



Weatherford®

REAL RESULTS

Renaissance™ WDCL System Restores SCSSV Functionality, Eliminates Need for Workover Rig, Improves Production, Saves Costs

Objectives

- Restore functionality of a surface controlled subsurface safety valve (SCSSV) in a well where the control line had become blocked.
- Retrofit a new control line and insert valve within the existing well architecture.
- Remove reliance on a storm choke which had closed repeatedly, interrupting production.
- Perform the intervention without killing the well, pulling the tubing or performing a major workover.

Results

- Weatherford deployed the *Renaissance* damaged-control-line (WDCL) system consisting of the following tools: spool piece, 4-in. control-line hanger (CLH), capillary, stinger, OQXSV Lock, and 2.813-in. WDCL Optimax™ safety valve, successfully restoring surface communication to the new SCSSV.
- The CLH was landed in the Weatherford QN nipple profile in the spool section below the lower master valve. A Type-H profile was provided above the CLH for installation of a backpressure valve (BPV) to secure the well during future wellhead maintenance.
- Producing through a storm choke is only permitted as a temporary measure and was troublesome due to repeated tripping, the *Renaissance* installation eliminated the need for the storm choke and associated production interruptions.

Value to Client

- Weatherford's *Renaissance* WDCL system enabled the operator to retrofit a replacement control line inside the existing tubing string to operate a new *Optimax* SCSSV.
- The *Renaissance* WDCL system eliminated the need for a workover rig, saving time and associated costs.
- With the SCSSV fully operational, the operator was able to restore the well to full production.



Weatherford's *Renaissance* WDCL enabled retrofitting of a new control line down through the existing tubing to control a new *Optimax* insert valve. The way the inset safety valve is opened or closed is through a new penetration in the wellhead. In this case, Weatherford placed a new spool piece (pictured above) below the lower master valve. The spool piece was custom-manufactured with a profile to lock the CLH into, and polished bores for the seals.

Location
Abu Dhabi

Well Type
Offshore, oil

Products/Services

- *Renaissance* WDCL system
- Wellhead spool
- Control line hanger
- Capillary string services
- Wet connector
- OQXSV Lock
- *Optimax* safety valve

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