

### UWA SHRIMP DATA LOG FOR TITANITE

Date: 15/7/00 UWA Mount No.: A-36 Whose sample?: JD Operator(s): JD/MG

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Indicate any change to the following:

	200	204	bkg	206	207	208	248	254	270
Precambrian Count time (secs):	<u>25</u>	10	10	10/20*	30/10*	105	52	52	52
Phanerozoic* Delay time (secs):	8	3	1	2	1	1	4	2	3

Steel: Wein volts / nA = 150 na for O<sup>-</sup>; = 31 na for O<sub>2</sub><sup>-</sup>; = 120 na for NO<sup>-</sup>

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4838

aperture = 120 microns retardation lens = - volts

Expected offsets (amu): 200-204 = 4.136; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 200-204 = 4.136 204-bkg = 0.045 204-206 = 2.044 1.994

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.3 nA Primary-khan = 3.1 nA PESABM-khan = ..... pA

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: Had a hell of a time getting 204.

- A = WMD-87-5
- B = WMD 61 (dark)
- C = WMD 61 (clear)

Note: file on HD labelled as A-05 - change to A-36

Rejection override	Sample/ Std ID	Time - printout	270/254 UO/UO2	200 cps	206 cps	270 cps	204Pb cps	f <sub>206</sub> %	Measured 206/270	(204 corr) Age±1σ 207/206	Offsets OK?
	<del>Kh.3-5</del> Kh.3-5	18:24	0.902	1714	3120	20.9	0.8	0.36	0.149	569	
	<del>Kh.3-6</del> Kh.3-6	18:45	0.957	1872	2338	16.5	1.6	1.15	0.141	508	✓
	<del>C.1-1</del> C.1-1	19:09	0.889	1562	786	0.8	2.1	3.74	0.942	2604	✓
	C.1-2	19:29	0.963	1735	1125	1.2	3.1	3.69	0.923	2612	✓
	Kh.3-7	19:47	0.961	1955	2237	15.6	1.4	0.91	0.143	578	✓
	C.3-1	20:10	0.979	1953	1368	1.4	5.2	5.2	0.952	2616	✓
	C.4-1	20:31	0.955	1680	987	1.1	2.9	3.99	0.934	2644	✓
	C.5-1	20:51	0.973	1733	1132	1.18	5.7	6.85	0.958	2599	✓

Rejection ~~over-ride~~ Sample/ Std ID Time - printout 270/254 UO/UO2 200 cps 206 cps 270 Kcps 204Pb cps f206 % Measured 206/270 Age±1σ 207/206 Offsets OK?

Rejection <del>over-ride</del>	Sample/ Std ID	Time - printout	270/254 UO/UO2	200 cps	206 cps	270 Kcps	204Pb cps	f206 %	Measured 206/270	Age±1σ 207/206	Offsets OK?
	C.6-1	21:12	0.939	1516	675	0.74	1.3	2.4	0.916	2652	✓
	kh.3-8	21:34	0.936	1901	2618	18.3	0.1	1.1	0.143	472	✓
	C.7-1	21:57	0.935	1537	1370	1.46	2.0	2.0	0.935	2637	✓
	C.8-1	22:16	1.00	2173	1785	1.88	5.6	4.3	0.948	2640	✓
	C.9-1	22:37	0.993	2105	2923	3.16	5.1	2.4	0.926	2604	✓
	C.10-1	22:58	0.949	2370	3719	4.04	5.9	2.1	0.921	2605	✓
	kh.3-9	23:18	0.934	1897	2619	18.6	1.3	0.76	0.306	510	✓
	C.11-1	23:38	0.975	1782	1865	1.99	7.1	5.1	0.939	2634	✓
	C.12-1	23:57	1.068	2214	1849	1.98	6.7	4.9	0.932	2623	✓
	C.13-1	00:18	0.966	1912	2541	2.73	4.6	2.5	0.930	2799	✓
	C.14-1	00:36	1.03	2108	1721	1.82	5.9	4.6	0.947	2630	✓
	kh.3-10	00:54	0.901	1776	2246	15.3	1.6	1.1	0.147	484	✓
	C.14-1	01:15	0.997	2235	1903	2.0	6.1	4.3	0.944	2586	✓
Sample B	b.1-1	01:36	0.958	8.8	2759	4.6	5.8	1.4	0.605	2614	✓
Not Ti. No 200! ?Titanite	b.2-1	01:57	1.11	4.7	1366	178	8.3	0.06	0.769	2606	✓
	b.3-1	02:17	0.965	1497	1081	1.35	2.7	3.4	0.799	2616	✓
	kh.3-11	02:37	0.975	1956	2108	14.9	1.8	1.4	0.142	488	✓
Pop. C-	C.15-1	01:15	0.997	2235	1903	2.0	6.1	4.4	0.944	2586	✓
	C.16-1	02:59	0.944	1671	805	0.87	2.2	3.6	0.925	2635	✓
	C.17-1	03:18	0.926	1423	932	1.03	2.0	2.7	0.909	2663	✓
	C.18-1	03:38	0.936	1528	2045	2.24	5.7	3.8	0.912	2630	✓
	kh.3-12	03:56	0.946	1942	2686	18.9	1.4	0.87	0.142	535	✓
	C.19-1	04:17	0.917	1524	1976	2.1	6.0	4.1	0.943	2611	✓
last seen	unstable C.20-1	04:36	1.62	1416	978	1.11	4.6	6.2	0.883	2642	✓
	C.21-1	04:56	0.964	1526	1532	1.57	8.3	7.4	0.974	2637	✓
	C.22-1	05:19	0.93	1587	1521	1.64	2.7	2.4	0.929	2572	✓

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15-7-00	A-36	JD	

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Indicate any change to the following:

	200	204	bkg	206	207	208	248	254	270
<b>Precambrian</b>	Count time (secs):	5	10	10	10/20*	30/10*	10	5	5
<b>Phanerozoic*</b>	Delay time (secs):	8	3	1	2	1	1	4	2
									3

Steel: Wein volts / nA = ..... for O<sup>2-</sup>; = ..... for O<sub>2</sub><sup>2-</sup>; = ..... for NO<sup>-</sup>

dead-time = ..... nanosecs      expected resolution = >4200      actual resolution = .....

aperture = ..... microns      retardation lens = ..... volts

Expected offsets (amu): 200-204 = 4.136; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 200-204 = .....      204-bkg = .....      204-206 = .....

206-207 = .....      206-208 = .....

Primary-epoxy = ..... nA      Primary-khan = ..... nA      PESABM-khan = ..... pA

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

Comments:

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<del>Rejection</del> override	Sample/ Std ID	Time - printout	270/254 UO/UO2	200 cps	206 cps	270 Kcps	204Pb cps	f <sub>206</sub> %	Measured 206/270	Age±1σ 207/206	Offsets OK?
	kh.3-13	05:38	0.969	1821	2943	21.9	0.9	6.5	0.134	676	✓
	q.1-1	05:58	0.967	2461	1221	1.35	6.6	7.3	0.903	2703	✓
	kh.3-14	06:16	0.922	2008	3485	23.8	1.2	5.4	0.146	479	✓
	q.2-1	06:37	0.855	1949	512	5.21	5.8	15	0.982	2710	✓
	q.3-1	06:56	0.942	2368	807	0.84	6.8	11	0.964	2582	✓
	q.4-1	07:15	0.919	2276	736	743	6.1	11	0.992	2705	✓
	q.5-1	07:33	0.952	2525	1338	316	6.1	6.1	0.936	2659	✓
	kh.2-1	07:52	0.956	2096	2393	16.9	2.0	1.4	0.141	514	✓

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