UWA SHRIMP DATA LOG

Date | UWA Mount No. | Whose sample? | Operator(s)

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

Precambrian Count time (secs): 2 | 10 | 10 | 10/20* | 30/10* | 10 | 5 | 5 | 2 | 2
Phanerozoic* Delay time (secs): 8 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 8

Resin (2) Steel: Wein volts / nA = 79/14 for O^-; = 59/3.0 for O_2^-; = 47/9.2 for NO^-

dead-time = 32 nanosecs | expected resolution = >4200 | actual resolution = 5900

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 = 8.168 | 204-bkg = 0.045 | 204-206 = 1.999

206-207 = 1.000 | 206-208 = 2.000

Primary-epoxy = 3.0 nA | Primary-CZ3= 4.0 nA | PESABM-CZ3 = 40 pA

Raster time (mins): 1 | Raster aperture (microns): 60 | No. of scans: 5

Comments:

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	CZ3-1-1	12:30	6:00	1.6	19000	238	-0.2	0.0013	572.07	526.49	✓
	CZ3-1-2	12:54	5.99	1.7	19000	231.8	-0.5	0.0040	577±3.7	533±32.6	✓
	B73-1-1	13:13	6.11	1.6	19000	36.6	1.5	0.0128	3018±40	3024±11	✓
	B73-2-1	13:30	6.10	1.6	7100	136.3	0.7	0.0019	2968±17	2982±8.2	✓
	B73-3-1	13:46	6.11	1.6	3100	60.8	1.4	0.0075	2941±32	2885±28	✓
	B73-4-1	14:02	6.13	1.6	24000	44.6	0.4	0.0028	3071±32.4	3076±11	✓
	CZ3-1-3	14:19	5.82	1.7	18000	231.0	1.3	0.0123	542±3.4	557±35.4	✓
	B73-5-1	14:35	6.24	1.6	1300	23.2	0.7	0.0094	3137±49	3063±13	✓

KRUGERSDORP FM
BH MAMBA.

Mount/sample No: BSD B73 **Date:** 31/10 **Page No:** 2.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	B73·6-1	14·51	6·27	1·6	1300	25	0·2	·00025	3014	3060	✓
	B73·7-1	15·06	6·20	1·6	3600	70·9	-0·3	·00012	2903±27	2954±7	✓
	B73·8-1	15·22	5·71	1·7	3800	82·4	2·3	·00093	2822±27	2959±10·3	✓
	B73·9-1	15·38	6·07	1·6	2300	43·4	1·4	·00102	3064±40	3077±9	✓
	C23·2-1	15·54	6·19	1·5	1900	241·8	1·6	·00128	580±7	537±52	✓
	B73·10-1	16·09	6·27	1·6	1100	19·3	0·6	·00092	3115±49	3059±12	✓
	B73·11-1	16·25	6·17	1·6	2500	49·8	1·0	·0039	2928±79	2920±25	✓
	B73·12-1	16·46	6·16	1·6	2600	49·4	0·7	·00043	2994±30	3078±8·3	✓
	B73·13-1	17·01	6·21	1·6	4700	93·2	1·4	·00050	3142±27	3092±7·2	✓
	B73·14-1	17·18	6·22	1·5	5900	11·1	-0·4	-ve	3239±69	3096±19·6	✓
	B73·15-1	17·33	6·03	1·6	1400	24·7	1·1	·00130	3130±54	3056±10·7	✓
	B73·16-1	17·50	5·79	1·7	1900	35·5	3·3	·00288	3031±39	3044±11	✓
	C23·2-2	18·05	6·03	1·6	1900	240·7	0·5	·00042	559±6·6	525±35	✓
	B73·17-1	18·22	6·27	1·6	1700	31·7	1·4	·00139	2965±40	3087±11·5	✓
	B73·18-1	18·37	6·23	1·5	6000	128·9	0·3	·00007	2843±18·6	2982±5	✓
	B73·19-1	18·51	5·76	1·5	1400	28·3	1·1	·00117	3146±46	3308±10·7	✓
	B73·20-1	19·10	5·41	1·3	2500	78·8	1·7	·00573	2757±30	3064±7·6	✓
	B73·21-1	19·25	6·04	1·7	30000	49·2	-0·1	-ve	3275±37	3312±14·4	✓
	B73·22-1	19·41	5·76	1·8	2300	44·1	0·6	·00046	2978±395	3058±11	✓
	C23·2-3	19·56	6·06	1·7	2000	239·8	0·7	·00055	574±6·2	583±24·1	✓
	B73·23-1	20·12	6·26	1·7	6000	111·8	1·0	·00029	2945±19	2887±5·4	✓
	B73·24-1	20·28	6·57	1·6	3500	78·5	1·9	·00099	2465±75	2922±68	✓
	B73·25-1	20·43	6·13	1·7	1900	32·5	1·8	·00172	3080±43	3041±10·3	✓
	B73·26-1	20·58	5·83	1·8	2500	44·6	1·9	·00135	2990±30	3071±11	✓
	B73·27-1	21·14	6·20	1·6	2100	37·8	0·9	·00073	3115±35	2975±100	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	B73·28-1	21·29	6·28	1·6	4100	76·4	1·0	·00042	2943 ± 27	2887 ± 23	✓
	B73·29-1	21·45	6·02	1·8	7500	144·4	1·9	·00044	2823 ± 24	2943 ± 9	✓
	C23·2-4	22·00	6·17	1·7	2100	238·4	-0·3	-ve	575 ± 4	578 ± 38·5	✓
	B73·30-1	22·16	5·96	1·7	1400	27·3	0·6	·00068	2946 ± 46	3064 ± 10·3	✓
	B73·31-1	22·31	6·01	1·7	4600	84·6	0·3	·00011	2971 ± 23	2958 ± 7·3	✓
	B73·32-1	22·46	6·06	1·7	1000	184·2	0·9	·00016	3022 ± 15	2979 ± 11·6	✓
	B73·33-1	23·02	6·07	1·8	4100	83·4	0·9	·00040	2675 ± 4	2825 ± 6·7	✓
	B73·34-1	23·18	6·10	1·7	1700	27·5	-0·6	-ve	3241	3078	✓
	B73·35-1	23·33	5·95	1·8	2000	32·3	0·1	·00009	3191 ± 36	3243 ± 7·6	✓
	C23·2-5	23·48	6·10	1·8	2100	231·9	0·7	·00056	575 ± 3·7	571 ± 24	✓
	B73·36-1	00·04	6·03	1·8	1200	20·7	0·7	·00101	2969 ± 48	2966 ± 30	✓
	B73·37-1	00·19	5·82	1·8	1100	18·1	1·3	·00206	3249 ± 55	3094 ± 12·4	✓
	B73·38-1	00·35	5·92	1·8	6000	104·4	0·2	·00006	3009 ± 194	2967 ± 6·7	✓
	B73·39-1	00·50	6·11	1·8	7700	136·2	2·6	·00063	2880 ± 17	2920 ± 4·8	✓
	B37·40-1	1·05	5·94	1·8	8300	13·4	2·1	·00456	3202 ± 56	3029 ± 18	✓
	B37·41-1	1·21	5·86	1·9	3400	59·4	0·4	·00023	2928 ± 30	2926 ± 11	✓
	B37·42-1	1·37	6·17	1·8	2500	43·1	0·8	·00060	2957 ± 30	2975 ± 8·3	✓
	C23·2-6	1·53	5·96	1·8	2200	239·0	0·6	·00051	594 ± 3·9	541 ± 27	✓
	B37·43-1	2·08	5·95	1·9	1200	20·7	1·3	·00200	3032 ± 48	2956 ± 12·5	✓
	B37·44-1	2·24	5·90	1·9	1900	31·6	0·2	·00021	3052 ± 35	3058 ± 9·8	✓
	B37·45-1	2·39	5·87	1·8	1700	29·8	-0·6	-ve	3056	3022	✓
	B37·46-1	2·54	6·04	1·8	3300	57·5	3·2	·00178	2961 ± 27	2938 ± 8·5	✓
	B37·47-1	3·09	5·98	1·9	3600	56·0	0·0	·00001	3165 ± 27	3170 ± 7	✓
	B37·48-1	3·25	5·38	1·8	1000	22·9	1·6	·00227	2844 ± 43	2942 ± 14	✓
	B37·49-1	3·40	5·79	1·9	2600	42·3	0·6	·00039	3142 ± 34	3074 ± 7·2	✓

Mount/sample No: B73 **Date:** 31/10/07 **Page No:** 4

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	C23·3-1	3·56	5·81	1·9	2100	235·6	0·8	·00087	574 ± 39	494 ± 29	✓
	B73·50-1	4·12	5·72	1·8	5100	8·6	1·5	·00491	3228 ± 76	3048 ± 24	✓
	B73·51-1	4·29	6·06	1·3	1400	30·2	0·1	·00011	3250	3260 ·	✓
	C23·3-2	5·17	6·22	1·3	1600	249·1	−0·6	−ve	573 ± 5	586 ± 59·4	✓
	B73·52-1	5·33	6·16	1·4	4100	90·6	2·0	·00070	2995 ± 31	3068 ± 15	✓
	B73·53-1	5·49	5·83	1·5	1600	33·5	0·5	·00047	3078 ± 46	3004 ± 12	✓
	B73·54-1	6·04	5·92	1·5	4800	107·4	0·3	·00008	2904 ± 21	2985 ± 6·1	✓
	C23·3-3	6·25	6·23	1·4	1800	249·7	−0·0	−ve	547 ± 25	614 · 54	✓
	B73·55-1	6·41	6·20	1·5	9700	18·1	0·5	·00077	3261 ± 64	3297 ± 11·2	✓
	B73·56-1	6·56	6·14	1·5	8000	163·7	1·8	·00354	3045 ± 17	2974 ± 4·7	✓
	B73·57-1	7·12	6·18	1·5	1200	21·8	0·9	·00119	3246 ± 50	3203 ± 12	✓
	C23·3-4	7·27	6·00	1·5	1800	243·6	0·6	·00053	565 ± 4	573 ± 32	✓
	B73·58-1	7·43	6·04	1·5	6200	127·4	1·4	·00033	3003 ± 20	2980 ± 7	✓
	B73·59-1	7·58	5·83	1·5	6500	13·0	1·6	·00356	3237 ± 76	3042 ± 22	✓

1° from 4→3

lost last scan Arc dropped out.

✓ lost ≤ 25% of primary.

Creep/pb back up to 4.

4·50 ARC DROPPED OUT