

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: *15/10/95* UWA Mount No.: *95-32* Whose sample?: *Pollard-Noreen* Operator(s): *McN + McM.*

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
	Delay time (secs):	7	3	1	2	1	1	3	2	2
Phanerozoic	Count time (secs):	2	10	10	10	10	10	5	5	2
	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 = *8.161* actual 204-bkg = *0.040* expected resolution = >4200
 Primary = *2.6* nA PESABM = *55* pA actual resolution = *4775*
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = *47*

Comments:

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/208	Corr.
<i>Restored</i>	<i>std 2-1</i>	<i>10:16</i>	<i>5.93</i>	<i>24.6K</i>	<i>2262</i>	<i>220</i>	<i>5.3</i>	<i>.46</i>	<i>570±1</i>	<i>545±16</i>	<i>208</i>
<i>✓</i>	<i>std 2-2</i>	<i>10:37</i>	<i>5.96</i>	<i>24.8K</i>	<i>2246</i>	<i>220</i>	<i>0.9</i>	<i>.01</i>	<i>572±1</i>	<i>577±15</i>	<i>208</i>
<i>Delete (not scan)</i>	<i>B. 1-1</i>	<i>11:14</i>	<i>7.02</i>	<i>21.9</i>	<i>8.7K</i>	<i>422</i>	<i>76.5</i>	<i>2.33</i>	<i>752±1</i>	<i>1252±17</i>	<i>204</i>
<i>✓</i>	<i>std 2-3</i>	<i>11:38</i>	<i>5.85</i>	<i>24.2</i>	<i>2126</i>	<i>225</i>	<i>0.5</i>	<i>.03</i>	<i>575±1</i>	<i>579±16</i>	<i>208</i>
<i>✓</i>	<i>B. 2-1</i>	<i>12:01</i>	<i>6.97</i>	<i>17.0K</i>	<i>7.0K</i>	<i>863</i>	<i>401</i>	<i>11.24</i>	<i>369±1</i>	<i>1411±43</i>	<i>204</i>
<i>✓</i>	<i>B. 3-1</i>	<i>12:37</i>	<i>6.28</i>	<i>21.2K</i>	<i>8.5K</i>	<i>408</i>	<i>25.9</i>	<i>.55</i>	<i>1092 ±1</i>	<i>1426±9</i>	<i>204</i>
<i>✓</i>	<i>B. 4-1</i>	<i>12:58</i>	<i>6.37</i>	<i>20.3K</i>	<i>21K</i>	<i>557</i>	<i>93.7</i>	<i>.78</i>	<i>1866±2</i>	<i>1609±6</i>	<i>204</i>
<i>✓</i>	<i>std 2-4</i>	<i>13:20</i>	<i>5.87</i>	<i>24.1</i>	<i>2086</i>	<i>217</i>	<i>0.3</i>	<i>.01</i>	<i>580±1</i>	<i>598±16</i>	<i>208</i>
<i>✓</i>	<i>B. 5-1</i>	<i>13:41</i>	<i>6.23</i>	<i>23.5</i>	<i>12K</i>	<i>441</i>	<i>66.1</i>	<i>1.07</i>	<i>1293±1</i>	<i>1420±10</i>	<i>204</i>
<i>✓</i>	<i>B. 6-1</i>	<i>14:02</i>	<i>6.18</i>	<i>23.7</i>	<i>7.6K</i>	<i>226</i>	<i>16.1</i>	<i>.40</i>	<i>1592±2</i>	<i>1523±9</i>	<i>204</i>
<i>✓</i>	<i>B. 7-1</i>	<i>14:24</i>	<i>5.88</i>	<i>24.8</i>	<i>3.4K</i>	<i>165</i>	<i>58.4</i>	<i>2.88</i>	<i>1121±2</i>	<i>1490±28</i>	<i>204</i>

Rejection over-ride Sample/Std ID Time - printout UO/U 196 cps (K) 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Corr.

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
✓	B. 8-1	14:45	7.06	18.3	8.5K	300	18.5	.48	1209±2	1433±9	2084
✓	B. 9-1	15:13	5.99	23.2	16.6K	588	146	1.68	1344±1	1460±11	2084
Delete 1st ThO	std 2-5	15:35	6.05	23.5	2164	215	0.1	.01	564±1	604±15	208
✓	B. 10-1	15:57	6.93	18.4	10.3K	516	27.8	.58	909±1	1204±10	204
✓	B. 11-1	16:20	6.60	19.0	9.3K	480	9.9	.20	984±1	1338±8	204
✓	B. 12-1	16:41	7.48	17.6	22.1K	1040	250	2.84	807±1	1310±12	204
✓	B. 13-1	17:03	7.29	20.2	10.4K	416	26.9	.70	897±1	1214±10	204
✓	B. 14-1	17:24	7.22	16.1K	8.2K	551	38.5	1.01	701±1	931±16	204
✓	std 2-6	17:45	6.06	23.0K	2083	209	1.9	.10	570±1	509±16	208
✓	B. 15-1	18:07	6.57	19.6K	119K	486	20ppm	30.7	572	1760±17	204
✓	B. 16-1	18:28	6.90	22.2K	8.8K	250	8.0	.23	1303±2	1421±7	204
✓	B. 17-1	18:49	7.02	19.2K	6.8K	335	40.0	1.37	848±1	1200±16	204
✓	B. 18-1	19:10	7.98	20.4K	14.1K	899	198	4.86	433±1	1349±19	204
✓	B. 19-1	19:31	6.92	15.0K	48K	2299	497	1.80	1134±1	1274±7	204
Delete 1st scan	std 2-7	19:53	6.10	22.3K	2101	211	-0.4	.03	572±1	557±16	208
	A. 1-1	20:17	5.97	24.4K	3.4K	59	2.9	.13	2713±8	2694±6	204
	A. 2-1	20:38	6.62	20.8K	6.3K	133	2.5	0.07	2013±4	2724±5	204
Not on disc ???	A. 3-1	21:00	6.32	24.96K	4.1K	101	3.6	0.16	1700 169±3	2673±6	204
	A. 4-1	21:23	6.31	25.8K	5.6K	170	68.7	2.4	1358±2	2497±10	204
	A. 5-1	21:46	6.03	23K	2.2K	39	0.1	0.01	2743±11	2725±7	204
✓	std 2-8	22:09	6.01	22.7K	²⁰⁴⁸ 2.0K	215	-0.8	0.04	567±1	577±16	208
	A. 6-1	22:34	6.21	24.4K	3.8K	60	0.2	0.01	2638±7	2705±6	204
	A. 7-1	22:57	6.41	21.8K	7.4K	173	6.8	1.5	1915±3	2726±4	204
	A. 7-2	23:19	5.98	23.3K	5K	92	0.6	0.02	2676±7	2715±5	204
	A. 8-1	23:41	6.23	21.9K	7.2K	182	8.8	0.19	1941±3	2710±4	204
	A. 9-1	00:03	6.05	23.2K	4.2K	75	0.7	0.03	2674±7	2666±6	204

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238 207/206	Corr.
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forgot to
raster !! ✓

	Std 2-9	00:23	6.27	20.3k	1903	191	3	0.9	577±1	602±16	208
	10-1	00:44	6.16	23.4k	6.6k	118	0.9	0.02	2516±5	2672±4	204
	11-1	1:05	6.11	22.7k	5.7k	99	-0.9	-0.02	2713±6	2732±4	
	12-1	1:26	6.01	25.2k	8.6k	207	49	0.9	1969±3	2714±5	204
	13-1	1:47	6.08	22.8k	2.8k	51	1.1	0.6	2687±9	2659±7	204
	14-1	2:08	5.83	23.1k	3.5k	85	3.5	0.13	2313±6	2703±6	204
✓	Std 2-10	2:29	6.20	21.7k	2049	202	-0.1	0.002	572±1	567±16	208
	15-1	2:51	5.72	20.8k	392	9.1	1.0	0.27	2769±25	2738±25	204
	16-1	3:14	5.94	22.4k	1.7k	33	0.1	0.01	2676±11	2664±9	204
	17-1	3:35	6.12	22.4k	5.6k	98	1.0	0.03	2732±6	2703±5	204
	18-1	3:55	6.17	22.4k	4.95k	88	0.4	0.01	2628±6	2657±5	204
	19-1	4:16	6.10	21.6k	8.9k	163	0.4	0.01	2708±5	2738±4	204
	20-1	4:36	6.88	20.3k	6.8k	206	11.3	0.32	1343±2	2719±5	204
✓	Std 2-11	4:58	6.08	21.7k	2095	216	0.0	0.02	578±1	561±16	208
	21-1	5:20	6.14	23.4k	7.6k	127	0.7	0.02	2691±5	2740±4	204
	22-1	5:41	5.95	21.9k	6.1k	120	4.7	0.1	2694±6	2726±5	204
	23-1	6:02	5.96	22.6k	5.9k	114	0.4	0.01	2658±6	2636±4	204
	24-1	6:22	5.96	22.3k	2.4k	46	6.9	0.4	2698±10	2654±9	204
	25-1	6:44	6.09	23.4k	3.4k	64	0.2	0.01	2529±7	2698.6±6	204
✓	Std 2-12	7:06	6.04	22.1k	2082	214	0.1	0.002	582±1	522±16	208
	26-1	7:27	6.17	23.8k	4.4k	69	0.5	0.02	2739±7	2731±5	204
	27-1	7:48	6.13	22.7k	5.0k	65	2.6	0.07	3395±10	3350±4	204
	28-1	8:10	6.28	22.9k	4.3k	83	1.5	0.06	2309±6	2725±5	204
	29-1	8:33	6.22	21.8k	5.0k	90	0.8	0.03	2610±6	2656±5	204
	30-1	8:55	5.93	23.4k	3.9k	87	0.9	0.03	2321±6	2743±6	204

~~Std 2-13~~

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
Delete 1st Th	Sl 2-3	9:17	6.09	22	2048	215	0.2	0.03	570	550	208
	A.34	9:47	6.01	24	5019	96	2.6	0.8	2512	2675	204
	32-1	10:11	6.10	23	6307	111	0.5	0.01	2700	2720	204
	33-1	10:36	6.08	23	3649	66	4.0	0.2	2600	2721	204
	34-1	10:59	5.90	25	5010	93	4.9	0.1	2629	2686	204
	35-1	11:23	6.30	24	5511	136	60.	1.9	1738	2638	204
✓	Sl 2-14	11:59	6.05	22	2011	213	-ue	0.03	567	548	208
	A.36	12:25	6.88	(17)	5741	351	28.	0.8	812	2686	204
	37-1	12:47	6.45	21	6853	297	20.	0.5	1105	2730	204
	38-1	13:12	5.76	24	6133	139	4.4	0.1	2486	2713	204
	39-1	13:36	6.76	21	5640	210	17.	0.6	1149	2655	204
	40-1	13:58	5.92	25	4196	79	5.0	0.2	2576	2630	204
✓	Sl 2-15	14:33	6.13	21	2011	211	0.9	0.02	561	553	208
✓	2-16	15:04	6.05	22	2158	219	1.0	0.04	580	534	208
✓	u C.1-1	15:28	6.30	23	7947	576	5.1	0.1	755	1188	204
✓	C.2-1	16:02	6.15	24	6939	257	3.9	0.1	1371	1494	204
✓	3-1	16:23	6.43	23	4389	136	13.	0.6	1418	1572	204
✓	4-1	16:45	6.05	24	3604	127	0.5	0.02	1475	1509	204
✓	5-1	17:06	5.87	25	4738	192	18.	0.6	1346	1477	204
✓	Sl 2-17	17:29	5.99	23	2148	220	0.4	0.04	572	528	208
✓	C.6-1	17:57	6.43	20	12K	474	11.	0.2	1271	1469	204
✓	7-1	18:12	6.95	21	14K	479	3.9	0.07	1139	1408	204
Delete 1st Th	8-1	18:34	7.26	22	4314	117	4.2	0.3	1177	1556	204
✓	u 532C. 9-1	18:57	6.01	23	7051	250	0.3	0.008	1493	1508	204
✓	10-1	19:22	6.12	24	3764	139	5.9	0.2	1331	1501	204

System check

Irregular. Stage vibrational??

Mount/sample No: 95-32 Date: 16-17/10/95 Page No: 5

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
✓	532.2-18	19:46	5.97	22	2107	220	1.1	0.05	575 566	208
✓	532C.11-1	20:09	6.08	24	5342	182	13.3	0.4	1458 1489	204
✓	C.12-1	20:34	6.18	23	4805	169	1.4	0.05	1397 1514	204
✓	C.13-1	20:57	6.01	24	2641	92	6.1	0.4	1478 1464	204
✓	C.14-1	21:20	6.04	24	5372	183	2.0	0.06	1443 1517	204
✓	C.15-1	21:42	6.45	20	8262	272	6.7	0.1	1471 1523	204
Delete 1st 7.0	532.2-19	22:09	5.97	22	2066	222	0.3	0.02	578 531	208
✓	C.16-1	22:32	6.30	24	5181	169	11.9	0.4	1363 1523	204
✓	C.17-1	22:56	6.09	21	10182	527	14.2	0.2	1.100 1410	204
✓	C.18-1	23:18	7.10	21	8003	277	17.1	0.5	1058 1337	204
✓	C.19-1	23:39	6.50	22	5699	208	8.1	0.3	1203 1482	204
✓	C.19-2	01:18	6.33	20	6522	399	16.8	0.4	894 1298	204
Delete 1st 7.0	532.2-20	00:25	6.03	20	2033	222	1.4	0.04	581 584	208
✓	C.21-1	00:56	5.81	25	2096	80.7	4.4	0.3	1421 1506	204
✓	C.22-1	01:20	5.80	21	3818	179	5.8	0.2	1396 1481	204
✓	C.23-1	01:43	6.62	21	8687	269	3.3	0.08	1387 1481	204
✓	C.24-1	02:07	6.27	24	4673	139	8.2	0.3	1478 1511	204
✓	C.25-1	02:30	6.11	22	17017	623	11.7	0.1	1438 1515	204
✓	532.2-21	02:53	5.92	21	2005	224	1.1	0.01	577 518	208
(change in the file to C.26-1)	C.26-1	03:17	6.61	19	20942	535	6.6	0.05	1813 1579	204
✓	C.27-1	03:40	6.19	21	5729	249	35.6	1.0	1210 1488	204
✓	C.28-1	04:01	6.31	22	8676	292	2.8	0.06	1407 1511	204
✓	C.29-1	04:23	6.58	19	10357	352	12.9	0.2	1414 1479	204
✓	C.30-1	04:45	6.019	20	5997	243	1.1	0.02	1475 1490	204
Delete 1st 7.0	532.2-22	05:09	5.91	21	1999	226	-0.6	0.01	587 566	208

