

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 19/3/99 UWA Mount No.: 99-05 Whose sample?: Edson Operator(s): IF + EM

Indicate any change to the following: 196⁴ 204 bkg 206 207 208²⁰⁹ 238 248 254 270

Precambrian Count time (secs): 2 ✓ 10⁷ 7 7 20 5 2 5 2 2 2
Phanerozoic* Delay time (secs): 8 ✓ 3 ✓ 1 ✓ 2 ✓ 1 ✓ 1 ✓ 1 3 2 ✓ 2 ✓ 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs
 actual 196-204 = 10.164 actual 204-bkg = 0.043 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4882

Primary = 0.7 nA PESABM = pA actual Primary : PESABM (= 50:1) =
 Raster time (mins): 2 Raster aperture (microns): 120 No. of scans: 6

Comments: 70 µm aperture.
 + no retardation

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	¹⁹⁴ U 100 Kcps	206 Kcps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Offsets OK?
	xt-24-1	23:10	11.11	44	31.2	220	0.1	.01	572 2636	✓
	xt-24-2	23:30	11.44	39	40.3	280	0.3	.02	605 2628±2	✓
	d-1-1	23:52	10.99	49	32.5	287	0.1	.01	449±1 2075±3	✓
	d-3-1	00:13	11.19	52	23.9	186	0.1	.01	439±1 2080±3	✓
last scan (3)	d-4-1	00:32	11.29	50	31.9	245	0.1	.01	450±1 2092±3	✓
	xt-25-1	00:54	11.68	42	42.6	441	0.3	.01	627±1 2628±2	✓
	d-6-1	01:16	11.08	47	26.0	240	0.1	.01	421±1 2082±3	✓
	d-7-1	01:39	10.59	49	15.6	157	0.1	.01	409±1 2084±4	✓
	d-8-1	01:59	11.28	50	32.9	256	-	-	442±1 2074±3	✓
	xt-23-1	02:20	11.31	43	48.7	324	0.3	.01	602±1 2619±2	✓
step in p	d-9-1	02:45	11.57	50	31.3	233	0.2	.01	439±1 2098±3	✓

Rejection over-ride Sample/ Std ID Time - printout UO/U ¹⁹⁴/₁₉₆ Kcps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Offsets OK?

	d. 10-1	03:08	11.32	50	29.1	228	0.2	.005	434 ± 1	2089 ± 3	✓
	d. 13-1	03:56	11.46	48	27.2	229	0.5	.01	415 ± 1	2082 ± 3	✓
	XT.22-1	04:18	11.13	42	41.7	295	1.4	.07	587 ± 1	2617 ± 2	✓
	d. 16-1	04:44	11.10	51	21.5	187	0.2	.02	403 ± 1	2074 ± 4	✓
	d. 17-1	05:02	10.93	49	16.5	153	0.1	.02	409 ± 1	2079 ± 4	✓
	d. 18-1	05:25	11.18	49	25.6	209	0.2	.02	436 ± 1	2081 ± 3	✓
	XT.20-1	05:48	11.67	41	66.4	422	2.3	.08	62 ± 1	2629 ± 2	✓
	d. 30-1	06:17	16.39	85.3	13.20	17682	173	.13	663 ± 4	2075 ± 5	✓
	d. 31-1	06:35	11.10	52.0	22.5	183	0.1	.02	427 ± 1	2079 ± 3	✓
	d. 33-1	06:56	11.13	48.3	35.1	300	0.1	.01	495 ± 1	2083 ± 3	✓
	XT.20-2	07:30	11.32	43	42.8	291	0.2	.01	578 ± 1	2628 ± 2	✓
Rim	d. 35-1	07:56	10.95	45	24.4	240	—	—	423 ± 1	2083 ± 3	✓
CORE ^{curved 20° prod}	d. 35-2	08:13	11.00	49	23.9	215	0.2	.02	422 ± 1	2102 ± 3	✓
TRIM	d. 35-3	08:34	11.04	48	26.3	231	0.1	.01	434 ± 1	2077 ± 3	✓
	XT.14-1	08:54	11.68	43	61.8	384	—	—	592 ± 1	2628 ± 2	—
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