EFFECT OF TEMPERATURE ON KINETICS OF LEACHING POLYMETALLIC SULPHIDE CONCENTRATES FROM KONI MANSUR DEPOSIT

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After acquiring its independence and relative economic stability the Republic of Tajikistan, with 93% of its territory covered by mountainous terrain, faced the need to develop the mining industry and focus on local sources for raw materials, especially by strategic implementation of international agreements and meeting government requirements for environmental protection. Addressing these problems is possible through the creation of scientific grounds for processing existing resources and on their basis - development of efficient and environmentally friendly technologies, providing a complete and differential extraction of valuable components from the metal concentrates.

Most concentrates obtained from the Koni Mansur deposit in Tajikistan are inherently complex. Adrasman Ore Enrichment Plant (AOEP) processes raw ore from Koni Mansur deposit and produces polymetalic concentrates through flotation method, the mineralogical composition of which is shown in Fig.1. As seen from the table galena (PbS2) makes up about 68% of the concentrate. The development of efficient and environmentally friendly technologies would allow production of the metalic lead and its salts in this plant.