Matrix Acidizing Program (MAP)
Integrated carbonate matrix acidizing software for optimal treatment design and distribution

The Baker Hughes, a GE company (BHGE) matrix acidizing program (MAP) software application is a tool to design and evaluate matrix acidizing treatments for carbonate formations. The stimulation engineer uses the results provided by the MAP software to optimize treatment volumes and rates for improved acid distribution and skin reduction.

The software capabilities include wormhole modeling, chemical diversion, acid distribution, skin calculation, and dynamic wellbore hydraulics. The wormhole and diverting models are supported on a fluid database featuring BHGE acid systems, such as the enhanced acid system, StimCarb-GLDA™ stimulation fluid, along with the Divert™ S and Divert™ HT acid systems. The MAP software application simulates acidizing treatments for both vertical and horizontal wells with openhole, as well as limited, entry capabilities.

MAP software can be especially useful for optimizing acid coverage and distribution in long horizontal wells where permeability, anisotropy, and friction pressure drops challenge the stimulation of multiple zones along the wellbore.

Contact your BHGE representative or visit bhge.com today to find out more about how our MAP software application can help your well.

Applications
• Design and optimization of matrix acidizing treatments in carbonate formations
• Limited-entry and openhole vertical and horizontal wells

Features and benefits
• Integrated model couples near wellbore and wellbore phenomena
  – Quantifies wormhole propagation front and its effects on skin
  – Simulates chemical diversion to improve acid distribution
  – Considers reservoir heterogeneity in both vertical and horizontal directions
  – Characterizes wellbore hydraulics
• Treatment design and optimization
  – Enables customizable pumping schedules
  – Features fluid database for common acid blends and proprietary fluids
  – Facilitates the evaluation of chemical diversion, injection rate, and volume
  – Presents acid distribution, wormhole length, and skin factor evolution profiles

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