

Q-Seal Wellhead – Double Barrier Recovery Case History



Client	Major Operator
Location	North Sea
Hanger Seal Type	13-3/8" Pack-Off Seal

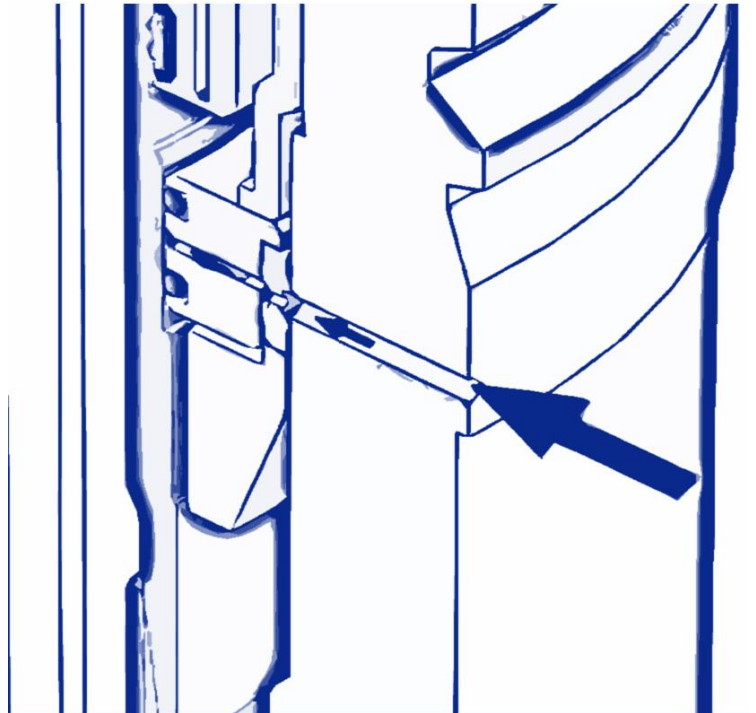
2-1/2 Hours To Reinstate Full Seal Integrity On \$100,000/day Well

The Challenge

Gas injection tests on a \$100,000/day oil production well identified that the 13-3/8" Pack-Off Seals were passing. This failure resulted in the 13 3/8" Void charging up from the C Annulus. With the 13-3/8" pack-off passing, the well was left with only one barrier to loss of containment.

The Solution

Restoration of 13-3/8" Pack-Off Seal by application of Q-Seal to restore a second barrier to the C annulus.



The Outcome

The 13-3/8" Pack-off and 13-3/8" Void were both tested before the job, with each void showing 240 psi. Q-Seal treatment was then injected behind the Pack-Off Seal. After the treatment, the seal was successfully pressure tested to 1,000 psi for 15 minutes. The 240 psi in the 13-3/8" Void was then bled to 0 psi. A 30-minute pressure build up test was successfully carried out with zero pressure increase in the void. The Q-Seal had restored integrity to the 13-3/8" Pack-Off Seal, reinstating a second barrier. The entire operation was completed in 2-1/2 hours.

The Impact

- Risk of losing \$100,000/day production if remaining seal failed was eliminated.
- Operation completed in only 2-1/2 hours, without impact to other operations.
- Well intervention avoided – no interruption to revenue stream.