

871  
732  
139

Follows from 99-22

TNT UWA SHRIMP DATA LOG

Date: 28/11/99 UWA Mount No.: 99-20 Whose sample?: Bucci Operator(s): AR

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

Precambrian Count time (secs): 2 10 10 10/20\* ~~30/10~~ 10 ~~5~~ 5 2 2  
 Phanerozoic\* Delay time (secs): 8 3 1 2 1 1 ~~3~~ 24 2 3

Steel: Wein volts / nA = 900/14.0 for O<sup>-</sup>; = 570/2.4 for O<sub>2</sub><sup>-</sup>; = 460/8.7 for NO<sup>-</sup>

dead-time = ..... nanosecs expected resolution = >4200 actual resolution = 4678

aperture = ..... microns retardation lens = ..... 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: 196-204 = 4.139 204-bkg = 0.045 204-206 = 1.998  
 206-207 = 1.000 206-208 = 2.000

Primary-epoxy = ..... nA Primary-CZ3 = ..... nA PESABM-CZ3 = ..... pA

Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 6

Comments: Gradual drop off in all analysis because titanites + NO<sup>-</sup> peak.

custom slope = 1.50 → 1.7107, 14 of 15;

Rejection over-ride	Sample/ Std ID	Time - printout	UO <sub>2</sub> /UO (270/254) *cps	196 *cps	206 cps	270 UO <sub>2</sub> ppm cps	204Pb ppb cps	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 206/270	207/206	Offsets OK?
	kh.3-1	13:47	.834	3031	3101	22.5	1.5	.69	.138	452	✓
	kh.3-2	14:17	.799	2901	3229	23.9	1.5	.70	.135	485	✓
12x UO <sub>2</sub> UO <sub>2</sub>	B.7-1	14:36	.746	3828	884	1144	1.9	2.7	.772	2686	✓
	kh.3-3	14:54	.818	3134	3378	24.3	1.4	.60	.139	458	✓
12x UO <sub>2</sub> ThO	B.8-1	15:15	.767	4713	2163	2699	2.4	2.1	.801	2640	✓
	B.9-1	15:36	.781	4137	1262	1603	3.0	3.1	.787	2574	✓
①	B.10-1	16:02	.579	2991	486	599	2.8	7.7	.811	2484	✓
	kh.3-4	16:22	.799	3074	3436	25.1	1.4	.64	.137	486	✓

① Very odd analysis as this spot was showing the same value on meter B as B9-1 did when sitting on the UO<sub>2</sub> peak. (Same scale + No change in 1!")

Rejection over-ride	Sample/ Std ID	Time - printout	U <sub>2</sub> /U <sub>1</sub> ( <sup>270/254</sup> ) Kcps	196 cps	206 cps	270 U <sub>2</sub> ppm cps	204 Pb ppb cps	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 206/270	207/206	Offsets OK?
	B.11-1	16:47	.766	3581	3046	3759	3.4	1.5	.816	2634	✓
	B.12-1	17:08	.796	3832	1939	2546	2.4	1.5	.762	2663	✓
	B.13-1	17:35	.777	3604	1556	1923	2.2	1.8	.809	2606	✓
	Kh.3-5	17:53	.785	2978	3452	24.1	1.1	.48	.143	523	✓
	B.14-1	18:14	.768	3434	1429	1788	1.8	1.6	.799	2671	✓
	B.15-1	18:33	.719	2737	1098	1363	2.2	2.7	.806	2719	✓
	B.16-1	18:53	.776	3221	1891	2456	2.3	1.6	.770	2622	✓
	Kh.3-6	19:12	.770	3120	3539	254	1.3	.54	.139	474	✓
①	B.17-1	19:37	.788	3980	1751	2329	2.8	2.1	.752	2634	✓
	B.18-1	20:04	.780	2933	2792	3578	2.2	1.0	.772	2624	✓
②	B.19-1	20:38	.766	3921	1824	2256	3.3	2.4	.808	2621	✓
③	Kh.3-7	20:59	.781	2618	3154	23.2	1.1	.54	.135	501	✓
	B.20-1	21:24	.783	3013	1535	1979	2.5	2.06	.776	2672	✓
	B.21-1	21:42	.768	2868	1731	2192	1.8	1.3	.790	2616	✓
	B.22-1	22:01	.749	2717	2175	2896	3.2	2.0	.751	2662	✓
	Kh.3-8	22:20	.777	2586	2990	21.9	1.0	.46	.137	539	✓
	B.24-1	22:42	.797	3637	1915	3423	4.6	3.3	.774	2647	✓
	B.23-1	23:01	.710	2559	1591	2029	3.3	2.7	.784	2649	✓
	B.25-1	23:28	.808	3718	1845	2304	2.1	1.5	.801	2622	✓
	Kh.3-9	23:46	.816	3126	3403	25.4	1.3	.59	.134	452	✓
④	B.26-1	1:09	.666	542	246	357	0.6	2.8	.801	2678	✓
	Kh.3-10	1:28	.784	2692	2904	21.8	1.7	.86	.133	505	✓
	B.27-1	1:56	.721	2946	491	581	1.7	4.3	.845	2607	✓
	B.28-1	2:16	.733	2086	1488	2044	1.7	1.4	.728	2685	✓
	B.28-2	2:36	.698	1523	2534	3626	1.8	.92	.699	2642	✓

①. Minor drop in I<sup>o</sup> to 9.7 nA ②. Rapid drop in I<sup>o</sup> to 8.5 nA. Until B17-1, I<sup>o</sup> was at > 10 nA at the start of an analysis. ③. Back to 9.7 nA start on analysis ④. Low U grain, but had spent 40 minutes hunting around (including old 2U grains) with no luck. Must be some problem with the 2<sup>o</sup> beam magnet?/coll. positions? because of low count rates. This would also explain so many "low U" grains when using the ratemeter. - No checked old holes, still getting ↑ UO<sub>2</sub> counts  
 Kh.3-10 seems normal. Others too close to the rim?

Low ratemeter. Just lots of low U grains.

Rejection over-ride	Sample/ Std ID	Time - printout	UQ/UO 200/254 Kcps	196 Kcps	206 cps	270 UO <sub>2</sub> ppm cps	204Pb ppb cps	f206 %	Age ±1σ (Ma) 206/238 270	207/206	Offsets OK?
	<b>KH1-1</b>	<b>2:56</b>	<b>.799</b>	<b>2405</b>	<b>2954</b>	<b>21.9</b>	<b>1.3</b>	<b>-63</b>	<b>.135</b>	<b>465</b>	✓
	<i>(2<sup>nd</sup> scan)</i> D.5-1	3:14	.894	3660	867	1100	4.3	6.8	.788	2586	✓
	D.6-1	3:33	.736	3577	1058	1301	4.4	5.6	.813	2628	✓
	D.7-1	3:52	.790	3321	848	1059	3.6	5.7	.802	2645	✓
	<b>KH1-2</b>	<b>4:11</b>	<b>.773</b>	<b>2648</b>	<b>3291</b>	<b>24.2</b>	<b>3.1</b>	<b>1.5</b> <del>2.1</del>	<b>.155</b>	<b>288</b>	✓
	<i>Scan 5, 1st 210</i> D.8-1	4:32	.821	4204	906	1422	4.4	6.0	.637	3089	✓
	<i>1st scan</i> D.9-1	4:51	.718	4776	2671	3434	9.0	4.6	.778	2609	✓
	D.10-1	5:14	.784	4926	1122	1467	4.1	4.9	.765	2669	✓
	D.11-1	5:36	.732	4141	1792	2250	6.9	5.2	.797	2656	✓
	<b>KH1-3</b>	<b>5:55</b>	<b>.766</b>	<b>2921</b> <del>3267</del>	<b>3267</b>	<b>240</b>	<b>1.5</b>	<b>.71</b>	<b>.136</b>	<b>465</b>	✓
	A.4-2	6:17	.799	3595	3821	4653	3.8	1.3	.821	2612	✓
	A.4-3	6:36	.811	3748	3907	4870	4.5	1.5	.803	2616	✓
	A.17-1	6:59	.813	3435	3410	4193	5.9	2.3	.813	2615	✓
	A.18-1	7:18	.788	3746	3852	4136	6.0	2.4	.786	2627	✓
	<b>KH1-4</b>	<b>7:36</b>	<b>.808</b>	<b>3261</b>	<b>3385</b>	<b>25.6</b>	<b>1.4</b>	<b>-58</b>	<b>.132</b>	<b>490</b>	✓
	A.19-1	7:56	.798	3162	2725	3216	5.1	2.5	.835	2623	✓
	A.20-1	8:14	.837	4136	3555	4493	5.2	1.9	.791	2603	✓
	A.21-1	8:37	.839	3946	3645	4517	3.9	1.4	.807	2610	✓
	A.22-1	8:55	.810	3783	3690	4581	4.8	1.7	.806	2613	✓
	<b>KH1-5</b>	<b>9:31</b>	<b>.771</b>	<b>3332</b>	<b>3375</b>	<b>25.3</b>	<b>1.2</b>	<b>.60</b>	<b>.133</b>	<b>532</b>	✓
	<b>← A.23-1</b>	<b>9:34</b>	<b>.774</b>	<b>3162</b>	<b>3266</b>	<b>3901</b>	<b>4.5</b>	<b>1.8</b>	<b>.837</b>	<b>2596</b>	✓

Photo Gp 65 missing.