

# LIFTEQ CSG



## AFFORDABLE, RELIABLE PROGRESSIVE CAVITY PUMPS

### Overview

WellDog and Baker Hughes have partnered to revolutionise artificial lift for coal seam gas in Australia. Using the same supply chain and volume pricing strategies that resulted in the very affordable yet high performance WellDog downhole gauge systems, WellDog and Baker Hughes have brought to market the *LifteqCSG* – a long lifetime, and proven progressive cavity pump that is fit-for-purpose to the specific needs of Australian CSG operators and that is the lowest priced pump on the market today.

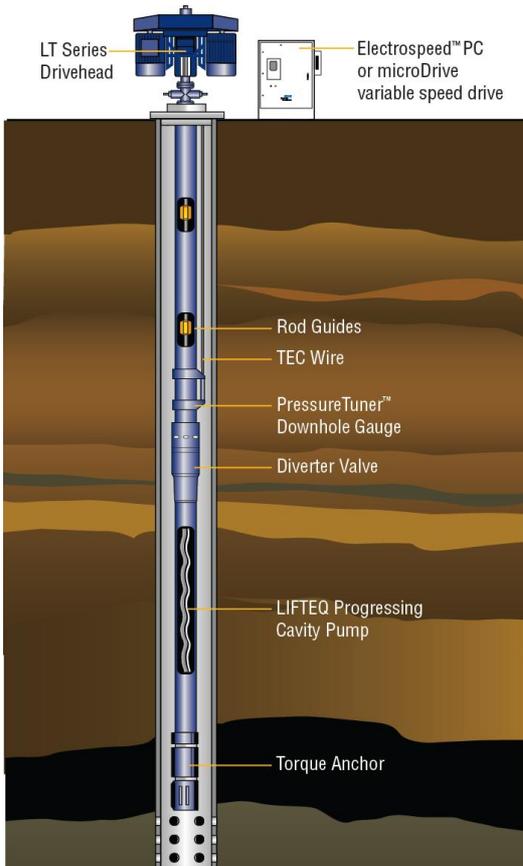
### Challenge

In order to produce gas from coals, the hydrostatic pressure must be reduced by production of water. Most Australian coal seam gas developments employ progressive cavity pumps to produce that water. Existing progressive cavity pumps are expensive and struggle to handle solids, requiring workovers every six to eighteen months. Those workovers are expensive to execute – independent of equipment cost – and disrupt water and gas production. And long equipment supply lead times to Australia can further disrupt development and workover schedules and gas production.

### Need

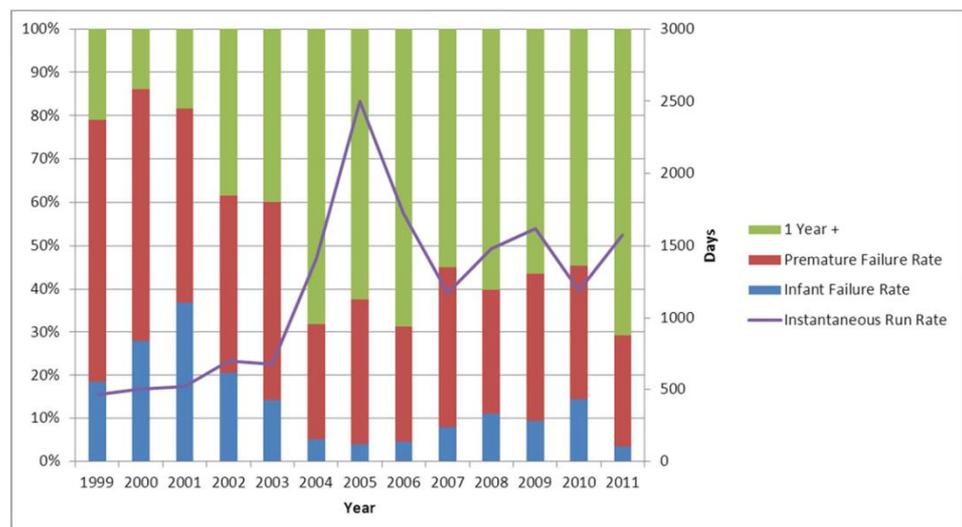
CSG operators therefore need:

- High quality PCPs with a long manufacturing and service track record
- Low unit cost and long run lifetime to reduce development costs
- Long run lifetimes to reduce workover interruptions to production



### FEATURES & BENEFITS

- > Lowest price pump available
- > High quality product
- > Manufactured in the United States continuously since 1998
- > 15,000 pumps installed globally
- > Average run life in CSG applications is 1,879 days (5+ years)



## FEATURES & BENEFITS

*continued*

- > Extensive local inventory, backed by one of the largest service companies in the industry
- > Proven local service and support, provided by a committed and experienced Australian CSG service company
- > Full range of pumps
  - 25 to 5000 bwpd
  - Lift pressures up to 4600 psi
  - Up to 300 hp
- > Better pump off control for greater efficiency
- > Most robust driveheads in the industry
- > Internally developed and manufactured elastomers

## Solution

*Baker Hughes' Lifteq quality and reliability, WellDog high volume pricing and local supply and service*

WellDog and Baker Hughes have partnered to supply the *LifteqCSG*, the industry-leading rod driven progressive cavity pumping artificial lift systems, to the Australian CSG industry at a revolutionary low price. This unrivalled product offering is designed to support Australian CSG operators that require cost effective PCP artificial lift solutions delivered in high volume, time critical, economically challenging environments.

WellDog is the leading provider of downhole gauge systems to the Australian CSG industry via its *PressureTuner™* and *AquaTracker™* product lines. This dominance was achieved in part by introduction of a new business paradigm that delivers cost effective yet robust products that provide appropriate performance and economics for CSG applications. This paradigm is enabled by engineering fit-for-purpose technical solutions instead of overbuilt and expensive technologies meant for other industries.

WellDog's alliance with Baker Hughes has harnessed Baker Hughes' global manufacturing footprint and extensive supply chain management capabilities to meet high volume demands for cost effective PCP systems. State-of-the-art lean inventory control and economies of scale achieved through high sales volumes of these systems into CSG markets are being exploited to drive additional price point reductions.

WellDog has provided its existing eastern Australia service organization, operational infrastructure and warehousing facilities, with the savings from these reduced operating costs also being passed directly to clients.

Supplying cost-effective solutions relies on equipment that must be capable of achieving long term performance reliably. Development of the *LifteqCSG* has focused on delivering high mean time between failure performance and the workover savings that result.

Baker Hughes' long term experience with installing and supporting Lifteq PCPs in CSG applications provides operators confidence when using these pumps. And Baker Hughes' ongoing investment in component and system technologies insures that *LifteqCSG* users enjoy the world's leading artificial lift technical advances first.

A significant inventory of systems sizes typical to Australian CSG well types and conditions is being assembled in Roma, QLD for rapid call-off mobilisation.

