***Supplement 1***

**Part 1. Results of geochemical studies of granitoids of the Krasnoleninsky arch.**

*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 1) (2021). *Geotectonics* © *Pleiades Publishing, Ltd.*

**Table 2**. Contents of trace elements ( μg/g).

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Well** | Sample | Cs | Rb | Ba | Th | U | Sr | Nb | Zr | Y |
| **A** | 1 | – | 56 | 935 | 12 | 1.49 | 164 | 15 | 154 | 5.19 |
| **A** | 2 | 2.68 | 78 | 830 | 11 | 2.30 | 126 | 16 | 164 | 4.56 |
| **A** | 3 | – | 98 | 1079 | 14 | 1.94 | 287 | 18 | 152 | 6.53 |
| **A** | 4 | – | 97 | 1094 | 13 | 1.91 | 238 | 16 | 149 | 4.79 |
| **A** | 5 | 2.66 | 92 | 1228 | 17 | 2.03 | 304 | 17 | 151 | 7.86 |
| **A** | 6 | – | 120 | 635 | 8 | 3.62 | 383 | 17 | 156 | 7.50 |
| **A** | 7 | 4.93 | 119 | 736 | 20 | 5.19 | 405 | 18 | 141 | 8.26 |
| **A** | 8 | – | 114 | 824 | 7 | 3.42 | 403 | 16 | 145 | 7.63 |
| **A** | 9 | – | 92 | 521 | 13 | 6.05 | 424 | 14 | 142 | 4.06 |
| **B** | 10 | – | 92 | 798 | 16 | 6.32 | 402 | 15 | 162 | 7.72 |
| **B** | 11 | – | 99 | 828 | 12 | – | 338 | 16 | 145 | – |
| **B** | 12 | – | 79 | 693 | 16 | 9.12 | 329 | 14 | 144 | 8.66 |
| **B** | 13 | – | 89 | 723 | 18 | – | 331 | 15 | 150 | 4.00 |
| **B** | 14 | – | 94 | 732 | 16 | 11.00 | 381 | 16 | 156 | – |
| **B** | 15 | – | 104 | 794 | 26 | – | 333 | 17 | 177 | 8.00 |
| **B** | 16 | 4.8 | 105 | 802 | – | – | 341 | 10.2 | 173 | 8.70 |
| **C** | 17 | – | 156 | 643 | 24 | – | 180 | 17 | 200 | 49.00 |
| **C** | 18 | – | 178 | 719 | 15 | 7.42 | 173 | 16 | 193 | 17.84 |
| **C** | 19 | – | 227 | 828 | 15 | – | 174 | 17 | 191 | 23.00 |
| **C** | 20 | – | 198 | 762 | 20 | 7.34 | 213 | 18 | 218 | 18.81 |
| **C** | 21 | – | 148 | 869 | 21 | 8.07 | 211 | 17 | 187 | 9.64 |
| **C** | 22 | – | 200 | 685 | 21 | – | 164 | 19 | 223 | 14.00 |
| **C** | 27 | 14.6 | 156 | 567 | – | – | 162 | 13.9 | 39.4 | 148.00 |
| **C** | 28 | 12.4 | 186 | 607 | – | – | 158 | 13.3 | 18.1 | 126.00 |
| **C** | 29 | 10.2 | 137 | 614 | – | – | 170 | 12.5 | 9.15 | 187.00 |
| **E** | 34 | – | 117 | 855 | 13 | – | 210 | 13 | 146 | 6.00 |
| **E** | 35 | – | 139 | 1044 | <10 | – | 253 | 14 | 151 | 11.00 |
| **E** | 36 | – | 127 | 973 | <10 | – | 341 | 14 | 141 | 9.00 |