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Lithofacies and Paleogeography of Potassium-bearing
Strata in Vientiane Plane of Laos

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Abstract:The Kalium-magnesium deposits in Vientiane plain of Laos mainly exist in the lower segment of Thangon and the subsegment of salt-gypsum beds(E_{1tg}^{1-1}). After the analysis of rock association, sedimentary structure, rock characteristics and the formation thickness of 6 measured geological profiles and 53 drilling holes, its paleogeography has followed features: ①The potassium-bearing strata can be divided into four sub-phases, they are semi-deep lake, shallow lake, lakeshore, lake delta; and lakeshore subphase can be further divided into inner part and outer zone. ② Kalium-magnesium deposits exist in semi-deep lake subphase, shallow lake subphase, lakeshore subphase and lake delta subphase, the former one has larger thickness. ③The Vientiane Basin is asymmetric with its deeper east and shallower west, and its paleogeography characteristics is similar extremely to nowadays. ④In the deposition proses, basin basement deceased continuously until gradually it tended to be stable. Brine is desalinated rapidly from it concentrated gradually, paleoclimate gets damp-heat and rainy from its early drying and hot, water changes from weak reduction to weak oxidation.

Key words:Laos; Vientiane plain; Potassium-bearing strata; Sedimentary lithofacies paleogeography

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