

# Recovery of platinum-group metals from Stillwater Complex, Mont., flotation concentrates by matte smelting and leaching

U.S. Dept. of the Interior, Bureau of Mines - Recovering Platinum and Palladium at Stillwater

Description: -

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German language -- Dialects -- Hesse.

Leaching.

Mattes.

Platinum group -- Metallurgy. Recovery of platinum-group metals from Stillwater Complex, Mont., flotation concentrates by matte smelting and leaching

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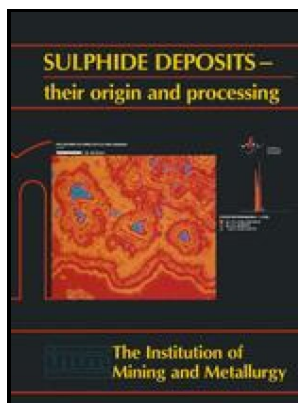
Report of investigations (United States. Bureau of Mines) ;

8717

Report of investigations / United States Department of the Interior, Bureau of Mines ; Recovery of platinum-group metals from Stillwater Complex, Mont., flotation concentrates by matte smelting and leaching

Notes: Bibliography: p. 15.

This edition was published in 1982



Filesize: 37.103 MB

Tags: #Browse #subject: #Platinum #group

US4337226A

The solids were repulped with fresh water and then subjected to flotation. The solution was sampled after 120 minutes. Without this palladium-platinum supply, the United States will continue to import most of its primary platinum-group metals in the future.

## Recovery of platinum group metals from oxide ores—TML Process

More than 95% of the precious metals reported to the matte phase during smelting. The material may be considered for use as a raw material for the manufacture of portland cement or a source material for producing alumina.

WO2004090178A1

The erection of new smelters to process PGM containing flotation concentrates has been significantly curtailed in recent years and has all but now been stopped due to very strict environmental legislation and prohibitively high capital costs. Since its start-up in early 1987, the Stillwater platinum and palladium mining and recovery operation in Montana has attracted the attention of extractive metallurgists nationwide.

## US Bureau of Mines

The copper powder contained 140 mg of palladium, 40 mg platinum, and 1. The PGM values are recovered by passing the solution through anionic ion exchange resin columns and followed by elution or alternatively ashing the resins. In other tests, a modified procedure was used in which the pulp was conditioned with 22 lb H<sub>2</sub>SO<sub>4</sub> per ton of ore, the solids settled, and the supernatant decanted.

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