***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).

*Geotectonics* © *Pleiades Publishing, Ltd.*

**Table 5.** Results of isotopic studies of zircons from well “E”.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 (center) | 1.23 | 0.24853 | 0.00531 | 21.39784 | 0.37211 | 0.62514 | 0.01012 | 0.93 | 3175 | 33 | 3157 | 17 | 3130 | 40 | 1 |
| 2 | 0.01 | 0.12563 | 0.00326 | 5.90439 | 0.13317 | 0.34123 | 0.00606 | 0.79 | 2038 | 45 | 1962 | 20 | 1893 | 29 | 4 |
| *3* | *1.53* | *0.05915* | *0.00135* | *0.78259* | *0.01487* | *0.09606* | *0.00156* | *0.85* | *573* | *49* | *587* | *8* | *591* | *9* | *-1* |
| 4 (edge) | 0.02 | 0.15942 | 0.00339 | 7.40467 | 0.12853 | 0.33719 | 0.00544 | 0.93 | 2450 | 36 | 2162 | 16 | 1873 | 26 | 15 |
| *5* | *0.24* | *0.06071* | *0.00147* | *0.79956* | *0.01648* | *0.09560* | *0.00158* | *0.80* | *629* | *51* | *597* | *9* | *589* | *9* | *1* |
| *6 (center)* | *2.40* | *0.05991* | *0.00143* | *0.79281* | *0.01615* | *0.09604* | *0.00160* | *0.82* | *600* | *51* | *593* | *9* | *591* | *9* | *0* |
| *7 (edge)* | *1.33* | *0.06035* | *0.00139* | *0.79908* | *0.01559* | *0.09609* | *0.00159* | *0.85* | *616* | *49* | *596* | *9* | *591* | *9* | *1* |
| 8 (edge) | 1.05 | 0.05945 | 0.00147 | 0.65568 | 0.01406 | 0.08004 | 0.00135 | 0.79 | 584 | 53 | 512 | 9 | 496 | 8 | 3 |
| *9 (center)* | *0.84* | *0.06032* | *0.00145* | *0.79568* | *0.01656* | *0.09573* | *0.00161* | *0.81* | *615* | *51* | *594* | *9* | *589* | *9* | *1* |
| *10* | *0.77* | *0.05949* | *0.00142* | *0.78478* | *0.01611* | *0.09573* | *0.00161* | *0.82* | *585* | *51* | *588* | *9* | *589* | *9* | *0* |
| *11* | *0.57* | *0.06257* | *0.00182* | *0.83709* | *0.02191* | *0.09706* | *0.00172* | *0.68* | *694* | *61* | *618* | *12* | *597* | *10* | *3* |
| *12* | *0.39* | *0.06023* | *0.00138* | *0.80707* | *0.01602* | *0.09722* | *0.00165* | *0.86* | *612* | *49* | *601* | *9* | *598* | *10* | *0* |
| 13 | 0.57 | 0.52570 | 0.01164 | 14.75702 | 0.27854 | 0.20364 | 0.00350 | 0.91 | 4315 | 32 | 2800 | 18 | 1195 | 19 | 134 |
| 14 | 0.53 | 0.06654 | 0.00187 | 1.09185 | 0.02762 | 0.11904 | 0.00212 | 0.70 | 823 | 58 | 749 | 13 | 725 | 12 | 3 |
| *15* | *1.19* | *0.05786* | *0.00144* | *0.77563* | *0.01704* | *0.09724* | *0.00168* | *0.79* | *524* | *54* | *583* | *10* | *598* | *10* | *-3* |
| 16 | 0.94 | 0.11034 | 0.00267 | 1.55915 | 0.03332 | 0.10249 | 0.00181 | 0.83 | 1805 | 43 | 954 | 13 | 629 | 11 | 52 |
| 17 | 0.65 | 0.12223 | 0.00281 | 5.98202 | 0.12099 | 0.35492 | 0.00621 | 0.87 | 1989 | 40 | 1973 | 18 | 1958 | 30 | 1 |
| *18* | *0.34* | *0.05893* | *0.00152* | *0.77741* | *0.01812* | *0.09567* | *0.00170* | *0.76* | *564* | *55* | *584* | *10* | *589* | *10* | *-1* |
| 19 | 0.65 | 0.16618 | 0.00373 | 10.36372 | 0.20524 | 0.45225 | 0.00789 | 0.88 | 2520 | 37 | 2468 | 18 | 2405 | 35 | 3 |
| *20* | *0.35* | *0.05781* | *0.00141* | *0.76652* | *0.01681* | *0.09615* | *0.00170* | *0.81* | *522* | *53* | *578* | *10* | *592* | *10* | *-2* |

Tabl.5 (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** |  |
| *21* | *1.15* | *0.05847* | *0.00141* | *0.77888* | *0.01701* | *0.09659* | *0.00172* | *0.82* | *547* | *52* | *585* | *10* | *594* | *10* | *-2* |
| *22 (center)* | *0.22* | *0.05937* | *0.00204* | *0.79328* | *0.02565* | *0.09687* | *0.00185* | *0.59* | *581* | *73* | *593* | *15* | *596* | *11* | *-1* |
| 23 (edge) | 0.04 | 0.05763 | 0.00140 | 0.65047 | 0.01437 | 0.08183 | 0.00147 | 0.81 | 515 | 53 | 509 | 9 | 507 | 9 | 0 |
| 24 (center) | 0.47 | 0.07035 | 0.00172 | 1.51714 | 0.03386 | 0.15633 | 0.00283 | 0.81 | 939 | 49 | 937 | 14 | 936 | 16 | 0 |
| 25 (edge) | 0.32 | 0.06908 | 0.00165 | 1.39924 | 0.03053 | 0.14684 | 0.00265 | 0.83 | 901 | 48 | 889 | 13 | 883 | 15 | 1 |
| *26 (center)* | *0.46* | *0.05977* | *0.00144* | *0.79267* | *0.01765* | *0.09613* | *0.00176* | *0.82* | *595* | *52* | *593* | *10* | *592* | *10* | *0* |
| 27 (edge) | 0.47 | 0.06880 | 0.00180 | 0.93853 | 0.02296 | 0.09887 | 0.00184 | 0.76 | 893 | 53 | 672 | 12 | 608 | 11 | 11 |
| 28 (center) | 0.30 | 0.10680 | 0.00252 | 4.58245 | 0.10067 | 0.31099 | 0.00571 | 0.84 | 1745 | 43 | 1746 | 18 | 1746 | 28 | 0 |
| 29 (edge) | 0.16 | 0.10944 | 0.00261 | 4.66646 | 0.10405 | 0.30903 | 0.00571 | 0.83 | 1790 | 43 | 1761 | 19 | 1736 | 28 | 1 |
| 30 (center) | 0.50 | 0.07028 | 0.00178 | 1.52792 | 0.03643 | 0.15756 | 0.00295 | 0.79 | 937 | 51 | 942 | 15 | 943 | 16 | 0 |
| *31 (edge)* | *0.08* | *0.05963* | *0.00167* | *0.80184* | *0.02148* | *0.09743* | *0.00188* | *0.72* | *590* | *60* | *598* | *12* | *599* | *11* | *0* |
| 32 | 0.38 | 0.14762 | 0.00390 | 6.18208 | 0.15607 | 0.30346 | 0.00596 | 0.78 | 2319 | 45 | 2002 | 22 | 1708 | 29 | 17 |
| 33 | 0.41 | 0.06710 | 0.00170 | 0.92114 | 0.02234 | 0.09947 | 0.00190 | 0.79 | 841 | 52 | 663 | 12 | 611 | 11 | 8 |
| *34* | *0.31* | *0.06038* | *0.00171* | *0.80071* | *0.02188* | *0.09608* | *0.00188* | *0.72* | *617* | *60* | *597* | *12* | *591* | *11* | *1* |
| 35 | 0.05 | 0.23729 | 0.00586 | 20.23278 | 0.48306 | 0.61779 | 0.01183 | 0.80 | 3102 | 39 | 3103 | 23 | 3101 | 47 | 0 |

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.