

# Evaluating Production Performance from Horizontal Well Refracs in Saskatchewan

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## *Abstract*

*Refracking is the process of performing a hydraulic fracture stimulation treatment on a well that has previously been hydraulically fractured. This can be done with the objective of fracturing a new interval within the well, fracturing a previously attempted interval, or a combination of both objectives. The major advantage of this process is that recompleting a well can be done at a fraction of the cost of a drilling a new well, and in some cases the production rate following the refrac has met or even exceeded the initial well production rate. Refracking stimulations have been attempted in unconventional reservoirs both in Canada and the United States.*

*The focus of this study is the performance of refractured horizontal wells in Saskatchewan, and how successful or unsuccessful they have been. This study was done through the use of publically available data from the Canadian Discovery frac database, and GeoScout. Well production data, well production rates and well cumulative recoveries before and after the refrac completion were compared and evaluated to determine the level of success of the recompletion. In addition, the data was broken down by formation in which the restimulation was attempted to determine which formations showed more potential for successful refrac completions. The majority of the analyzed refrac completions were completed in the Bakken fields in the southeastern Saskatchewan and the Viking fields in the west-central area of the province.*

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