

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 29/6/98 UWA Mount No.: 97-48 Whose sample?: AL50 Operator(s): McN + PV

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
Precambrian	Count time (secs):	25	10	10	10	30/10	10	5	5	25
Phanerozoic	Delay time (secs):	78	3	1	2	1	1	3	24	24/4

expected 196-204 = ~~8.170~~ ^{4.140} amu expected 204-bkg = 0.040 ³ amu Dead-time = 36 nanosecs

actual 196-204 = 4.135 actual 204-bkg = 0.045 expected resolution = >4200

actual 206-207 = 0.999 actual 206-208 = 2.000 actual resolution = 5625

Primary = 2.9 nA PESABM = 72 pA actual Primary : PESABM (≈ 50:1) =

Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 6

Comments: B = AL50 9796-9138

* 1° dropped off during analysis

Rejection over-ride	Sample/ Std ID	Time - printout	^{U02/U0} ^{U0/U} ^{270/254}	²⁰⁰ ¹⁹⁶ ^{cps}	206 ^{cps}	^{U02} ⁽²⁷⁰⁾ ^U ^{cps}	204Pb ^{ppb}	f206 [%]	^{206/270} ^{Age ± 1σ} ^(Ma)	^{Age ± 1σ} ^(Ma)	²⁰⁰⁻²⁰⁴ ^{Corr.}	²⁰⁶⁻²⁰⁷ ²⁰⁶⁻²⁰⁸
*	Kh. 1-1	13:29	.840	1652	2898	18.4K	/	.59	.1568	516 ± ?	4.135	0.999 2.000
*	Kh. 1-2	13:59	.865	1718	2913	18.1K	/	.60	.1607	454 ± ?	- " -	- " -
*	B. 1-1	14:19	.885	1487	4.5K	4514	/	.49	.992	2596	- " -	- " -
*	B. 1-2	14:38	.868	1334	4.3K	4293	/	.47	.999	2607	- " -	- " -
*	Kh. 1-3	14:57	.867	1586	2775	16.9K	/	.75	.1634	495	- " -	- " -
	B. 1-3	15:16	.893	1396	5.1K	5180	/	.36	.977	2629	- " -	- " -
B. 1-3 AK turned off HV + fiddle rack pos -												
	Kh. 1-4	16:50	.889	1510	2578	16.1K	/	.50	.1604	518	- " -	- " -
*	B. 2-1	17:09	0.893	1237	4492	4492	/	.44	.977	2608	- " -	- " -
*	B. 2-2	17:37	0.858	1234	4042	4008	/	.40	1.01	2633	- " -	- " -
*	B. 3-1	19:57	0.888	1277	4631	4652	/	.45	.995	2592	- " -	- " -

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Rejection over-ride	Sample/ Std ID	Time - printout	UO ₂ 270/254 cps	208 196 cps	206 cps	(270) UO ₂ ppm cps	204Pb ppb	f206 %	206/270 Age ±1σ (Ma) 206/238 207/206	Age (Ma)	offsets Corr.
*	kh-1-5	18:17	0.871	1020 1020	2494	15.6K	—	.50	0.1602	499.1	— " —
*	B.7-1	18:38	0.890	1170	3865	3829	—	.82	1.0093	2610.8	— " —
*	B.8-1	18:58	0.892	1166	3988	4014	—	.49	0.994	2614.1	— " —
*	B.9-1	19:19	0.883	1150	3983	3983	—	.52	1.0001	2605.2	— " —
*	kh-2-1	19:40	0.905	1595	1995	12.6K	—	.19	0.1600	549.0	— " —
*	B.10-1	20:01	0.868	1167	4006	3962	—	.27	1.011	2613.4	— " —
*	B.11-1	20:23	0.868	1223	3749	3761	—	.38	0.9968	2627.2	— " —
	B.12-1	20:44	0.884	1184	3944	4123	—	.31	0.9566	2645.9	— " —
*	kh-2-2	21:04	0.899	1536	1990	12.8K	—	1.60	0.1551	454.8	— " —
	B.13-1	21:29	0.874	1166	4778	4839	—	.35	0.9874	2622.9	— " —
	B.14-1	21:49	0.866	1071.0	3649	3502	—	.38	0.9849	2623.6	— " —
	B.15-1	22:09	0.851	1134.6	3648	3748	—	.32	0.9733	2644.7	— " —
	kh-2-3	22:31	0.927	1530	1657	10.7K	—	1.13	0.1545	651.3	— " —
	B.17-1	22:53	0.865	1006.4	3365	3440	—	.38	0.9781	2653.9	— " —
	B.18-1	23:14	0.901	1126.2	3746	3758	—	.32	0.9969	2612.3	— " —
	B.19-1										
	B.19-1	01:41	0.876	1139.0	4186	4159	—	.26	1.0065	2626.9	4.13506 0.999 1.000
	kh-3-1	02:10	0.926	1481.8	18695	11.2K	—	1.19	0.1641	560.0	— " —
12+TKD	B.20-1	2:39	0.883	864.1	1123.3	1108	—	.61	1.014	2662.0	— " —
	B.21-1	03:08	0.873	865.6	3399	3505	—	.26	0.9696	2625.7	— " —
	B.23-1	03:37	0.901	1184.8	5003.6	4912.5	—	.25	1.0185	2629.4	— " —
	kh-3-2	04:04	0.937	1467	1590	9898	—	1.27	0.1607	607.8	— " —
12+TKD	B.24-1	04:33	0.908	1237.6	3099	3138	—	.26	0.9878	2645.3	— " —
	B.25-1	05:02	0.865	952.5	3345	3280	—	.35	1.0197	2612.8	— " —
	B.26-1	05:28	0.900	1144.9	4210	4023	—	.27	1.046	2617.3	— " —

