***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 3.** Contents of trace and rare earth elements (μg/g)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Well** | Sample | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | Ta | Pb |
| **A** | 1 | 29.41 | 49.94 | 5.34 | 17.55 | 2.90 | 0.66 | 2.15 | 0.25 | 1.17 | 0.21 | 0.59 | 0.08 | 0.40 | 0.04 | – | – | 28 |
| **A** | 2 | 27.58 | 51.69 | 4.89 | 15.40 | 2.24 | 0.49 | 1.02 | 0.20 | 0.90 | 0.21 | 0.56 | 0.07 | 0.53 | 0.07 | 2.69 | 1.60 | 18 |
| **A** | 3 | 26.02 | 44.71 | 4.54 | 15.46 | 2.78 | 0.46 | 2.21 | 0.26 | 1.26 | 0.23 | 0.58 | 0.09 | 0.56 | 0.06 | – | – | 24 |
| **A** | 4 | 24.44 | 40.94 | 4.05 | 12.25 | 2.10 | 0.29 | 1.58 | 0.20 | 1.14 | 0.21 | 0.48 | 0.07 | 0.46 | 0.06 | – | – | 19 |
| **A** | 5 | 28.46 | 51.49 | 5.68 | 18.10 | 2.97 | 0.76 | 1.75 | 0.35 | 1.52 | 0.31 | 0.78 | 0.11 | 0.69 | 0.10 | 2.25 | 1.59 | 23 |
| **A** | 6 | 23.71 | 44.53 | 5.00 | 16.59 | 3.03 | 0.63 | 2.27 | 0.31 | 1.51 | 0.30 | 0.72 | 0.10 | 0.57 | 0.10 | – | – | 26 |
| **A** | 7 | 25.58 | 48.27 | 4.92 | 16.74 | 3.04 | 0.73 | 1.81 | 0.35 | 1.60 | 0.33 | 0.80 | 0.11 | 0.66 | 0.09 | 2.56 | 1.82 | 24 |
| **A** | 8 | 23.67 | 45.10 | 5.06 | 16.58 | 3.02 | 0.61 | 2.54 | 0.32 | 1.56 | 0.31 | 0.72 | 0.10 | 0.50 | 0.07 | – | – | 27 |
| **A** | 9 | 27.53 | 42.69 | 4.18 | 13.22 | 2.28 | 0.40 | 1.71 | 0.18 | 0.88 | 0.16 | 0.46 | 0.07 | 0.38 | 0.05 | – | – | 25 |
| **B** | 10 | 29.67 | 53.28 | 5.79 | 19.65 | 3.18 | 0.66 | 2.61 | 0.32 | 1.62 | 0.30 | 0.70 | 0.10 | 0.58 | 0.09 | – | – | 51 |
| **B** | 12 | 42.64 | 69.80 | 6.94 | 22.37 | 3.85 | 0.71 | 2.90 | 0.37 | 1.81 | 0.36 | 0.86 | 0.11 | 0.67 | 0.08 | – | – | 20 |
| **B** | 16 | 30.50 | 51.90 | 5.50 | 17.70 | 3.20 | 0.90 | 2.40 | 0.40 | 1.60 | 0.30 | 0.80 | 0.10 | 0.70 | 0.10 | – | – | – |
| **C** | 18 | 63.00 | 64.78 | 11.53 | 37.22 | 7.30 | 1.92 | 6.12 | 0.71 | 3.32 | 0.62 | 1.47 | 0.18 | 1.18 | 0.18 | – | – | 39 |
| **C** | 20 | 37.26 | 57.42 | 7.08 | 25.11 | 5.22 | 1.34 | 4.93 | 0.65 | 3.28 | 0.66 | 1.60 | 0.22 | 1.51 | 0.20 | – | – | 53 |
| **C** | 21 | 54.34 | 99.19 | 9.84 | 30.45 | 5.09 | 1.07 | 3.64 | 0.39 | 1.74 | 0.35 | 0.79 | 0.10 | 0.64 | 0.08 | – | – | 33 |
| **C** | 27 | 333.30 | 123.50 | 157.30 | 108.10 | 68.20 | 59.10 | 44.60 | 30.50 | 20.60 | 17.40 | 15.60 | 15.00 | 12.20 | 11.40 | – | – | – |
| **C** | 28 | 304.20 | 108.30 | 140.10 | 93.40 | 52.40 | 40.90 | 32.50 | 21.60 | 12.80 | 11.40 | 10.30 | 8.50 | 8.40 | 8.10 | – | – | – |
| **C** | 29 | 138.40 | 92.70 | 69.40 | 40.70 | 19.80 | 15.80 | 12.40 | 9.40 | 6.10 | 5.10 | 5.30 | 5.30 | 5.00 | 5.70 | – | – | – |