

Flexisert™ I-PCP Anchor Reduces Workover Costs by 68%, Restarts Wells to 1,400 BFPD

Objectives

- Reduce operating costs and production downtime in coal seam gas (CSG) wells in which progressing cavity pumps (PCPs) were installed. After each pump failure, the operator had incurred increased operating costs and downtime for retrieving tubing strings with a workover rig. Historically, the operator had used insertable PCPs (I-PCPs), which eliminate the need for a workover rig. However, typical I-PCPs require installation of a pump seating nipple (PSN) with the initial completion tubing, which these wells did not have.

Our Approach

- In 11 wells, Weatherford installed a new high-volume I-PCP (57-800) using Flexisert™ I-PCP anchors. The Flexisert I-PCP anchor is an innovative technology that enables installing I-PCPs in wells without PSNs.
- With use of the Flexisert I-PCP anchor and a flushby unit, the new pumps were installed without pulling the tubing and without a workover rig.

Value to Client

- The combination of the Flexisert anchor and high volume I-PCP enabled the client to restart well production at up to 1,400 BFPD.
- Because no workover rig was required to install the I-PCPs into the wells, the client experienced significant savings on their initial installation and will save on future interventions because the equipment can be replaced using a flushby unit.
- The cost of a workover using the Weatherford Flexisert I-PCP anchor and the flushby unit is estimated at US \$80,000 compared to an estimated US \$250,000 for a full workover with a rig. Therefore the client can save approximately 68% per future intervention.



The Weatherford Flexisert I-PCP anchor reduces downtime and costs associated with well interventions.

LOCATION

Surat Basin

WELL TYPE

Onshore vertical well - CSG applications

NUMBER OF WELLS

11

DEPTH

2,297 ft (700 m) average

BOTTOMHOLE TEMPERATURE

122°F (50°C)

FLUID TYPE

Water and gas (CSG)

PRODUCTS/SERVICES

- High volume I-PCP (57-800)
- Flexisert I-PCP anchor
- Flushby unit

