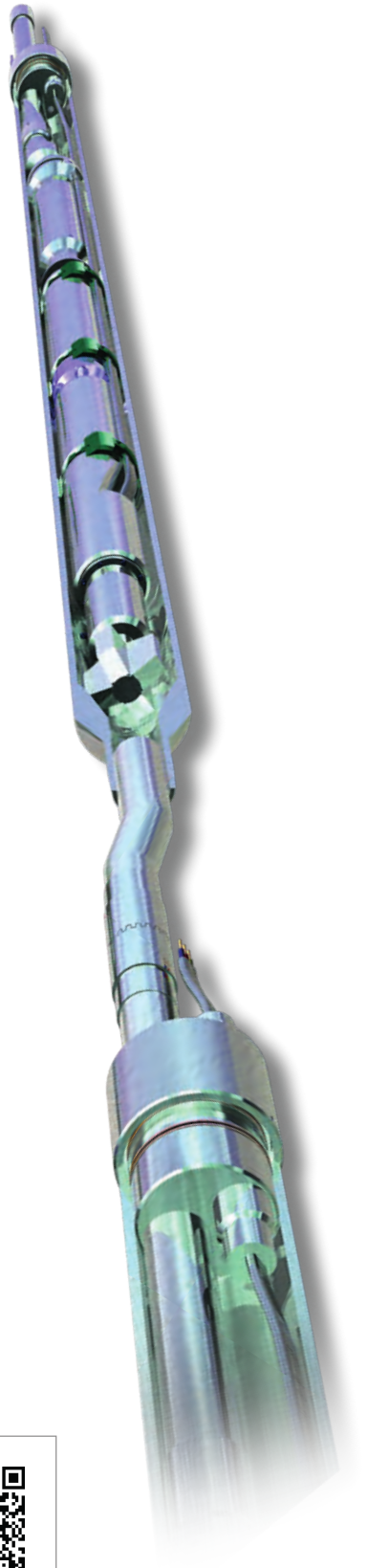
ESP Dual Systems - Redundancy Twin CAN



As the originators of dual ESP technology, RMSpumptools' in-depth background and expertise in dual ESPs, translates into an unparalleled range of systems that cater for the wide variety of completion needs demanded by today's sophisticated ESP user.

Description

Utilising RMSpumptools highly successful encapsulated ESP system (CAN) and by configuring one CAN above the other, two complete ESP systems can be deployed in one well to provide a downhole backup system. Typically, both ESPs are identical, but the second operating ESP can be sized differently to meet later life production expectations.

Operation

An individual cable powers each ESP with the cable for the lower ESP running outside of the upper CAN. Each ESP can be operated individually and flow automatically bypasses the dormant ESP by entering the ADV (Automatic Diverter Valve) which is positioned above each pump discharge. Flow is activated by tailpipe entry into a permanent sump packer.

Application

High workover cost environments such as offshore and subsea applications. Also providing a clear benefit in locations that experience lengthy down time between workovers and where production deferment is an issue.

Advantage

Provides a dual ESP redundancy system to radically improve well profitability, whilst avoiding the need for a retrievable packer. This makes for faster workovers and avoids potential difficulties in retrieving a standard pump packer. A formation shut-off valve can also be installed in the sump packer to prevent the need to kill the well at workovers.