

## A world first in coil tubing deployed ESPs



*CoilDrive Deployment*

Surely coil tubing deployed ESP have been around for decades? Not like this they haven't. While all coil tubing deployed ESP have used the coil only as a conduit to support and protect the power cable, this solution takes **fluid flow through the tubing** while gas is produced up the annulus.

### A Unique Collaboration

With an eye to providing a highly efficient and cost effective solution to many of the problems associated with conventional pumping technologies in Queensland Coal Seam Gas (CSG) wells, UK based Zilift have formed an exclusive relationship with Australian coil tubing services company AusCoil to create **CoilDrive** as a unique artificial lift technology. Coupled with AusCoil proprietary technologies for CSG production enhancement CoilDrive provides a one stop shop to **clean, stimulate, complete and produce** wells during a single mobilisation. CoilDrive is a technology collaboration delivering a value that is greater than the sum of its parts.

### Technical and Capability Integration

Coupling AusCoil coil tubing expertise with Zilift TorqueDrive technologies involved initially injecting Zilift 3/8" OD tubing encapsulated power cable through a 680m length of 2" coil tubing. Zilift TorqueDrive pump system was adapted to incorporate an off the shelf coil tubing connector. Using a portable flow loop installed in the AusCoil Toowoomba facility system performance was verified before commencing final integration. An initial trial stack up was performed in the yard where valuable lessons were learned on the optimum way to handle the combined equipment. These lessons were then transferred to the field for a real-world deployment.



*Loading CoilDrive into lubricators*

# CoilDrive becomes a reality!

## First Deployment Trials

With customer support in providing a well to trial the technology in, the system was mobilised 330km to the field location. Following initial rig up of the coil tubing unit and after performing a drift run the system was deployed and switched on using full live well intervention techniques in a little over an hour. Flow was established through the coil tubing. The system was then successfully retrieved from the well.



*Cable Integrity Testing*

## Moving Forwards

The first successful integration of Zilift TorqueDrive technology to coil tubing up to and including the world first deployment means Zilift and AusCoil are poised to be able to deliver a truly unique solution to Australian CSG operations. Well operations can now be offered using a single mobilisation and crew. All of which can be delivered using live well deployment and recovery techniques meaning no water treatment or wastage, no formation damage and no time spent displacing and handling kill fluids. This enables the CSG operator to **clean, stimulate, complete and produce** which creates a new production methodology free from rigs, water or rod strings.



*Coil tubing spread prepares for action*