PART 2. GEOLOGY

31. Serpentinite with veinlets of chrysotile asbestos. 12.5 x 9 cm. Specimen: Fersman Mineralogical Museum, RAS, #12857.

32. Veinlets of chrysotile asbestos in vein of serpentine (ophite) cross-cutting massive serpentinite. 11 x 7 cm. Specimen: Fersman Mineralogical Museum, RAS, #28008.

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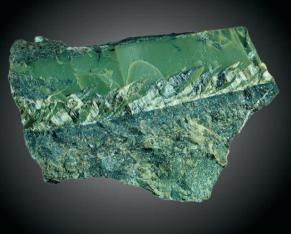
Location of Bazhenovskiy Ophiolite Complex

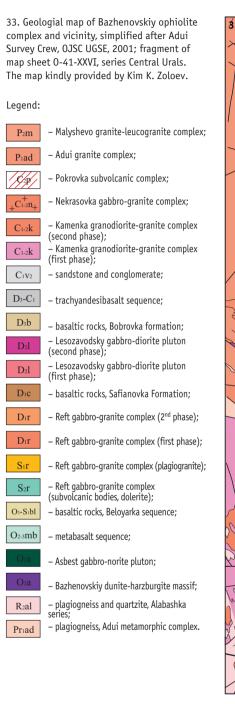
The district of Bazhenovskiy ophiolite complex is a low watershed ridge in the piedmont part of the Urals eastern slope, separating the Pyshma River basin from the basin of its left tributary the Bolshoi Reft River. Topography is characterized by low hills, crests of hills, and draws, which are sometimes swamped and frequently forested. The largest of a number of drainless depressions occupied by lakes are the Okunevo and Talitskoe (trapped on the zone of operating open pits and disappeared) and dry Shchuchjye lakes. Peat bogs drying up in hot season occupy small depressions. The Gryaznushka River flows in the southern part of the district. The Reft reservoir of the eponymous regional power station and Beloyarka reservoir are situated NE and NW of the deposit, respectively.

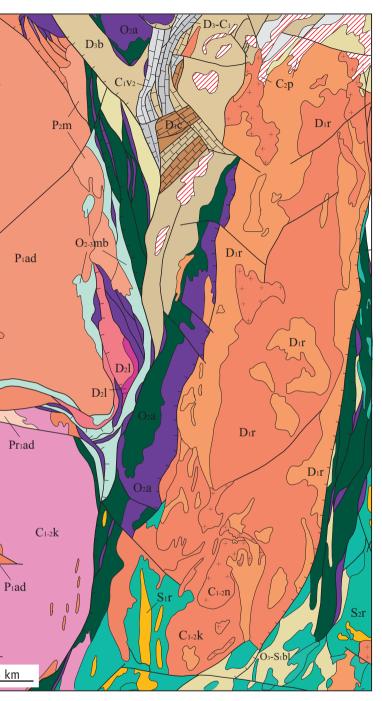
Geotectonically, the district is located in the eastern paleo-arc area of the Urals fold belt. It is related to the Paleozoic sequences of the Alapaikha-Techa zone of block-monoclines and is localized close to their junction with the migmatitegneiss complex of the Murzinka-Adui Rise. The Murzinka-Adui Rise and Alapaikha-Techa zone together with other positive and negative second-order structures compose the Eastern Urals belt of rises and superimposed depressions (Geological..., 1981).

The main structural element of the district is the Asbest-Alapaikha peridotite belt, which in addition to Bazhenovskiy massif includes the Alapaikha, Ostanino, Malaya Reft, Rezh, and Malyshevo massifs marking the Susanka deep-seated fault. This fault is located in the western limb of the Alapaikha-Techa zone of









block-monoclines, the Paleozoic sequences of which are thrusted from the east onto the hard granitic gneiss core of the Murzinka-Adui Rise. Small ultramafic bodies are common beyond the Asbest-Alapaikha peridotite belt. They are localized within the gneiss core and country schists to form chain-like bands along the contact of gneiss and schists, as well as, towards the east of the large main massifs of the Asbest-Alapaikha belt in the Carbonaceous sediments, where they mark a deep-seated fault. In the district of Bazhenovskiy ultramafic massif, there are the