

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
Zuicon

PESABA —

Raster time 1 min
aperture 120 microns
no of scans 7

Av coat x 3

D: \bar{A} uo/u + some high Pb 704

ELF: no detectable material

(1)

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

(2)

\bar{A} stds (exc 47-2) & exc. 981 stds.

$n=12$ $\sigma = 1.25\%$ ($\sigma < \text{actual } 1.72 = 1.21\%$)

(3) \bar{A} stds before 981 analysis (ie last std 43-2 & exc 47-2 uo/u)

$n=11$ $\sigma = 1.29\%$ ($\sigma < \text{actual } 1.74 = 1.25\%$)

(no print-out)

cpm A ~ 35,000
30,000 to
uc (std) ~ 12,000

Mount/sample No: 99-SS 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 $\pm 1\sigma$ (Ma) 206/238 207/206	Offsets OK?
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99-85

sig. UO/U
exclude

	SI. 47-1	11:35	7.11	19.2	1956	220	2.6	.22	571 \pm 1	533 \pm 24	✓
	SI 47-2	11:59	3.36	7.4	277	196	-ve 196	✓	595 \pm 1	595 \pm 30	✓
	C. 1-1	12:21	7.06	19.2	10.0x	222	2.9	.04	2538 \pm 4	2634 \pm 3	✓
	SI. 47-3	12:45	6.95	19.9	1934	224	1.8	.03	563 \pm 1	565 \pm 15	✓
	C. 2-1	13:10	7.69	16.2	1658	38	0.3	.07	2328 \pm 9	2457 \pm 9	✓
	A. 1-1	13:33	6.20	20.0	5666	175	4.5	.07	2575 \pm 5	2637 \pm 5	✓
	B. 1-1	14:06	6.12	17.1	7796	320	0.7	.01	2396 \pm 4	2626 \pm 4	✓
	B. 2-1	14:24	7.05	18.5	3157	70	0.7	.03	2628 \pm 8	2635 \pm 6	✓
	SI. 46-1	14:55	6.92	20.2	1908	227	0.5	.002	557 \pm 1	565 \pm 15	✓
	B. 3-1	15:22	5.13	15.3	1096	106	0.4	.01	2203 \pm 9	2645 \pm 10	✓
	B. 4-1	15:43	6.94	19.9	2628	59	0.3	.02	2537 \pm 8	2650 \pm 9	✓
	B. 5-1	16:03	6.90	19.3	3104	86	-ve	-	2617 \pm 7	2618 \pm 5	✓
	B. 6-1	16:23	7.25	18.3	6384	132	4.2	.09	2628 \pm 6	2611 \pm 4	✓
	B. 7-1	16:48	6.81	20.1	2783	64	0.5	.02	2582 \pm 8	2633 \pm 6	✓
	SI. 45-1	17:25	7.02	20.0	1905	218	0.4	.03	563 \pm 1	510 \pm 17	✓
	B. 8-1	17:45	6.63	20.4	4688	113	7.3	.18	2571 \pm 6	2627 \pm 5	✓
	B. 9-1	18:06	6.60	17.5	3813	119	1.4	.03	2429 \pm 6	2681 \pm 5	✓
	B. 10-1	18:26	5.66	17.7	2500	150	-ve	-	2115 \pm 6	2458 \pm 7	✓
	B. 11-1	18:47	7.01	19.4	8139	180	7.2	.11	2553 \pm 5	2620 \pm 4	✓
	B. 12-1	19:07	6.55	18.2	8477	237	2.2	.03	2623 \pm 5	2612 \pm 3	✓
	SI. 45-2	19:28	6.88	19.4	1773	225	0.7	.03	553 \pm 1	573 \pm 15	✓
	B. 13-1	19:49	6.95	19.5	2813	64	2.3	.10	2559 \pm 8	2609 \pm 7	✓
	B. 14-1	20:13	7.01	19.3	2614	58	1.6	.08	2571 \pm 8	2629 \pm 7	✓
	B. 15-1	20:33	5.92	16.9	3043	375	6.6	.05	2386 \pm 4	2592 \pm 4	✓
	B. 16-1	20:54	6.90	19.9	2047	46	1.2	.08	2577 \pm 9	2636 \pm 7	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Offsets OK?
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99-85												
	B.17-1	21:16	6.41	18.2	3609	115	-ve	.08	2484 ± 6	2619 ± 7	✓	
	SI. 445-3	21:33	6.34	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	22:48	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	✓	
(7) 00	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	✓	
	SI. 444-1	24:12	6.84	19.9	1886	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	✓	
1A →	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	✓	
	SI. 448-1	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 ± 1	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	6724	222	8.7	.20	1635 ± 2	1991 ± 6	✓	
	G.15-1	4:29	6.41	16.6	1673	63	1.8	.09	2351 ± 8	2474 ± 9	✓	
	SI. 442-2	4:51	6.97	19.9	1857	231	0.3	.08	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	2436 ± 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	7.45	18.6	7293	164	3.9	.08	2262 ± 4	2383 ± 4	✓	

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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?

99-85 (G)

SL-43-1	6:53	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	2453 ± 6	✓
G 22-1	7:48	6.57	19.5	2087	53	4.1	.21	2455 ± 8	2467 ± 9	✓
G 23-1	8:16	6.95	19.2	2841	69	7.0	.31	2417 ± 1	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	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	2132 ± 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	1773	231	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 of failure (7)
-81D.196.206-110
in raster

(7) but noisy
scale

ditto (7)

205 clock higher