

Viking Lowstand Deposits in West Central Saskatchewan: Depositional Model for the Reservoir Units in Dodsland-Hoosier Area, Saskatchewan, Canada

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Abstract

The Late Albian Viking Formation is a rare example of an ancient marine deposit that can be traced and internally subdivided across a foreland basin, and as such provides a unique opportunity to contrast deposition under variable rates of subsidence, accommodation space and sediment supply. There have been numerous studies that have focused on the allostratigraphic relationships and depositional history of the Viking Formation in Alberta, however, published studies of the Viking Formation in Saskatchewan are comparatively very few. The purpose of this study is to develop a regional allostratigraphic framework for Saskatchewan that is consistent with and complements the allostratigraphic framework developed for Alberta to evaluate the depositional history of the Viking deposits.