Benefits
- Completed 15 wells, improving injectivity across the board
- Eliminated the need for acid and significantly saved rig time
- Saved USD 3,080,000

Well background and challenges
- Reduced injectivity in some wells due to barium sulfate scaling
- Other injectors and producers required acid jobs to achieve acceptable results

Baker Hughes solution and results
- Recommended propellant technologies as potential money and time saving tools
- Baker Hughes iPerf PulsFrac™ pre-job modeling software for assessing high energy propellants effectiveness and potential problems

Typical well: Chevron VGSAU 38
- Perforated at 6 spf with StimGun® assembly
- Other wells in the field required acid to recover injectivity
- Achieved injection rate of 758 BOFD, slightly better than offset wells

Conclusion
- Propellants are effective for overcoming near wellbore damage and recovering lost production
- Job modeling critical for the design process
- Significant cost savings in rig time, pumping equipment, and acid

*StimGun and StimTube are registered trademarks of Marathon Oil Corporation.