

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 6/4/97 UWA Mount No. 96-78 Whose sample? Pollard Operator(s) McN + SD

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* 10 5 5 2
 Phanerozoic* Delay time (secs): 18 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 = 8.186 actual 204-bkg = 0.040/sec ① expected resolution = >4200
 actual 206-207 = 1.001 actual 206-208 = 2.001 actual resolution = 4990
 Primary = 3.5 nA PESABM = 49 pA actual Primary : PESABM (≈ 50:1) = 71.4
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: ① adjusted Δ 204-BKG slightly to 0.040 AMU
 Also 1° dropped from 3.5 to 2.9 nA for no apparent reason!

C = YMG-01
 B = MD-2

Rejection over-ride Sample/Std ID Time - printout UO/U 196 Kcps 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 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)	206/238	207/206	Corr.
Restore all												10
① →	sl. 5-1	10:30	6.11	21.5	1729	220	-0.1	.01	572±1	571±19	208	8.5
-	sl. 1-5	10:56	5.93	16.4	1331	236	-1.2	.02	591±1	592±21	208	2.9
-	C. 1-1	11:16	6.20	18.0	2190	107	0.9	.05	1566±4	1517±13	204	2.9
-	C. 2-1	11:35	6.25	16.8	730	4.2	0.5	.08	1434±6	1487±31	204	-
-	sl. 1-6	11:55	5.98	17.6	1437	222	0.7	-0.03	617±1	536±21	208	2.8
-	C. 3-1	12:14	6.47	15.7	4.8K	390	26.8	.66	989±1	1385±15	204	2.9
-	C. 4-1	12:33	7.22	19.4	4.1K	256	4.7	.24	765±1	1236±13	204	-
-	C. 5-1	12:51	6.25	18.4	1679	76.6	-0.3	-	1598±5	1505±13	-	-
-	C. 6-1	13:09	6.30	17.8	3.2K	181	0.1	.004	1330±3	1553±9	204	-
-	sl. 5-2	13:29	5.99	18.5	1510	242	-2.1	0.00	565±1	605±20	208	-
-	C. 6-2	13:48	6.04	19.1	2.7K	144	-0.3	-	1467±3	1534±10	-	-

1° unstable!

Variable Th/U

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238 207/206	Corr.
Rejection	C.7-1	14:06	6.06	20.2	2.99K	292	5.3	.22	797±1 1302±16	204
-	C.8-1	14:29	5.97	18.2	5.1K	337	14.8	.31	1316±2 1430±11	204
-	C.9-1	14:52	5.90	20.4	3.5K	178	2.4	.08	1573±3 1497±10	204
-	sl.5-3	15:11	6.00	21.3	1680	220	-0.3	-	592±1 572±18	-
-	C.10-1	15:30	6.08	22.4	3.0K	148	0.9	0.4	1370±3 1506±11	204
-	C.11-1	15:48	6.02	20.8	2.8K	186	0.6	.03	1126±2 1429±11	204
-	C.12-1	16:07	6.51	21.4	2.9K	120	0.3	-.02	1349±3 1479±13	204
<i>1° dropped stability</i>	C.13-1	16:33	6.54	18.4	3.4K	288	11.1	-.48	791±1 1184±18	204
-	sl.5-4	16:52	6.34	19.9	1749	208	0.7	-.07	584±1 550±25	204
<i>very curved</i>	C.14-1	17:11	6.34	18.5	6.0K	260	11.8	-.25	1603±3 1509±10	204
-	C.14-2	17:29	6.35	16.6	4.6K	315	12.0	.31	1157±2 1329±13	204
-	C.14-3	17:46	6.07	21.8	3.7K	257	3.1	-.11	1028±1 1410±12	204
-	C.15-1	18:05	5.94	21.2	3.5K	186	5.3	-.18	1419±3 1509±11	204
-	C.15-2	18:23	6.43	18.8	3.7K	169	1.4	-.05	1457±3 1521±10	204
-	C.15-3	18:43	7.02	17.0	5.0K	320	11.2	-.37	912±1 1274±13	204
-	sl.5-5	19:03	6.01	20.9	1722	229	-0.2	-	592±1 590±18	-
-	C.16-1	19:23	6.43	20.6	3.8K	151	-0.5	-	1499±3 1509±8	-
-	C.17-1	19:47	6.31	18.3	4.4K	214	6.3	.18	1476±3 1505±10	204
AOK	C.18-1	20:11	6.32	21.8	4.2K	178	1.9	.07	1403±2 1493±9	204
Rejection	C.19-1	20:34	6.71	21.5	5.1K	237	4.0	.15	1109±1 1389±10	204
-	C.20-1	20:55	6.28	21.4	7.2K	295	0.8	-.02	1526±2 1526±7	204
-	C.21-1	21:16	6.64	19.6	5.0K	202	3.9	.13	1419±2 1467±9	204
-	sl.5-6	21:40	6.06	19.1	1527	223	0.0	-	574±1 612±18	-
-	C.22-1	22:08	6.35	19.8	3.5K	180	6.1	.24	1285±2 1481±13	204
-	C.23-1	22:29	6.19	20.1	3.6K	164	1.0	.04	1500±3 1478±10	204

3.2mA

3.3mA

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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) 206/238	207/206	Corr.
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<i>Restore all</i>	C.24-1	22:49	6.43	16.7	6.7 K	337	36 36.0	.66	1473±2	1492±12	204
- -	C.25-1	23:10	6.77	17.6	8.5 K	441	4.3	.08	1191±1	1392±7	204
- -	C.26-1	23:36	6.23	20.4	3.2 K	157	2.4	.10	1362±3	1504±11	204
- -	C.27-1	23:58	6.02	17.5	2.5 K	137	1.2	.05	1550±4	1515±12	204
- -	S/1-7	00:29	6.10	16.8	1330	215	0.7	.06	578±1	571±32	204
- -	C.28-1	00:51	6.34	17.5	1.2 K	71	0.4	-	1283±4	1488±15	-
- -	C.29-1	01:11	6.32	18.5	3.4 K	175	22.6	.87	1361±3	1506±18	204
<i>2° need lots more tuning than normal</i>	- -	C.30-1	01:32	6.86	16.6	4.3 K	219	.49	1229±2	1421±14	204
- -	C.31-1	01:55	6.76	17.2	2.1 K	69	3.6	.25	1838±6	1751±13	204
- -	C.31-2	02:14	6.65	16.9	2.0 K	90	2.6	.18	1466±4	1550±15	204
- -	C.32-3	02:34	6.79	14.2	4.5 K	290	9.7	.27	1170±2	1383±12	204
<i>Deluxe last scan.</i>	S/1-8	02:55	5.87	15.5	1189	234	-0.3	-	586±1	522±21	-
<i>Restore all</i>	B.18-1	03:20	6.33	14.2	2.9 K	194	8.0	.88	1370±3	1491±14	204
- -	B.19-1	03:41	7.18	12.3	4.3 K	318	6.4	.19	1012±1	1279±12	204
- -	B.20-1	04:01	6.85	12.8	3.9 K	205	1.1	.03	1515±3	1518±9	204
- -	B.21-1	04:21	6.82	11.8	3.5	266	1.5	.05	1172±2	1434±12	204
- -	B.22-1	04:41	6.36	11.5	2.8	274	6.8	.20	1150±2	1296±14	204
- -	B.23-1	05:00	6.87	12.6	2.4	165	1.8	.08	1210±3	1457±14	204
- -	S/5-7	05:21	6.08	12.0	1.0	231	0.4	.04	553±1	584±30	204
- -	B.24-1	05:42	7.44	12.1	3.0	260	8.6	.41	803±1	1178±18	204
- -	B.25-1	06:05	6.30	11.8	1.8	145	8.2	.48	1371±4	1512±19	204
- -	B.26-1	06:29	6.42	10.7	1.3	99	7.2	-	1546±5	1496±14	204
- -	B.27-1	06:53	6.52	10.4	2.3	178	2.0	.07	1462±4	1513±14	204
- -	B.28-1	07:12	6.85	9.9	2.2	225	3.6	.15	1035±2	1359±11	204
- -	B.29-1	07:31	7.09	9.3	3.4	254	9.1	.25	1331±3	1393±13	204

NB: Spot too close to others?

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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)		Corr.
									206/238	207/206	

Rejection w/d	S1.6-1	07:52	6.42	12.7	1120	206	0.4	.04	573±1	524±26	204
-"-	B.30-1	8:13	6.52	13.2	2139	137	7.4	.35	1413±4	1522±18	204
-"-	B.31-1	8:32	6.81	11.9	2.6K	148	2.1	.08	1542±4	1520±13	204
-"-	B.32-1	8:51	7.12	11.7	2.9K	169	0.9	.04	1344±3	1484±12	204
-"-	B.32-2	9:09	6.61	12.1	2.9K	190	1.1	.04	1425±3	1461±12	204
-"-	B.33-1	9:27	6.83	13.2	3.5K	176	3.2	.11	1540±3	1506±10	204
-"-	B.34-1	9:45	6.55	13.4	5.0K	252	2.6	.05	1714±3	1589±8	204
-"-	S1.6-2	10:03	6.61	13.5	1302	198	0.8	.01	597±1	525±22	208
-"-	S1.3-1	10:23	5.64	8.5	585	240	7.4	.12	590±1	584±32	208

NB: Half on epoxy!
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 1° dropped ~ 20%.

END

Deleted