Around the world, no two tight gas plays are exactly alike.

There is nothing easy about effectively and efficiently accessing and producing tight gas reserves. Indeed, recovering economic volumes of this gas usually involves large hydraulic fracture treatments and the use of horizontal or multilateral wellbores.

To add complexity to tight-gas development, successful development of these resources requires a thorough understanding of the geology, stratigraphy, petrophysics, geochemistry, geomechanics, and engineering parameters as they apply to the specific field and reservoir in question. To determine the best drilling and completion methods involves aggressive, early data gathering and analysis using highly specialized technologies and techniques.

Tight Gas Technologies

» LatchRite® Multilateral System
  Application - Tight Gas, CBM, Shale Gas & Liquids, and/or Mature Fields
  Premilled window system that provides a high-strength junction with full gauge access to the lateral and lower main bore.

» MaxForce®-Frac Perforating Charge
  Application - Tight Gas, Shale Gas & Liquids
  Unconventionals require stimulation to be productive, from consistent hole size to improved fracture placement. Halliburton's MaxForce®-FRAC engineered charge is designed to maximize hole size performance while maintaining entry hole

» Resolve® Software
  Application - Unconventional Resources, (Tight Gas, CBM, Shale Gas & Liquids)
  The solution provides the first fully integrated reservoir-modeling engine that can efficiently scale from the wellbore to the fracture to the full reservoir.

» TMD-3D™ Pulsed Neutron Logging Tool
  Application - Tight Gas, Shale Gas & Liquids
  The new-generation TMD-3D™-detector tool offers improved resolution and identification of tight gas intervals while greatly reducing the lithology effect on the measurement.

» CleanStim® Fracturing Fluid
  Application - Tight Formations, Carbonates, Sandstones, Shale Gas & Liquids, and/or Mature Fields
  A fracturing fluid formulation made entirely from components sourced from the food industry. It provides an extra measure of HSE protection. Plus, it normally provides better production results than conventional fracturing fluids, consistency, regardless of the gun’s azimuth orientation and standoff.
Halliburton creates more asset value by taking a holistic approach.

For tight gas development, the holistic approach starts and ends with Halliburton.

Because no single technology determines success or failure in a particular tight gas reservoir, many individual solutions must be combined at different levels to create a total solution. In other words, a holistic approach is critical for producing maximum net value from the reservoir. In particular, formation evaluation and stimulation are interwoven throughout the tight gas development.

To maximize your profitability, Halliburton’s focus is on planning the well as a portfolio of assets rather than a single interval or formation. Indeed, on the research, analysis and planning side alone, our Technical Excellence Centers are the best equipped and staffed in the world to resolve issues and maximize the value of the asset.

Major Operator Tight Gas Challenges

Reservoir Delivery
- Early and Rapid Well/Field Development
- Finding the Sweet Spot in the Reservoir
- Testing the Tight Gas Reservoir

Drilling
- Reducing Nonproductive Time and Costs
- Drilling to Maximize Production
- Managing the Borehole
- Wellbore Integrity for Maximum Long-Term Production

Completion and Production
- Stimulation Planning, Optimization and Placement
- Stimulation Fluids and Proppants Optimization for Gas Production
- Production Optimization

Efficiency and Expertise
- Efficiency Processing
- Expertise that Delivers the Tight Gas Asset

Halliburton: Consistently putting producers right in the sweet spot

Bottom line: Any service company working with tight gas assets must have both a profound understanding of the reservoir and a deep pool of creative R&D minds and operational excellence executors. That’s Halliburton. Whatever the tight gas challenge, we have solutions to optimize your asset.

What’s your tight gas challenge?

Whatever the challenge, Halliburton has the global experience to solve it. For solutions, contact your nearest Halliburton office, or visit us online at halliburton.com.