. 2-1	10:58	5.39	19.2	4.1K	216	1.4	.05	1227 ± 2	1181 ± 11	"
	sl. 1-3	11:15	5.51	21.7	2223	210	0.5	.04	582 ± 1	545 ± 20	"
	B. 3-1	11:32	5.68	21.1	5.0K	206	1.6	.07	1175 ± 2	1197 ± 10	"
	B. 4-1	11:49	5.18	22.2	795	232	4.2	.67	236	2503	204
	B. 5-1	12:07	5.48	24.6	2395	978	2.4	.21	1137	1190	204
	sl. 1-4	12:24	5.58	21.5	2216	206	0.9	.08	578	546	204
*	B. 6-1	12:42	3.33	24.7	752	1054	-19.3	.11	1523	1121	204
Delete last scan	B. 7-1	13:06	6.07	23.1	8651	158	2.9	.05	1819	2621	204

\* Not an O<sub>2</sub> peak?!

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	B8-1	13:25	5.41	23.5	7706	140	2.9	.06	2504±5	2624±5	204
	B8-2	13:42	5.98	21.0	13K	175	1.5	.02	2704±5	2607±3	204
	<b>S1-1-5</b>	<b>14:00</b>	<b>5.42</b>	<b>19.9</b>	<b>2045</b>	<b>229</b>	<b>0.3</b>	<b>.03</b>	<b>574±6</b>	<b>657±20</b>	<b>204</b>
	B8-3	14:19	5.54	21.0	20K	369	3.2	.02	2610±4	2631±3	204
Delete last scan	B9-1	14:37	5.82	21.3	22K	347	7.4	.06	2464±3	2558±3	204
	B10-1	15:04	6.02	22.6	22K	461	15.4	.16	1684±2	2474±3	204
	B11-1	15:24	5.73	19.8	7051	321	0.9	.03	1104±1	1164±7	204
	<b>S1-1-6</b>	<b>15:43</b>	<b>5.59</b>	<b>20.6</b>	<b>2237</b>	<b>212</b>	<b>0.6</b>	<b>.05</b>	<b>578±1</b>	<b>493±26</b>	<b>204</b>
Delete last scan	B12-1	16:00	6.21	21.8	5053	144	25.3	1.12	1194±2	2614±9	204
	B13-1	16:17	5.43	21.5	1141K	581	2.7	.04	1114±1	1165±6	204
	B14-1	16:40	5.49	20.0	2990	146	0.7	.04	1185±3	1214±20	204
	B15-1	16:58	5.69	20.8	6843	188	11.7	.29	1980±4	2622±5	204
	<b>S1-1-7</b>	<b>17:16</b>	<b>5.65</b>	<b>20.1</b>	<b>2157</b>	<b>206</b>	<b>0.6</b>	<b>.06</b>	<b>564±1</b>	<b>618±30</b>	<b>204</b>
	B16-1	17:34	5.78	22.8	25K	611	40.4	.32	1667±2	2507±3	204
	B17-1	17:51	5.33	22.7	2009	98	2.5	.21	1170±3	1143±20	204
Delete last scan	B18-1	18:08	5.36	20.2	3436	77	11.5	.43	2475±8	2659±8	204
	B19-1	18:25	5.45	19.5	1989	97	0.1	.01	1231.3	1214.25	204
	<b>S1-1-8</b>	<b>18:45</b>	<b>5.39</b>	<b>22.2</b>	<b>2078</b>	<b>216</b>	<b>0.5</b>	<b>.05</b>	<b>566±1</b>	<b>600±16</b>	<b>204</b>
	B20-1	19:04	5.49	21.9	6846	332	0.8	3.0	1091±1	1195±9	204
	B21-1	19:22	5.70	21.0	9859	164	2.7	.05	2569±5	2632±4	204
	B22-1	19:42	5.57	21.5	16K	70	5.7	.07	1065±1	1169±5	204
	B23-1	20:01	5.56	22.7	2634	59	3.5	.23	1962±6	2638±9	204
	<b>S1-1-9</b>	<b>20:21</b>	<b>5.44</b>	<b>20.7</b>	<b>2089</b>	<b>220</b>	<b>-ve</b>	<b>-ve</b>	<b>573.3</b>	<b>582±16</b>	<b>—</b>
	B24-1	20:40	5.93	18.3	12K	570	7.3	.13	1001±1	1050±7	204
	B25-1	20:58	5.75	20.0	5440	132	38.6	1.2	1873±4	2634±8	204

Note: typed in **S172621-1** Delete last Tho print out! **\*\***

\*\* Typed in: 4726-23-1, should be 4726B23-1

(\*) To force Tho benefit to work in 1 Knill. - see also B34-1

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	B26-1	21:19	5.73	19.5	3584	151	1.1	.06	1201±2	1192±11	204
	B27-1	21:39	5.50	21.5	6196	241	2.4	.09	1137±2	1150±10	204
	sl.1-10	21:58	5.54	19.4	2103	219	0.5	.04	578±1	524±33	204
	B28-1	22:20	5.61	19.9	1922	34.3	0.8	.06	2649±12	2614±10	204
	B29-1	22:37	5.73	21.1	9240	403	20.2	.45	1081±1	1157±11	204
	B30-1	22:56	5.79	18.4	103k	441	1.2	-.02	1206±8	1202±6	204
	B31-1	23:14	5.47	21.4	2288	108	2.3	.18	1158±3	1206±19	204
	sl.1-11	23:32	5.63	18.6	2076	211	-ve	-ve	581±1	476±16	-
	B32-1	23:51	5.58	19.2	1840	85	1.5	-.14	1221±3	1144±19	204
	B32-2	0:11	5.51	20.0	3288	157	3.8	.20	1196±2	1114±16	204
	B33-1	0:31	6.25	19.6	4368	97.5	3.1	-.15	1625±4	2620±6	204
	B34-1	0:49	5.58	19.0	14k	754	6.9	.08	1087±1	<del>1127±6</del> 1127±6	204
	B35-1	1:07	5.58	22.6	5681	240	2.4	.09	1139±2	1129±10	204
	sl.1-12	1:25	5.63	17.2	1946	219	-ve	-ve	569±1	537±17	204
	B36-1	1:43	5.34	19.1	6964	530	17.5	.36	894±1	1183±11	204
	B37-1	2:02	5.68	21.0	9415	429	1.2	.03	1071±1	1128±7	204
	B38-1	2:22	5.35	18.5	2816	163	3.1	.16	1185±3	1183±6	204
	B39-1	2:40	6.15	22.4	6917	226	13.6	.46	1065±1	2628±6	204
	sl.2-1	2:57	5.60	20.2	2151	210	-ve	-ve	572±1	542±17	208
	B40-1	3:15	6.30	14.7	2498	145	7.9	.53	855±2	2628±6	204
	B41-1	3:32	4.28	32k	1105	117	0.5	.04 1089±3	1224±20		204
	B42-1	3:52	5.06	19.6	7722	373	3.2	.41	1622±3	2606±6	204
**	B.6-2	4:11	3.68	34.5	701	241	3.1	.02	1229±5	1177±32	204
	sl.2-2	4:31	5.52	20.6	2127	218	-ve	-ve	561±1	553±16	-
	B.43-1	4:50	4.25	30.9	397	37	1.4	-.28	1328±8	1170±29	204

⊗  
see B22-1  
Delete last ThO

\* Small grain, with overlap on epoxy. Primary dropped off during analysis  
 \*\* Primary systematically dropped off during analysis

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	B.44-1	5:11	5.59	19.9	7269	353	3.6	.09	1122±1	1188±7	204
	B.45-1	5:29	5.68	18.8	3177	567	-	.00	2681±10	2712±7	204
	B.46-1	5:47	5.78	18.0	7139	317	0.9	.02	1200±2	1264±8	204
	S1.2-3	6:04	5.52	18.5	1962	222	0.3	0.3	564±1	598±16	-
	B.47-1	6:21	5.90	20.3	3274	684	1.0	.04	2582±9	2635±7	204
	B.48-1	6:40	5.58	19.7	3884	72.6	1.5	.06	2623±8	2632±6	204
	B.49-1	6:59	5.71	18.7	6211	286	0.3	.01	1166±2	1195±11	204
	B.50-1	7:14	5.69	18.8	5224	236	-U	-ve	1198±2	1225±8	204
	S1.2-4	7:31	5.35	20.2	2015	234	-ve	-ve	571±1	537±16	-
	B.51-1	7:48	5.46	20.6	3259	283	17.4	.76	677±1	2.631±10	204
*	C.1-1	8:08	5.75	19.4	0.6	60	-ve	55%	.3±.1	0	207
	S1.2-5	8:26	5.50	18.5	1979	227	0.4	.03	568±1	561±20	204

\* Auto peak centering