

Field Relations and Petrochemistry of the Jeli Igneous Complex, North Kelantan: Preliminary Observations

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The Jeli Igneous Complex is located about 1 km north of Jeli town, Kelantan which is part of the Jeli granite. Four main rock types occur in the area namely (in decreasing age) coarse grained foliated biotite granite (CFBG), grey microgranite (GM), medium grained foliated biotite granite (MFBG), and hornblende biotite basaltic dyke (HBBD). The field evidence suggests that both GM and MFBG magmas are synplutonic. The CFBG, MFBG and GM consists of typical granitic (s.l) mineral that is quartz, plagioclase, K-feldspar, biotite, zircon, apatite, sphene, allanite and opaque phase whereas the HBBD contains hornblende, quartz, plagioclase, biotite, apatite, sphene and opaque phases. Petrographic study shows that the rocks in the area have undergone both magmatic and high temperature solid-state deformation.
