

## Productivity and Recovery: Type Curves and EURs in the Northern Williston Basin

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### Summary

Canadian Discovery (CDL) has developed type curves for each of the major unconventional plays in the Western Canada Sedimentary Basin (WCSB), which includes the northern (Canadian) part of the Williston Basin. The Midale, Frobisher, Alida, Bakken and Torquay plays are highlighted in this analysis. There is a wide spectrum of ultimate recovery, both within plays and between plays.

### Theory and Method

Type curves were generated using the SPEE and USGS probabilistic type curve methodology. Each producing well is matched to one of these type curves to generate its estimated ultimate recovery (EUR).

CDL has mapped EUR data for individual wells to illustrate high recoveries and trends through each resource play. The difference between the EUR and cumulative production provides an estimate of remaining recoverable oil. Mapping remaining recoverable oil provides an indication of the areas that hold promise for future operations.

### Conclusions

The talk will briefly outline the methodology behind developing the type curves and forecasting the EURs to map both the a) EURs and b) estimated remaining recoverable oil for the highlighted plays in the Canadian portion of the Williston Basin. The spectrum of results within and between plays and some of the reasons behind these results will be discussed.