

### UWA SHRIMP DATA LOG

Date: 22/7/00      UWA Mount No.: A-38      Whose sample?: A650      Operator(s): IF + MG

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Indicate any change to the following: <sup>200</sup>~~196~~ 204    bkg    206    207    208    ~~208~~    248    254    270

**Precambrian**    Count time (secs):    2    10    10    10/20\* 30/18\* 10    ~~10~~    3    3    3  
**Phanerozoic\***    Delay time (secs):    ~~86~~    3    1    2    1    1    ~~1~~    2    2    2

Steel: Wein volts / nA =  $\frac{80}{17}$  for O<sup>-</sup>; =  $\frac{54}{3.0}$  for O<sub>2</sub><sup>-</sup>; =  $\frac{44}{9.6}$  for NO<sup>-</sup>  
 dead-time =  $\frac{32}{100}$  nanosecs      expected resolution = >4200      actual resolution = 5090  
 aperture =  $\frac{100}{0}$  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: <sup>200</sup>~~196~~-204 = 4.136    204-bkg = 0.045    204-206 = 2.000  
 206-207 = 1.000    206-208 = 2.000

Primary-epoxy =  $\frac{2.6}{3.5}$  nA    Primary-CZ3 =  $\frac{3.5}{62}$  nA    PESABM-CZ3 = 62 pA  
 Raster time (mins): 2    Raster aperture (microns): 100    No. of scans: 6

Comments: There are a couple of tiny zircon spots in the data file - discontinued in favour of titanites.

*Nominal masses were incorrect in run table, ∴ output hard copies look strange and Proton files require editing before print. Data are OK.*

Rejection over-ride	Sample/Std ID	Time - printout	UO/UO <sup>200</sup> <del>196</del> / <sup>270</sup> <del>254</del> Kcps	206 cps	<sup>270</sup> UD <sub>2</sub> ppm Kcps	<sup>204</sup> Pb ppm cps	f <sub>206</sub> %	Age ±1σ (Ma)		Offsets OK?	
								206/238	207/206		
	Kh.1-1	12:24	0.945	2.1	3305	23.4	0.9	.44	0.141	502	✓
	Kh.1-2	12:43	0.977	2.2	3629	25.9	1.3	.64	0.140	435	✓
	B.1-1	13:12	0.854	1.7	1362	1.56	0.3	.37	0.874	2595	✓
	B.2-1	13:38	0.876	1.8	871	1.03	0.4	.53	0.845	2604	✓
	B.3-1	14:00	0.863	1.7	632	0.73	0.4	.77	0.874	2609	✓
	B.4-1	14:20	0.896	1.9	686	0.79	0.5	.86	0.873	2624	✓
	Kh.1-3	14:41	0.963	2.2	3344	24.0	1.4	.71	0.139	493	✓
	B.5-1	15:04	0.920	1.8	676	0.80	0.7	1.4	0.842	2587	✓

Rejection over-ride	Sample/ Std ID	Time - printout	200 UO/UD <sub>2</sub> 196 270/254 Kcps		<del>270</del> 206 cps	270 UD <sub>2</sub> ppm Kcps	204Pb ppb cps	f206 %	Age ±1σ (Ma) 206/238 270		Offsets OK?
			206/238	207/206							
	B.6-1	15:25	0.854	1.5	674	0.78	0.3	.48	0.863	2630	✓
	B.7-1	15:46	0.875	1.78	1106	1.28	0.6	-.76	0.863	2595	✓
	B.8-1	16:06	0.877	1.70	628	0.72	0.5	1.2	0.877	2608	✓
	Kh.1-4	16:25	0.966	2.36	3423	24.3	1.1	.57	0.141	446	✓
	B.9-1	16:47	0.884	1.70	777	0.89	0.4	.79	0.867	2601	✓
	B.10-1	17:08	0.871	1.67	968	1.11	0.7	1.01	0.871	2576	✓
	B.11-1	17:30	0.901	1.79	598	0.73	0.6	1.3	0.816	2557	✓
	B.12-1	17:56	0.894	1.74	544	635	0.5	0.29	0.857	2599	✓
	B.13-1	18:17	0.885	1.80	791	923	0.4	0.73	0.856	2634	✓
	Kh.1-5	18:37	0.986	2.26	3334	23.8	1.0	0.52	0.140	489	✓
	B.14-1	18:59	0.853	1.57	532	.611	0.6	1.7	0.871	2549	✓
	B.15-1	19:21	0.879	1.85	627	.729	0.6	1.2	0.861	2602	✓
	B.16-1	19:42	0.865	1.58	671	.784	0.5	-.87	0.856	2610	✓
	B.17-1	20:02	0.862	1.86	1510	1.77	0.5	.54	0.851	2600	✓
	B.18-1	20:22	0.901	1.73	760	.885	0.4	-.75	0.858	2645	✓
	Kh.1-6	20:43	0.970	2.28	3352	24.0	0.9	.46	0.140	506	✓
	B.19-1	21:05	0.849	1.82	1036	.120	0.5	-.71	0.864	2619	✓
	B.20-1	21:28	0.844	1.69	555	.668	0.3	.88	0.831	2642	✓
	<del>B.21-1</del>	<del>21:50</del>	<del>0.844</del>	<del>1.69</del>	<del>555</del>	<del>.668</del>					
	B.21-1	21:50	0.837	1.55	801	.950	0.1	.18	0.844	2662	✓
	B.22-1	22:10	0.865	1.70	797	.927	0.6	.46	0.859	2669	✓
	B.23-1	22:32	0.879	1.82	641	.735	0.5	1.1	0.872	2627	✓
	Kh.1-7	22:53	0.965	2.23	3340	24.1	1.0	0.51	0.139	498	✓
Pop D -	D.1-1	23:15	0.969	2.86	1783	2.10	2.1	1.7	0.849	2645	✓
	D.2-1	23:34	0.949	2.79	3342	4.03	2.5	1.0	0.830	2636	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U <sup>270/234</sup>	<sup>206</sup> Kcps	206 cps	<sup>270</sup> UO <sub>2</sub> ppm Kcps	204Pb ppb cps	f206 %	Age ±1σ (Ma) <sup>206/238</sup> <u>270</u>	207/206	Offsets OK?
	D.3-1	23:54	0.913	2.57	6962	8.46	2.1	0.40	0.823	2662	✓
	D.4-1	00:14	0.973	2.73	1484	1.73	2.1	1.95	0.858	2643	✓
	D.5-1	00:33	0.980	2.74	2870	3.43	2.0	0.95	0.837	2652	✓
	Kh.1-8	00:52	0.961	2.16	3271	23.0	1.2	0.62	0.142	454	✓
	D.6-1	01:12	0.952	2.94	3198	3.79	2.6	1.08	0.845	2641	✓
	D.7-1	01:31	0.959	2.82	3467	4.21	2.5	1.01	0.823	2643	✓
Scan 1	D.8-1	01:52	0.939	2.59	3630	4.33	2.1	0.82	0.838	2643	✓
	D.9-1	02:12	0.954	2.88	1169	1.39	2.9	3.4	0.843	2662	✓
	D.10-1	02:32	0.974	2.96	1219	1.44	2.5	2.8	0.848	2596	✓
	Kh.1-9	02:51	0.963	2.32	3461	24.7	2.5	1.2	0.140	430	✓
	D.11-1	03:12	0.974	2.97	1874	2.18	2.3	1.6	0.861	2628	✓
	D.12-1	03:40	0.866	2.06	1076	1.33	2.1	2.8	0.811	2625	✓
	D.13-1	03:59	0.966	2.93	1859	2.20	2.3	1.7	0.844	2652	✓
	D.14-1	04:19	0.979	2.94	1819	2.11	2.2	1.7	0.862	2642	✓
	D.14-2	04:37	0.951	2.84	2043	2.43	2.4	1.6	0.840	2621	✓
	Kh.1-10	04:57	0.962	2.33	3683	25.9	1.5	0.70	0.142	443	✓
	D.15-1	05:17	0.923	2.81	6572	7.83	2.7	0.56	0.839	2646	✓
	D.16-1	05:35	0.932	2.81	13421	16.1	3.4	0.35	0.835	2673	✓
	D.17-1	05:55	0.971	2.92	2056	2.44	2.4	1.6	0.842	2634	✓
	D.18-1	06:14	0.984	2.94	1509	1.79	2.9	2.6	0.842	2627	✓
	D.19-1	06:34	0.981	2.89	1552	1.81	2.5	2.3	0.856	2614	✓
	Kh.1-11	06:52	0.962	2.36	3681	26.1	1.3	0.57	0.141	500	✓
	D.20-1	07:13	0.959	3.02	3200	3.75	2.7	1.2	0.853	2636	✓
	D.21-1	07:33	0.919	2.64	1610	1.92	1.9	1.7	0.840	2637	✓
	Kh.1-12	07:52	0.953	2.31	3650	25.3	2.6	1.3	0.144	387.9	✓