

UWA SHRIMP DATA LOG FOR TITANITE

Date: **24/7/04** UWA Mount No.: **04-79** Whose sample?: **DV** Operator(s): **McN + DV**

Indicate any change to the following: ¹⁹⁶200 204 bkg 206 207 208 ²³⁸248 ²⁴⁸254 ²⁵⁴270

Precambrian Count time (secs): **52** 10 10 10/20 30/10 10 5 5/2 5/2
 Phanerozoic* Delay time (secs): **8** 3 1 **24** **12** 1 **A3** 2 **82**

Steel: Wein volts / nA = **—** for O⁻; = **-3953/2.15** for O₂⁻; = **—** for NO⁻

dead-time = **25** nanosecs expected resolution = >4200 actual resolution = **5404**

aperture = **?** microns retardation lens = **0** volts

Expected offsets (amu): ¹⁹⁶200-204 = **8.161**; 204-bkg = 0.045; 204-206 = 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: ¹⁹⁶200-204 = **8.161** 204-bkg = **0.045** 204-206 = **~2.010**

206-207 = **1.005** 206-208 = **2.008**

Primary-epoxy = **1.85** nA Primary-khan = **2.7** nA PESABM-khan = **100** pA

Raster time (mins): **2:0** Raster aperture (microns): **110** No. of scans: **6**

Comments:

Rejection over-ride	Sample/ Std ID	Time - printout	^{254/238} 270/254 ¹⁹⁶ 200 UO/UO ₂ cps Kgs	206 k cps	^U 270 cps ppm	204Pb cps	f206 %	Measured 206/270 ²³⁸	Age ± 1σ 207/206	Offsets OK?	
	C2.1-1	10:27	5.82	17	2000	550	1.2	.04	564 ± 4	545 ± 35	✓
	C2.1-2	10:44	5.98	16	2000	544	2.9	.11	559 ± 5	552 ± 33	✓
	A.1-1	—	hi	204	→	aborted	—	—	—	—	
	A.2-2	11:10	5.77	17	710	34	1.4	.15	266 ± 4	268 ± 19	✓
	A.3-1	11:27	5.84	17	3.5K	193	-1.9	—	2372 ± 29	2415 ± 8	✓
	C2.1-3	11:44	5.65	17	19.8K	528	2	0.1	559 ± 4	540 ± 30	✓
	A4-1	12:05	6.13	17	89	421	66	1.1	2188 ± 13	2383 ± 14	✓
	A5-1	12:20	6.17	16	31	188	7	0.16	2054 ± 18	2307 ± 45	✓

6 scan scans

5 scans

8.161
0.045

Mount/sample No: Date: Page No:

Rejection over-ride	Sample/ Std ID	Time - printout	254/238 UO/U	196 Kcps	206 cps	U ppm	204Pb ppb cps	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	A6-1	12:37	6.39	15	44	408	11	0.4	1430±9	2324±11	✓
	A7-1	12:53	6.09	16	46	322	6	0.09	1906±14	2389±8	✓
	A8-1	13:09	6.84	17	44	468	3	0.12	1080±21	2289±14	✓
	CZ3-1	13:25	5.7	17	20	542	3	0.09	567±6	586±34	✓
	A9-1	13:41	6.8	16	69	515	30	0.8	1501±12	2347±10	✓
	A10-1	13:58	5.62	18	44	237	3	0.02	2340±24	2400±7	✓
	A11-1	14:13	6.4	17	50	371	2	0.02	1519±11	2488±7	✓
	A12-1	14:29	5.9	17	39	290	2	0.06	1717±13	2298±12	✓
	A13-1	15:13	6.1	17	37	235	12	0.4	1888±18	2463±12	✓
	A14-1	15:28	6.4	17	41	205	12	0.5	1785±18	2447±10	✓
	CZ3-2-1	15:44	5.73	17	21	522	2	0.05	570±5	591±36	✓
	A15-1	16:00	5.73	17	19	89	3	0.06	2698±29	2769±12	✓
	A16-1	16:20	5.73	19	51	287	4	0.13	2068±15	2499±8	✓
one grain	A17-1	16:42	5.71	17	33	229	3	0.2	1886±14	2306±17	✓
	A18-1	16:57	5.77	17	39	238	5	0.05	2122±17	2320±9	✓
	A19-1	17:12	6.66	12	32	413	13	0.6	1299±5	2252±18	✓
	A20-1	17:38	6.28	18	41	600	15	9.9	801±6	2340±12	✓
	A21-1	17:55	5.75	17	13	75	4	0.2	2297±33	2280±23	✓
	A21-2	18:09	5.66	18	15	84	3	0.03	2262±28	2337±12	✓
	A21-3	18:24	5.79	17	15	86	0	0.1	2262±25	2311±15	✓
	A21-4	18:39	5.58	17	13	70	5	0.15	2421±29	2330±18	✓
	CZ3.2-2	18:54	5.87	16	21	558	2	0.09	562±7	534±40	✓
	CZ3.2-3	19:09	5.63	17	20	537	4	0.08	546±4	599±36	✓
	A22-1	19:26	5.82	16	28	163	3	0.08	2197±23	2313±12	✓
	A23-1	19:42	6.56	15	49	55	5	0.09	1131±11	2349±9	✓

545

8.161
0.045

Mount/sample No: Date: Page No:

Rejection over-ride	Sample/ Std ID	Time - printout	²⁵⁴ U/ ²³⁸ U 196 Kcps	²⁰⁶ Pb Kcps	U ppm	²⁰⁴ Pb ppb 495	f ²⁰⁶ %	Age ±1σ (Ma) 206/238 207/206	Offsets OK?	
	A24-1	20:10	6.5	16	44	473	10	0.14	1148±7 2310±8	✓
	A25-1	20:30	5.6	17	7.031	31	1	-0.05	2780±64 2740±20	✓
	A26-1	20:49	6.3	17	3.7	333	8	0.4	1377±5 2298±18	✓
	A27-1	21:05	6.38	15	5.7	592	25	0.4	1280±12 2322±11	✓
	A28-1	21:21	5.6	17	4.3	280	3	0.05	1953±2 2344±8	✓
	A29-1	21:38	5.89		204				too high	
	A30-1	21:53	5.49	17	19.6	112	2	0.03	2380±23 2323±17	✓
	CZ2-4	22:09	5.51	17	19	527	1	0.1	569±5 568±32	✓
	CZ2-5	22:24	5.63	16	19	537	4	-0.019	570.4± -614±-	✓
	B1-1	22:48	5.5	16	3.7	218	2	0.17	2263±22 2314±10	✓
	B2-1	23:20	5.13	20	3.5	20	1	-0.26	2278±62 2354±42	✓
	B3-1	23:37	5.55	17	30	175	1	0.02	2322±25 2384±11	✓
	B4-1	23:53	5.76	16	28	156	1	0.05	2320±36 2369±11	✓
	B5-1	00:13	6.16	16	4.9	361	3	0.02	1734±15 2307±10	✓
	B6-1	00:30	5.85	14	19.8	126	2	0.08	2303±24 2428±13	✓
	B7-1	00:45	5.55	17	40	242	1	0.04	2240±18 2303±8	✓
	CZ3-1	01:01	5.6	17	20	538	1	-0.05	584±5 567±32	✓
	B8-1	01:18	5.6	17	38	189	2	0.03	2586±20 2688±7	✓
	B9-1	01:34	5.40	18	2.5	145	2	0.12	2351±25 2323±12	✓
	B10-1	01:49	5.6	17	4.1	234	5	0.09	2288±25 2324±9	✓
	B11-1	02:06	5.48	17	3.7	222	0	0.05	2323±19 2328±9	✓
	B12-1	02:22	5.60	17	3.7	230	3	0.04	2179±9 2332±10	✓
	B13-1	02:38	5.8	16	4.8	270	3	0.05	2293±3 2313±9	✓
	B14-1	02:53	5.55	17	2.3	115	5	0.08	2657±3 2676±10	✓
	CZ3-2	03:08	5.66	17	19.9	523	6	0.097	564±8 5610±37	✓

8.161
0.045

Mount/sample No: Date: Page No:

254/238
Rejection over-ride Sample/Std ID Time - printout UO/U 196 Kcps 206 Kcps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Offsets OK?

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 Kcps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)	206/238	207/206	Offsets OK?
	b15-1	03:26	5.8	18	46	295	3	0.07	1967±13	2492±7		✓
	b16-1	03:42	6.6	16	45	536	10	0.3	1094±6	2282±11 2257±9		✓
	b17-1	03:58	5.73	16	17	79	5	0.2	2907±33	2789±3		✓
	b18-1	04:13	5.68	17	21	117	3	0.05	2301±34	2321±14		✓
	b19-1	04:32	5.84	16	35	222	3	0.07	2058±17	2332±11		✓
	b19-2	04:49	5.85	16	31	188	2	0.04	2179±20	2336±11		✓
	b20-1	05:06	5.8	17	19.8	99.9	3	0.02	2480±41	2699±13		✓
	b20-2	5:21	5.7	17	17	80	2	0.07	2648±41	2673±14		✓
	b21-1	05:37	5.7	17	27	161	1	0.01	2191±19	2345±11		✓
	CZ.33	05:52	5.5	18	19	513	0	-0.01	566±4	588±25		✓
	b22-1	06:09	5.63	16	27	138	5	0.05	2844±26	2728±9		✓
	b23-1	06:33	5.38	18	12	75	3	0.19	2240±31	2310±17		✓
	b24-1	06:53	5.88	13	21	143	0	0.1	2368±27	2295±12		✓
	b25-1	07:09	5.7	17	29	164	2	0.1	2297±12	2397±29		✓
	b25-2	07:26	5.8	17	28	163	4	0.1	2177±21	2319±11		✓
	b26-1	07:43	6.1	17	44	237	7	0.2	2185±16	2712±11		✓
	b27-1	07:59	5.9	17	50	332	5	0.07	2078±24	2330±11		✓
	b28-1	08:15	5.5	16	21	131	1	0.02	2287±28	2316±16		✓
	CZ.41	8:30	5.44	17	19.8	545	5	0.02	569±4	543±58		✓
	CZ.42	8:45	5.5	17	20	548	3	0.1	572	431		✓

(labelled b20 should be)

Should be labelled as b25-2
Fix off
if
y. h. e.

Gain 25 July RWISA