

3/8/02

UWA SHRIMP DATA LOG

Date: ~~2/18/02~~ 3/8/02
 UWA Mount No.: ~~B-15~~ B-15
 Whose sample?: NK
 Operator(s): McV + ~~NK~~ NK

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270
Precambrian Count time (secs): 2 10 10 10/20* 30/10* 10 5 5 2
Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts / nA = 368/89V/2.5 for O⁻; = 266/65V/2.0 for O₂⁻; = 223/54V/2.0 for NO⁻
 dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 4792
 aperture = 100 microns retardation lens = 0 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 = 2.000 ± 6

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 1.95 nA Primary-CZ3 = 2.55 nA PESABM-CZ3 = 35.5 pA

Raster time (mins): 1.5 Raster aperture (microns): 70 No. of scans: 5

Comments: Sample A! → B29

* changed deadtime from 32 to 24 nsec.

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

	CZ. 1-1	10:55	6.39	11	1100	238	1.7	.15	571 ± 9	523 ± 52	✓
	CZ. 1-2	11:13	5.99	12	1000	232	0.3	.03	555 ± 9	599 ± 57	✓
	1-1	11:30	6.30	11	3400	100	4.9	.04	3414 ± 32	3422 ± 8	✓
	UR15. 2-1	11:45	6.66	11	2300	99.5	4.7	.20	2338 ± 23	3029 ± 9	✓
	3-1	12:01	6.20	11	2300	85.3	0.7	.03	3073 ± 29	3090 ± 8	✓
	4-1	12:16	6.48	10	1900	63.4	1.9	.09	3155 ± 48	3221 ± 28	✓
	CZ 1-3	12:33	6.16	11	9400	232.9	1.6	.14	550 ± 5	547 ± 42	✓
	5-1	12:52	6.47	99	1300	45.8	0.5	.03	3209 ± 83	3191 ± 29	✓

off stability during analysis →
 primary dopant →
 *

as above
 1°

1000

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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	Offsets OK?
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	6-1	13.08	6.54	10	8700	30.6	3.2	0.35 0.33	3002 ± 51	3069 ± 18	✓
	7-1	13.24	6.33	98	1900	34.8	3.9	0.17	2944 ± 36	3089 ± 10	✓
1° ↓ ←	8-1	13.40	6.41	96	1300	45.3	2.8	0.00157	3562 ± 55	3556 ± 9.5	✓
	9-81	13.55	6.56	95	9200	31.4	1.8	0.00158	3259 ± 58	3370 ± 12	✓
	c2 1-4	14.12	6.75	93	9800	238.3	0.3	0.00026	562 ± 5	599 ± 4.2	✓
	10-1	14.27	6.33	84	1500	70.5	5.1	0.00239	2889 ± 36	3436 ± 10	✓
	11-1	14.43	5.82	90	3700	16.8	0.8	0.00137	3096 ± 144	3246 ± 22	✓
	12-1	14.58	6.75	94	1100	33.4	1.5	0.00119	3506 ± 25	3560 ± 12	✓
	13-1	15.13	6.50	93	9200	34.6	7.4	0.00639	3101 ± 68	3110 ± 23	✓
	14-1	15.30	6.71	88	2200	122.3	9.3	0.00269	2727 ± 29	3090 ± 10	✓
1° ↓ ←	c2.1-5	15.46	6.79	91	9400	230.5	0.4	0.00035	564 ± 12	606 ± 36	✓
1° ↓	15-1	16.02	6.26	98	1300	50	-0.4	-	3104	3208	✓
	16-1	16.17	6.21	98	9100	34.8	0.9	0.00078	3090 ± 55	3238 ± 13	✓
↓	17-1	16.33	84.89	84	4400	25.9	3.8	0.00431	3196 ± 64	3226 ± 21	✓
	18-1	16.53	6.25	85	1400	52.7	1.8	0.00091	3461 ± 44	3494 ± 11	✓
	19-1	17.09	5.70	69	7500	42.7	4.9	0.00321	3280 ± 58	3184 ± 17	✓
	c2.1-6	17.25	7.16	84	9500	228.5	1.7	0.00144	578 ± 6	557 ± 5.6	✓
dropped during analysis - 1° ↓ →	20-1	17.40	6.34	83	2600	109.3	9.3	0.00250	3178 ± 113	3197 ± 27	✓
high built off peak	21-1	18.04	6.42	85	1400	56.7	0.2	0.00012	3220 ± 44	3210 ± 12	✓
	c2.1-7	18.20	6.64	79	7900	227.4	4.3	0.00381	566 ± 8	456 ± 8.7	✓
	22-1	18.47	6.18	84	5700	23	7.7	0.00922	3321 ± 49	3353 ± 19	✓
	23-1	19.02	5.21	66	1100	73.2	3.0	0.00119	3206 ± 66	3228 ± 11	✓
	24-1	19.18	6.42	81	1700	69.2	1.3	0.00052	3338 ± 47	3359 ± 10	✓
	25-1	19.34	6.96	79	5300	24.1	0.7	0.00103	2842 ± 59	3185 ± 18	✓
	26-1	19.49	6.52	84	5200	21.4	1.9	0.00267	3120 ± 77	3187 ± 40	✓

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	Offsets OK?
	C2-1-8	20.05	6.39	85	7500	226.6	2.4	0.00230	532 ± 5.4	607 ± 47.5	✓
	27-1	20.20	6.32	82	2200	102.2	2.9	0.00089	3052 ± 63	3168 ± 17	✓
	28-1	20.35	6.90	80	5300	20.7	1.0	0.00147	3184 ± 94	3151 ± 16	✓
	29-1	20.50	5.64	77	9200	51	-	-	3090 ± 44	3183 ± 12	✓
	30-1	21.06	6.49	83	6200	26.2	2.3	0.00284	3081 ± 80	3201 ± 19	✓
	31-1	21.21	6.56	81	8900	42.2	0.2	0.00013	2865	2986	✓
	C2-1-9	21.36	6.48	83	7900	232.4	0.9	0.00080	548 ± 10	550 ± 41	✓
	32-1	21.52	6.80	81	1300	51.2	1.9	0.00109	3188 ± 46	3213 ± 11	✓
	33-1	22.07	7.14	80	5100	20.2	3.1	0.00468	3030 ± 76	3214 ± 18	✓
	34-1	22.22	6.06	78	1200	58.7	0.4	0.00019	3095 ± 60	3211 ± 18	✓
	35-1	22.38	6.32	86	3300	14	3.9	0.00842	3086 ± 79	3197 ± 38	✓
	36-1	22.53	6.79	82	8400	34.8	4.3	0.00380	3041 ± 50	3073 ± 17	✓
	C2-1-10	23.08	5.88	88	6900	223.4	3.0	0.00290	539 ± 6	499 ± 69	✓
	37-1	23.24	6.12	73	2500	128.3	5.9	0.00187	3145 ± 29	3195 ± 7.5	✓
	38-1	23.39	4.51	61	8000	71.2	6.5	0.00264	3209 ± 51	3220 ± 14	✓
	39-1	23.54	4.84	72	7000	48.2	3.6	0.00211	3233 ± 59	3121 ± 15	✓
	40-1	00.10	6.51	79	2100	93.1	2.3	0.00275	3103 ± 32	3179 ± 8	✓
	41-1	00.25	6.17	86	7300	32	3.6	0.00338	3104 ± 59	3210 ± 18	✓
	C2-1-11	00.41	6.26	85	7900	236.6	4.4	0.00390	550 ± 4.8	516 ± 67	✓
	42-1	00.56	6.17	87	4900	21	1.1	0.00158	3115 ± 83	3124 ± 19	✓
	43-1	1.11	6.47	88	6900	27.3	2.6	0.00279	3134 ± 73	3170 ± 16	✓
	44-1	1.27	5.98	79	1100	57	1.2	0.00068	3039 ± 39	3230 ± 12	✓
	45-1	1.42	6.68	87	2300	88.2	1.7	0.00057	3120 ± 37	3210 ± 9	✓
	46-1	1.57	5.26	81	5500	30	-	-	3229 ± 69	3232 ± 15	✓
	C2-1-12	2.12	6.66	85	9000	240	3.8	0.00317	571 ± 5	497 ± 46	✓

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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	Offsets OK?
	47-1	2.28	6.86	805	16600	60.6	1.8	.00085	3191 ± 40	3220 ± 12	✓
	48-1	2.43	6.47	90	3000	11.7	0.8	.00190	3131 ± 117	3186 ± 26	✓
	49-1	2.58	6.63	86	6100	25.4	2.5	.00309	2987 ± 56	3183 ± 18	✓
	50-1	3.13	6.68	84	1400	56.2	5.4	.00287	3117 ± 44	3202 ± 11	✓
	51-1	3.28	6.61	92	6500	26.2	4.7	.00579	2928 ± 55	3192 ± 19	✓
	c2 1-13	3.44	6.17	90	8100	233.2	2.0	.00174	553 ± 6	536 ± 52	✓
	52-1	3.59	4.84	75	5300	31.8	3.1	.00257	3482 ± 58	3491 ± 25	✓
	53-1	4.15	6.94	86	13000	54.3	4.9	.00304	2847 ± 183	3132 ± 132	✓
	54-1	4.31	6.65	89	9100	43.2	1.9	.00129	3124 ± 62	3183 ± 12	✓
	55-1	4.46	6.86	83	3100	12.4	0.1	.00019	3061 ± 102	3140 ± 22	✓
	56-1	5.01	6.57	89	1100	42.6	0.1	.00007	3034 ± 53	3182 ± 13	✓
	c2 1-14	5.16	6.28	88	8200	234.6	-	-	557	601	✓
	57-1	5.32	6.94	82	15000	60.2	2.1	.00102	3138 ± 54	3200 ± 13	✓
	58-1	5.47	6.38	88	10000	41.9	2.4	.00170	3106 ± 52	3187 ± 14	✓
	59-1	6.03	6.66	806	26000	90.1	2.8	.00081	3499 ± 39	3585 ± 6	✓
	60-1	6.17	6.19	86	16000	67.7	1.5	.00066	3147 ± 35	3211 ± 10	✓
	61-1	6.33	6.37	83	18000	73.3	0.6	.00026	3187 ± 40	3207 ± 9	✓
	c2 1-15	6.48	6.29	85	8000	235.6	0.8	.00071	561 ± 7.5	588 ± 45	✓
	62-1	7.03	6.36	87	4500	19.5	3.5	.00574	2972 ± 63	3264 ± 22	✓
	63-1	7.20	6.65	84	4700	19.2	0.3	.00048	3113 ± 68	3233 ± 20	✓
	64-1	7.36	5.69	71	6400	35.5	3.2	.00254	3246 ± 64	3162 ± 21	✓
	c2 1-16	7.53	6.69	83	8100	226.8	1.1	.00103	561 ± 6	613 ± 51	✓

1^o dropped during analysis

6200