TREATMENT OF HARDLY CONCENTRATED POLYMETALLIC FILIZCHAY ORE BY THE COMBINED METHODS

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The Filizchay hardly concentrated ore is characterized by thin mutual accretion of minerals that considerably complicate their concentration by flotation.

The problem of treatment this ores be able to solve only by used combined method, including pyrrhotitite roasting of initial material with extraction of elementary sulphur and obtained of roasts for the autoclave oxidizing leaching.

In this work presents the technology figures of pyrrhotitite roasting of initial material, carried out in different media (inert, hydrogen, CO$_2$ and product of absolute burnt CH$_4$), and autoclave oxidizing leaching of pyrrhotitite product by sulphureous anhydride.

There were grounded conditions of ore roasting and leaching of roast with extraction of iron into solution (with future obtained pure salt of iron as goods product) and non-ferrous metals in sulphid cake, where they are considerably concentrated.

Obtaining of elementary sulphur by two operation also except environment pollution.