***Supplement 2***

**Part 2. Isotopic analyses results.**

*Khotylev A.O., Mayorov A.A., Khydoley A.K., Ershova V.B., Kalmykov G.A., Khubanov V.B., Chervyakovskaya M.V.* “Granitoid massifs of the

Krasnoleninsky arch (Western Siberia): Composition, structure, age and conditions of formation,” *Geotectonics.* no.2 (Supplement 2) (2021).

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**Table 6.** Results of isotopic studies of zircons from well “J”.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 0.29 | 0.06349 | 0.00124 | 0.51095 | 0.00997 | 0.05834 | 0.00068 | 0.60 | 725 | 41 | 419 | 7 | 366 | 4 | 15 |
| *2* | *0.46* | *0.05505* | *0.00099* | *0.45119* | *0.00820* | *0.05941* | *0.00068* | *0.63* | *414* | *39* | *378* | *6* | *372* | *4* | *2* |
| *3* | *0.31* | *0.05465* | *0.00129* | *0.44663* | *0.01052* | *0.05923* | *0.00071* | *0.51* | *398* | *52* | *375* | *7* | *371* | *4* | *1* |
| 4 | 0.44 | 0.05708 | 0.00112 | 0.46758 | 0.00923 | 0.05936 | 0.00069 | 0.59 | 494 | 43 | 390 | 6 | 372 | 4 | 5 |
| 5 | 0.33 | 0.06005 | 0.00158 | 0.46723 | 0.01221 | 0.05638 | 0.00070 | 0.48 | 605 | 56 | 389 | 8 | 354 | 4 | 10 |
| 6 | 0.66 | 0.05868 | 0.00154 | 0.46325 | 0.01207 | 0.05718 | 0.00072 | 0.48 | 555 | 56 | 387 | 8 | 359 | 4 | 8 |
| 7 | 0.61 | 0.05579 | 0.00102 | 0.43829 | 0.00817 | 0.05691 | 0.00067 | 0.63 | 444 | 40 | 369 | 6 | 357 | 4 | 3 |
| *8* | *0.40* | *0.05566* | *0.00139* | *0.44767* | *0.01119* | *0.05826* | *0.00073* | *0.50* | *438* | *54* | *376* | *8* | *365* | *4* | *3* |
| *9* | *0.60* | *0.05480* | *0.00109* | *0.43509* | *0.00880* | *0.05750* | *0.00069* | *0.59* | *404* | *44* | *367* | *6* | *360* | *4* | *2* |
| *10* | *0.19* | *0.05466* | *0.00109* | *0.44818* | *0.00910* | *0.05938* | *0.00072* | *0.60* | *398* | *44* | *376* | *6* | *372* | *4* | *1* |
| *11* | *0.51* | *0.05352* | *0.00137* | *0.42454* | *0.01092* | *0.05744* | *0.00074* | *0.50* | *351* | *57* | *359* | *8* | *360* | *4* | *0* |
| 12 | 0.49 | 0.07375 | 0.00270 | 0.56943 | 0.02052 | 0.05591 | 0.00083 | 0.41 | 1035 | 72 | 458 | 13 | 351 | 5 | 30 |
| 13 | 0.36 | 0.05733 | 0.00169 | 0.45866 | 0.01351 | 0.05794 | 0.00078 | 0.46 | 504 | 64 | 383 | 9 | 363 | 5 | 6 |
| 14 | 0.51 | 0.05920 | 0.00177 | 0.47023 | 0.01399 | 0.05752 | 0.00078 | 0.46 | 575 | 64 | 391 | 10 | 361 | 5 | 9 |
| 15 | 0.18 | 0.06458 | 0.00174 | 0.49827 | 0.01344 | 0.05587 | 0.00074 | 0.49 | 761 | 56 | 411 | 9 | 351 | 5 | 17 |
| *16* | *0.27* | *0.05530* | *0.00123* | *0.45223* | *0.01028* | *0.05922* | *0.00077* | *0.57* | *424* | *48* | *379* | *7* | *371* | *5* | *2* |
| 17 | 0.45 | 0.06058 | 0.00198 | 0.47853 | 0.01559 | 0.05722 | 0.00082 | 0.44 | 624 | 69 | 397 | 11 | 359 | 5 | 11 |
| 18 | 0.31 | 0.10073 | 0.00427 | 0.83292 | 0.03447 | 0.05990 | 0.00104 | 0.42 | 1638 | 77 | 615 | 19 | 375 | 6 | 64 |
| 19 | 0.38 | 0.06431 | 0.00190 | 0.49304 | 0.01464 | 0.05554 | 0.00078 | 0.47 | 752 | 61 | 407 | 10 | 349 | 5 | 17 |

Tabl.6 (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 | 0.49 | 0.05984 | 0.00159 | 0.50043 | 0.01346 | 0.06058 | 0.00083 | 0.51 | 598 | 56 | 412 | 9 | 379 | 5 | 9 |
| 21 | 0.51 | 0.05861 | 0.00193 | 0.47240 | 0.01563 | 0.05841 | 0.00085 | 0.44 | 553 | 70 | 393 | 11 | 366 | 5 | 7 |
| *22* | *0.54* | *0.05572* | *0.00180* | *0.46013* | *0.01502* | *0.05986* | *0.00088* | *0.45* | *441* | *70* | *384* | *10* | *375* | *5* | *3* |
| *23* | *0.52* | *0.05529* | *0.00143* | *0.45208* | *0.01207* | *0.05928* | *0.00082* | *0.52* | *424* | *56* | *379* | *8* | *371* | *5* | *2* |
| 24 | 0.29 | 0.05595 | 0.00191 | 0.43974 | 0.01517 | 0.05699 | 0.00085 | 0.43 | 450 | 74 | 370 | 11 | 357 | 5 | 4 |
| *25* | *0.21* | *0.05231* | *0.00157* | *0.42230* | *0.01295* | *0.05854* | *0.00085* | *0.47* | *299* | *67* | *358* | *9* | *367* | *5* | *-2* |
| 26 | 0.54 | 0.06477 | 0.00220 | 0.54286 | 0.01875 | 0.06082 | 0.00094 | 0.45 | 767 | 70 | 440 | 12 | 381 | 6 | 16 |
| *27* | *0.41* | *0.05252* | *0.00178* | *0.41674* | *0.01445* | *0.05759* | *0.00088* | *0.44* | *308* | *75* | *354* | *10* | *361* | *5* | *-2* |
| *28* | *0.47* | *0.05401* | *0.00142* | *0.43928* | *0.01217* | *0.05905* | *0.00086* | *0.53* | *371* | *58* | *370* | *9* | *370* | *5* | *0* |
| 29 | 0.50 | 0.05399 | 0.00156 | 0.45062 | 0.01359 | 0.06061 | 0.00090 | 0.49 | 370 | 64 | 378 | 10 | 379 | 5 | 0 |
| 30 | 0.70 | 0.05345 | 0.00139 | 0.44428 | 0.01233 | 0.06037 | 0.00089 | 0.53 | 348 | 58 | 373 | 9 | 378 | 5 | -1 |

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.