

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. As more wells are completed in the Montney (over 3,500 since CDL's 2014 Montney Hydrodynamics release), significant new production fairways are being delineated, especially in liquids-rich areas. This 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 play

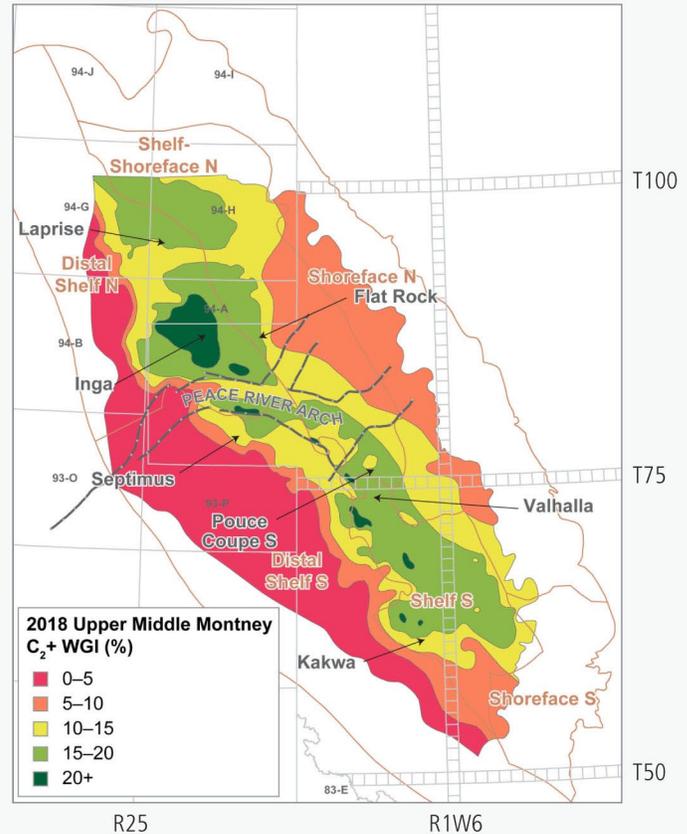
CDL Hydrodynamics, respected for over 30 years of innovation, examines the relationships between pressure, temperature and compositional variation of the hydrocarbons in the reservoir. Our established work flow and quality data analysis of these key attributes enhances early mover advantage and provides critical insight for your existing acreage:

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

Purchase Details

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

[†] plus applicable taxes