

FLOW

DIGITAL PRODUCTION™

ENOVATE
UPSTREAM

TRANSFORMING OIL & GAS
THROUGH DIGITAL INNOVATION

enovate.ai



GO WITH THE FLOW

IDENTIFY PRODUCTION
PERFORMANCE DRIVERS
WITH **DIGITAL PRODUCTION™**

Our Digital Ecosystem is the first to offer physics-based artificial intelligence. The system is provided through a modular integrated platform that includes:

- DIGITAL DRILLING™
- DIGITAL COMPLETIONS™
- DIGITAL PRODUCTION™

FLOW is part of the Enovate Digital Ecosystem™ that enables real-time production forecasting with drilling and completions optimization in a single cloud computing environment. FLOW is a dashboard within the DIGITAL PRODUCTION™ module that provides realistic production declines and cumulative production curves, allowing users to accurately estimate well production limits while identifying the reservoir and completion parameters influencing well productivity.

FLOW delivers fast physics-based production forecasting in a cloud-based platform. The integration of FLOW with real-time drilling optimization enables the execution of production performance analysis while drilling, thus targeting the most productive zones.

Defined as a modern reservoir simulation tool, FLOW honors the physics of fluid flow in porous media and the influence of pressure-dependent rock and fluid properties on well performance. The dashboard displays sensitivity analyses on influential production drivers, including geomechanics, leading to faster decision-making for selecting the most suitable completions design on a well-by-well basis.

FLOW supports analytical and numerical reservoir models to facilitate the creation of different production scenarios. The implemented Fast Nonlinear Solver (FNS) delivers fast simulation results that enables real-time analysis. Moreover, unlike other offerings in the market, FLOW considers multi-fractured horizontal wells as true composite systems, therefore users can define matrix, stimulated rock volume (SRV) and fracture properties independently.

FEATURES

- Utilizes Fast Nonlinear Solver (FNS) to optimize solutions for nonlinear fluid-flow problems
- Forecasts production in real time
- Provides specialized and diagnostic plot analysis
- Supports built-in and user-defined correlations to define rock and fluid properties
- Facilitates completions design as you drill
- Creates multiple scenarios for the asset
- Features analytical and numerical reservoir models
- Analyzes production history on the simulation dashboard