

Characteristics study of Muarabungo gold concentration by jig, shaking table, and sluice box

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Abstrak

The mineralogy and low grade nature of gold ore from Muarabungo provides a good sample for laboratory experiments. Microscopic studies show that the Muarabungo gold deposit consists of sulfides, oxides, and gold particles. Pyrite and chalcopyrite represent the sulfide minerals and ilmenite, magnetite, zircon, as well as quartz and oxides. Gold processing from Muarabungo ores had been conducted using gravity concentration. The experiments using cleaner concentrates as the feed are able to rise the grade up to 390.02 g/t Au with the recovery of 82.54%.