

TITANITE

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 1/11/98 UWA Mount No.: 98-72 Whose sample?: AGSO Operator(s): McW + AR

Indicate any change to the following: ²⁰⁰196 204 bkg 206 207 208 ²³⁸238 248 254 270

Precambrian Count time (secs): 25 10 10 10 ~~10~~ 30 ~~10~~ 10 5 5 2 5
 Phanerozoic* Delay time (secs): 8 3 1 2 1 1 8 24 2 3

expected ²⁰⁰196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs
 actual ²⁰⁰196-204 = 4.136 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5499

Primary = 2.7 nA PESABM = 76 pA actual Primary : PESABM (= 50:1) = 35.5
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: A = 9796 - 9243 B = " - 9223 C = " - 9212 D = " - 9248
 ①: "errors" on 1°. Reset high volts etc. Recovered 1° 2.3nA. Secondary beam not registering.

Rejection over-ride	Sample/ Std ID	Time - printout	U_{202}/U_{200}	U_{206}/U_{200}	206 cps	U_{270}/U_{200}	270 cps	204Pb cps	f206 %	Age ±1σ (Ma)	Offsets OK?
			270/254	²⁰⁰ 196 cps		ppm Kcps	ppm cps			206/238 206/254	
	kh.8-1	11:53	.873	1610	2873	18.3	0.8	.44	.137	495	OK
	kh.8-2	12:13	.894	1682	2988	18.9	1.2	.65	.141	431	
	A.1-1	12:32	.923	1923	4.6K	4563	5.8	1.70	.930	2673	
	A.2-1	12:50	.913	1858	5.0K	5.0K	2.5	.66	.914	2656	
	kh.8-3	13:09	.894	1612	2913	18.0	0.9	.45	.145	536	OK
	A.3-1	13:35	.896	1749	3179	3497	4.5	1.8	.814	2690	OK
	A.4-1	13:58	.883	1833	3348	3432	2.5	1.4	.853	2608	OK
	A.5-1	14:17	.921	1840	3360	3390	2.2	.87	.913	2648	OK
	kh.8-4	14:36	.891	1597	2888	17.9K	0.7	.36	.144	515	OK
①	A.6-1	15:02	.872	1766	2371	2387	2.0	1.1	.866	2644	OK
	A.8-1	16:46	.941	1789	2615	2659	2.3	1.2	.926	2624	OK

Mount/sample No: UWA 98-72

Date: 1/11/98

Page No: 2 of 3

Rejection over-ride	Sample/ Std ID	Time - printout	UO/W 270/254	²⁰⁰ U Kcps	206 cps	²⁷⁰ U ppm Kcps	204Pb ppb cps	f ²⁰⁶ %	Age ±1σ (Ma) 206/238 206/254	207/206	Offsets OK?
	A8-1	16:27	.939	1352	2897	3.2	2.1	0.95	.840	2650	OK
	Kh8-5	17:06	.902	1526	2725	17K	0.7	0.42	.146	494	OK
	A9-1	17:25	.915	1830	2314	2344	2.7	1.5	.903	2654	OK
	A10-1	17:44	.952	1792	2134	2089	2.5	1.5	.972	2611	OK
	A11-1	18:05	.924	1715	3283	3316	2.3	.93	.915	2645	OK
	A12-1	18:26	.971	1809	1798	1764	1.9	1.4	.991	2706	OK
	Kh8-6	18:45	.906	1528	2712	17K	0.9	.52	.144	515	OK
	A13-1	19:05	.940	1801	2084	2068	2.2	1.4	.946	2660	OK
	A14-1	19:25	.966	1762	3153	3146	2.0	.83	.968	2632	OK
	A15-1	19:45	.955	1722	1631	1597	2.3	1.8	.974	2659	OK
	A16-1	20:05	.931	1890	4787	4733	2.4	.67	.942	2667	OK
	A17-1	20:24	.976	1707	1333	1304	1.9	1.7	.998	2636	OK
	Kh8-7	20:45	.909	1439	2563	15K	0.8	.45	.151	520	OK
	A18-1	21:05	.911	1504	3522	3493	1.9	.71	.919	2651	OK
	A19-1	21:26	.974	1505	1499	1441	2.5	2.2	1.013	2676	OK
	A20-1	21:48	.948	1622	1893	1914	1.8	1.2	.937	2682	OK
	A21-1	22:09	.921	1631	1525	1525	1.9	1.7	.921	2590	OK
	A22-1	22:29	.907	1307	1520	1503	2.1	1.9	.918	2564	OK
	Kh8-8	22:50	.916	1326	2412	15K	0.7	.46	.147	532	OK
	B1-1	23:12	.955	1681	1238	1233	1.5	1.6	.960	2595	OK
	B2-1	23:32	.995	1648	1246	1218	1.2	1.1	1.018	2662	OK
	B3-1	23:53	.976	1622	1107	1107	1.2	1.4	.976	2652	OK
	B4-1	00:20	.959	1301 1533	1533	1597	1.3	1.1	.920	2634	OK
	B5-1	00:41	.978	1664	1815	1808	1.6	1.2	.983	2649	OK
	Kh8-9	1:00	.902	1293	2365	4K	0.7	.52	.150	499	OK

Mount/sample No: UWA 98-72

Date: 1/11/98

Page No: 3 of 3

Rejection over-ride	Sample/ Std ID	Time - printout	UQ/UC Kcps	200 196 Kcps	206 cps	270 U ₂ ppm Kcps & cps	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 206/254	207/206	Offsets OK?
	B6-1	1:22	.961	1570	1273	1249	1.6	1.5	.979	2672	OK
	B7-1	1:42	.971	1523	1926	1914	1.5	1.0	.977	2662	OK
	B8-1	2:01	1.03	1481	1058	1032	1.2	1.4	1.06	2675	OK
	B9-1	2:21	.951	1515	2462	1753	22.6	12.3	1.34	2770	OK
	B10-1	2:40	.960	1530	1802	1829	1.2	.84	.945	2678	OK
	Kh8-10	2:59	.939	1282	2284	14K	0.7	.46	.164	495	OK
	B11-1	3:35	.946	1434	1978	1962	1.8	1.2	.953	2611	OK
	B12-1	4:03	.957	1464	1576	1677	2.9	2.4	.940	2636	OK
	B13-1	4:22	.959	1518	1279	1328	1.0	1.0	.923	2673	-
	B14-1	4:43	.963	1366	1676	1512	4.8	3.9	1.07	2560	OK
	Kh8-11	5:05	.926	1313	2351	14K	0.6	.40	0.164	544	OK
	B15-1	5:26	.927	1428	1256	1248	1.1	1.1	.933	2648	OK
	B16-1	5:46	.956	1395	1334	1342	1.3	1.3	.950	2645	OK
	B17-1	6:08	.957	1509	1522	1520	1.2	1.1	.957	2646	OK
	B18-1	6:28	.960	1425	1275	1272	1.2	1.1	.960	2697	OK
	Kh8-12	6:47	.930	1231	2245	13K	0.7	.46	.154	494	OK
	B19-1	7:09	.945	1463	1360	1398	1.4	1.3	.919	2707	OK
	B20-1	7:29	.972	1383	1237	1269	1.3	1.3	.948	2674	OK
	B21-1	7:51	.941	1348	1486	1542	1.2	1.0	.908	2649	OK
	B22-1	8:18	.932	1311	1287	1318	0.9	.80	.910	2661	OK
	B23-1	8:39	.913	1236	1349	1394	1.2	1.1	0.883	2699	OK
	Kh8-13	8:58	.931	1269	2295	14K	0.6	.41	0.151	532	OK