



Weatherford®

REAL RESULTS

New Valve for Damaged Control Lines Saves Operator Millions on Workover Costs

Objectives

- Develop a system to enable installation of surface-controlled valves in wells that had damaged, blocked, or leaking control lines. Otherwise, new regulations requiring surface control of all safety valves before wells could be produced would have required the operator to spend more than US\$50 million on workovers over the next two years.

Results

- Weatherford developed the Optimax™ WDCL valve for damaged control lines. This fail-safe solution can be installed in any offshore application without modifications to tree configuration or surface facilities.
- The system was successfully tested and qualified for offshore use by the operator's worldwide subsidiaries. Testing involved a complete sequence of operations required for offshore installation, including use of slickline for running the insert valve, capillary equipment for installing the retrofit control line, and a wellhead adapter for controlling the valve from the surface.

Value to Client

- The system's success provided the operator with significant cost savings when performing workovers for 27 offshore wells.



The *Optimax* WDCL valve for damaged control lines is set and sealed in safety-valve landing nipples and tubing-mounted safety valves with damaged or blocked control lines that make communication impossible. The fail-safe WDCL valve is ideal in environmentally sensitive areas and for sour- and critical-well applications, and can be retrieved using standard wireline or capillary-string procedures.

Client

Major operator

Location

Offshore, The Netherlands

Number of Wells

27

Products/Services

- *Optimax* WDCL valve
- Capillary string services
- Wellhead systems

