

Chelak -Karasu deposit

Karaganda region

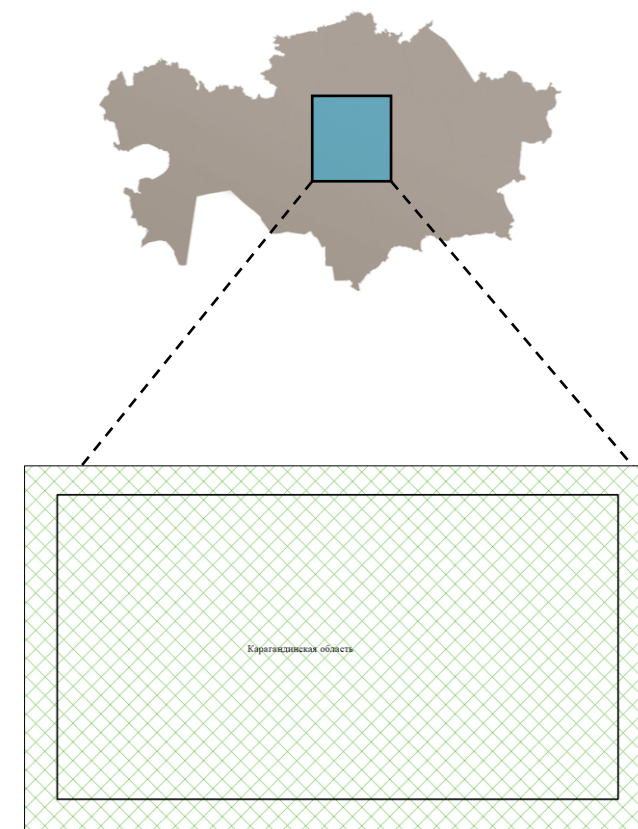
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Location: The Chelak -Karasu barite deposit is located in the Osakarovsky district of the Karaganda region, 43 km north of the Molodezhny workers' settlement and 5.5 km northwest of the Rodnikovsky settlement. The site is located 150 km northeast of Karaganda .



Brief geological characteristics: In 1957–1959, the deposit was evaluated by the Maykainskaya geological exploration expedition for gold-silver mineralization by digging trenches, shallow pits, and individual boreholes. As a result of these works, two barite veins were identified and traced, of which vein No. 1 is the most persistent. Based on the exploration work, it was concluded that the barite ore bodies wedged out at a depth of 30–40 m, and the gold and silver contents in them did not reach industrial values.

The quality of barite ores explored at the Chelak -Karasu deposit has been studied using 14 routine samples. Given the high content of barite in the ore and the insignificant amount of harmful impurities, it was decided to evaluate the quality of barite ores according to the requirements for the quality of barite concentrate (GOST 4682–84), i.e. to consider barite ores of vein No. 1 as natural barite concentrate.

In terms of barite content in the ore in individual ore intersections, in the calculation blocks and in vein No. 1 as a whole, the ore corresponds to the KB-2 grade (not less than 92%). In terms of the content of harmful impurities - iron oxide, water-soluble salts, silicon dioxide and the reaction of the aqueous extract - the ore corresponds to the KB-1 class A grade. In terms of the content of the sum of calcium and magnesium in terms of calcium oxide, the ore corresponds to the KB-2 class A grade. In terms of the total compliance with quality requirements, the barite ores of vein No. 1 are classified as natural barite concentrates of the KB-2 class A grade.



| Extract from the state inventory records as of 01.01.2024. | | |
|--|------------------------|----------------------------|
| Useful component | Balance reserves | Off-balance sheet reserves |
| barite | C2 – 8.0 thousand tons | - |

-  - the outline of the Chelak -Karasu deposit, included in the PUGFN for solid mineral extraction, for auction
-  - license for GIN