



Weatherford®

REAL RESULTS

Renaissance™ WDB Safety Valve Seals In Badly Damaged Seal Bores, Enables Successful Pressure Test, Returns Well to Production

Objectives

- Return the well to production by installing a new 7-in. safety valve capable of sealing in badly scored, scratched, or gouged seal bores. The operator's tubing retrievable surface controlled subsurface safety valve (TRSCSSV) had previously experienced a leak and was locked out and communicated. Replacement insert valves were run four times and found to leak after a short period of time due to suspected seal bore damage.

Results

- Weatherford deployed a *Renaissance* system consisting of a 7- × 5.963-in. Optimax™ safety valve, Weatherford Damaged Bore (WDB) piston-assisted packing stack, and a QXSVB lock.
- The WDB Optimax valve sealed and pressure-tested, the result was so good the operator zeroed the gauges and reran the test. The second test also proved to be perfect.
- The piston assisted packing stack used control line pressure to energize the seals and enhance sealing capability in the extensively damaged seal bores.

Value to Client

- Using Weatherford's *Renaissance* WDB system enabled the operator to return the well to production quicker than any other conventional solution.
- Installing a WDB eliminated the need to kill the well and pull the tubing which would have incurred significant rig time and associated costs.



Weatherford's 7-in. damaged bore safety valve, part of the *Renaissance* system, enabled the operator to reestablish well integrity after multiple attempts at sealing standard insert valves in damaged seal bores. This was the first 7-in. WDB installed globally and the first *Renaissance* application in Norway.

Location
Norway

Well Type
Offshore, oil

Tubing Size
7 in.

Products/Services

- *Renaissance* damaged-control-line system
- 7- × 5.963-in. Optimax SCSSV
- WDB piston-assisted seal stacks
- QXSVB Lock

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