

Pilot Mill Flotation of Serpentinized Platinum-Palladium Ore From the Stillwater Complex.

s.n - Pilot mill flotation of serpentinized platinum



Description: -

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Report of investigations (United States. Bureau of Mines) --
8885Pilot Mill Flotation of Serpentinized Platinum-Palladium Ore
From the Stillwater Complex.

Notes: 1

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Recovering Platinum and Palladium at Stillwater

Flotation with MBT collector resulted in a higher grade concentrate than that obtained with diethyl xanthogen formate.

Pilot mill flotation of serpentinized platinum

To obtain the desired pulp pH of 3. The required amount of MBT collector was also added. The xanthate collectors tested were sodium isobutyl AERO 317 , sodium isopropyl AERO 343 , potassium ethyl Z-3 , potassium amyl AERO 350 , and sodium secondary butyl Z-12.

Platinum & Palladium Ore Flotation Pilot Plant

Results obtained with a concentrate from flotation using AERO 317-Pennfloat 3 are shown in table 4. These collectors were also evaluated to determine the effect of the amount of xanthate added on flotation.

Recovery of Platinum

Conditions were the same as those used in the bench-scale cleaner flotation tests.

US Bureau of Mines

The pilot mill was described in a previous report on flotation of anorthositic platinum-palladium ore from the Stillwater Complex. A platinum-palladium bearing sulfide horizon occurring within a lower anorthosite member of the Banded Zone is being explored by Johns-Manville Corp.

Recovering Platinum and Palladium at Stillwater

TDL was chosen instead of Minflo I because of its greater solubility in water. Likewise, an increase in concentrate grade was obtained by floating

at 20 pct rather than 40 pct solids, but Pt-Pd recovery decreased. The data show that the impurity levels in both concentrates are low.

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