

## **Exploration groundwork at Michichi (Mississippian stratigraphic architecture), Alberta Canada**

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The Banff Formation of Southern Alberta is a Mississippian carbonate ramp deposit that has compelling oil and gas potential. Accordingly, the Banff Formation has been a focal point for exploration and development projects in the Western Canada Sedimentary Basin. Exploration groundwork involving the characterization of the sequence stratigraphic architecture of the Banff Formation was needed to extend Husky Energy's active development areas in Michichi, Alberta. Husky's exploration team had previously developed a core-based depositional facies model within a sequence stratigraphic framework for their active Michichi assets. The central objective of the present research was to build on this depositional facies model so that it fits the observed geology of the Banff Formation to the west of the active assets. The surrounding geology was assessed by direct observation of select drill core, typing core to wire-line well logs, correlating wells in a regional cross-section network, and producing isopach maps of the reservoir facies. The reservoir facies maps represent new play fairways and enhance the capacity to make informed bids on open crown land and to potentially extend Husky's active development in Michichi, Alberta.