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**SEDIMENTOLOGY AND STRUCTURAL GEOLOGY OF JURASSIC-
CRETACEOUS MANGKING SANDSTONE AT SIMPANG JENKA 8, KOTA
GELANGGI, JERANTUT, PAHANG**

Lee Chai Peng & Sharon Khor Suyin

Department of Geology, University of Malaya 50603 Kuala Lumpur.

ABSTRACT

The study area is a housing development at Simpang Jenka 8 Kota Gelanggi, located at 3.881°N and 102.488°E, about 20 km east of Jerantut in the central Pahang, Peninsular

Malaysia. The area is underlain by continental characterised red bed sequences of the Jurassic-Cretaceous Mangking Sandstone of the Tembeling Group. Lithofacies analysis and plant fossils *Sagenopteris* sp. and *Neocalamites* sp. show that the depositional environment was within a meandering river system in an alluvial fan setting. Active volcanism during deposition was suggested by volcanoclastic conglomerates. Abrupt lateral changes in the lithofacies suggest that the study area is composed of two separate blocks: a chaotic slump facies in the west and a stable depositional facies in the east. Extension and tectonic tilting created the basin for sedimentation. Rapid subsidence during sedimentation created syn-sedimentary structures such as penecontemporaneous slumps and syn-sedimentary faults. Rapid lateral changes took place by channel shifting during sedimentation. Younger compressional structures such as thrust faults are prominent implying that the strata were subjected to post depositional compression after the Late Cretaceous sedimentation.