

Title : Microfacies and Depositional Environment of Limestone at Ban Hai, Pong Don Subdistrict, Chae Hom District, Lampang Province

Author(s) : 1. Thamonwan Na Ranong
2.
3.

Student ID : 640510423

Student ID :

Student ID :

Major : Geology

Advisor(s) : 1. Dr. Kritsada Moonpa
2.
3.

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ABSTRACT

The limestone widely exposed in the eastern area of Ban Hai, Pong Don Subdistrict, Chae Hom District, Lampang Province, exhibits a karst topography characterized by alternating high and low mountain ranges. During the fieldwork in the 205410 course, the age of the limestone in the study area had not yet been determined. This study focuses on petrography, microfacies classification, and the depositional environment of the limestone. Fifteen rock samples were collected from the study area to examine and classify the microfacies and lithological characteristics under a polarizing microscope. The limestone classification schemes of Dunham (1962) and Folk (1962) were used to study the mineral components and characteristics along with the standard microfacies (SMF) of Wilson (1975). Five main microfacies types: Oolitic packstone, Oncoidal packstone, Peloidal packstone, Bioclastic grainstone, and Microbial boundstone, are identified. The allochem components include ooids, oncoids, peloids, bioclastic fragments, and fossilized remains, including fusulinids, which indicate a Permian age. Based on lithological characteristics,

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petrography, and microfacies analysis, the depositional environment of the limestone in the study area corresponds to a shallow marine continental shelf setting, consisting of a well-developed lagoon, small-scale reefs, and an oolitic shoal.

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