Well Optimized™
Delivering world-class deliquification and production optimization products, service and expertise.
Two leaders in well deliquification. A singular focus on customers.

Back in the 1970s, few people knew about plunger lift. A little company called Ferguson Beauregard changed all that in 1975, when it was founded in Tyler, Texas, by two entrepreneurial well production experts intent on delivering innovative and cost-effective solutions for oil and gas production challenges.

Ten years later, another company called Production Control Services was founded in a garage in the middle of the Denver-Julesberg Basin. Sharing the same passion for solving customers’ production challenges, two enterprising young inventors set out to develop high-performing products supported by outstanding field service.

Over the coming years, these two companies made strong names for themselves. With a focus on product leadership, Ferguson Beauregard led the development of plunger lift systems and created many plunger lift products still in use today. It also gained valuable experience in well control and, over the years, acquired industry-leading resources to develop sophisticated well control technology and automation solutions.

PCS also has its roots in plunger lift and well control. It holds more patents on plungers and associated equipment than any other company or individual. But first and foremost, PCS placed its focus on serving customers. As it saw their needs also grow and change, PCS responded by developing its own suite of well controllers and automation systems, and increasing its offerings to include gas lift and nitrogen generation.

The rest, as they say, is history. Through many years of developing better-performing products and collaborating with customers to solve production problems, both PCS and Ferguson Beauregard built solid reputations as experts in deliquification and production optimization. Long relied upon for better products, better expertise and better service, both companies emerged as leaders in the industry.

And, now, oil and gas producers can experience the best of both PCS and Ferguson Beauregard from a single source provider: the new PCS Ferguson.

While our name has changed, our focus remains the same: providing superior products and unrivaled service to deliquify and optimize your wells.

The end result for you: better, more efficient, more cost-effective production that clearly and quickly impacts your bottom line.
PCS Ferguson is the result of two pioneers and industry leaders joining forces to offer world-class deliquification and production optimization products and services to our customers. Offering Plunger Lift, Gas Lift, Nitrogen Generation and Well Site Automation, PCS Ferguson is your one-stop-shop for deliquification and optimization.

With more than six decades of combined experience, we know that being better means trying harder. Building on the values that drove our individual success, PCS Ferguson will continue to deliver the technical expertise, quality products and responsive service that you’ve come to expect. Through continual investments in and improvements to our product and service offerings, we will strive to remain the most dedicated, high quality provider of deliquification and optimization solutions in the business.

These are just a few of the benefits of working with PCS Ferguson:

- Decades of experience recommending and servicing lift systems to accommodate changing well conditions
- Unrivaled expertise in plunger lift, gas lift, well control and well unloading
- The best performing and highest quality products designed, engineered and manufactured in-house at our Colorado and Texas facilities
- Experienced and responsive field support staff with extensive local knowledge
- The highest commitment to the protection and safety of our employees, our customers and the environment
- Comprehensive customer training and product support
THE CHALLENGE

When production falls below the critical flow rate, heavier liquids fail to reach the surface and begin to fall back to the bottom, exerting back pressure on the formation and loading up the well.

During their natural lives, most gas wells experience some type of liquid loading, when water and oil accumulate in the tubing and well bore. As the volume of those liquids increases and the well loses energy, artificial lift is needed to remove the liquids and extend the life of the well.
The Solution: Plunger Lift

Plunger lift by PCS Ferguson offers you a low-cost, highly effective method of preventing liquid loading and removing accumulated liquids.

Plunger lift by PCS Ferguson is one of the most economical ways to achieve maximum deliquification, particularly in marginal and aging wells. Plunger lift uses the well’s own energy in combination with a plunger—that functions like a swab—to lift and remove accumulated liquids.

Operation of the plunger lift system is dependent on the natural buildup of pressure in a gas well when it is shut in. During the shut-in time, the plunger which resides at the surface lubricator, falls through the gas and accumulated liquid to the bottom of the tubing. When the shut-in pressure is sufficiently higher than the sales-line pressure, an electronic controller at the surface activates the motor valve to open, and the built-up pressure delivers the plunger and the liquids above it to the surface.

Supported by the best plunger lift experts in the world, PCS Ferguson plunger lift systems are quick and easy to set up. Requiring low capital investment and minimal operating expense, plunger lift provides an excellent return on investment. Plunger Lift by PCS Ferguson produces production gains that typically allow it to pay for itself in as little as a few weeks and almost always within a few months.

PCS Ferguson offers both PCS™ and Ferguson Beauregard™ plunger lift products. Regardless of which you choose, all of our plunger lift products are thoroughly tested, manufactured to the highest standards and backed by our decades of experience in the field.

When you partner with PCS Ferguson for your plunger lift operations, you gain a number of benefits:

- Increased production with minimal cost
- Quick and easy implementation
- Low capital and operating expenses
- Unrivaled expertise, service, training and line out assistance
- Largest selection of custom-engineered equipment addressing the full range of well conditions
- Highest quality manufacturing processes and materials

Plunger lift utilizes the well’s own energy to cost-effectively remove liquids.
THE CHALLENGE

Changing conditions over their lifespans make your wells difficult to consistently and predictably produce.

In many situations, a well does not have sufficient natural energy to lift liquids to the surface at desired rates. Changing well conditions, such as reduced reservoir pressure, increasing water cuts and decreasing gas liquid ratios can make consistent and predictable production a challenge.
Opti-Flow™ Gas Lift by PCS Ferguson is the method of lift that most closely resembles the naturally flowing well. It utilizes the energy stored in natural gas under pressure in combination with injected gas to more efficiently deliver fluids to the surface.

Gas lift uses a high-pressure source to inject gas in the production string at prescribed depths downward. As the gas mixture rises to the surface, it expands, reducing the density and column weight of the fluid. This reduces the flowing tubing pressure, creating a differential pressure between the reservoir and the well bore that allows the well to flow.

PCS Ferguson uses OPTIpod™ software to determine the optimal amount of gas needed to deliver fluids to the surface and the best locations, based on pressure calculations, for the gas to be injected. These determinations are critical to ensuring optimal production.

When installing a gas lift system, the proper design makes all the difference. In addition to using the best tools available, PCS Ferguson benefits from decades of experience designing and installing gas lift systems and employs the best and most experienced gas lift experts in the business.

Gas lift optimizes production from kickoff to depletion.

There are many instances where gas lift is both effective and economical, including:

- Producing wells that can’t flow naturally
- Initial unloading of a well that will eventually flow on its own
- Increasing the production rate of a flowing well
- Accommodating deviated and horizontal well bores
- Unloading a well affected by adjacent well drilling and fracturing
- Removing solids by back flowing
- Producing wells with sand or scale problems
THE CHALLENGE

Unloading and cleaning out your new drills can be a slow and expensive process. Adjacent wells can also be impacted by fracturing liquids.

Shorter spud to sales time is the ultimate challenge for oil and gas producers. Getting wells online and delivering gas can take weeks. Often, drilling can also affect nearby wells, causing them to load with communicated fluids.
Nitro2Go™ Nitrogen Generation by PCS Ferguson is a safe, affordable alternative for unloading and cleaning out wells. When source gas is unavailable, it can be used in combination with Opti-Flow™ Gas Lift for initial well unloading. At higher pressures, it can be used on its own to unload a well around the end of the tubing.

Nitro2Go’s compact, mobile units are dispatched directly to your well site and are easily moved from one location to another. Using state-of-the-art membrane separation technology, Nitro2Go generates rich, inert nitrogen gas from the air on location. The nitrogen is supplied to the well, while oxygen waste is released harmlessly back into the environment.

With unrivaled recovery rates, Nitro2Go™ Nitrogen Generation allows you to initially unload a well in days instead of weeks—saving both time and unnecessary expense. Nitrogen’s inert properties also make it an excellent choice for the cleanout of sand, scale and other production-inhibiting materials throughout the life of the well.

Nitro2Go is an economical solution providing a number of benefits:

- Rapid fluid recovery (at rates up to 2,000 Bbls/d)
- Fast execution and 24/7 operation
- Safer, more affordable alternative to liquid nitrogen
- Quicker, more affordable alternative to swabbing
- Economical testing of unproven assets
- Choice of mobile truck-mounted units used individually or in combination to meet your specific needs
- Experienced, two-man supervision, providing hourly measurement and daily reporting
- Guaranteed purity of more than 95%

Nitrogen generation can be implemented quickly for faster fluid recovery and faster first gas sales.
THE CHALLENGE

You need real-time well site data, but information is only the tip of the iceberg. Each field needs to be operating optimally, requiring minimal intervention and generating maximum production.

Reliable, accurate data is needed to make critical business decisions and ensure your wells are online and producing. With growing safety and environmental concerns, remote monitoring and control of site facilities is also important. But your needs don’t end there. Easy-to-use and intuitive tools can help your workforce be more efficient and your wells more productive.
Well Site SCADA™ Automation by PCS Ferguson is a reliable and fully integrated automation solution. By collecting real-time data from each well, the system creates timely and accurate electronic reports, and stores current and historical data. With critical information at your fingertips, you can manage by exception, recognize trends and correct problems to ensure maximum uptime and optimum well production.

But the benefits of Well Site SCADA don’t end there. Combining our proprietary Auto-Cycle technology and proven plunger lift algorithms with more than three decades of artificial lift experience, we set the standard for automation of plunger lift operations, from single well control to our signature pad well system. As a leading gas lift provider, we also automate gas lift wells to ensure optimal well performance and allow more efficient allocation of valuable manpower.

When you choose Well Site SCADA by PCS Ferguson, you can feel confident knowing your system is designed and supported by actual well head experts. Much more than just an EFM manufacturer, PCS Ferguson truly puts the Supervisory Control in SCADA at the well head.

Well site automation puts critical information at your fingertips.

Well Site SCADA™ allows you to automate and optimize not just your wells, but your entire site.

When you choose Well Site SCADA, your entire operation will benefit from optimized operations:

- Synchronize and optimize production of multiple plunger lift wells from a single, central master controller
- Automate gas injection and optimize production of multiple gas lift wells
- Accurately allocated produced gas to each well
- Easily integrate with gas measurement, host systems and other third-party devices
- Monitor tank levels, chemical injection, gas volumes, pressures, temperatures, flow rates and more
- Meet or exceed environmental monitoring requirements
At PCS Ferguson, we know our success is dependent upon yours. Our primary focus is—and has been for more than three decades—to more efficiently and effectively optimize the production of each of our customers’ assets. The end result for you: better, more efficient, more cost-effective production that clearly and quickly impacts your bottom line.

For more information about our products and services, please contact your local PCS Ferguson sales and service office or visit us on the web at: www.pcsferguson.com

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