

Novo-Berezovskoye deposit

East Kazakhstan region

16

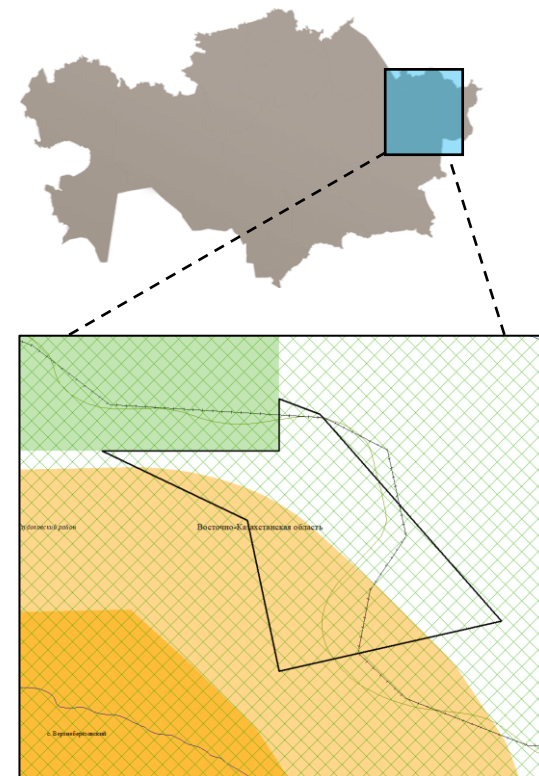
Location: located in the Glubokovsky district, 48 km northwest of Ust-Kamenogorsk, 8 km northwest of the Predgornaya railway station.

Brief geological description: The deposit is confined to an extended narrow tectonic block of the Irtysh shear zone, which crosses the southwestern limb of the Aley anticlinorium . The area of the deposit is composed of porphyroids with interbeds of tuffs, lenses of terrigenous rocks and limestones of the Irtysh suite of the Givetian- Frasnian and porphyroids after quartz porphyry and tuffs of dacitic composition of the Famennian . The rocks are crushed into narrow isoclinal folds of northwestern strike with a steep (75-85°) southwestern dip of the limbs. Devonian deposits are intruded by lens-shaped stocks of quartz diorites of the Middle-Late Carboniferous and numerous dikes. Among the latter, two groups are distinguished - early and late. The early group - microdiorites , diorite and quartz diorite porphyrites. They are intensely sheared . The late group of dykes includes diorite porphyrites and dacite porphyries of massive appearance. The occurrence of rocks is complicated by numerous faults, among which extended zones of increased schistosity and plastic flow of rocks stand out. At intervals of repeated crushing of tectonic schists, these zones include the bulk of mineralization.

The main body of the deposit is confined to a zone of increased shear in the footwall of a quartz diorite intrusion. The zone has been traced for more than two kilometers. It dips steeply to the southwest at an angle of 75-85°, and declines to the northwest at an angle of 35-45°. Eight ribbon-shaped ore bodies have been identified. Ore composition: pyrite, pyrrhotite, sphalerite, chalcopyrite, galena, marcasite, magnetite, arsenopyrite, fahlore , wittechinite, bismuthinite, galenobismuthite , quartz, sericite, chlorites, and barite. The main ore types are pyrite-chalcopyrite- sphalerite and pyrrhotite- chalcopyrite-sphalerite . Polymetallic and barite-polymetallic ores are of subordinate importance . Ore textures: massive, vein-disseminated, spotted, banded, lenticular-banded. Average copper content is 1.67%, zinc - 4.85%, lead - 1.67%, gold - 0.3 g/t, silver - 17.8 g/t.

Extract from the state inventory records as of 01.01.2024.

Useful component	Balance reserves	Off-balance sheet reserves
gold	A+B+C1 – 161.0 kg; C2 – 1482.0 kg	150 kg
silver	A+B+C1 – 9.8 tons; C2 – 56.6 tons	12.3 tons
copper	A+B+C1 – 10.1 thousand tons ; C2 – 78.4 thousand tons	4.2 thousand tons
lead	A+B+C1 – 1.1 thousand tons ; C2 – 4.9 thousand tons	0.2 thousand tons



- territory included in the State Natural Resources and Natural Resources Act for solid mineral extraction (Novo-Berezovskoye field), for further auctioning
- licenses for GIN
- buffer zone of the settlement of Verkhneberezhovskiy