

Drilling time:	1,404 h
Footage drilled:	137,537 ft
Total runs:	38

**Background**

During slimhole performance drilling in the Delaware Basin, iron fatigue and twist offs can be common and costly. Formation deflections are a regular occurrence and cause microdoglegs that introduce severe stress on drillpipe connections. Needing to improve the drillpipe fatigue life in this high-dogleg severity (DLS) environment, an operator decided to use the XPC\* extreme-profile single shoulder connection.

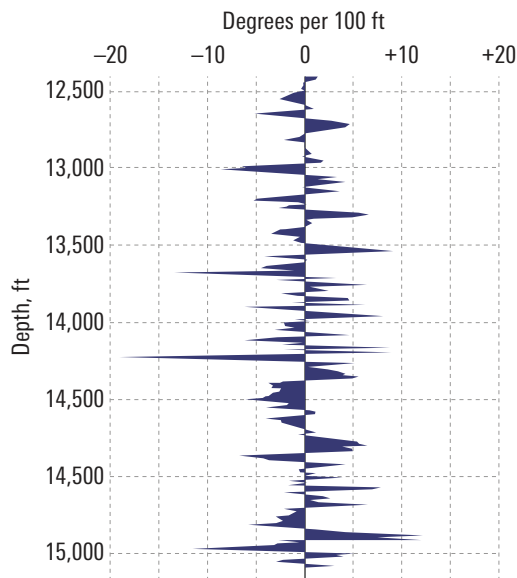
**Technology**

- XPC extreme-profile single shoulder connection

# XPC Connections Overcome Fatigue While Performance Drilling, Delaware Basin

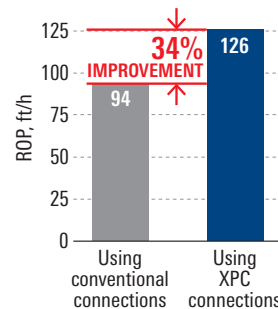
Extreme-profile single shoulder connection increases fatigue life 10 times over conventional connections

**4 3/4-in Iron Diameter Performance Drilling Continuous DLS**



*During a targeted test, the operator reduced twistoff events by 89% and increased fatigue life 10 times over conventional connections. This also boosted ROP by 34%. Due to the increased reliability of the connections, the operator was able to continuously push the performance benchmarks and achieve higher ROP.*

**Delaware Basin Average in 6 3/4-in Hole Size**



**10x LONGER FATIGUE LIFE**

**34% HIGHER ROP**

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