

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

## s.n - Platinum

TABLE 13. - Analysis of rougher flotation products from AERO 317-Pennfloat 3 campaign			
	Conditioning tank discharge	Concentrate	Tailing
Analysis, oz/ton:			
Pt.....	0.10	1.7	0.005
Pd.....	0.36	4.7	0.050
Rh.....	0.004	0.046	0.002
Ir.....	0.002	0.031	0.001
Au.....	0.010	0.10	<0.001
Analysis, pct:			
Cu.....	0.03	0.31	0.01
Mn.....	0.06	0.45	0.03
Fe.....	4.7	6.9	4.1
Sulfide sulfur...	0.12	1.5	0.03
Sulfate sulfur...	0.02	0.02	0.02
SiO <sub>2</sub> .....	46.2	44.9	49.0
MgO.....	11.0	15.1	6.7
Al <sub>2</sub> O <sub>3</sub> .....	19.0	15.2	20.4
CaO.....	12.0	6.7	10.5

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

This edition was published in 1983



Filesize: 22.48 MB

Tags: #Pilot #mill #flotation #of #serpentinized #platinum

## Platinum

Differential segregation and crystal settling of different magmatic minerals resulted in a sequence of sedimentary-like layers or bands totaling about 25,000 feet in exposed thickness.

## US Bureau of Mines

The following experimental conditions were used: solids content, 40 pct; amount of collector, 0.

## Platinum & Palladium Ore Flotation Pilot Plant

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## Pilot mill flotation of serpentinized platinum

The tenor of a Stillwater rougher concentrate is compared in table 7 with values reported for a flotation cleaner concentrate produced at a Merensky Reef concentrator, Republic of South Africa.

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