

UWA SHRIMP DATA LOG

Date: 9/2/04 UWA Mount No.: 04-06
04-04 Whose sample?: MB Operator(s): MB

Indicate any change to the following: ¹⁹⁴196 204 bkg 206 207 208 238 248 254 270

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

Steel: Wein volts / nA = for O²⁻; = for O₂²⁻; = for NO⁻

dead-time = 25 nanosecs expected resolution = >4200 actual resolution = 6160

aperture = 30 microns retardation lens = 1000S volts

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

Actual: 196-204 = 10.14176 204-bkg = 0.045 204-206 = 2.005

206-207 = 1.0043 208-208 = 2.007

Primary-epoxy = nA Primary-CZ3 = 0.36 nA PESABM-CZ3 = pA

Raster time (mins): 3 Raster aperture (microns): 50 No. of scans: 7

Comments: 30µm Kohler
Retard ON (1000S V)
Brightness Ap. in

STDS
6x MG1
2x BS1
6x Xenol

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ¹⁹⁴ 196 Kcps	206 cps	UO ppm Kcps	204Pb ppb cps	f ₂₀₆ %	Age ±1σ (Ma) 206/238 254	207/206	Offsets OK?	
	MG1.1-1	12:00	9.66	41	420	7.1	0.07	0.28	0.0601	478 ± 60	✓
	Xenol.1-4	12:22	9.77	36	11000	76	0.09	0.01	0.1579	1008 ± 8	✓
	BS1.1-1	12:46	9.02	29	8.4	1.4	0.05	0.89	0.0650	485 ± 198	✓
	04-06A1-1	13:18	9.16	31	320	0.85	0.5	2.73	0.4310	2659 ± 48	✓
	04-06A.2	13:41	8.46	28	240	0.62	0.8	5.10	0.4282	2683 ± 74	✓
	MG1.1-2	14:04	9.79	45	510	8.2	0.09	0.25	0.0631	454 ± 54	✓
	Xenol.1-2	14:24	9.71	37	11000	79	0.15	0.02	0.1527	998 ± 7	✓
	04-06B.1	14:48	7.83	33	790	2.3	1.1	2.14	0.3714	2602 ± 34	✓

→ Aborted C due to high 204Pb

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	¹⁹⁴ 196	206 cps	UO ppm Kcps	204Pb ppb cps	f206 %	Age ±1σ (Ma) 206/238 254	207/206	Offsets OK?
	04-06D.1-1	15:23	8.83	30	340	0.87	0.9	4.29	0.4005	2619±100	✓
	M61.1-3	15:46	9.85	47	500	8.0	0.08	0.22	0.0673	467±56	✓
	04-06E.1-1	16:09	8.33	34	280	0.73	0.4	2.4	0.4077	2725±47	✓
	04-06F.1-1	16:36	8.77	37	380	1.0	0.4	1.64	0.3979	2613±56	✓
	Xenol.1-3	17:06	9.70	41	13000	86	0.13	0.01	0.1564	996±6	✓
	04-06M.1-1	17:55	7.31	26	490	1.4	0.9	2.9	0.3585	2759±40	✓
	04-06H.1-1	18:21	9.04	28	170	0.4	0.5	4.8	0.4339	2634±132	✓
	M61.1-4	18:44	9.68	45	480	7.8	0.04	0.003	0.0625	495±35	✓
	04-06L.1-1	19:47	9.01	34	520	1.3	0.3	0.98	0.4260	2646±25	✓
	M61.1-5	20:35	9.79	45	460	7.3	0.02	(-)	0.0674	532±31	✓
	Xenol.1-4	20:56	9.87	38	12000	82	0.02	(-)	0.1572	1008±8	✓
	M61.1-6	22:45	9.73	46	490	8	0.02	(-)	0.0640	515±41	✓
	04-041.1-1	22:37	9.22	36	730	1.8	0.8	1.66	0.4113	2676±26	✓
	Xenol.1-5	23:04	10.11	39	13000	83	0.05	0.004	0.1623	993±6	✓
	04-041.1-2	23:53	8.32	37	700	1.8	0.5	1.04	0.3863	2620±22	✓
	M61.1-7	00:15	9.46	46	500	8.4	0.02	0.08	0.0619	509±37	✓
	04-04K.1-1	00:41	9.25	27	250	0.85	0.81	3.62	0.4185	2605±79	✓
	04-04L.1-1	01:08	9.05	30	420	1.1	0.3	1.22	0.4085	2684±35	✓
	Xenol.1-6	01:29	10.15	37	12000	77	0.15	0.015	0.1596	1002±9	✓
	04-04M.1-1	01:52	8.56	27	590	1.5	0.9	2.37	0.4071	2677±38	✓
	04-04M.2-1	02:16	7.56	19	310	0.80	0.3	1.51	0.4113	2670±47	✓
	M61.1-8	02:36	9.83	43	470	7.6	0	(-)	0.0648	577±37	✓
	04-04N.1-1 Xenol.1-6	02:56	9.59	30	680	1.6	0.6	1.24	0.4375	2628±25	✓
	04-04O.1-1	03:19	8.72	29	830	2.1	0.2	0.277	0.4306	2646±23	✓
	M61.1-10	04:01	9.90	44	460	7.4	0.05	0.125	0.0636	470±59	✓

Insert next
brightness aperture
to clip 'fuzz' on beam.

04-06 OUT
04-04 IN

Should be Xenol.1-6

