

# Rapid REACH WRSV installation restores deepwater subsea production without a workover

## CHALLENGES

- A deepwater subsea well was unable to produce due to a failed tubing retrievable safety valve (TRSV).
- The well was shut in for over one year, resulting in deferred production.
- A subsea workover would be costly and challenging to retain intelligent production of both production intervals.
- The subsea tree was installed in water depths greater than 6,500 ft and the TRSV setting depth exceeded 10,500 ft.
- HP supply pressures for the TRSV exposed the control chamber to pressures exceeding 13,000 psi.

## SOLUTION

- Baker Hughes partnered with the operator to deliver a custom intervention solution in less than seven months, enabling installation of [a REACH™ wireline-retrievable safety valve \(WRSV\)](#) within a competitor's TRSV.
- The scope included control chamber integrity testing and precision cutting using the Baker Hughes Mechanical Pipe Cutter (MPC), combined with the no-go system for accuracy.
- The REACH WRSV was installed to accommodate extreme well conditions, re-establish a compliant surface-controlled subsurface safety barrier and eliminate the need for a subsea workover.
- This restored production and well integrity, securing the future of the well while maintaining full regulatory compliance.
  - MPC successfully accessed TRSV control chamber cut window (<1.4" long at 10,500 ft)
  - Successfully developed, qualified, and installed REACH WRSV in a 4-1/2" TRSV



MPC creating hydraulic communication path



REACH™ wireline-retrievable safety valve

## RESULTS

**\$25M USD saved**  
in cost savings compared to subsea workover

**>\$80M USD unlocked**  
in estimated production value for the remaining calendar year

**Deepest install**  
>10,500 ft MD

**Custom design**  
integrated with RPT lock profile

**HP supply communicated**  
first control chamber cut with short window < 1.4-in

**Rapid installation**  
70 hours from wellbore access to integrity testing