

Case Study

ESeal™ High-Performance Liner Restores Wellbore Integrity; Maximizing Recoverable Reserves

Challenge

An Operator in West Virginia's Marcellus Basin had a horizontal well with approximately 3,200 feet of damaged casing and connections that needed to be repaired prior to completing the primary fracking operation. The Operator had previously attempted to repair the interval with an external patch without success. The external patch did not provide the internal pressure integrity to allow for the planned frac job with controlled isolation and injection rates at controlled entry points.

The Operator needed a solution that would isolate the damaged interval while providing the maximum internal diameter possible to complete the well as planned.

Solution and Results

The Operator had previous experience with Solid Expandable Technology and wanted a solution that would restore wellbore integrity while achieving the largest ID possible and were confident that choosing to run the ESeal HP Liner would meet their objective.

A 4-1/4 x 5-1/2 in. ESeal HP Liner was run to cover the 3,200 ft interval

in the lateral section of the well. The liner was successfully expanded, isolating the damaged casing and connections, restoring wellbore integrity. The post-expanded internal diameter of the HP Liner enabled the Operator to continue with the original planned frac design. The ESeal HP Liner is designed with enhanced connections that can withstand the extreme high pressures seen during hydraulic fracturing.

The Operator was able to meet their objectives with this high profile well by pumping 115 frac stages at 9,000 psi maximum treating pressure. This well was of major importance as it was the longest lateral to be drilled in the Marcellus Basin and North America Land.

