

Some aspects of the petrography and rock chemistry of Gunung Parang and Gunung Bongkok intrusive rocks and the possible occurrence of sulfide ores bearing mineralization

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Abstrak

The intrusive rocks of Gunung Parang and Gunung Bongkok appear to be boss shape. The intrusion lie physiographically at the Bogor zone, Purwakarta area, West Java. Petrographic features show that the rocks have good porphyritic textures, and primary minerals of plagioclase, pyroxene, and hornblende as phenocryst are in groundmass made of crystallites plagioclase. This ranges from calcic andesine, and subordinate sodic to calcic labradorite, especially in the intrusive rocks of Gunung Bongkok. Chemical analyses reveal that the parent magma of these rocks is high-alumina basalt derived from olivine tholeiites fractionation at the depth of 44 km and the temperature 1066 degree Celcius while the depth of parent magma is calculated about 175 km to the depth of the undergoing Benioff zone.