

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 30/8/96 UWA Mount No.: 96-46 Whose sample?: Pollard Operator(s): IF+AP

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

Precambrian Count time (secs): 2 10 10 10 30/101 10 5 5 2
 Phanerozoic* Delay time (secs): 7 3 1 2 1 1 3 2 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs

actual 196-204 = 8.169 actual 204-bkg = 0.040 → 0.044 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4980

Primary = 3.2 nA PESABM = 53 pA actual Primary : PESABM (= 50:1) = 60

Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: ① moved baseline + .004 amu
 Reduced Kähler lens setting to hold 1m to ~3 nA

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 /cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
196 207	sl 646.1-1	13:59	6.29	21.7	1950	-	1.0	0.08	- 514	204
196 206	1-2	14:17	6.38	21.3	2002	214	-ve	-	589 506	-
196	u 646A.1-1	14:44	6.34	21.8	1478	46	-ve	-	1815 1737	-
196 206 207 208 238 254	A.2-1	15:03	6.56	21.9	1851	54	8.7	0.8	1736 1763	204
196 206 238	sl 1-3	15:22	6.37	22.2	1978	214	-ve	-	563 608	-
204 206 207 238 254	A.3-1	15:40	6.32	22.3	2015	66	8.8	0.7	1716 1733	204
196	A.4-1	15:59	6.43	21.5	1832	58	-ve	-	1743 1748	-
196 207 248	A.5-1	16:18	6.43	19.7	1147	37	0.01	0.01	1791±7 1785±14	204
196 206	A.6-1	16:36	6.34	20.8	1996	67	2.4	0.2	1779 1747	204
196 206	sl 1-4	16:56	6.36	20.5	1897	213	-ve	-	589 595	208
196 204	A.7-1	17:15	6.47	20.8	1456	44	2.1	0.2	1839 1798	204

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
196 254	A.8-1	17:33	6.30	20.6	1083	37	0.3	104	1794	1767	204
SCANS 196 206 207 238 254	A.9-1	17:51	6.48	20.4	2210	86	6.2	0.4	1491	1700	204
196 248 254	A.10-1	18:10	6.29	20.3	1732	65	1.6	0.13	1694	1724	204
206 207	SL 1-5	18:31	6.37	20.1	1897	217	ve	0.03	588	540	208
196 254	A.11-1	18:52	6.22	20.3	1225	42	10.2	1.11	1851	1730	204
—	A.12-1	19:10	6.40	19.7	1610	54	0.3	0.02	1813	1735	204
196	A.13-1	19:30	6.32	19.4	1510	55	ve	—	1790	1754	—
196 248	A.14-1	19:48	6.52	19.7	826	26	2.0	0.36	1814	1698	204
196 206 238 254	SL 1-6	20:07	6.32	19.9	1814	215	ve	—	585	597	—
196	A.15-2	20:27	6.30	18.6	2095	87	1.3	0.08	1659	1694	204
—	A.16-1	20:47	6.29	20.1	1654	57	1.7	0.14	1821	1731	204
196 248	A.17-1	21:06	6.17	19.6	1602	61	1.2	0.10	1820	1746	204
196	A.18-1	21:25	6.36	19.8	1515	51	0.8	0.07	1845	1717	204
196 206	SL 1-7	21:45	6.27	19.9	1803	220	0.1	0.01	584	621	204
196 204 254	A.19-1	22:04	6.41	20.0	1651	56	0.8	0.07	1773	1627	204
196 206 207	A.20-1	22:24	6.29	19.4	1386	48	0.0	0.22	1887	1889	208
196 206 207 248	A.21-1	22:43	6.28	19.8	1315	47	0.5	0.05	1815	1782	204
196 204	A.22-1	23:04	6.27	20.3	1855	66	1.3	0.10	1789	1743	204
196 238 254	A.23-1 SL 1-8	23:21	6.27	22	2058	75	20.6	1.50	1588	1744	204
196 206 254	SL 1-8	23:40	6.29	19.8	1801	220	0.0	0.00	579	601	208
204 206 248	A.24-1	24:05	6.43	20.04	2253	77.4	2.1	0.13	1735	1733	204
196 248 254	A.25-1	24:22	6.35	18.8	928	34	ve	—	1814	1769	204
196 206 207 208	A.26-1	24:50	6.50	19.7	2692	81	2.6	0.14	1913	1781	204
196 206 207 248 254	A.27-1	1:09	6.29	17.1	992	41	0.7	0.09	1810	1752	204
196 206 207 254	SL 1-9	1:28	6.41	19.8	1919	214	1.0	0.09	598	461	204

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 μ cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238 207/206		Corr.
	A										
196	A.28-1	1:48	6.29	20.7	783	26	ve	-	1845	1737	2-
196 248	A.29-1	2:06	6.40	20.2	1426	47	ve	-	1811	1788	2-
196	A.29-2	2:23	6.25	20.3	1532	53	1.3	0.11	1844	1736	204
207 254	A.30-1	2:42	6.52	19.7	1735	87	ve	-	1809	1745	~
196 206 208 254	SL1-10	3:17	6.39	20.3	1960	217	ve	-	590	558	-
B 196	B1-1	3:57	6.26	20.4	946	35	1.6	0.24	1726	1636	204-
196 206 207 208 248	B2-1	4:12	6.49	19.7	1578	50	31.7	2.98	1805	1681	204
254	B3-1	4:36	6.67	19.2	2748	95	56.1	3.24	1577	1628	204-
204 206 238 248 254	B3-2	4:54	7.17	17.9	36K	471	3784	19.4	2747	1502	204
196 206 207 248 254	SL1-11	5:13	6.32	19.6	1743	211	0.6	0.05	584	538	204
196 207 208 254	B4-1	5:35	6.89	20.2	7831	232	267	6.33	1545	1460	204
196 206 208	B5-1	5:54	6.56	21.4	3799	126	102	4.54	1540	1519	204
196 206	B6-1	6:12	6.28	20.4	5312	122	33.9	0.80	2547	2500	204
196	B7-1	6:31	6.51	20.3	4681	138	38.5	1.24	1886	1853	204
196 206 254	SL1-12	6:51	6.24	19.7	1828	224	ve	-	595	597	20-
196 248	B8-1	7:19	6.40	19.9	1194	42	4.0	0.48	1713	1668	204
196 206 248	B9-1	7:38	6.23	20.2	4837	103	0.7	0.02	2817	2700	204
196 206 254	B10-1	7:56	6.29	20.2	3534	128	6.7	0.26	1742	1664	204
196 238 248 254	B11-1	8:16	6.27	20.4	3485	119	48	1.86	1843	1697	204
196 248 254	SL1-13	8:35	6.31	20.1	1890	220	0.5	0.04	592	596	204
A 196	A31-1	8:54	6.31	20.3	1717	60	1.3	0.10	1792	1741	204
196	A32-1	9:11	6.32	20.5	1870	63	ve	-	1817	1778	-
196 206 248 254	SL1-14	9:29	6.33	20.0	1863	220	0.2	0.02	583	548**	204

stds

$2u/u = 2.03535$

$Uo/u = 6.33971$

$Pb^*/u = 0.188675$

$n = 14$

std dev = 1.37%