

Find Kill print-out!

04-1
6b-2 04-2
06b-1

UWA SHRIMP DATA LOG

Date: 13/5/00 UWA Mount No.: 99-82 Whose sample?: April's Operator(s): N McE April

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 = 7.1V/9.0 for O⁻; = 4.8V/2.5 for O₂⁻; = 3.8V/4.6 for NO⁻
 dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4504
 aperture = 70? microns retardation lens = 0 volts sensitivity = 13.98

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 = 8.157 204-bkg = 0.045 204-206 = 1.998
 206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.8 nA Primary-CZ3 = 3.8 nA PESABM-CZ3 = 33 pA
 Raster time (mins): 3 Raster aperture (microns): 120 No. of scans: 7

Comments: Pop B: do 10-15 analysis @ 7 scans & 40 sec 207. (Base on diff zirc. insp.)
 But if data scatters i.e. appears to be sed. origin. red. to 30 sec 207 & 4-5 scans (dep on 1° stability)

NB: 1st std must not be charging we Accel Volt in 2° to check.

Problems with peak shape. Sensitivity down.
 1° became extremely unstable during analysis CZ 6b-1 → adj current a fraction ↓

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?

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.4-1	13:09	7.72	16.8	1675	220	0.3	.03	572 ± 1	554 ± 23		✓
	CZ.4-2	13:39	7.66	15.4	1560	240	0.2	.02	544 ± 1	546 ± 25		✓
	CZ 6b-1	14:15	7.66	15.2	1284	223	0.9	.09	293 ± 1	564 ± 30		✓
	CZ 6b-2	15:03	7.51	17.1	1474	223	0.6	.06	528 ± 1	543 ± 17		✓
	B.1-1	15:32	7.54	17.3	5263	147	1.6	.03	2407 ± 6	2453 ± 5		✓
	B.2-1	15:57	8.14	15.5	5632	128	-ve	-	2402 ± 6	2472 ± 5		✓
	B.3-1	16:22	7.95	14.6	8406	257	3.0	.04	2277 ± 4	2405 ± 4		✓
	B.4-1	16:47	7.81	16.0	6359	178	-ve	-	2371 ± 5	2461 ± 4		✓

1° unstable mid scan ↓ 3.8 nA → discan b27A
 4nA (4)

adj 1°

del last scan

V. Young dis.

2° problem.

Trash above

PESA = 62 pA

Pepoxy = 3 nA

Sensitivity = 12.8 ↓

1° steps down during last 2 scans.

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204 - 206 = 2.0006

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

New set up

1° = 4 nA

2 min raster

3 min raster

del scan 2 ThO

EXC ↓

1° ↓ spiky → Ortec pins
208 → 110 del scan 3

1° spiked.
208 → 110 del scan 7

1° spiked del scan 1 & 2 A
del scan 3
196 → 208
Ortec. rin + fuel.

	CZ 6-1	19:53	6.09	24.0	1638	220	1.1	-0.3	572 ± 1	620 ± 16	8.167 ± 0.045 1.000 1.9995
	CZ 7-1	20:26	6.07	23.2	1556	215	0.3	-0.2	583 ± 1	504 ± 29	✓
	B. 5-1	20:47	6.20	26.8	4749	106	1.0	.03	2497 ± 5	2449 ± 5	✓ young?
	B. 6-1	21:14	5.69	28.8	6145	166	3.2	-0.6	2540 ± 4	2459 ± 5	✓
	B. 7-1	21:39	6.29	23.9	2977	67	0.0	.002	2639 ± 4	2466 ± 4	✓
	CZ 7-2	22:05	5.86	24.5	1574	226	-	-	594 ± 1	554 ± 15	✓
	B. 8-1	22:32	5.95	23.0	5427	157	0.1	.002	2557 ± 4	2458 ± 4	✓
	B. 9-1	23:00	6.34	24.6	5665	122	0.2	.004	2597 ± 5	2460 ± 5	✓
	B. 10-1	23:26	6.49	24.3	4021	83	0.4	.02	2571 ± 6	2454 ± 6	✓
	B. 11-1	24:04	6.09	24.2	6348	159	-ve	-	2585 ± 5	2454 ± 4	✓
	B. 12-1	24:29	6.32	22.8	7360	177	1.9	.03	2553 ± 4	2449 ± 4	✓ young?
	CZ 7-3	24:53	5.83	25.4	1432	223	0.9	.008	545 ± 1	603 ± 17	✗ Too young
	B. 13-1	01:20	6.09	26.6	5432	125	-ve	-	2559 ± 5	2447 ± 4	✓
	B. 14-1	01:44	6.06	25.7	6389	153	0.7	.01	2588 ± 4	2442 ± 4	✓ young?
	B. 15-1	02:08	5.81	27.6	6254	161	-ve	-	2576 ± 4	2440 ± 4	✓
	B. 16-1	02:44	5.89	25.4	6290	168	0.4	.006	2583 ± 4	2464 ± 4	✓
	B. 17-1	03:10	6.38	25.8	4849	98	0.1	.002	2605 ± 5	2465 ± 5	✓
	CZ 7-4	03:34	6.28	22.9	1788	220	-ve	-	592 ± 1	505 ± 14	✓
	B. 18-1	03:58	6.28	24.3	5274	120	0.6	.01	2570 ± 5	2433 ± 5	✓ young.
	B. 19-1	04:27	5.98	25.4	5455	173	-ve	-	2528 ± 5	2481 ± 4	✓ much older.
	B. 20-1	04:57	6.23	26.7	7462	160	1.3	.02	2557 ± 4	2456 ± 4	✓
	B. 21-1	05:21	6.27	24.3	5461	121	0.3	.007	2639 ± 5	2460 ± 5	✓
	B. 22-1	05:50	5.83	27.0	3928	108	0.3	.007	2465 ± 5	2437 ± 6	✓ young
	CZ 7-5	06:17	6.16	24.0	1735	218	0.7	.06	589 ± 1	581 ± 20	✓
	B. 23-1	06:46	6.02	22.2	6329	181	0.2	.004	2582 ± 4	2554 ± 4	✓

6:15 - 7:00

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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 Offsets OK?

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?	
	B.24-1	7:15 6:17	6.17	20.7	5820	185	1.0	.02	2337±4	2443±4	✓	
	B.25-1	7:42	6.06	23.1	3980	112	1.4	.04	2476±5	2424±6	✓	
	B.26-1											
			1° very unstable, adj duc P ↑ 330 → 350									
	Cz.3-1	8:36	5.98	26.1	1671	221	0.8	.07	568±1	521±23	✓	
	Cz.8-1	9:00	6.01	25.6	1646	216	-ve	-	573±1	569±15	✓	

1° spiky
1° v. spiky
alot of 206
cps + fault.
1° ↓ 42 → 3 & nA

dreadful