

I. S. LYKOVA,*, ** *D. A. VARLAMOV*,*** *N. V. CHUKANOV*,**** *L. A. PAUTOV*,*
D. A. KSENOFONTOV.** PHOSPHATES OF THE CHALOTSKOE PEGMATITE DEPOSIT
(TRANSBAIKALIA)

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A scope of rare phosphates have been found in specimens from Chalotskoe pegmatite deposit (Transbaikalia): väyrynenite, $\text{MnBe}[\text{PO}_4](\text{OH},\text{F})$; parascholzite, $\text{CaZn}_2[\text{PO}_4]_2 \cdot 2\text{H}_2\text{O}$; messelite, $\text{Ca}_2(\text{Fe}^{2+},\text{Mn})[\text{PO}_4]_2 \cdot 2\text{H}_2\text{O}$; eosphorite, $\text{MnAl}[\text{PO}_4](\text{OH})_2 \cdot \text{H}_2\text{O}$; moraesite, $\text{Be}_2[\text{PO}_4](\text{OH}) \cdot 4\text{H}_2\text{O}$, as well as fluorapatite. Väyrynenite forms pink grains 2—3 mm in size, more rarely prismatic crystals up to 0.8×3.0 cm, and spherulites up to 3 mm in diameter. Parascholzite occurs as nests up to 0.6×1.0 cm composed from snow-white small grains. Messelite is represented by pale yellow honeycomb grains and poorly shaped crystals up to 1 mm. Eosphorite was known in pegmatites of the

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Chalotskoe deposit before, but it was not explicitly studied there. It occurs in red-brown prismatic crystals up to 8 cm in length, occasionally forming open-book-like aggregates and pink to pale pink grains size up to 5 mm. Moraesite composes snow-white fibrous aggregates up to 5×6 mm, together with white spherulites and short-prismatic crystals of fluorapatite up to 1 mm. Associated minerals are microcline, albite, quartz, muscovite, beryl, schorl, almandine-spessartine, columbite-(Fe), and bertrandite. Finds of väyrynenite and parascholzite are for the first time reported in Russia.

Key words: väyrynenite, parascholzite, messelite, eosphorite, moraesite, phosphate minerals, granitic pegmatite, Chalotskoe deposit, Transbaikalia.