
Relationship and depositional setting of the Lanis Conglomerate, Mangkin Sandstone and Termus Shale of the Tembeling Group in Tekai Valley, Pahang

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The Tembeling Group in Tekai Valley, Pahang, now considered to be made up of only three formations, consists of conglomerate-dominant Lanis Conglomerate, sandstone-dominant Mangkin Sandstone, and mudstone-dominant Termus Shale.

The Lanis Conglomerate consists dominantly of 1 to 3 m thick, internally massive-bedded, very poorly sorted, grossly upward-fining, angular-grained conglomerate to sandstone beds, with subordinate massive-bedded sandstone with conglomerate lenses, and minor reddish-purple mudstone. The Mangkin Sandstone consists of repeated upward-fining, dominantly medium scaled tabular and trough cross-bedded sandstones, minor laminated sandstones, subordinate reddish-purple mudstone and minor conglomerate. The Termus Shale consists dominantly of reddish-purple mudstone, and minor thinly, parallel laminated sandstones.

The Lanis Conglomerate, Mangkin Sandstone and Termus Shale are interpreted to represent coarse-grained fan-delta (alluvial fan), low-sinuosity fluvial and floodplain sequence respectively, and are in lateral facies relationship.

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