Candidate Selection and Matrix Acid Stimulation Design and Analysis Software
We are Production Solutions
STIM2001™

- STIM2001 is a solutions-oriented software package for complete remedial/stimulation candidate selection, matrix acidizing design and simulation and history matching.

- Designed to provide
  - Accurate diagnosis of the underlying issue
  - Optimized job design
  - Efficient use of workover / stimulation budget
STIM2001™ Workflow

Candidate Selection
- Skin Analysis
- Treatment Advisor
- Production Prediction
- Ranking Table

Problem Identification
- Damage Advisor
- Water Analysis
- Scale Advisor

Fluid Selection
- Expert System for Sandstone and Carbonate
- Geochemical Simulator

Diversion, Pumping Schedule & Placement
- Diversion Advisor
- Fluid Placement Simulator
- Automatic Stages, Volumes, Rates
- Skin Prediction

Treatment Evaluation & Job Execution
- Post-Job Analysis
- Fluid Placement Simulator
- Match Actual & Simulated Pressure
- Skin Analysis
STIM2001™ Design and Modeling Advisors

- **Inflow Calculator** for computing the ideal production rate for an undamaged or stimulated well
- **Damage Advisor** for determination of damage mechanisms
- **Treatment Advisor** to help select appropriate acid systems and additives
- **Diversion Advisor** to indicate the most appropriate diversion techniques based upon the specific well characteristics
- **Scale Advisor** to predict scaling tendencies from water analysis and select appropriate solvent systems and additives.
STIM2001™ Additional Capabilities

- Candidate Selection via skin analysis of individual wells, groups of wells, or multiple zones within a well
- Fluid Placement Simulator which models placement of the reactive fluids and effectiveness of various diversion techniques in vertical, deviated and horizontal wells
- Formation specific matrix acidizing calculations
- Treatment simulation including injection rates, pressures and skin evolution
- The ability to import job and match post-treatment data
- Report generating capabilities
- Extensive database capabilities for storing well information, designs, simulations, and post-job analyses
STIM2001™ Comparative Analysis Example

- The ability to model various stimulation scenarios enables optimizing the treatment design on a well by well basis.
- As well as the ability to optimize completion design elements such as perforation strategy and more.

![Diagram showing comparative analysis example](image-url)
STIM2001™ – References

- **SPE 50975**  “Quantifying Acid Placement, the Key to Understanding Damage Removal in Horizontal Wells”
- **SPE 63179**  “Structured Approach to Advanced Candidate Selection and Treatment Design of Stimulation Treatments”
- **SPE 82261**  “Structured Approach to Matrix Stimulation Proves Successful in Oman”
- **SPE 94695**  “Field Validation of Acidizing Wormhole Models”
- **SPE 94485**  “Optimizing Matrix Stimulation Treatments in a Multilayered Reservoir in Russia by Applying Different Diversion Techniques”
- **SPE 96892**  “A Semi empirical Model to Calculate Wormhole Growth in Carbonate Acidizing”
- **IPTC 10697**  “Front End Engineering Studies for Carbonate Stimulation Optimization”
THANK YOU