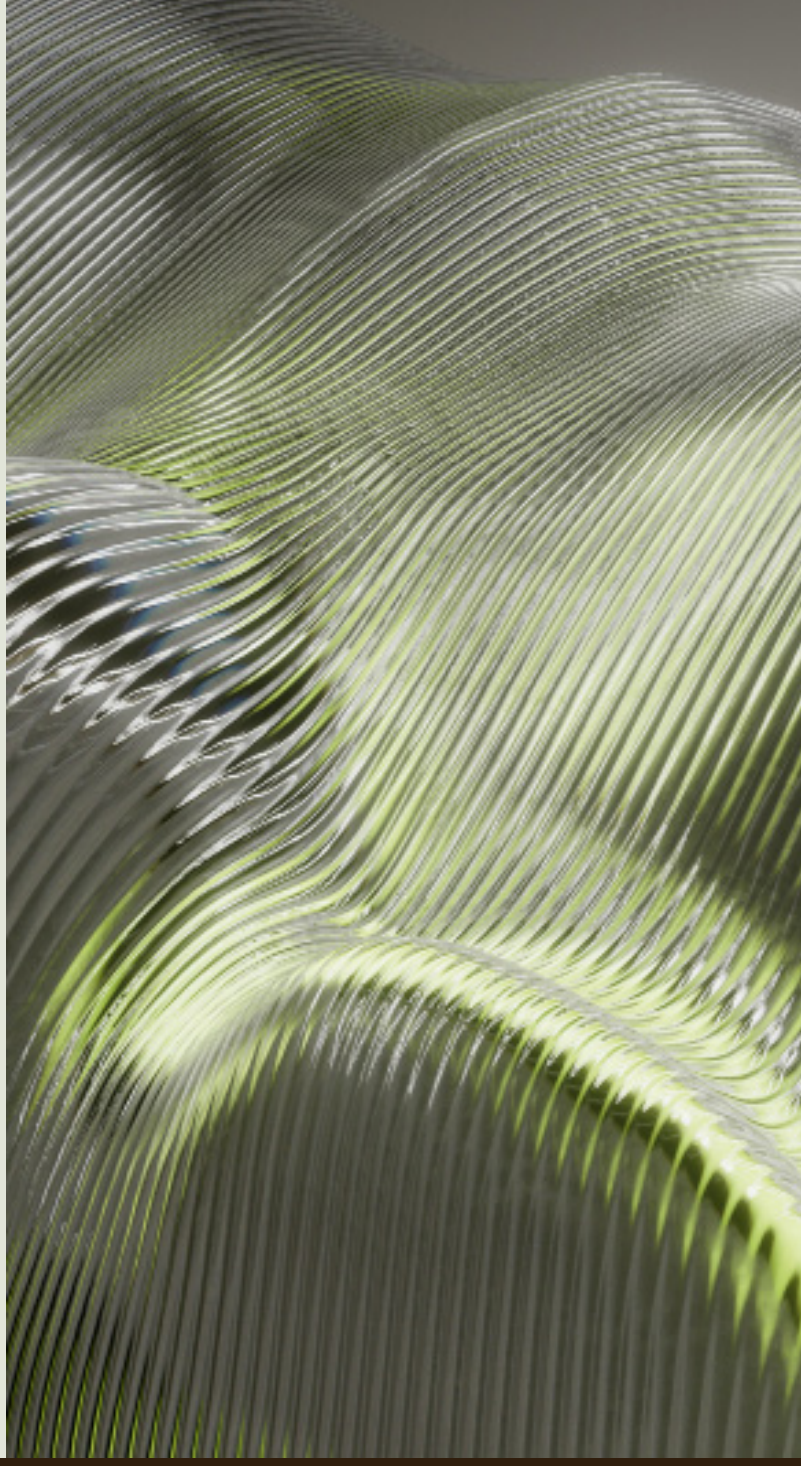
Isolate Extensive Leaks and Reinstate Gas Lift Functionality with Retrofitted Multi-Run Straddle System



Region
Qatar

Year
Jan 2023

Case study

Interwell

Region
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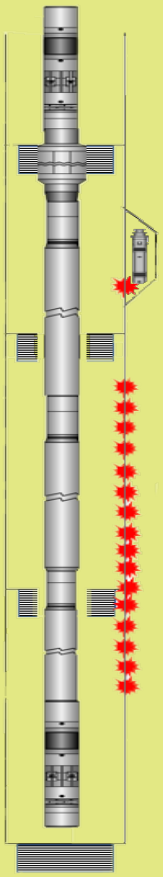
Key Capabilities

- → Isolate extensive leaking sections in the completion string.
- → ISO 14310 V0 qualified, fully retrievable Multi-Run APS with large through bore ID.
- → Can be retrofitted with PTC Go-Lift valves.
- → Cost efficient - avoiding an expensive workover.



Challenge

A major operator in Qatar was looking to isolate an 85ft leaking section in the completion string below the Side Pocket Mandrel (SPM) along with a suspected gas exit at the SPM in a high-producing oil well. Assigning the well to a workover would have been an expensive and lengthy process wherein the well would have to be shut down for extended periods leading to loss of production. The client was looking for a quick and efficient solution to restore well integrity without compromising the functionality of the gas lift and reinstate production back to optimum levels

Solution

Interwell proposed a multi-run anchored production straddle (APS) based on the ME design retrofitted with a PTC Go-lift sub to restore the gas lift capability. The APS was then customised to cover the entire leaking section including the SPM. The lower section was initially set followed by 2 sets of spacers on a GS, and finally, the upper section fitted with the PTC Go-Lift was latched onto the bottom sections.

Value Created

The APS was mobilised to the location within two weeks - enabling the operation to be completed within three weeks from when the plan was established. This enabled the client to significantly reduce production downtime and quickly switch the well back online. In avoiding a workover, the solution saved our client considerable time, cost and helped reduce emissions.

↑
APS