

Cost reduction through lean methodologies on a critical downhole connection with a history of failures and downtime



Leading oil and gas service provider in the world.

>50%
cost reduction

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.



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BUSINESS CHALLENGE

- Complex manufacturing process, tight tolerances, and high non conformance
- History of failures associated with well downtime, burnt electronics, loss of electric integrity

SOLUTION

- ITC Infotech's VAVE team modified a complex one-piece design to 3 simple piece parts completely avoiding complex milling operations
- Qualified and implemented programmable orbital welds on critical seal connections to maintain consistency in every weld
- Provided innovative heat fins design to extract heat during weld process and avoid damage to critical electronic parts

RESULTS

- Zero rejections, zero down time
- Enabled consistency in welds, where anyone anywhere anytime can perform the weld with the same quality
- >50% cost reduction due to simpler design and less physical tests
- Brought down the product cost from \$15,000 to \$6,500, translates to \$0.5M annual savings
- Eliminated redundant parts from the strain relief system and simplified assembly process with 30% less physical testing