

TITANITE

*follows from A-OS ZIRCON*

UWA SHRIMP DATA LOG

Date: 78/4/00 UWA Mount No. A-OS/99-70 Whose sample? Peter VDB/Neal Operator(s) McN + MG.

Indicate any change to the following:	196	204	bkg	206	207	208	248	254	270	
							238	248	254	
Precambrian	Count time (secs):	2	10	10	10/20	30/10	5	82	5/32	2
Phanerozoic*	Delay time (secs):	8	3	1	2	1	1	2/4	2	3

see A-OS ZIRCON

Steel: Wein volts / nA = ..... for O<sup>-</sup>; = ..... for O<sub>2</sub><sup>-</sup>; = ..... for NO<sup>-</sup>  
 dead-time = ..... nanosecs expected resolution = >4200 actual resolution = .....  
 aperture = ..... microns retardation lens = ..... volts  
 Expected offsets (amu): <sup>200</sup>196-204 = <sup>4136</sup>8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000  
 Actual: <sup>200</sup>196-204 = 4.135 204-bkg = 0.045 204-206 = 1.998  
 206-207 = 1.000 206-208 = 2.000  
 Primary-epoxy = 4.8 nA Primary-CZ3 = <sup>khan</sup>6.2 nA PESABM-CZ3 = <sup>khan</sup>0.16 nA  
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: C = tint

To calculate from cps

Rejection over-ride	Sample/ Std ID	Time - printout	UO <sub>2</sub> /U <sub>2</sub>	<sup>200</sup> 196 cps	206 cps	<sup>270</sup> (U <sub>2</sub> ) ppm cps	204Pb ppb	f <sup>206</sup> %	Age ±1σ (Ma)	Offsets OK?	
									206/238 206/270	207/206	
	Khan.9-1	10:27	.934	2790	4655	37.8	7.0	.79	.124	536 ± 26	✓
	Kh.9-2	10:43	.962	2869	4857	38.3	4.3	.49	.127	487 ± 22	✓
	C.1-1	→		not tint	→			> 2000 cps		204 →	
				had some cati @ 200	→			> 10 <sup>6</sup> cts on 206, 207, 208, U, Th etc		⇒ probably monazite !!	
				GO TO ZIRCONS							

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?
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changed → 10 pressure sinking in only large crease in 10 calibration Std. →	High 204	A.24-1	22:31	7.03	26.9	4316	85.5	191	7.7	1993 ± 6	2762 ± 18	✓
	1st scan	A.25-1	22:57	6.28	50.6	3605	57.1	9.8	-63	2002 ± 4	2801 ± 8	✓
mp. crash age reset. → calib. Std. →	1st scan	sl.2-10	23:18	6.38	44.6	3002	203	0.5	-05	558 ± 1	491 ± 24	✓ OK
		sl.2-11	23:47	6.33	44.3	3015	220	0.7	-06	572 ± 1	572 ± 17	✓
	1st 1/2	sl.2-12	00:08	6.31	44.8	2930	216	0.7	-06	565 ± 1	531 ± 19	✓
		A.26-1	00:25	6.14	52.6	5531	63.0	2.8	-11	2837 ± 6	2819 ± 5	✓
		sl.2-13	01:29	6.36	36.8	2551	226	1.3	-11	572 ± 1	484 ± 22	✓
		sl.2-14	01:53	6.16	36.2	2191	226	0.0	-	539 ± 1	582 ± 15	✓
		A.27-1	02:17	6.07	40.0	3830	71	5.5	-02	<sup>433</sup> <del>2813</del> ± 6	<sup>813</sup> <del>2698</del> ± 6	✓
		sl.2-15	02:38	6.81	36.1	2782	197	0.6	-06	576 ± 1	564 ± 22	✓
Population B →		B.1-1	03:15	7.27	34.5	3707	38	14	-91	2845 ± 8	2773 ± 8	✓
tried 6 more runs. all have high at		sl.6-3	04:21	6.61	35.4	2412	204	0.6	-06	239 ± 1	293 ± 20	✓ x
		70A.1-1	04:42	6.39	36.3	2939	44.9	0.5	-03	2707 ± 8	2652 ± 8	✓
count 19-70		70A.2-1	05:02	3.84	15.6	224	269	17	-53	1178 ± 7	950 ± 117	✓
	Low U	70A.3-1	05:24	6.37	34.3	244	8.3	0.1	<del>-07</del>	1450 ±	1473	✓
		sl.6-4	05:43	7.05	30.2	2576	201	0.5	-05	566 ± 1	562 ± 20	✓
		70A.4-1	06:02	7.19	31.3	1625	51.9	0.8	-12	1198 ± 3	1188 ± 21	✓
non- lin.		70A.5-1	06:20	6.26	30.3	1332	53.2	2.0	-24	1466 ± 4	1485 ± 21	✓
Scan!		70A.6-1	06:39	7.13	31.0	2622	64.6	-ve	-	1563 ± 4	1462 ± 10	✓
		sl.6-5	06:58	6.99	31.0	2524	196	0.2	-02	568 ± 1	610 ± 13	✓
		70A.7-1	07:18	4.74	21.5	305	77	4.1	-53	983 ± 4	968 ± 82	✓
		70A.8-1	07:38	5.99	39.6	1084	36	1.0	-16	1557 ± 5	1500 ± 22	✓
		70A.9-1	07:57	3.95	17.5	699	228	0.3	-01	2614	2627	✓
		sl.6-6	08:17	6.85	32.1	2487	205	0.2	-02	550 ± 1	583 ± 18	✓