Hydrocarbon Potential of the Bakken Formation, Southeastern Saskatchewan

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Upper Devonian to Lower Mississippian Bakken Formation shales in the Williston Basin are rich source rocks that are believed to have generated and expelled at least 16 billion m³ (100 billion barrels) of light oil (~400 API), but only a small fraction of this Bakken-sourced oil has been identified in, or produced from, Williston Basin reservoirs. Over the past few years, multi-fractured horizontal well completions and large sand-fracture completions in low-permeability reservoirs have resulted in significant new Bakken production in the Williston Basin. Careful examination of cores, geophysical logs and production data indicates a high potential for further development through horizontal completions in low-permeability by-passed pay that typically shows low resistivity and in undiscovered reservoir sandstones of the Middle Member of the Bakken Formation in southeastern Saskatchewan.

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