

Montney Regional Hydrodynamics Study Phase III

A Key Perspective

Introduction

The Montney has become, by far, the largest contributor to new gas and now contributes 34% of WCSB gas production (approximately 7 bcf/d). Perhaps more importantly, liquids production from the Montney (oil, condensate and NGLs) has risen from 70,000 to 150,000 bopd, significantly changing the economics of the play. Since Canadian Discovery Ltd.'s (CDL) 2014 Montney Hydrodynamics Study release, over 3,500 new wells have been completed in the Montney and significant new production fairways are being delineated, particularly in liquids-rich areas. CDL's recently completed 2019 study incorporates all available new data with data from our previous studies to provide fresh insights into the hydrodynamic and geothermic factors controlling these production trends, as well as potential new fairways.

Hydrodynamics: Key to Unlocking the Montney

CDL Hydrodynamics, respected for over 30 years of innovation, examines the relationships between pressure, and hydrocarbon fluid chemistry in the Montney reservoir. CDL's established work flow and quality data analysis of these key attributes provides critical insights for existing and future acreage holders.

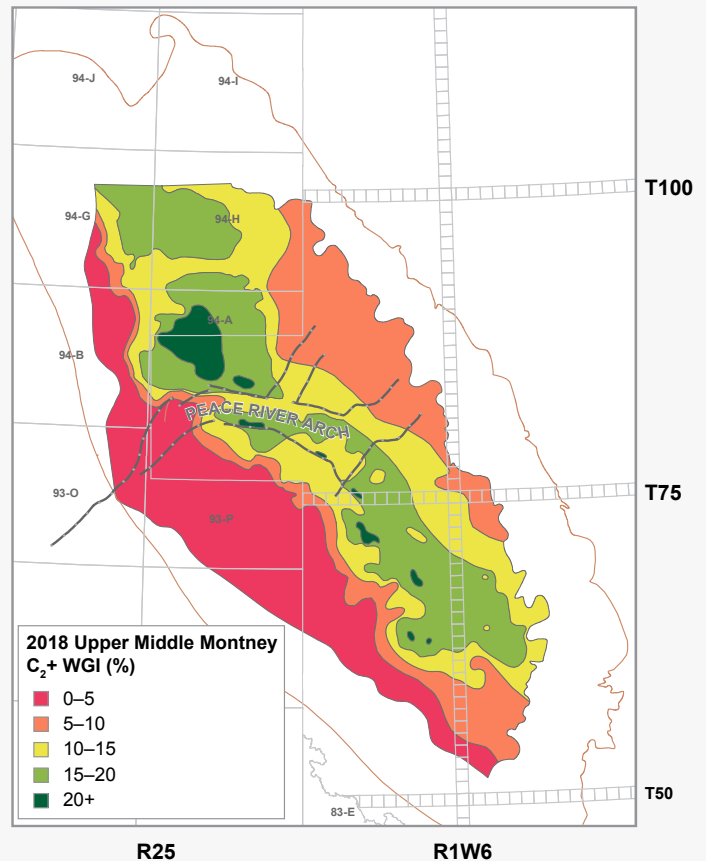
- » **Understand**—the variances in pressures and temperature across your area and offset lands and how this may impact the hydrocarbons in the reservoir
- » **Predict**—extension of liquids-rich gas and oil fairways that are, as yet, under-recognized
- » **Reduce**—risk associated with acquisitions or entering new areas by having the big picture

How will an update help me?

With over 8,500 wells drilled on the play to date and established land positions, one might think that the industry "has it all figured out." However, the Montney continues to surprise and yield value. As the early industry focus evolved from dry gas to liquids-rich gas primarily through technological evolution, it was restricted to the higher pressure and temperature fairways. Continuing technological evolution, through increased frac stages, perf clusters and variations in proppant and fluid design, are opening up the ultra-liquids-rich gas, volatile oil and black oil fairways. The new data and learnings are key to understanding where and why these areas occur and their potential extents.

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Wet Gas Index Map

Deliverables

Major deliverables include:

- » Pressure/Depth Ratio Maps and Graphs
- » Estimated Absolute Pressure Maps
- » Pressure Test Database
- » Geothermal Gradient Map
- » Isotherm Maps
- » Temperature/Depth Graphs
- » Temperature/Pressure Graphs
- » Wet Gas Index and H₂S Maps
- » API Maps
- » TDS Maps
- » Regional Cross-Sections
- » Play Summary Maps
- » Illustrated Technical Report
- » Shapefiles and Excel Files

Purchase Details

Previous MRHS client \$30,000[†]
New client \$42,500[†]

[†] plus applicable taxes

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