

Han, J., Zhao, Z., Hollings, P., and Chen, H., 2022, A 50 m.y. melting model for the rare metal-rich Koktokay pegmatite in the Chinese Altai: Implications from a newly-identified Jurassic granite: *GSA Bulletin*, <https://doi.org/10.1130/B36513.1>.

Supplemental Material

Table S1. Major (wt%) and trace (ppm) element compositions of apatite from the granite apophysis and the Koktokay No. 3 pegmatite.

Table S2. Major element composition of columbite in the granite apophysis.

Table S3. Major and trace element composition of micas in the granite apophysis.

Table S4. Major (wt%) and trace (ppm) elements for the granite apophysis.

Table S5. LA-ICP-MS U-Pb analytical results of columbites and apatites.

Table S6. Whole-rock Sr-Nd-Hf isotopes of the granite apophysis in the Koktokay No. 3 pegmatite.

Table S7. Multicollector LA-ICP-MS boron isotopes of tourmalines from the granite apophysis.

Table S8. Compiled age data of magmatic-hydrothermal activities in the Koktokay No. 3 pegmatite.

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