

# StimVision matrix acidizing software

## From design to evaluation in carbonate formations

### Applications

- Matrix acidizing treatments in carbonate formation
- Coiled tubing (CT) or Bullhead matrix treatments
- Treatments using chemical or solid diversion
- Flow through all types of completions
- Design, monitor, and evaluate matrix stimulation treatments

### Features and benefits

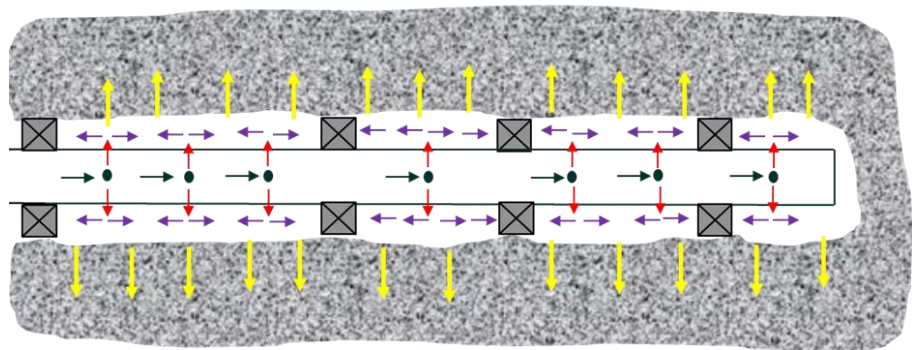
- Bridges the gap between lab tests and field designs. Upscales from linear core flow tests to field (radial) conditions
- Optimizes the fluid type, diverter type, rates, volumes, pumping schedule, and CT positions to achieve the best treatment design
- Models annular flow in completions equipped with ICD, ICV, AICD, and CAJ to precisely distribute fluids in complex horizontal wells
- Supports remote monitoring of matrix stimulation treatments
- Stand-alone and user-friendly software

StimVision™ matrix acidizing software from Baker Hughes enables the design, remote monitoring, and post-job evaluation of matrix acidizing treatments for carbonate formations. Using StimVision, engineers can optimize treatment volumes, rates, and fluid types for improved acid distribution and skin reduction. The software allows for optimizing design parameters using previous treatment results. StimVision supports all fluid types and diverters, including these Baker Hughes field-proven acid systems:

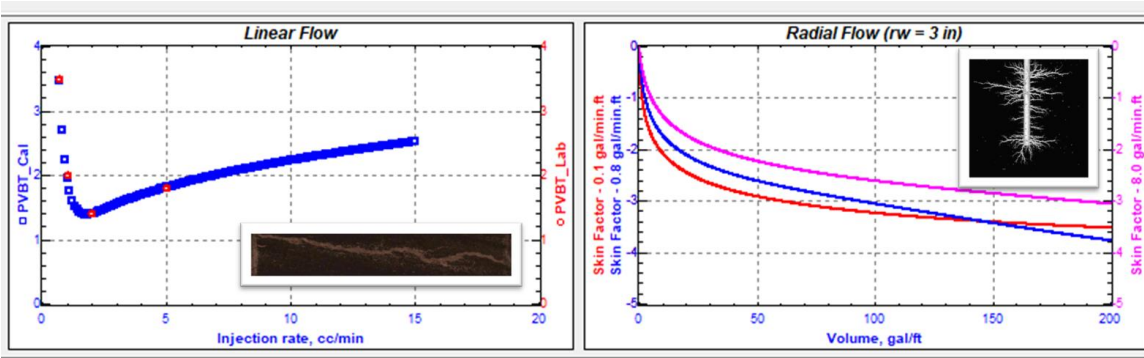
- Sta-live Extreme™ polymer-free, single-phase delayed acid system
- EAS™ in-situ crosslinked acid system
- StimCarb-HTOA™ high-temperature organic acid system
- Divert™ S and Divert™ HT viscoelastic diversion agents
- RAD solid diversion system

StimVision uses a state-of-the-art carbonate acidizing model, an experimentally validated chemical diversion model, a solid diversion model, and enhanced wellbore hydraulics for reliable designs of acid placement in complex wells.

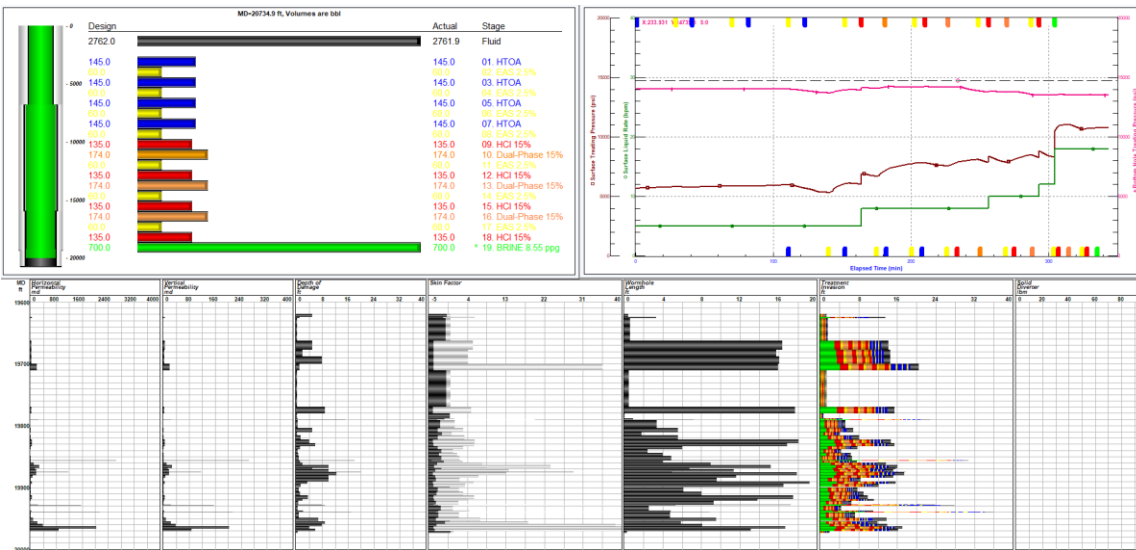
The StimVision software can be used for both vertical and horizontal wells, and can simulate flow in open-hole, cased-hole and perforated, and pre-perforated liner completions. Advanced hydraulics allow accurate placement simulations for wells equipped with ICD, ICV, AICD, LEL, and CAJ. This makes the application especially useful for long complex horizontal wells where permeability anisotropy, reservoir compartmentalization, and friction pressure can make it difficult to stimulate multiple zones along the wellbore.



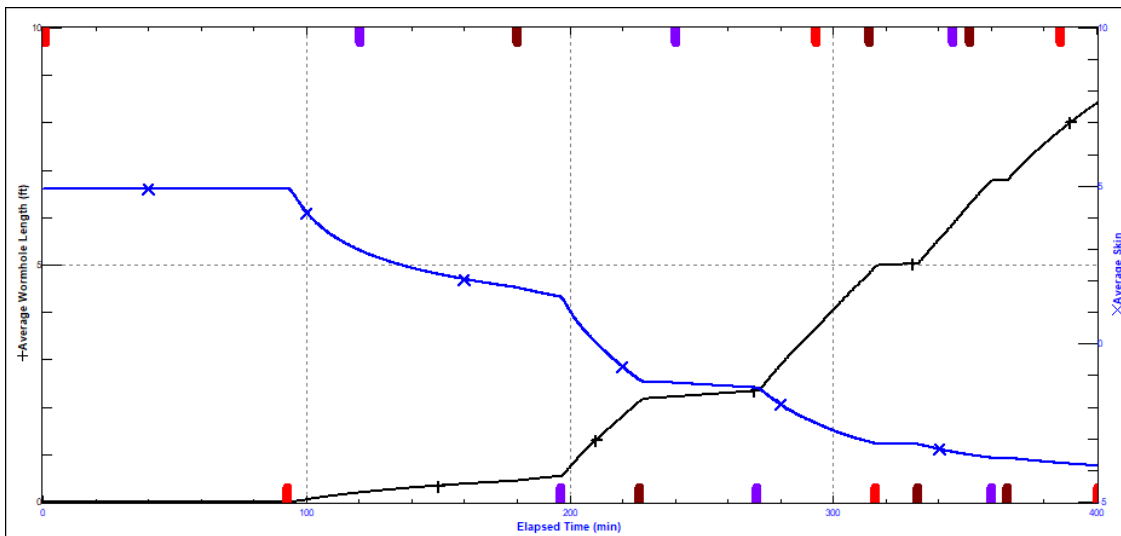
StimVision improves hydraulics for complex completions. StimVision accounts for 1) flow through tubing/liner, 2) flow across valves/orifices, and 3) annular flow between open hole packers



Linear experiments calibration and upscaling workflow in StimVision



StimVision results main window



StimVision wormhole length and skin plot