

# Accurate Real-Time Flow Rates Achieved for Gas Lift and ESP Wells with Virtual Flow Metering

## Objectives

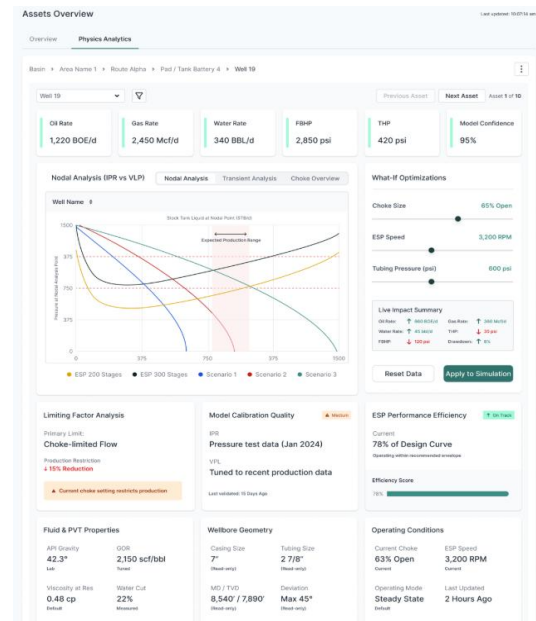
- Cut reliance on costly, time-consuming well tests with faster, proactive monitoring.
- Avoid the limitations of multiphase flow meters, which are expensive, intrusive, and prone to drift.
- Gain clear visibility between tests, eliminating blind spots and opaque AI solutions.

## Our Approach

- Deployed the MetaFlow virtual flow meter that combines physics and machine learning.
- Leveraged extensive historical well data and existing real-time sensors—pressure, temperature, and choke size—for continuous input.
- Applied proven physics models, including inflow performance curves and nodal analysis; integrated with machine learning to calculate accurate, real-time oil, water, and gas flow rates.
- Delivered precise measurements without adding hardware or interrupting production.

## Value to Customer

- Provided continuous visibility of well performance and early detection of problem wells.
- Reduced crew travel and HSE exposure through remote monitoring and optimized personnel planning.
- Lowered CAPEX and OPEX with a scalable solution for expansion to Canadian assets.



MetaFlow virtual flow meter dashboard

## LOCATION

US land

## FIELD

Permian Basin and Anadarko Basin

## WELL TYPE

ESP and gas lift

## PRODUCTS/SERVICES

MetaFlow virtual flow meter

