

99-81 &

11/3/00

99-85

APRIL

McN + AP

	196	204	BKG	206	207	208	238	248	254
Count time	2	10	10	10	40	10	5	5	2
Delay	8	3	1	2	1	1	3	2	2

Deadtime = 32 nsecs.

Resolution 4980

offsets		IDEAL	MEASURED
196-204		8.170	8.169
204-BKG		0.045	0.045
206-207		1.000	1.000
206-208		2.000	1.999

Primary - epoxy 2.5 nA  
zircon

PESABA -

Raster time 1 min  
aperture 120 microns  
no of scans 7

D:  $\bar{A}$  uo/u  $\downarrow$  + some high Pb204

ELF: no datable material

(1)  $\bar{A}$  stds (exc 47-2 uo/u  $\downarrow$ ) incl. 981.1-12, 981.6-7, 985.43-3  
n=14  $\sigma = 1.77\%$  ( $\sigma$  actual 2.02) = 1.77 (use this for 99-81)

(2)  $\bar{A}$  stds (exc 47-2) & exc. 981 stds.  
n=12  $\sigma = 1.25\%$  ( $\sigma$  actual 1.72) = 1.21%

(3)  $\bar{A}$  stds before 981 analysis (ie last std .43-2 & exc 47-2 uo/u  $\downarrow$ )  
n=11  $\sigma = 1.29\%$  ( $\sigma$  actual 1.74) = 1.25%

143 196 cps A 35,000  
 30,000 to  
 UO (std) ~ 12,000

Mount/sample No: 99-85 Date: 11/3/00 Page No: 1

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?
	sl.47-1	11:35	7.11	19.2	1956	220	2.6	.22	571 ± 1	523 ± 24	✓
↓	sl.47-2	11:59	3.36	7.4	277	-ve	196	✓	595 ± 1	595 ± 36	✓
	C.1-1	12:21	7.06	19.2	10.0X	222	2.9	.04	2538 ± 4	2634 ± 3	✓
	sl.47-3	12:45	6.95	19.9	1934	229	1.8	.03	563 ± 1	565 ± 15	✓
	C.2-1	13:10	7.69	16.2	1658	38	0.8	.07	2328 ± 9	2457 ± 9	✓
	A.1-1	13:33	6.20	20.0	5666	175	4.5	.07	2575 ± 5	2637 ± 5	✓
↓	B.1-1	14:06	6.12	17.1	7796	320	0.7	.01	2396 ± 4	2626 ± 4	✓
	B.2-1	14:28	7.05	18.5	3157	70	0.7	.03	2628 ± 8	2635 ± 6	✓
↓	sl.46-1	14:55	6.92	20.2	1908	227	0.5	.002	557 ± 1	565 ± 15	✓
	B.3-1	15:22	5.13	15.3	1096	106	0.4	.01	2203 ± 9	2645 ± 10	✓
	B.4-1	15:43	6.94	19.9	2628	59	0.3	.02	2537 ± 8	2650 ± 9	✓
	B.5-1	16:03	6.90	19.8	3904	86	-ve	-	2617 ± 7	2618 ± 5	✓
	B.6-1	16:23	7.25	18.3	6384	132	4.2	.09	2628 ± 6	2611 ± 4	✓
	B.7-1	16:48	6.81	20.1	2783	64	0.5	.02	2582 ± 8	2633 ± 6	✓
	sl.45-1	17:20	7.02	20.0	1905	218	0.4	.03	562 ± 1	510 ± 17	✓
	B.8-1	17:45	6.63	20.9	4688	113	7.3	.18	2571 ± 6	2627 ± 5	✓
	B.9-1	18:06	6.60	17.5	3813	119	1.4	.03	2429 ± 6	2681 ± 5	✓
↓	B.10-1	18:26	5.66	17.7	2500	150	-ve	-	2118 ± 6	2458 ± 7	✓
	B.11-1	18:47	7.01	19.4	8139	180	7.2	.11	2553 ± 5	2620 ± 4	✓
	B.12-1	19:07	6.55	18.2	8477	237	2.2	.03	2623 ± 5	2612 ± 3	✓
	sl.45-2	19:28	6.88	19.4	1773	225	0.7	.03	553 ± 1	573 ± 15	✓
	B.13-1	19:49	6.95	19.5	2818	64	2.3	.10	2559 ± 8	2689 ± 7	✓
	B.14-1	20:13	7.01	19.3	2614	58	1.6	.08	2557 ± 8	2629 ± 7	✓
↓	B.15-1	20:33	5.92	16.9	8043	375	6.6	.05	2386 ± 4	2592 ± 4	✓
	B.16-1	20:54	6.90	19.9	2047	46	1.2	.08	2577 ± 9	2636 ± 7	✓

i° = 3.5 nA

alot failure, (6)  
 206 → UO (sm. ±)

[C]

i° = 3.3-3.4 nA

alot failure, (7)  
 204, 206 → UO  
 sm. ±

[A]

[B] ditto (6)

ditto A.1-1

ditto 196, 206 → UO  
 sm. ±

ditto 206 → UO

ditto 196, 206 → UO

ditto "

ditto "

ditto 206 → UO

ditto "

ditto 196, 206 → UO

xeno.

xeno.

o.k.

o.k.

o.k.

o.k.

o.k.

o.k.

o.k.

o.k.

o.k.

o.k.



Mount/sample No: 99-85

Date: 11-12/3/00

Page No: 2

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?
	B.17-1	21:16	6.41	18.2	3609	115	-ve	.08	2484 ± 6	2619 ± 7	✓
	sl. 45-3	21:38	6.84	19.7	1894	235	1.2	.01	566 ± 1	549 ± 15	✓
	G.1-1	22:24	5.85	17.2	1818	96	-ve	-	2201 ± 7	2459 ± 8	✓
	G.2-1	22:45	7.57	16.5	2652	61	0.4	.02	3357 ± 7	2466 ± 7	✓
	G.3-1	23:06	6.80	18.4	3942	107	4.3	.13	2418 ± 6	2452 ± 6	✓
	G.4-1	23:27	6.66	23.1	6602	159	3.4	.07	2329 ± 4	2400 ± 4	✓
	G.5-1	23:50	6.82	19.5	5964	173	4.7	.10	2166 ± 4	2347 ± 5	✓
	sl. 44-1	24:12	6.84	19.9	1883	231	0.3	.02	567 ± 1	607 ± 28	✓
	G.6-1	24:33	6.99	19.2	3231	79	0.8	.03	2396 ± 7	2475 ± 6	✓
	G.7-1	24:53	6.32	21.8	5427	229	9.6	.20	1739 ± 3	2057 ± 6	✓
	G.8-1	1:14	6.93	18.4	6590	172	3.2	.06	2390 ± 5	2479 ± 4	✓
	G.9-1	1:35	6.43	19.2	4368	135	1.8	.04	2425 ± 6	2462 ± 5	✓
	G.10-1	1:56	7.62	17.8	7345	167	5.9	.12	2216 ± 4	2361 ± 4	✓
	sl. 42-1	2:21	6.95	19.8	1934	231	0.2	.02	560 ± INF	564 ± INF	✓
	G.11-1	2:42	6.67	20.1	2971	79	1.4	.06	2392 ± 7	2456 ± 6	✓
	G.12-1	3:08	6.87	17.4	4320	123	1.5	.04	2380 ± 6	2455 ± 5	✓
	G.13-1	3:48	5.93	18.3	4503	371	18.6	.33	1346 ± 2	175 ± 9	✓
	G.14-1	4:08	7.17	20.7	6784	222	8.7	.20	1635 ± 2	1991 ± 6	✓
	G.15-1	4:29	6.41	16.6	1693	63	1.8	.09	2351 ± 8	2474 ± 9	✓
	sl. 42-2	4:51	6.97	19.9	1957	231	0.3	.03	559 ± 1	515 ± 23	✓
	G.16-1	5:11	7.04	19.0	7105	198	4.8	.09	2130 ± 4	2329 ± 4	✓
	G.17-1	5:32	7.27	18.2	2723	61	2.6	.13	2456 ± 8	2458 ± 7	✓
	G.18-1	5:52	6.51	20.9	2787	75	4.0	.17	2456 ± 7	2452 ± 7	✓
	G.19-1	6:13	7.25	18.1	5564	147	4.2	.10	2157 ± 4	2356 ± 5	✓
	G.20-1	6:33 2:45	7.45	18.6	7293	164	3.9	.08	2262 ± 4	2383 ± 4	✓

B

G cps appear ok!

10 ↓ 3.2 nA  
3m. grainYuck! alot failures (7)  
v. sm ±, 196, 206-UDalot failures (7)  
sm ± 196, 206-UD

ditto - delscan 1 A

OK?

Yuck ditto (8)  
196, 204, 206-UD

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?
	sl.43-1	6:58	6.88	19.7	1877	229	-ve	.004	566 ± 1	552 ± 15	✓
	G.21-1	7:27	6.57	19.8	3060	83	0.8	.03	2502 ± 7	2483 ± 6	✓
	G.22-1	7:48	6.57	19.5	2087	58	4.1	.21	2455 ± 8	2467 ± 9	✓
	G.23-1	8:16	6.95	19.2	2841	69	7.0	.31	2417 ± 7	2469 ± 8	✓
	sl.43-2	8:41	6.84	19.2	1830	231	1.8	.05	570 ± 1	589 ± 15	✓
	981D.1-1	9:12	7.03	19.9	6707	157	0.2	.005	2372 ± 5	2444 ± 4	✓
	D.2-1	9:35 <del>6:02</del>	6.02	23.4	3874	123	0.8	.02	2378 ± 6	2444 ± 6	✓
	D.3-1	9:57	5.64	17.9	2057	128	1.1	.03	2060 ± 6	2456 ± 7	✓
	D.4-1	10:20	7.10	20.2	6720	166	4.7	.10	2182 ± 4	2405 ± 4	✓
	D.5-1	10:56	6.96	20.3	5044	119	0.3	.008	2383 ± 5	2454 ± 5	✓
	D.6-1	11:19	6.97	20.3	7926	192	0.4	.007	2307 ± 4	2453 ± 4	✓
	D.7-1	11:42	6.81	20.3	3068	77	0.1	.003	2379 ± 7	2455 ± 6	✓
	sl.1-12	12:07	6.78	19.7	1778	237	0.4	.02	542 ± 1	562 ± 15	✓
	D.8-1	12:31	7.22	20.1	5321	112	3.7	.10	2412 ± 5	2458 ± 5	✓
	D.9-1	12:53	7.16	19.4	7736	176	0.3	.006	2380 ± 4	2457 ± 4	✓
	D.10-1	13:16	7.03	19.6	6587	157	4.6	.09	2370 ± 5	2452 ± 5	✓
	D.11-1	13:39	7.18	18.9	6027	141	0.2	.004	2357 ± 5	2454 ± 4	✓
	D.12-1	14:03	6.95	19.4	2107	53	0.7	.04	2360 ± 8	2449 ± 8	✓
	sl.6-7	14:26	7.05	19.3	1917	230	0.6	.05	549 ± 1	522 ± 21	✓
	D.13-1	14:49	6.62	21.0	6388	169	0.6	.01	2382 ± 5	2461 ± 4	✓
	D.14-1	15:12	6.68	21.1	6290	166	2.0	.04	2323 ± 4	2435 ± 4	✓
	D.15-1	15:35	7.13	19.3	7751	184	-ve	-	2333 ± 4	2457 ± 4	✓
	D.16-1	15:58	6.99	20.1	4031	94	0.0	0	2386	2446	✓
	D.17-1	16:21	6.86	19.6	5316	136	-ve	-	2370 ± 5	2451 ± 4	✓
	99-85 sl.43-3	16:42	6.97	19.0	1821	223	0.2	.02	564 ± 1	545 ± 15	✓

YUCK! alot failures (?)  
99-81D. 196, 206-110  
3min raster  
ditto (?) but noisy  
emoss ok

NB spots close together