***Supplement 2***

**Part 2. Isotopic analyses results.**

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**Table 1**. Results of isotopic studies of zircons from well “A”.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Isotopic ratios** | | | | | | | **Rho** | **Age, Ma** | | | | | | **D, %** |
| **Th** | **207Pb** | **1σ** | **207Pb** | **1σ** | **206Pb** | **1σ** | **207Pb** | **1σ** | **207Pb** | **1σ** | **206Pb** | **1σ** |
| **U** | **206Pb** | **(abs)** | **235U** | **(abs)** | **238U** | **(abs)** | **206Pb** |  | **235U** |  | **238U** |  |
| *1* | *0.51* | *0.05254* | *0.00171* | *0.33597* | *0.01120* | *0.04637* | *0.00078* | *0.50* | *309* | *72* | *294* | *9* | *292* | *5* | *1* |
| 2 | 0.90 | 0.05621 | 0.00163 | 0.33303 | 0.01003 | 0.04296 | 0.00071 | 0.55 | 460 | 64 | 292 | 8 | 271 | 4 | 8 |
| *3* | *0.60* | *0.05425* | *0.00164* | *0.34965* | *0.01091* | *0.04674* | *0.00078* | *0.53* | *381* | *66* | *305* | *8* | *295* | *5* | *3* |
| 4 | 0.46 | 0.05959 | 0.00206 | 0.38638 | 0.01362 | 0.04701 | 0.00081 | 0.49 | 589 | 73 | 332 | 10 | 296 | 5 | 12 |
| 5 | 0.57 | 0.36073 | 0.00856 | 1.94706 | 0.04920 | 0.03914 | 0.00064 | 0.65 | 3753 | 36 | 1097 | 17 | 248 | 4 | 343 |
| 6 | 0.58 | 0.06722 | 0.00194 | 0.38730 | 0.01163 | 0.04178 | 0.00070 | 0.56 | 845 | 59 | 332 | 9 | 264 | 4 | 26 |
| 7 | 0.35 | 0.07806 | 0.00237 | 0.48664 | 0.01523 | 0.04521 | 0.00077 | 0.54 | 1149 | 59 | 403 | 10 | 285 | 5 | 41 |
| 8 | 0.38 | 0.07922 | 0.00263 | 0.51753 | 0.01750 | 0.04738 | 0.00083 | 0.52 | 1178 | 64 | 424 | 12 | 298 | 5 | 42 |
| 9 | 0.28 | 0.15273 | 0.00464 | 1.03959 | 0.03221 | 0.04936 | 0.00087 | 0.57 | 2377 | 51 | 724 | 16 | 311 | 5 | 133 |
| *10* | *0.49* | *0.05341* | *0.00173* | *0.35299* | *0.01172* | *0.04793* | *0.00082* | *0.52* | *346* | *71* | *307* | *9* | *302* | *5* | *2* |
| 11 | 0.41 | 0.07103 | 0.00215 | 0.43045 | 0.01346 | 0.04395 | 0.00075 | 0.55 | 958 | 61 | 364 | 10 | 277 | 5 | 31 |
| 12 | 0.29 | 0.11667 | 0.00436 | 0.58402 | 0.02184 | 0.03630 | 0.00068 | 0.50 | 1906 | 66 | 467 | 14 | 230 | 4 | 103 |
| *13* | *0.42* | *0.05162* | *0.00271* | *0.31899* | *0.01668* | *0.04482* | *0.00088* | *0.38* | *269* | *116* | *281* | *13* | *283* | *5* | *-1* |
| 14 | 0.75 | 0.07038 | 0.00211 | 0.46144 | 0.01434 | 0.04755 | 0.00081 | 0.55 | 939 | 60 | 385 | 10 | 300 | 5 | 29 |
| 15 | 0.99 | 0.44675 | 0.01243 | 3.93996 | 0.11384 | 0.06396 | 0.00109 | 0.59 | 4074 | 41 | 1622 | 23 | 400 | 7 | 306 |
| 16 | 0.52 | 0.21205 | 0.00652 | 1.05889 | 0.03335 | 0.03622 | 0.00064 | 0.56 | 2921 | 49 | 733 | 16 | 229 | 4 | 220 |
| 17 | 0.46 | 0.13321 | 0.00425 | 0.92165 | 0.03007 | 0.05018 | 0.00089 | 0.54 | 2141 | 55 | 663 | 16 | 316 | 5 | 110 |
| 18 | 0.51 | 0.07138 | 0.00234 | 0.44760 | 0.01505 | 0.04548 | 0.00080 | 0.52 | 968 | 66 | 376 | 11 | 287 | 5 | 31 |
| 19 | 0.57 | 0.05667 | 0.00191 | 0.15453 | 0.00532 | 0.01978 | 0.00035 | 0.51 | 478 | 73 | 146 | 5 | 126 | 2 | 16 |

Tabl.1 (continued)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Isotopic ratios** | | | | | | | **Rho** | **Age, Ma** | | | | | | **D, %** |
| **Th** | **207Pb** | **1σ** | **207Pb** | **1σ** | **206Pb** | **1σ** | **207Pb** | **1σ** | **207Pb** | **1σ** | **206Pb** | **1σ** |
| **U** | **206Pb** | **(abs)** | **235U** | **(abs)** | **238U** | **(abs)** | **206Pb** |  | **235U** |  | **238U** |  |
| 20 | 0.85 | 0.13857 | 0.00441 | 0.54175 | 0.01768 | 0.02836 | 0.00050 | 0.54 | 2210 | 54 | 440 | 12 | 180 | 3 | 144 |
| 21 | 0.35 | 0.10841 | 0.00390 | 0.71757 | 0.02611 | 0.04801 | 0.00088 | 0.50 | 1773 | 64 | 549 | 15 | 302 | 5 | 82 |
| *22* | *0.38* | *0.05234* | *0.00236* | *0.33677* | *0.01522* | *0.04668* | *0.00089* | *0.42* | *300* | *100* | *295* | *12* | *294* | *5* | *0* |
| 23 | 0.46 | 0.11765 | 0.00416 | 0.87209 | 0.03135 | 0.05377 | 0.00098 | 0.51 | 1921 | 62 | 637 | 17 | 338 | 6 | 89 |
| 24 | 0.52 | 0.11902 | 0.00421 | 0.58131 | 0.02089 | 0.03543 | 0.00064 | 0.50 | 1942 | 62 | 465 | 13 | 225 | 4 | 107 |
| 25 | 0.61 | 0.51637 | 0.01755 | 7.42153 | 0.25765 | 0.10427 | 0.00187 | 0.52 | 4289 | 49 | 2164 | 31 | 639 | 11 | 238 |
| 26 | 0.65 | 0.09837 | 0.00367 | 0.66649 | 0.02522 | 0.04915 | 0.00091 | 0.49 | 1594 | 68 | 519 | 15 | 309 | 6 | 68 |
| 27 | 0.51 | 0.04925 | 0.00201 | 0.28373 | 0.01171 | 0.04179 | 0.00078 | 0.45 | 160 | 93 | 254 | 9 | 264 | 5 | -4 |
| 28 | 0.82 | 0.17124 | 0.00653 | 1.08050 | 0.04164 | 0.04578 | 0.00086 | 0.49 | 2570 | 62 | 744 | 20 | 289 | 5 | 158 |
| 29 | 0.33 | 0.08895 | 0.00452 | 0.49838 | 0.02505 | 0.04065 | 0.00086 | 0.42 | 1403 | 94 | 411 | 17 | 257 | 5 | 60 |
| 30 | 0.31 | 0.08435 | 0.00449 | 0.24927 | 0.01311 | 0.02144 | 0.00046 | 0.41 | 1301 | 100 | 226 | 11 | 137 | 3 | 65 |
| *31* | *1.29* | *0.05255* | *0.00206* | *0.35182* | *0.01396* | *0.04858* | *0.00091* | *0.47* | *309* | *87* | *306* | *10* | *306* | *6* | *0* |
| 32 | 0.37 | 0.06319 | 0.00275 | 0.39907 | 0.01746 | 0.04583 | 0.00089 | 0.44 | 715 | 90 | 341 | 13 | 289 | 5 | 18 |
| *33* | *0.39* | *0.05308* | *0.00249* | *0.34192* | *0.01605* | *0.04675* | *0.00093* | *0.42* | *332* | *103* | *299* | *12* | *295* | *6* | *1* |
| *34* | *0.41* | *0.05194* | *0.00255* | *0.32133* | *0.01577* | *0.04490* | *0.00090* | *0.41* | *283* | *109* | *283* | *12* | *283* | *6* | *0* |
| 35 | 0.70 | 0.46839 | 0.01925 | 3.58457 | 0.14856 | 0.05553 | 0.00108 | 0.47 | 4145 | 60 | 1546 | 33 | 348 | 7 | 344 |
| 36 | 0.49 | 0.37256 | 0.01575 | 2.63647 | 0.11224 | 0.05135 | 0.00101 | 0.46 | 3802 | 63 | 1311 | 31 | 323 | 6 | 306 |
| *37* | *0.50* | *0.05405* | *0.00270* | *0.34625* | *0.01731* | *0.04649* | *0.00095* | *0.41* | *373* | *108* | *302* | *13* | *293* | *6* | *3* |
| *38* | *0.37* | *0.05707* | *0.00292* | *0.35317* | *0.01804* | *0.04491* | *0.00093* | *0.41* | *494* | *110* | *307* | *14* | *283* | *6* | *8* |
| 39 | 0.35 | 0.05095 | 0.00346 | 0.28255 | 0.01896 | 0.04025 | 0.00093 | 0.34 | 239 | 149 | 253 | 15 | 254 | 6 | -1 |
| 40 | 0.53 | 0.05832 | 0.00404 | 0.33037 | 0.02259 | 0.04111 | 0.00098 | 0.35 | 541 | 145 | 290 | 17 | 260 | 6 | 12 |

Note. *Measurements used in calculating concordat ages are in italic*; D ‒ discordance, %. The values of isotopic ratios and ages of individual grains are given with an error of 1Ϭ.