

# WidePak™ Deep Gas-Lift System Restores Oil and Gas Production in Well Shut in for 2 Years

## Objectives

- Install a deep gas-lift system in a live oil well to inject lift gas to the reservoir and, in turn, help the well to flow. The operator had developed the well for gas production and had not installed a gas-lift system. After flowing for approximately 2 years, the well began producing oil and gas condensate, which resulted in liquid loading and impeded flow.

## Our Approach

- Weatherford proposed three deliquification solutions for the live oil well to the operator. Of the three, the WidePak thru-tubing, deep gas-lift (DGL) system was selected as the optimum solution to resolve liquid loading issues and recover trapped reserves.
- The Weatherford team deployed the WidePak DGL system to 9,200 ft (2,804 m) using 16-percent chrome (16Cr) coiled tubing as the injection string. The DGL system straddled holes previously punched in the existing completion tubing above the production packer.
- The team tested the well by injecting nitrogen into the annulus to unload the liquid and bring the well back online.
- The well produced hydrocarbons, which proved the success of the installation. Gas and oil production increased from zero at shut-in to 0.6 MMscf/D (16,951 m<sup>3</sup>/d) and 46 BOPD (7.3 m<sup>3</sup>/d oil).
- The team completed the operation without any lost-time injuries.

## Value to Client

- The WidePak DGL system enabled the operator to inject lift gas below the production packer in a well that previously had no gas-lift capabilities.
- Installing the DGL system restored production and natural flow in a well that had been shut in for 2 years and eliminated the need for a costly workover, which could have damaged the reservoir.



The WidePak DGL system features a unique two-trip crossflow straddle that enables annulus-injected lift gas to be directed below the existing production packer.

### LOCATION

Indonesia

### WELL TYPE

Offshore, oil and gas producer

### TUBING SIZE

4-1/2 in., 12.6 lb/ft

### MEASURED DEPTH

10,133 ft (3,089 m)

### INSTALLED DEPTH

4,707 to 9,200 ft (1,435 to 2,804 m)

### PRODUCTS/SERVICES

- Thru-tubing services
- WidePak DGL system

