

Preparation of Platinum-Palladium Flotation Concentrate From Stillwater Complex Ore.

s.n - Stillwater and East Boulder Platinum and Palladium Mine, Montana, USA

TABLE 2. - Effect of xanthate collectors on rougher flotation

Xanthate, lb per ton of ore	Analysis, oz/ton		Recovery pct	
	Pt	Pd	Pt	Pd
AERO 350:				
0.2.....	1.1	2.9	64	54
0.3.....	1.2	2.9	81	65
0.4.....	1.0	2.5	84	68
AERO 355:				
0.2.....	1.1	2.6	83	63
0.3.....	1.1	2.7	89	76
0.4.....	.9	2.6	91	83
AERO 317:				
0.2.....	1.0	2.5	81	65
0.3.....	1.1	2.7	88	75
0.4.....	.9	2.5	89	78

Description: -

-Preparation of Platinum-Palladium Flotation Concentrate From Stillwater Complex Ore.

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

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Stillwater Complex Ore.

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Recovering Platinum and Palladium at Stillwater

Bureau of Mines investigated methods for beneficiating and recovering platinum-group metals PGM from ores found in the Stillwater Complex, the only primary resource of platinum-group metals located in the United States.

Platinum is produced in South Africa by Amplats, Impala Platinum, Lonrho Platinum, and Northam Platinum

The platinum occurs in the Sudbury copper-nickel ore as sperrylite, embedded in chalcopyrite.

Stillwater Mining Co. Minn.Adit Prj

The other large deposit is the metals deposit within the. Stillwater and East Boulder mines began production in 1986 and 2002, respectively. The flotation operation can be susceptible to significant losses of PGMs to the tails and must be carefully monitored and controlled to minimize such losses.

Preparation of Platinum

The mineral resources of the Bushveld Complex.

Photos of Natural Platinum Ore, Platinum and Palladium ore minerals and specimens

Examples of PGM non-sulfide minerals include sperrylite Pt 4As 2 , moncheite PtTe 2 , platinum-iron alloys e.

Concentration Of Platinum Group Metals With Flotation

The mine has adits and laterals driven in from the Stillwater Valley side. When a sheet silicate mineral depressant reagent is added, it is preferably

added in a fourth conditioning step following addition of the xanthate collector reagent. At any higher ratio, the becomes.

SENS: Sibanye announces the acquisition of the Rustenburg mining and concentrating operations from Anglo American Platinum Limited

The ore material fed to the flotation can be the ore as initially comminuted and sized for flotation operations, or can be a product of a prior mineral processing operation. The ore material processed with the method of the present invention will include a quantity of platinum group metal with sufficient value to permit commercial mining and processing to recover platinum group metal. PGM smelting in South Africa takes place exclusively in electric furnaces at present.

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