



Weatherford®

REAL RESULTS

Complex, 2 3/8-in. OD Flush-Jointed Tubing Velocity String Solution Saves Approximately 65% in Cost

Objectives

- Live well intervention to avoid formation damage to depleted reservoir.
- Suspend upper velocity string part in 5-in., 15-lb/ft joint below 3.813-in. restriction.
- Suspend lower velocity string part in 3.125-in. QN-LN.
- Establish dedicated project management team to achieve short communication lines.

Results

- A Weatherford PB packer and running tool was modified to suit this special application.
- A Weatherford retractable no-go lock-mandrel was used to land the lower velocity string.
- BOP configuration, double pump-out plug, and glass disks were used to meet dual-barrier policy at all times.
- Live well deployment achieved using conventional coiled-tubing and tubular running equipment.



Location

K6DN2 (Dutch North Sea)

Formations

Gas Reservoir (4% CO₂)

Depth

- TVD: 15,456 ft (4,711 m)
- AHD: 23,649 ft (3,882 m)

Pore Pressure

1,798 psi (124 bar)
at 12,730 ft (3,880 m) TVD

Well

Gas Producer

Completion Size

5 × 4-1/2 × 3-1/2 in.

Products/Services

Thru-tubing services

Project was presented in full details at the SPE/ICoTA 9th European Coiled Tubing and Well Intervention Round Table 19–20 Nov 2003, Aberdeen.



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Value to Client

- Project management support by Weatherford and Schlumberger CT resulted in a successful solution.
- Detailed pre-job planning with involvement of onshore and offshore staff resulted in a smooth installation.
- Project was executed within 7 days and offered a cost saving of approximately 65% versus a similar recompletion using conventional workover techniques and no residual formation damage.
- Well was brought onstream immediately after landing the upper velocity string.
- In the future, similar projects will be executed and may use corrosion-resistant-allow coiled tubing rather than flush-jointed tubing.

