

UWA SHRIMP DATA LOG

Date: 3/6/00 UWA Mount No. 99-81 285 Whose sample? April Operator(s) IF + AP

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270

Precambrian Count time (secs): 2 / 10 / 10 / 10/20* 30/10* 10 5 / 5 / 2 /
 Phanerozoic* Delay time (secs): 8 / 3 / 1 / 2 1 1 3 / 2 / 2 /

Steel: Wein volts / nA = 68/7.6 for O⁻; = 44/1.8 for O₂⁻; = 36/2.7 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = ~~4875~~ 4875

aperture = 100 microns retardation lens = 0 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = 8.168 204-bkg = 0.045 204-206 = 1.998

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.2 nA Primary-CZ3 = 3.0 nA PESABM-CZ3 = 52.2 pA

Raster time (mins): 2 Raster aperture (microns): 120 No. of scans: 7

Comments: Sensitivity = 18 Av-count x 3
 81 D = 2455 ± 3.4 Ma. (need ~ 10 good analysis)
 85G = ~ 10 more good analysis?
 85H = all

using Broken Hill
 $n_{\text{std}} = 8$ (exc 985-3-4, 4)
 $\delta(\text{slope } 2) = 0.96\%$
 $\langle \delta(\text{Actual } 1.84) = 0.78\% \rangle$

Insufficient std on 99-81 ∴ supplement with stds from 99-85.

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 Offsets OK?

99-81

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	Offsets OK?
	CZ.3-2	11:25	6.54	16.1	1702	-	0.4	0.04	-	577		✓
	CZ.3-3	11:49	7.03	14.8	1776	202	-ve	-	573 ± 1	581 ± 14		✓
	D.18-1	12:16	5.89	14.2	3723	150	1.7	.03	2500 ± 6	2462 ± 6		✓
	D.19-1	12:46	5.92	16.1	5420	195	4.6	.07	2436 ± 5	2465 ± 5		✓
	D.20-1	13:10	5.31	14.2	2977	173	-ve	-	2526 ± 7	2468 ± 6		✓
	D.21-1	13:33	6.67	16.0	5230	129	1.5	.04	2459 ± 5	2470 ± 5		✓ O.K
	D.22-1	13:56	6.86	16.0	4665	108	11.7	.34	2415 ± 6	2451 ± 6		✓ O.K
	CZ.4-1	14:26	6.71	14.9	1768	223	0.0	-	587 ± 1	551 ± 14		✓

charging?

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	Offsets OK?	
	D.23-1	14:50	2↓	5.69	14.0	6923	313	8.4	.08	2551 ± 5	2442 ± 4	✓
206 → 200 failed. SM ±	D.24-1	15:33	2↓	5.73	13.8	4635	206	4.0	.06	2549 ± 6	2454 ± 5	✓
	D.25-1	15:56		6.47	15.2	4632	129	3.8	.09	2501 ± 6	2462 ± 5	✓ O.K.
	D.26-1	16:19		6.23	16.2	4680	138	-	-	2485 ± 6	2468 ± 5	✓ O.K.
196 + 206 → 200 failed.	D.27-1	16:42	2↓	5.79	13.9	3463	149	2.2	.04	2534 ± 7	2464 ± 6	✓
C2	985.38-1	17:09		6.49	16.4	1777	226	0.1	.006	587 ± 1	571 ± 15	✓
	D.28-1	17:32		6.44	16.5	4735	126	0.9	.02	2462 ± 6	2459 ± 5	✓
	D.29-1	17:59		6.79	14.0	8376	221	8.0	.11	2477 ± 4	2432 ± 4	✓ O.K. ? high U?
charging? ↓	D.30-1	18:29	↓	5.16	13.6	1486	100	0.3	.008	2552 ± 10	2405 ± 9	✓
	D.31-1	18:52		7.06	14.7	3778	85	1.0	.03	2457 ± 7	2473 ± 6	✓ O.K.
	D.32-1	19:14		6.26	16.6	954	27	0.9	.10	2505 ± 13	2454 ± 12	✓ O.K.
	D.33-1	19:38		6.47	15.8	5061	138	2.7	.06	2459 ± 5	2476 ± 5	✓ O.K.
C2	985.38-2	20:01		6.45	16.1	1649	222	-	-	576 ± 1	649 ± 14	✓
	D.34-1	20:31		6.81	15.4	6120	145	-	-	2482 ± 5	2484 ± 4	✓ O.K.
	D.35-1	21:18		7.10	14.8	2260	50	-	-	2460 ± 9	2465 ± 7	✓ O.K.
charging? 196, 206, 208 → 200 failed ↓	D.36-1	21:44	↓	5.31	17.7	4418	221	2.2	.03	2366 ± 5	2425 ± 5	✓ Young.
196, 206 → 200 failed	D.37-1	22:06		6.24	17.7	6649	190	6.2	.11	2359 ± 4	2393 ± 5	✓ discendant
	D.38-1	22:33		6.14	16.6	5570	164	1.2	.02	2472 ± 5	2467 ± 5	✓ O.K.
	D.5-2	23:01		6.11	17.1	5014	151	-	-	2458 ± 5	2459 ± 5	✓ O.K.
C2	985.38-3	23:27		6.34	16.2	1683	233	0.0	-	586 ± 1	588 ± 15	✓
99-85 [H]	H.1-1	23:51		6.04	17.0	6121	187	3.6	.06	2523 ± 5	2470 ± 4	✓ O.K.
196, 206 → 200 failed	H.2-1	24:14		6.32	16.7	3495	87	4.6	.14	2710 ± 8	2642 ± 6	✓ Xeno
	H.3-1	24:36		6.11	16.2	2517	78	6.3	.24	2521 ± 8	2447 ± 8	✓ O.K.
	H.4-1	24:59		6.57	16.6	3753	90	11.7	.38	2523 ± 7	2464 ± 7	✓ O.K.
196, 206 + 207, 238 → 200 failed SM ±	H.5-1	01:22		6.46	18.4	5345	157	6.4	.16	2030 ± 4	2252 ± 6	✓ X

64 + 65A + 65B + no photo.

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A

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	H.6-1	01:49	6.39	16.4	5756 159	159	5.5	.11	2426 ± 5	2439 ± 5	✓
	C2.36-1	02:14	6.42	16.8	1776	230	0.8	.008	581 ± 1	571 ± 15	✓
	H.7-1	02:37	6.51	16.6	2199	55	3.7	.20	2495 ± 9	2476 ± 8	✓
	H.8-1	03:06	6.01	16.8	2817	88	5.0	.16	2538 ± 7	2462 ± 7	✓
	H.9-1	03:28	6.23	16.7	6354	186	4.4	.07	2449 ± 5	2448 ± 4	✓
	H.10-1	03:50	6.30	16.7	1721	47	2.6	.17	2525 ± 10	2461 ± 10	✓
	H.11-1	04:27	6.27	16.9	3214	88	4.1	.14	2526 ± 7	2463 ± 7	✓
	H.12-1	04:49	6.06	16.8	5716	179	3.1	.05	2472 ± 5	2452 ± 5	✓
	C236-2	05:14	6.40	16.8	1718	224	0.1	.01	582 ± 1	570 ± 16	✓
	H.13-1	05:43	6.42	16.0	1395	40	6.4	.48	2505 ± 11	2442 ± 13	✓
	H.14-1	06:05	6.00	17.8	3666	109	0.1	.003	2527 ± 6	2457 ± 5	✓
	H.15-1	06:27	6.29	16.5	1690	46	11.5	.72	2538 ± 10	2464 ± 12	✓
	H.16-1	06:49	6.40	16.0	3780	106	3.2	.09	2437 ± 6	2454 ± 6	✓
	H.17-1	07:11	6.79	15.0	4669	113	6.0	.16	2406 ± 6	2436 ± 6	✓
	H.18-1	07:36	6.55	15.5	1910	55	4.8	.28	2322 ± 8	2469 ± 9	✓
*	C238-4	08:14	6.60	15.4	1408	199	0.9	.09	533 ± 1	562 ± 24	✓
	G.24-1	08:48	6.49	16.0	3768	120	138	.39	2106 ± 5	2381 ± 7	✓
	G.25-1	09:20	6.41	17.3	4635	211	16.7	.46	1493 ± 3	1979 ± 9	✓
	G.26-1	09:43	6.06	17.2	3755	128	3.0	.08	2266 ± 5	2451 ± 6	✓
	G.27-1	10:06	6.67	14.9	3137	94	2.7	.10	2216 ± 6	2465 ± 7	✓

G

196, 206, 207, 238 → no - failed

* tried 1/2 doz stds all gave the same 2° intensity! (1/2! original PESA)

10 conditions are the same!

Think stds conductivity failed! But unks ok.