

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date 16/8/96 UWA Mount No. 96-48 Whose sample? J Smith Operator(s) J Smith

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

Precambrian Count time (secs): 2 10 10 10 ~~30~~ 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 = 8.170 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = actual 206-208 = actual resolution = 5100

Primary = 1.9 nA PESABM = ~~32~~ pA actual Primary : PESABM (≈ 50:1) = 59
 Raster time (mins): 2 and 3 Raster aperture (microns): 100 → 120 No. of scans: 7

Comments: 96-48 C: N4028x Ca pit porphyry 1 → 8 (8 spots)
A: N3188 RWPD 329 1 → 26 (25 spots)
CZ3 - pop 5 is NOT CZ3
B N4357 Whundo dacite 1 → 6 (6 spots)

Th (ppm)	Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196	206	U	204Pb	f ₂₀₆	Age ±1σ (Ma)		Comments
					(K)	cps	ppm	ppb	% (204)	206/238 (208)	207/206 (204)	
12		<u>S/648.4-1</u>	<u>1150</u>	<u>6.58</u>	<u>13</u>	<u>1540</u>	<u>220</u>	<u>1.2</u>	<u>0.10</u>	<u>571</u>	<u>526</u>	<u>None</u>
12		<u>S/648.4-2</u>	<u>1217</u>	<u>6.67</u>	<u>12.5</u>	<u>1537</u>	<u>221</u>	<u>1.2</u>	<u>0.10</u>	<u>566</u>	<u>605</u>	<u>None</u>
250		<u>u648A1.1</u>	<u>1241</u>	<u>7.17</u>	<u>11.5</u>	<u>1128</u>	<u>222</u>	<u>3.5</u>	<u>0.03</u>	—	<u>3018</u>	<u>None</u>
35		<u>u648A2.1</u>	<u>1306</u>	<u>6.51</u>	<u>14.1</u>	<u>2813</u>	<u>65</u>	<u>11</u>	<u>0.40</u>	<u>2761</u>	<u>2982</u>	<u>None</u>
12		<u>S/648.4-3</u>	<u>1328</u>	<u>6.61</u>	<u>12.9</u>	<u>1551</u>	<u>223</u>	<u>1.6</u>	<u>0.13</u>	<u>563</u>	<u>584</u>	<u>None</u>
25		<u>u648A3.1</u>	<u>1351</u>	<u>6.77</u>	<u>12.4</u>	<u>2308</u>	<u>49</u>	<u>1.6</u>	<u>0.07</u>	—	<u>3021</u>	<u>None</u>
<u>Raster 3 mins</u> 38		<u>u648A4.1</u>	<u>1415</u>	<u>6.69</u>	<u>12.7</u>	<u>2481</u>	<u>52</u>	<u>4.4</u>	<u>0.17</u>	—	<u>3016</u>	<u>None</u>
18		<u>u648A5.1</u>	<u>1440</u>	<u>6.77</u>	<u>12.9</u>	<u>1260</u>	<u>26</u>	<u>2.2</u>	<u>0.18</u>	<u>3008</u>	<u>3021</u>	<u>None</u>
12		<u>S/648.4-4</u>	<u>1525</u>	<u>6.81</u>	<u>12.1</u>	<u>1562</u>	<u>219</u>	<u>0.8</u>	<u>0.07</u>	<u>566</u>	<u>573</u>	<u>None</u>
76		<u>u648A6.1</u>	<u>1549</u>	<u>6.74</u>	<u>12.9</u>	<u>3362</u>	<u>70</u>	<u>2.4</u>	<u>0.07</u>	—	<u>3010</u>	<u>None</u>
70		<u>u648A7.1</u>	<u>1612</u>	<u>6.36</u>	<u>13.6</u>	<u>4242</u>	<u>101</u>	<u>5.6</u>	<u>0.12</u>	—	<u>3012</u>	<u>None</u>

Th (ppm)	Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f ₂₀₆ % (204)	Age ±1σ (Ma)		Comments outliers
										206/238 (208)	207/206 (204)	
76		u648A8.1	1635	6.32	14.1	6447	149	5.0	0.07	—	3009	None
37		u648A9.1	1659	6.93	12.9	2757	52	3.3	0.13	—	3022	None
12		u648A4.5	1723	6.73	12.6	1549	216	1.1	0.09	565	601	None
67		u648A10.1	1746	6.77	12.8	5927	123	2.3	0.04	—	3017	None
55		u648A11.1	1808	6.59	14.0	4374	91	4.3	0.10	—	3015	None
—		u648A12.1	Not Zircon									
42		u648A13.1	1842	5.53	12.6	2024	78	4.7	0.12	—	3024	None
54		u648A14.1	1910	6.96	12.2	9040	181	4.9	0.05	—	3015	None
12		u648A4-6	1932	6.61	12.7	1514	221	1.1	0.09	566	570	None
15		u648A15.1	1957	6.82	12.7	1109	23	1.3	0.12	—	3028	u#1
109		u648A16.1	2019	6.82	14.0	8252	185	5.8	0.08	—	2870	None
27		u648A17.1	2042	6.76	12.5	2051	44	2.5	0.12	—	3004	None
104		u648A18.1	2104	6.47	13.0	5926	141	31.6	0.50	2933	2991	None
12		u648A4-7	2127	6.76	12.3	1590	221	2.2	0.19	569	561	None
54		u648A19.1	2150	6.77	12.7	3598	75	4.9	0.14	—	3009	None
31		u648A20.1	2214	6.42	14.0	1479	32	8.1	0.53	—	2994	None
65		u648A21.1	2237	6.73	13.4	5843	124	6.4	0.11	—	2996	None
44		u648A22.1	2300	6.70	12.8	4065	87	4.6	0.11	—	3012	None
12		u648A4-8	2323	6.55	13.3	1607	224	0.2	0.01	578	555	None
50		u648A23.1	2347	6.27	13.8	3936	95	2.8	0.06	—	3019	None
65		u648A24.1	0009	6.41	13.9	5137	115	3.9	0.07	—	3025	None
22		u648A25.1	0032	7.08	12.5	2511	47	4.0	0.18	—	3018	None
26		u648A26.1	0054	6.30	15.0	2908	65	7.2	0.24	2973	3017	None
		u648A27.1										
-7995		u648C.1.1	0123	3.37	4.8	631	-26K	-1753	0.47	—	1131	None

Th
(ppm)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f ₂₀₆ % (204)	Age ±1σ (Ma) 206/238 (208)	207/206 (204)	Comments Outliers
12	sl648.4.9	0149	6.52	13.9	1568	221	2.6	0.23	557	454	None
71	u648C2.1	0216	6.41	13.5	5071	115	3.1	0.05	-	3010	None
56	u648C3.1	0242	6.36	14.6	4918	107	3.4	0.06	-	3016	None
34	u648C4.1	0306	6.58	13.5	2978	73	0.7	0.02	-	2665	None
45	u648C5.1	0330	6.34	13.9	3605	83	3.0	0.07	-	3020	None
12	sl648.4.10	0354	6.68	13.6	1632	215	1.0	0.08	566	642	None
49	u648C6.1	0421	6.56	13.5	1217	77	1.5	0.15	-	1202	None
54	u648C7.1	0448	6.39	14.0	3830	85	14.3	0.35	3050	3016	None
53	u648C8.1	0512	6.50	13.7	4538	99	-0.5	-	-	3020	None 206#1
(u648E1.1)	West 1.1	0535	6.52	13.6	276	30	3.2	1.59	-	416	
13	sl648.2.1	0610	6.31	13.1	1472	235	0.2	0.02	577	590	None
stage vibration started 9	u648B1.1	0643	6.65	13.3	854	17.4	3.9	0.45	3107	3141	None
29	u648B2.1	0710	6.44	13.6	1956	41	3.2	0.15	-	3128	None
40	u648B3.1	0732	6.62	12.5	2107	46	5.5	0.24	-	3121	None
rafter izgul stage vibration 17	u648B4.1	0756	6.53	12.8	1308	28	1.6	0.11	-	3135	None
11	u648B5.1	0819	6.63	13.4	1059	21	-	-	3097	3147	None
12	sl648.2.2	0842	6.62	13.5	1605	222	2.2	0.18	556	583	None
22	u648B6.1	0905	6.86	12.8	1833	35	3.4	0.19	-	3116	None