

UWA SHRIMP DATA LOG

Date: 13/01/00 UWA Mount No.: 98-63 Whose sample?: Yorwin E Operator(s): IF + BR.

Indicate any change to the following: ¹⁹⁴ 196 204 bkg 206 207 ²⁰⁹ 208 238 248 254 270

Precambrian Count time (secs): 2 2 10 ✓ 10 ✓ 10 ✓ 30 ✓ 10 ✓ 2 2 2 ✓
Phanerozoic* Delay time (secs): 8 ✓ 1 3 ✓ 1 ✓ 2 ✓ 1 ✓ 1 ✓ 1 ✓ 3 ✓ 2 ✓ 2 ✓

Steel: Wein volts / nA = for O²⁺; = for O₂⁻; = for NO⁻

dead-time = nanosecs expected resolution = >4200 actual resolution = 4875
 aperture = 10 microns retardation lens = 10014 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 = 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = 8.170 204-bkg = 0.045 204-206 = 1.997

206-207 = 1.000 206-208 = 2.000

Total 1° beam ~ 0.5 nA on xeno.

Primary-epoxy = nA Primary-CZ3 = nA PESABM-CZ3 = pA

Raster time (mins): 2, 3, 5 Raster aperture (microns): 100/120 No. of scans: 7

Comments: Unfiltered 1° beam ; Retardation lens ON.

10 μm Kohler aperture

① Retuned 1° to remove tail

- also use stds listed on 98-69

	Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 206 Kcps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Offsets OK?
2 min raster		x tc. a-1	13:34	11.1	28 26	-	1.4	.10	572 2642	✓
3 min		x tc. a-2	14:00	10.7	27 26	221	0.6	.04	586 2623	✓
dubious		x tc. b-1	14:35	7.7	14	504	1.7	.06	459 2653	✓
3 min 120 μm		Scan 4 85-52-1	15:12	9.8	26 7	72	1.6	.40	477 2694	✓
- " -		Scan 3 85-52-2	15:36	8.4	23 7	88	1.5	.35	568 2816	✓
5 min		Scan 6 85-52-3	16:02	10.4	28 7	70	1.9	.45	514 2800	✓
- " -		x tc. 97-3	16:27	10.8	29 55	391	0.3	.01	629 2631	✓
		85-52-4	17:00	9.4	33 9	84	1.4	.25	572 2804	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 Kcps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)		Offsets OK?
									206/238	207/206	
	85-52.5	17:30	8.6	33	10	84	2.2	0.44	498	2586	✓
Scans 516	85-52.6	17:56	9.6	34	10	77	1.9	0.36	562	2790	✓
	etc. 97.4	18:24	10.6	40	69	351	0.3	0.01	648	2625	✓
no rej in reproc 23/1/00			GO TO 99-69 then to 99-67								
	etc. 1	22:57	10.4	59.1	82.4	220	0	0.01	572.1	2629	✓
	99-67.1	23:26	8.26	52.6	20.0	111.4	1.3	0.17	586.2	2926	✓
	99-67.1B	29:44	5.09	13.6	3.8	427.2	27.6	1.0	530	2770	✓
	99-67.2	00:07	6.37	41.4	18.0	172.9	189.5	9.5	799	3111	✓
	99-67.3	00:31	6.97	51.8	12.1	120.8	1.3	0.2	519.6	2810	✓
	99-67.4	00:55	9.23	85.6	7.0	19.5	0	0.03	528.4	2936	✓
	99-67.5	01:18	8.61	76.2	7.5	37.3	0.1	0.07	375.4	2534	✓
	99-67.6	01:41	8.94	85.5	29.6	84.3	0	0.01	590.9	2996	✓ *
	etc. 2	02:04	10.1	80.7	77.6	174	0	0	545.8	2621	✓
	etc. 3	02:25	10.0	84.7	91.4	202.6	0	0	534.3	2630	✓
	99-67-7	02:49	8.54	86.1	30.3	93.5	0	0.01	585.5	2993	✓ *
	99-67-8	03:13	8.31	87.5	8.4	30.2	0.1	0.06	558	2920	✓
	99-67-9	03:34	6.82	48.5	3.9	61.3	2.1	0.93	346.2	1824	✓
	99-67-10	03:56	8.54	100.6	17.9	71.1	0.4	0.11	469	2882	✓
	99-67-11	04:19	9.19	87.3	36.5	92.7	0.1	0.01	595.6	2972	✓
	99-67-12	04:43	8.36	65.4	6.3	38	0.3	0.23	301.2	2052	✓
	etc. 4	05:06	9.60	93.8	3.2	78.6	0	0	494.7	2632	✓
	etc. 5	05:26	9.89	91.8	74.9	168	0	0	540.3	2625	✓
	etc. 6	05:48	10.1	89.6	89.5	201.3	0	0	543.9	2614	✓