

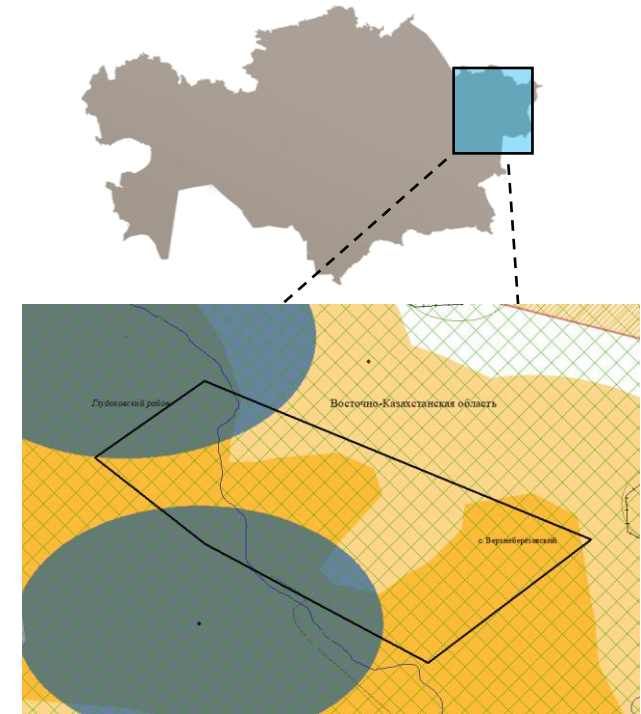
# Berezovskoye deposit

## East Kazakhstan region

19

**Location:** Situated in the Glubokovsky District of the East Kazakhstan Region, 49 km northwest of Ust-Kamenogorsk, 160 km southeast of the Zashchita railway station. Coordinates: longitude 82°12', latitude 50°16'. Discovered: in 1730.

**Brief geological description:** The deposit is located in the Berezovsko-Belousovskoye ore field, which is a block of the Ore-Altai block involved in the Irtysh deep fault zone. The ore field is composed of sericite-chlorite, chlorite-quartz, carbonaceous-clayey and siliceous shales, dolomitized limestones and rhyolites of the Shipulinskaya Givetian suite. Five ore deposits have been identified (Main, South-East, South-West, North-West and Parallel), including a large number of ore bodies. The shape of the ore bodies is irregular, ribbon- and lens-shaped with an echelon-like arrangement. The ores are polymetallic. The ratio of copper, zinc and lead is 1.02:4.5:1. Three types of ores are distinguished: lead-zinc, copper-zinc, copper- pyrrhotite. The average lead content is 1.0%, zinc - 4.9%, copper - 1.8%, gold - 1.09 g / t, silver - 76 g / t. Ore composition: pyrite, sphalerite, chalcopyrite, galena, pyrrhotite, fahlore, melnikovite -pyrite, arsenopyrite, bournonite, magnetite, quartz, dolomite, ankerite, sericite, albite, breunnerite. Trace elements: gold, silver, cadmium, indium, selenium, tellurium. Ore textures: massive, banded, disseminated. Wall-ore alterations: silicification, chloritization, sericitization, dolomitization. The oxidation zone is developed to a depth of 40-50 m. Monheimite, malachite, azurite, limonite, smithsonite, cerussite, jarosite, cuprite, chrysocolla, gold, etc. are widespread in it. The zone of secondary sulphide enrichment is traced to a depth of 60-80 m. It contains chalcocite, covellite, argentite, marcasite, etc. Degree of development: the deposit is reserve.



Extract from the state inventory records as of 01.01.2024.		
Useful component	Balance reserves	Off-balance sheet reserves
copper	A+B+C1 – 0.1 thousand tons, C2 – 1.8 thousand tons	0.1 thousand tons
silver	-	0.6 tons
lead	A+B+C1 – 0.4 thousand tons, C2 – 0.1 thousand tons	0.1 thousand tons
	A+B+C1 – 0.8 thousand tons, C2 – 4.9	

- territory included in the State Natural Resources and Natural Resources Act for solid mineral extraction (Berezovskoye field), for further auction
- licenses for GIN
- settlements and buffer zones s. Verkhneberezovskiy
- buffer zone of the cattle burial ground
- river