Post-Frac Job Analysis: Case Study
Location: North America Region

Results
- Actual fracture geometry parameters (length, height, width, permeability, conductivity)
- Optimize re-fracturing opportunities
- Hydraulic fracture design optimization
- Completion selection and optimization
- Predicted production rates
- Increase production and EUR

Challenges
- Identify actual fracture geometry parameters (propped frac length, height, width, permeability and conductivity) after frac job
- Production forecasting and prediction
- Completion selection and optimization (Plug & Perf, Opti-Port, FracPoint, etc.)
- Re-fracturing opportunities
- Stage spacing and cluster optimization

Baker Hughes solution
- Lateral characterization for optimum stage spacing
- Post-Frac job analysis to identify fracture geometry parameters after frac job
- Production modeling to match flow back and later production periods
- Hydraulic Fracture modeling to design and optimize hydraulic fracture using inputs from petrophysical and geomechanical models
- Completion selection and optimization
- Treatment schedule optimization (frac fluid type and volume, proppant type and concentration)
- Flowback and Tracer analysis to define the production contributing stages after frac job
- Initial production rate prediction

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