WidePak Straddle Packer

Isolates Water Zone, Restores Production and Avoids Abandonment

Objectives

- Isolate a water-bearing interval that threatens to end production in a horizontal offshore gas well. Unless the operator can improve production, the single-well platform will have to be abandoned.
- Remove downhole obstructions that might hinder installation of the straddle packer.

Our Approach

- Weatherford Well Services specialists collaborated with the operator to conduct a thorough analysis of the well and its water-production problems. The specialists recommended installing a WidePak straddle packer assembly to isolate the water-bearing zone. Their proposal included a milling operation to expand the ID profile of a lower nipple and enable passage of the packers.
- The Weatherford team deployed to the satellite platform along with a straddle-pack system, mill, and downhole motor. A step mill driven by an eCTD motor expanded the lower nipple ID in a single run.
- Using 1,300 ft (396 m) of 2 7/8-in. coiled tubing as a spacer pipe between the packers, the team installed a 4 1/2-in. WidePak straddle packer assembly to isolate the 7-in. liner. The entire system was installed under live well conditions in just two trips and completely isolated the 1,000-ft (305 m) water-bearing interval.

Value to Customer

- The WidePak straddle packer isolated the water-bearing zone to revive gas production. This enabled the operator to postpone abandonment of the single-well satellite platform for at least 18 months.
- The installation was conducted using a coiled tubing tower, which eliminated the need to mobilize a workover rig and associated deployment time to keep costs down.
- The production increase enabled a return of investment (ROI) in less than 30 days.



The straddle pack installation was run on coiled tubing. The CT tower helped to reduce the costs of the operation.

LOCATION Offshore United Kingdom

WELL TYPE Horizontal gas producer

LINER SIZE 7 in.

DEPTH 10,400 ft (3,170 m)

TEMPERATURE 185° F (85° C)

PRESSURE 3,000 psi (20.7 MPa)

DEPTH 10,400 ft (3,170 m)

PRODUCTS/SERVICES

- Well Services
- Thru-Tubing Fishing and Milling
- Thru-Tubing Completions
- eCTD Motor
- WidePak Straddle Packer



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