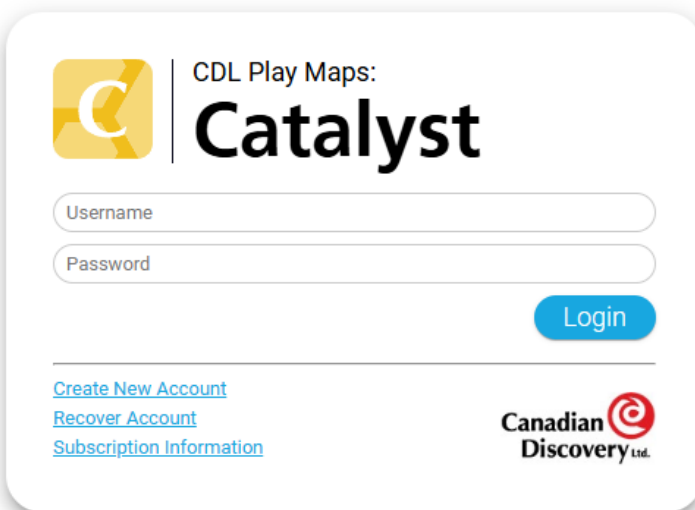


CATALYST QUICK START GUIDE

CDL ONE is Canadian Discovery's premier subscription offering, providing industry-leading intelligence that allows you to learn, evaluate and lead. We are excited to introduce the new **Catalyst**, an access point for **CDL ONE** data directly through your web browser. While new **Catalyst** maintains some of the look and feel of our previous online data platform that hosted Play Metrics and the CDL Fluid Dynamics database, it contains brand new datasets and features, including the dataset for our newly released **CDL Play Maps**.

How to Log In

The new Catalyst can be accessed through the following [link](#).



Enter your username and password in the login window.

Upon login, four panels are displayed on the screen. A **Search Panel** (upper left), a **Well Results Panel** (upper right); a **Chart Panel** (lower right) and a **Map Panel** (lower left).

Overview of the New Features

- Select, export and interpret pressure, temperature and fluid chemistry data from CDL Play Maps
- Explore the new liquids production panel summarizing the natural gas liquids and marketable gas production volumes from the Alberta Energy Regulator and BC Energy Regulator

- Access production decline curves and forecasts on most horizontal wells, with liquids production data included for the Montney, Duvernay and Spirit River
- P10-P50-P90 Type-Well Curves within Type Curve Areas, including a revised P50 type-well curve focused on recent drilling
- Ability to create and export a customized average type-well curve for selected well lists using decline curves and forecasts

How to Learn About the New Features

In addition to this Quick Start document, this documentation package contains two quick tutorials that will help walk users through features of each panel, general software navigation and the new datasets and features available. Each tutorial contains some similarities explaining key features but focuses on different user workflows and data types. Although we suggest going through both tutorials to get a full view of the analyses that can be done in Catalyst, choose the tutorial that best suits your evaluation needs.

Quick Tutorial – Liquids Data – Montney

This tutorial uses the NGL and marketable gas production dataset and is focused on the Montney (similar workflows would be used in Spirit River and Duvernay). Explore the difference between this liquids dataset and reported production datasets and their well ticket displays; create a bar chart; use “Group By” in the well results panel; learn about CDL detailed plays and type curve areas; create and export average well declines with liquids curves; save and load templates; search for and export CDL Play Maps data to examine pressure, temperature and gas chemistry regimes.

Quick Tutorial – Production Data – Viking

This tutorial walks through the evaluation of an operator’s assets using publicly reported production data. Explore the difference between the liquids dataset and production datasets and their well ticket displays; create a line chart; use “Group By” in the well results panel; learn about CDL detailed plays and type curve areas; create and export average well declines for localized areas within the Viking targeted by a specific operator; step back and summarize all zones targeted by the operator; evaluate the operator’s recent changes in drilling trends using pie charts; summarize a company’s daily average production (by zone and total); save and load templates.

Detailed Documentation

After reviewing the tutorials, there may be additional questions that arise regarding the production decline curve analysis (DCA) or the calculation of estimated ultimate recoveries (EURs) in Catalyst. These should be addressed in the **Catalyst DCA and EUR Documentation**

file. Questions arising regarding specific columns in Catalyst - for example the source of the data or a calculation methodology – can be found in the ***Catalyst Data Fields and Definitions*** file.

Changes from Previous Versions

Users who accessed CDL's previous online software (***Play Metrics***) may notice certain exclusions in the current version of the Catalyst software. Improved versions of some of these features are planned for future releases of Catalyst, while others are currently being evaluated for their feasibility. See below for more details or reach out to learn more.

Operator Summary

Previously, when clicking on the Operator hyperlink in the search results panel in Play Metrics, a summary plot would be generated for the operator with type curve areas on the y-axis and type curve tiers on the X-axis. CDL is currently working on a new, more accurate version of this plot using percentiles that will be available in the next release of Catalyst.

Detailed Play Tickets

When clicking on the Detailed Play hyperlink in Play Metrics, a summary of the detailed play could previously be accessed which included a map, schematic cross-section and write-up. CDL is currently updating these play summaries and improving the access mechanism for the play summaries in the new Catalyst; these summaries will be available in a future release.

Type Curve Tier Economic Parameters

Previously in Play Metrics, when selecting a Type Curve Tier Name, a set of economic parameters could be accessed. For these calculations to be accurate, the most recent price decks are needed, and certain proprietary cost parameters should be included in the calculations. CDL is currently exploring some additional avenues for providing access to comparative economics, including consulting services using in-house software. Should you need more economics support for your daily workflow using Catalyst, contact CDL to discuss options, so that CDL can provide solutions that have the most value for our clients.