

TITANITE

UWA SHRIMP DATA LOG

Date ⁰⁰ 18/11/99 UWA Mount No. 99-24 Whose sample? AGSO Operator(s) MeN + AR

Indicate any change to the following: ²⁰⁰ 196 204 bkg 206 207 208 ~~238~~ 248 254 270

Precambrian Count time (secs): 2 10 10 10 ~~30~~ 10 5 5 2 2
~~Phanerozoic~~ Delay time (secs): 8 3 1 2 1 1 1 4 2 3

Steel: Wein volts / nA = 66V/9.4 for O⁻; = 44V/0.9 for O₂⁻; = 35V/2.2 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4774

aperture = ? microns retardation lens = 0 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 = 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: ²⁰⁰ 196-204 = 4.138 204-bkg = 0.045 204-206 = 2.002

206-207 = 1.0005 206-208 = 2.001

Primary-epoxy = 1.8 nA Primary-Khan 2.5 nA PESABM-CZ3 = Khan 96 pA

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: NB: using Khan std in 99-71*!! → all Khan on 99-24 used up!!
 Unknowns on 99-24

calculate

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO ²⁰⁰ 196 cps	206 cps	UO ₂ ²⁰⁰ cps	204Pb ²⁰⁰ cps	f ₂₀₆ %	Age ±1σ (Ma) 206/238 270	207/206	Offsets OK?
	Kh. 4-1 *	11:33	.675 3696	1195	13.9	0.5	.53	.0859	523±?	✓
	Kh. 4-2	11:53	.678 3655	1162	14.0	0.3	.25	.0829	635±?	✓
	E. 5-1	12:12	.675 3633	874	1605	0.6	.79	.545	2633	✓
	E. 5-2	12:31	.702 4004	1254	2323	0.9	.83	.540	2620	✓
	Kh. 4-3	12:50	.690 3706	1179	13.3	0.5	.47	.0889	515	✓
	E. 5-3	13:08	.684 3783	1211	2163	0.8	.81	.560	2649	✓
	E. 5-4	13:25	.678 3747	1176	2180	0.7	.64	.540	2663	✓
	E. 6-1	13:46	.688 3764	887	1607	1.0	1.2	.552	2625	✓

USING NO⁻ BEAM

mislabeled "SI"

99-24

Mount/sample No: ~~1010199~~

Date: ~~18/1/2000~~

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Rejection over-ride	Sample/ Std ID	Time - printout	U ²³⁵ /U ²³⁸ cps	206 cps	U ²³⁵ cps	204Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma)	Offsets OK?		
								206/238 270			
	Kh.4-4	14:06	.672	3494	1138	13.5	0.4	.37	.0842	568	✓
	E.6-2	14:25	.694	3663	881	365	1.1	1.5	.545	2646	✓
	E.7-1	14:43	.686	3871	1149	2105	0.8	.87	.546	2623	✓
	E.7-2	15:00	.705	3933	1238	2249	1.2	1.3	.550	2613	✓
	E.8-1	15:20	.708	3566	1746	3300	0.8	.54	.529	2613	✓
	Kh.4-5	15:39	.670	3228	1047	12.8	0.8	1.1	.0816	503	✓
	E.8-2	15:57	.713	3756	1309	2431	0.8	.74	.538	2639	✓
	E.9-1	16:15	.713	3795	1354	2370	1.3	1.3	.571	2617	✓
	E.9-2	16:32	.690	3316	798	1479	1.0	1.3	.540	2658 268	✓
	E.10-1	16:50	.713	3849	1741	3108	0.6	.41	.560	2647	✓
	Kh.4-6	17:11	.677	3355	1064	12.8	0.5	.71	.0829	467	✓
	E.10-2	17:30	.693	3829	1272	2454	0.8	.84	.518	2643	✓
	E.10-3	17:47	.674	3549	1140	2206	0.7	.75	.517	2658	✓
	E.11-1	18:05	.685	3745	1039	1894	0.9	1.1	.549	2635	✓
	E.11-2	18:22	.673	3672	865	1567	0.9	1.1	.552	2608	✓
	Kh.4-7	18:41	.655	3594	1097	130	0.5	.64	.0846	438	✓
	E.12-1	19:00	.700	3522	1634	2861	2.6	2.1	.571	2628	✓
	E.12-2	19:17	.681	3530	1004	1855	0.9	1.1	.541	2653	✓
	E.12-3	19:34	.708	3065	1634	1921	1.1	1.4	.538	2613	✓
	E.13-1	19:52	.690	3832	1268	2458	0.8	.78	.516	2633	✓
	Kh.4-8	20:10	.667	3220	999	12.5	0.4	.49	.0802	522	✓
	E.13-2	20:29	.690	3555	1344	2541	0.8	.78	.529	2632	✓
	E.13-3	20:47	.697	3384	1338	2416	0.7	.68	.554	2628	✓
	E.14-1	21:05	.675	2787	885	1722	0.8	1.3	.502	2603	✓
	E.15-1	21:23	.697	3285	2182	4018	0.7	.32	.543	2638	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	U ₂ /U ₀ ²⁰⁰ 196 cps	-206 cps	U ₂ ppm	²⁰⁴ Pb ppt	f ₂₀₆ %	Age ±1σ (Ma) ^{206/238} 270 ^{207/206}	Offsets OK?
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	Kh4-9	21:42	.669	3255	1004	11.5	0.3	.40	.0876	548	✓
	E.15-2	22:01	.689	3513	1152	2162	1.9	2.1	.533	2661	✓
	E.15-3	22:18	.709	3555	908	1628	1.1	1.5	.558	2620	✓
	E16-1	22:35	.701	3544	946	1753	0.8	.95	.540	2649	✓

ON TO MOUNT UUA 99-71