Case Study

Casing Integrity Restored with ESeal™ HP Patch Deployed on Coiled Tubing

Challenge

An Operator in the Permian Basin of West Texas had completed seven stages of their hydraulic fracturing program when they encountered a leaking connection at 16,380 ft. MD and a damaged casing joint at 16,300 ft. MD. The Operator needed a reliable solution that would cover up and isolate the two damaged sections of casing, withstand the surface pressures required during the frac program, and provide the required internal diameter to complete 16 stages through the casing patches.

Results and Value Added

• The damaged casing intervals in the lateral were covered up and isolated by the use of a 32-ft. ESeal HP Patch and a 59-ft. ESeal HP Patch, each run on coiled tubing.
• This procedure saved the operator over 24 hours of rig up and down time.
• Each liner was successfully pressure tested to 10,000 psi. The 3.320 in. post-expanded ID provided the required internal diameter needed to effectively and accurately complete the frac program.

Completion Year: February 2016
Location: Pecos Co., TX
Basin: Permian Basin
Well Type: Unconventional Shale
Base Casing: 4½ in. 13.5 lb/ft
Solution: 3½ in. ESeal HP Patch