

Case Study: Multi-Run Anchored Production Straddle (APS) with Polished Bore Receptacle (PBR)

Challenge

The client's subsea well had been shut-in for some time due to a tubing leak to the annulus. Using extensive diagnostics, the leak was determined to be at the Production Seal / Production Seal Bore interface. The challenge presented to Interwell was to isolate and seal-off the leak, while providing for production tubing movement during the life of the well.

Solution

The well had a minimum restriction of 3.562" ID. Due to the requirement to run through this restriction and set in the larger tubing below, a custom-engineered Multi-Run Anchored Production Straddle (APS) with a 3.44" OD and PBR was developed. The new 344-450 APS was designed, built, and tested per ISO14310 specification to a 4,000 PSI Vo rating in nine weeks in order for the client to satisfy rig scheduling limitations.

Value Created

The client saved significant expense, in rig time and many other time-sensitive costs, while retrieving and re-running the production tubing to change out with new production seals. The well was brought back on to production in a timely manner.

Date:

December 2015

Region/Field:

Deepwater Subsea
Gulf of Mexico

Key Capabilities:

- The PBR Straddle provides required stroke length where movement is expected in the production tubing
- Ability to set one straddle in tubing of different IDs
- Ability to recover PBR without having to retrieve whole straddle
- Vo tested

