Completions

Lower the cost per barrel with a well built for superior, sustained production

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From a conventional well to the most complex subsea multilateral, superior, sustained production depends on a superior completion.

Drawing from the industry’s broadest portfolio of proven products and inventive technologies, Baker Hughes, a GE company (BHGE), works with you to design completion infrastructure and well integrity solutions that lower your cost per barrel for the life of your asset.

With BHGE, you can:

• Complete your well reliably — with the right plan and the right technology
• Accelerate unconventional completion times
• Build a better well everywhere, every time
• Protect the environment — and your investment
Complete your well reliably with the right plan and the right technology

Completions experts at BHGE design and deliver the completion you need to realize your production goals in the most economical way possible. Flawless execution at the well site combined with highly reliable, effective technology, means you can sustain production over the life of the well.

Eliminate rig days with a breakthrough deepwater completion service

Using a conventional cased-hole frac-pack completion in deep water typically limits an operator to only three stages — and requires more than a month of rig time at a cost of $100 million USD or more.

Adapting proven unconventional technology and techniques to offshore operations, BHGE saved an operator an estimated 25 rig days and $40 million USD by stimulating 15 stages in a single trip using the DEEPFRAC™ multistage fracturing service.

Take the risk out of complex completions

With an unmatched suite of completion design software, BHGE can engineer a solution matched to your specific well and reservoir requirements. Our Completion ArchiTEx™ software helps reduce risk in your most complex completions using accurate, high resolution 3D models of the well trajectory, casing, tubing, and completion sub-assemblies.

Our CIRCA™ software provides the industry’s most accurate modeling for downhole coiled tubing operations, including identifying the best flow correlation for any given deviation.
Accelerate unconventional completion times

From initial stimulation through rejuvenation operations, BHGE’s portfolio of unconventional completion technologies and services gets you to first oil faster — and keeps your wells producing at economic rates longer.

Accelerate completion times and get an unobstructed wellbore

Our SPECTRE™ plug offers the same flexible stage placement as traditional composite plugs, but the entire plug — including the body, specially engineered IN-Tallic™ slip system, and packing element — fully disintegrates downhole in the presence of wellbore fluids. The plug eliminates the need for post-fracture intervention and leaves no debris in the wellbore.

Restore production with cost-effective, targeted stimulations

An operator needed to re-stimulate a series of individual fracture clusters as efficiently as possible across a 4,886-ft (1,489-m) lateral section. Using an Optistriker™ straddle packer system, BHGE delivered controlled treatments to 26 individual clusters in a single trip.

Increase efficiency and improve well control and safety

The Riser Speedhead™ System (RSH) wellhead range consists of five main systems that fit more than 90% of well designs, casing programs, and drilling and completion requirements in the United States onshore market. For an operator in the Niobrara shale, this design helped reduce installation time by 30% while improving operational efficiency. The RSH is engineered for shale drilling and completion practices and requires no waiting on surface casing cement or in-field welding.
Build a better well, everywhere, every time

Whether you need to temporarily isolate a zone, keep sand out of your well, or control drawdown to get the most from your reservoir without compromising wellbore integrity, BHGE’s full completion portfolio provides the technology and services you need.

Stop sand for sustained, long-term production

When you need effective sand control, the BakerWrapXP™ screen can keep your production flowing at optimal rates. Using stringent wire-wrap manufacturing processes and AccuGauge™ laser measurement technology, BHGE can manufacture screen to match your anticipated reservoir conditions — with screen gauge tolerances as small as 0.0015 in. (0.038 mm). That’s the approximate diameter of a human hair.

Boost oil recovery using an advanced in-flow control system

An operator of a steam-assisted gravity drainage (SAGD) well was struggling with inconsistent steam distribution, driving up the steam-to-oil ratio (SOR) and limiting production. Following the installation of an EQUALIZER™ in-flow control device, the SOR decreased 31% and oil production improved from 371 barrels of oil per day (BOPD) to more than 700 BOPD, an 87% increase. The operator reported that the EQUALIZER device created the most prolific well pair in the field.

Streamline cementing and casing runs safely with time-saving wellheads

The Time-Saver™ wellhead system can safely contain pressures while saving an average of 30 hours of rig time by permitting casing runs and cementing with the head installed. Designed for use in applications running 95/8-in. or smaller surface casing, the system also eradicates the need for in-field welding.
Protect the environment and your investment

It doesn’t matter if you’re completing an unconventional well or producing from a field in 10,000 ft (3,048 km) of water. You can’t afford to compromise on critical issues like well integrity or pressure control. That’s why every BHGE technology is carefully engineered and qualified using rigorous testing protocols to help drive reliable performance over the life of your well.

Be safe and efficient in the harshest environments

With gas-tight sealing capabilities and industry-leading pressure and temperature ratings, the BASTILLE™ removable production packer provides the safe, dependable performance you need in today’s harshest deepwater wells. It also delivers the efficiency you expect from a removable packer because it reliably disengages from the casing — even after years of exposure to ultra-HP/HT conditions where conventional packers get stuck — helping you avoid unplanned interventions and minimize costs over the life of your well.

Improve safety with a valve that exceeds the industry’s highest standards

Our DeepShield™ subsurface safety valve delivers fail-safe protection in deepwater completions. It exceeds the industry’s highest standards for safety valves with a V1 rating. This gas-tight valve is capable of closing in all applications, even if primary nitrogen-chamber pressure is lost — ensuring safe operations in the harshest environments.
Completions

Well construction
Liner hanger systems
Cementing
Multilateral systems
Expandables
Tubulars

Production enablement
Perforating
Multistage hydraulic fracturing systems
Pressure pumping
Stimulation fluids
Drill-in fluids
Completion fluids
Water management

Lower completions
Sand control
Inflow control
Intelligent production systems
Seals and plugs

Upper completions
Packers
Flow control valves and actuators
Completion services
Safety systems

Well intervention
Fishing services
Casing exits
Wellbore clean up
Through-tubing intervention
Service tools
Inflatable systems
Coiled tubing stimulation
Smart intervention

Surface systems
Wellheads
Trees and manifolds
Power and processing

Subsea systems
Wellheads
Trees and manifolds
Control systems
Power and processing
Flexible pipeline solutions
Integrated life-of-field service

For more information:
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