

**Title :** Petrography of Intrusive Rocks at Ban Wang Ta Kian, Wang Nam Khaw Subdistrict, Bandanlanhoi District, Sukhothai Province

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## ABSTRACT

This study examines 15 intrusive rock samples from Khao Thon, Ban Wang Ta Kian, Wang Nam Khaw Subdistrict, Ban Dan Lan Hoi District, Sukhothai Province, focusing on petrographic characteristics and lithological classification using a polarizing microscope. The rocks, distributed along the Chiang Khong–Lampang–Tak volcanic belt from the Permian–Triassic period, are classified into three types: (1) Mylonitic granite (7 samples) with quartz showing fracturing due to shear, silicification leading to polycrystalline quartz, plagioclase altered to sericite, and muscovite as a accessory mineral; (2) Granite (5 samples) with quartz exhibiting undulose extinction, sericitized plagioclase, and muscovite as a accessory mineral; and (3) Silicified rock (3 samples), where silicification has altered the original rock, making its primary lithological characteristics unidentifiable. This classification provides insights into the intrusive rock characteristics in the study area, contributing to regional geological interpretations.

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