

ProPerIntel – A Data-Driven Diagnostic Platform

Production Performance Intelligence (ProPerIntel), developed by DeGolyer and MacNaughton, is an evergreen platform for analyzing and forecasting well and field performance.

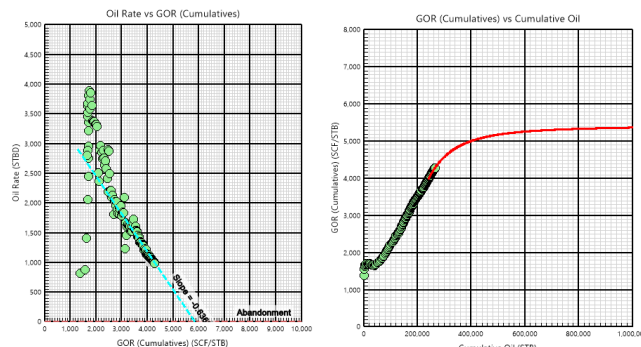
Key Features

- + Production Diagnostics**
Identify trends, flow regimes and characteristic well behavior.
- + Production Forecasting**
Perform advanced decline curve analysis using time-rate-pressure data.
- + Flexible Multiphase Analysis**
Apply data-driven methods to analyze and forecast secondary phase and ratio trends.
- + Type Well Profiles**
Construct type well profiles based on characteristic behavior and export to economic software.
- + Automated Forecasts**
Utilize *qDb* methodology to forecast 1000's of wells instantaneously.
- + Data/model shifting**
Perform data and model shifting to correlate productivity.
- + Derivatives**
Calculate derivatives with better resolution to identify decline trends.
- + Statistics**
Establish statistical curves to analyze/compare well groupings.
- + Performance Based Metrics**
Monitor well performance, identify impacts of well spacing and completions using performance based metrics.
- + Data Quality Control**
Verify pressure/rate inconsistency, identify well events, perform filtering for derivative calculations.
- + Multi-well Comparisons**
Comparison of multiple wells and well groupings for comprehensive evaluation of field performance.
- + Data Import**
Enables data import from many sources and connections (Excel, OFM, Aries, Access, SQL server, Snowflake, txt files, etc.)
- + Data Export**
Export performance-based metrics to visualization software (Spotfire, PowerBI)
- + Economic Software Link**
Export forecasts to any economic software (Aries, PHDWin, Mosaic, ValNav).

Application Examples

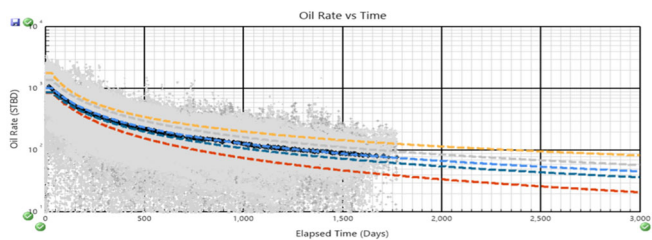
Multiphase Decline Curve Analysis

- Secondary phase forecasts based on multiphase diagnostics



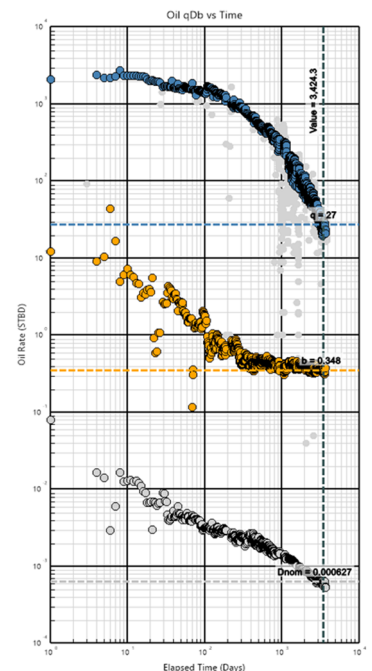
Type Well Profiles

- Characteristic behavior translated to type well profiles



qDb Methodology

- Instantaneous forecasts based on *qDb* plots.



"D&M conducts annual evaluations of approximately 30% of U.S. reserves and 50% of global resources.

The ProPerIntel platform enables comprehensive and efficient analysis of thousands of wells by employing advanced diagnostic-driven methodologies, that are not available in any other commercial software application.

ProPerIntel has become indispensable to our services, and we are pleased to now offer it as a production analysis platform that our clients can utilize and integrate within their own organizations."

Dr. Dilhan Ilk
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