

3829777

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 15/6/97 UWA Mount No.: 96-22 Whose sample?: AP Operator(s): McIV-AP

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian Count time (secs):	2	10	10	10	30/10*	10	5	5	2
Phanerozoic* 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 = 3.2 nanosecs

actual 196-204 = 8.163 actual 204-bkg = .040 expected resolution = >4200

actual 206-207 = .99963 actual 206-208 = .99896 actual resolution = 5200

Primary = 3.9 nA PESABM = 50 pA actual Primary : PESABM (≈ 50:1) = 78

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: NB: ~~Ami~~ sensitivity is very low ie ± 6.5 cps/ppm/nA which is 1/2 ed accepted value of 12.5 cps/ppm/nA. 1° very stable for first 7 analysis then wobbles about.

[Went to 97-15]

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (k)	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		206/238	207/206	204	Corr.
	sl622.1-1	10:27	5.85	15.2	1088	220	0.2	0.62	572	587			204	
	sl 1-2	10:44	5.86	15.1	1113	219	0.2	0.02	585 ± 1	636 ± 38			204	
	uA.44-1	11:04	6.10	15.7	369	647	-0.8	3.16	55.9 ± 1	-			208	?
	sl 1-3	11:22	6.17	15.8	1240	197	1.1	0.11	587 ± 1	563 ± 40			204	
	uA.42-1	11:42	5.48	16.9	569	663	4.1	0.47	116 ± 1	-			204	x
	sl 1-4	12:01	6.83	14.2	1473	179	-ve	-	620 ± 1	555 ± 32			-	
	uA.50-1	12:22	5.36	20.4	712	899	13.0	1.28	97 ± 1	-			204	x
	sl 1-5	12:38	6.07	17.1	1305	197	-0.3	-	601 ± 1	557 ± 33			-	
	uA 46-1	12:58	5.63	16.3	287	746	30.3	7.21	45.8 ± 1	-			204	✓
	uA 48-1	13:16	4.22	18.3	257	1575	91.7	6.98	68 ± 1	-			204	x
	sl 1-6	13:33	6.35	16.0	1513	191	4.9	0.42	658 ± 1	386 ± 49			204	✓

f = 3.9 nA
wt = 1/2
f = 3.7
wt = 1/2
f = 3.9
wt = 1/2
f = 3.7
wt = 1/2
f = 3.5
wt = 1/2

Mount/sample No: 15/6/97

Date: 96-22

Page No: 2

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.

$I^0 = 3.4$
spot = $\frac{1}{2} - \frac{1}{4}$
spot $\frac{1}{2}$ →

$I^0 = 3.6$
spot = $\frac{1}{2} - \frac{1}{4}$

$I^0 = 3.9 nA$
"

spot = $\frac{1}{2}$, $I^0 = 4 nA$

spot = $\frac{1}{2}$, $I^0 = 3.8 nA$

$I^0 = 3.9 nA$

spot = $\frac{1}{2}$ (pursued)
 $I^0 = 2 nA$

$I^0 = 3.4 nA$
spot = $\frac{1}{2}$
 $I^0 = 3.2 nA$

spot = $\frac{1}{3}$ →
 $I^0 = 3.2 nA$

3.4
3 nA, $\frac{1}{2}$ spot

3 nA, $\frac{1}{2}$ spot

2.4 nA

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	UA49-1	13:52	6.29	12.7	301	570	17.2	4.4	59 ± 1	-	204 ?
	UA51-1	14:14	3.89	13.3	130	2265	279	16.0	56 ± 1	-	204 ?
	UA52-1	14:33	7.79	14.5	564	482	0.5	0.21	62 ± 1	87 ± ?	204 x
	SL1-7	14:50	6.20	17.2	1339	190	0	0.00	593 ± 1	671 ± 32	204
	UA2-4	15:08	6.57	17.0	391	619	0.8	0.25	47 ± 0.2	-	204 ✓
	UA2-5	15:26	5.32	23.4	294	597	7.4	1.98	53.7 ± 1	-	204 ?
	UA3-5	15:44	7.32	14.6	464	655	0.9	0.36	44.5 ± 1	67.4	204 ✓
	? SL1-8	16:01	5.59	9.8	894	271	-uc	-	688 ± 1	717 ± 38	- ?
	? UA53-1	16:21	4.35	13.9	85.6	875	203	4.3	45.6 ± 1	-	204 - ?
	SL1-9	16:41	6.13	15.6	1218	197	0.7	0.07	593 ± 1	516 ± 39	204
	UA54-1	17:01	7.59	10.6	1105	733	2.2	0.30	118 ± 1	34 -	204
	UA56-1	17:18	5.36	15.5	931	635	20.7	1.2	233 ± 1	-	204
	SL1-10	17:34	6.28	16.0	1292	184	0.7	0.07	610 ± 1	466 ± 40	204
	UA57-1	17:52	5.90	10.8	552	983	18.3 18.3	1.69	94.3 ± 1	-	204
	UA58										
	SL1-11	18:09	5.34	13.0 653	653 210	210 43	11.90	1.00	583 ± 2	319 ± ?	204
	SL1-12	18:25	6.37	15.1	1279	181	-0.4	0 -	620 ± 1	601 ± 33	-

wrong? $\frac{1}{2}$?