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UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
17/9/95	94-22 (galena)	← McN	McN + Yvonne
	94-10 (zircon) (94-10B)	← Savage	

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	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2
~~**Phanerozoic**~~	~~Count time (secs):~~	~~2~~	~~10~~	~~10~~	~~10~~	~~10~~	~~10~~	~~5~~	~~5~~	~~2~~
	~~Delay time (secs):~~	~~7~~	~~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 = 8.165 actual 204-bkg = .040 expected resolution = >4200

Primary = 1.8 nA PESABM = 36 pA actual resolution = 4780

expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 50

Comments:

n = 11 Error % = 2.3892
Calibra^{n} Ave :
Zr/U = 1.99446
UO/U = 6.19615
Pb^{x}/U = 0.190047

Bn = 24
An = 9

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.
94-22 GALENAS	⟹ All results in 94-22 BOX!										
~ 2.30pm											
196, 206, 238, 254 (94-10B)	std 2-1	15:37	6.36	12.1K	1202	220	6.6	.44	570±1	558±22	208
–	std 2-2	16:03	6.32	10.4K	1088	220	3.6	.36	570±1	568±23	208
196, 0, 208, 238, 248, 254	UNK 1-1	16:24	6.35	17.4K	7.1K	147	45.8	.72	2743±6	3274±4	204
196, 0, 238	std 2-3	16:45	6.27	16.6K	1573	200	5.5	.35	583±1	586±19	208
196, 206, 208, 238, 254	UNK 2-1	17:06	6.39	16.4K	9.0K	148	13.3	.16	3426±7	3321±3	204
196, 204, 206, 238, 254	UNK 3-1	17:26	6.05	18.1K	9.4K	233	114.8	1.22	2601±5	3230±4	204
196, 207, 238, 248, 254	std 1-1	17:49	6.11	17.3K	1600	209	5.2	.32	590±1	582±19	208
196, 206, 207, 248, 254	UNK 4-1	18:11	6.29	16.8K	7.5K	132	21.8	.30	3287±7	3319±4	204

Mount/sample No: 94-10B Date: 17/9/95 Page No: 2

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.
0, 238, 254	UNK 5-1	18:37	6.29	18.4K	21.1K	256	191.5	1.1	409±6	3027±3	204
196, 206, 207, 208, 238, 248,	U40.6-1	18:58	6.50	23.1K	8.5K	203	45.4	.4	3129±6	3245±4	204
208, 238	7-1	19:19	5:82	17.9K	5511	117	27.5	.4	3316±8	3322±4	204
196, 204, 206, 238, 254	8-1	19:40	6.26	17.5K	4950	105	351.	7.5	2619±7	3334±10	204
1° drops at last scan 208	S/1-2	20:04	6.01	16K	1453	216	8.7	.53	594±1	614±20	208
196, 206 1° back to usual.	9-1	20:29	6.07	19.2K	8154	154	182.7	2.4	3017±6	3293±5	204
196, 206, 238	10-1	20:51	6.01	17.3K	3711	72.	8.2	.2	3351±10	3315±5	204
206, 207, 208	11-1	21:12	6.14	16.4K	14221	294	41	.3	3157±5	3295±3	204
206, 238, 248, 254	12-1	21:34	6.50	16.8K	9074	137	11.	.14	3451±7	3318±3	204
204, 208 254	13-1	21:55	6.26	16.5K	9406	212	36.5	.4	2792±5	3232±3	204
—	14-1	22.17	6.47	16.2K	14.6K	306	9.6	.07	2771±4	3238±2	204
0, 238, 248 254	S/1-3	22:41	6.15	17.1K	1650	210	6.2	.7	595±1	550±20	208
196, 207, 238 254	S/1-4	23:07	6.16	17.3K	1621	208	7.3	.7	583±1	535±20	208
196, 238, 248, 254	15-1	23:33	6:38	17.3K	8912	152	58.4	.7	3169±6	3294±4	204
196, 206, 207, 208,	16-1	23:55	7.06	15.5K	7737	198	204	3.8	1889±4	2893±8	204
—	17-1	0:17	6.11	19.7K	5360	105	40.5	.8	2879±7	3272±5	204
238, 248, 254 1° stable, with little drop.	18-1	0:39	5.50	12.K	1754	66.1	138	3.7	3296±16	3303±13	204
196, 238	19-1	1:01	6.52	15.4K	8256	204	81.6	1.1	2450±4	3135±5	204
196, 207, 254.	S/1-5	1:26	6.2	17.1K	1601	203	5.1	.7	586±1	611±20	208
196, 0, 206, 207, 238, 248, 254	20-1	1:50	6.23	16.2K	4465	95	12.	.3	3119±8	3276±5	204
207, 238, 248,	7-2	2:12	6.21	16.8K	3190	61	13	.4	3206±10	3310±6	204
196, 206, 207, 208, 248	21-1	2:33	7.4	14.1	15K	1192	36.4	.4	671±03	1919±1	204
207, 208, 238 1° still stable, 254 although cts is low	22-1	2:56	7.11	12.K	6836	156	814	12.7	2334±6	3340±11	204
196, 204, 206, 207, 238, 248, 254	23-1	3:17	6.5	15.1K	3573	69	119.8	3.5	3025±10	3324±9	204
238, 248, 254	S/1-6	3:39	6.18	16.6K	1618	209	7.1	.7	600±1	561±20	208

Mount/sample No: 94-10A Date: 18/9/1995 Page No: 3

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Corr.
–	410A 1-1	4:06	6.64	16.2K	3362	99	60.3	2.1	1902±4	3282±8	204
0, 206, 238	SI 1-7	4:27	6.21	16.2K	1641	209	12.3	.87	611±1	504±20	208
196, 207, 206, 238, 248, 1° stable at the same level	2-1	4:48	6.73	13.2K	14.3K	432	141.5	1.	2168±3	3063±4	204
196, 206, 208, 238, 248, 254, 204,	3-1	5:10	5.98	15.9K	6402	139	86.7	1.1	3342±8	3299±5	204
	4-1	5:31	6.30	18.5K	8838	141	105.3	1.4	3281±7	3291±4	204
196, 206, 207, 238, 248, 254	5-1	5:53	6.33	17.6K	4653	72.7	42.9	1.	3423±10	3295±6	204
196, 254, 1° drops a little	6-1	6:14	5.68	6795	3983	301	1560	13.	2499±9	2710±25	204
0, 206, 207, 238, 254	SI 1-8	6:36	6.19	16.8K	1615	208	7.2	.7	591±1	575±20	208
196	7-1	7:01	6.22	15.8K	6372	129	53.3	.79	3181±8	3278±5	204
196	8-1	7:22	6.22	17.2K	2971	154	38.2	.5	3570±6	3243±4	204
196, 206, 248	9-1	7:43	6.11	16.9K	2743	50.6	12.1	.4	3408±12	3318±6	204

94-10A } have been finished! No more work!
94-10B } no STD left.