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BATUAN VOLKANIK FORMASI SEMANTAN DI SEKITAR GUNUNG BENOM

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ABSTRAK : Batuan volkanik Formasi Semantan yang terdapat di sekitar Gunung Benom telah dikaji secara petrografi dan geokimia untuk mengetahui kandungan mineral dan jujukan penghabluran yang berlaku. Tiga jenis batuan dikenali sebagai tuf riolit, tuf riolit porfiri kuarza dan trakit-andesit telah dijumpai. Kajian petrografi menunjukkan ketiga-tiga batuan mempunyai tekstur batuan yang berbeza, iaitu tuf riolit bersaiz hampir sama butiran dengan saiz halus, tuf riolit porfiri kuarza bertekstur porfiri sangat baik dengan taburan saiz bimodal yang jelas dan trakit-andesit bertekstur porfiri agak jelas dengan pelbagai saiz mineral mewujudkan tekstur seriat. Geokimia menunjukkan batuan ini dikelaskan sebagai siri sub-alkali atau tholitik.

ABSTRACT: Volcanic rock within the Semantan Formation at the vicinity of Gunung Benom has been study through petrographic and geochemistry to reveal their mineral composition and sequence of crystallization. Three rock types are defined as rhyollite tuff, quartz phorphyritic rhyollite tuff and trachy-andesite was found. The petrographic study shows that all rocks has a different texture, which is rhyollite tuff shows an isogranular texture with fine grain-sized distribution, quartz phorphyritic rhyollite tuff shows the excellent phorphyritic texture with clear distinction into a bimodal size distribution and trachy-andesite depicted the moderate phorphyritic texture with the seriat texture shows by various grain-size mineral distribution. The geochemistry indicated that this rock can be classified as sub-alkali series or thioelite series.