



# PolyGon

## PolyGon UniPress: Innovative Features



# 1

## WEB-APPLICATION



Collaborative project work



Project sharing via URL



Project administration system

# 2

## COMPREHENSIVE WELL TEST INTERPRETATION



Combined visualization of PTA, RTA, and interference test curves on a single plot

# 3

## PVT



Automatic PVT-model adaptation to user data (approximation and interpolation)



Ability to define PVT regions

# 4

## NUMERICAL 3D-SIMULATION



Automatic calculation of reservoir pressure dynamics for each well at any given time



Automatic generation of inter-well interference curves



Increased accuracy of bottomhole pressure forecast by enabling the selection of more than one test well



Visualization of flow distribution between layers



Nonlinear piezodynamic simulator, including light oil, gas condensate, and gas



Ability to load horizons



Multi-layer simulation

# 5

## INITIAL RESERVOIR PRESSURE ASSESSMENT



Robust single-well deconvolution algorithm

# 6

## ADDITIONAL SERVICES



Additional services:

- Gauge QC: analysis of measuring tool quality
- Pressure recalculation based on multiphase correlations
- Support for Python plugins via a documented API
- Interactive web reports
- Web hosting for service performance reports



## TRY THE ADVANCED WELL INTERFERENCE ANALYSIS MODULE POLYGON XPRESS



Workflows:

- Reservoir pressure assessment without well shut-in
- Pulse-code testing
- Multi-well retrospective testing
- Multi-well piezodynamic modeling



Technologies:

- Pulse-code decomposition
- Multi-well deconvolution
- Capacitance-Resistance Model (CRM)
- Artificial Neural Network



Diagnostic Tools:

- Cumulative pressure influence
- Specific pressure influence
- Productivity
- Reservoir pressure
- Well performance dynamics forecast

