

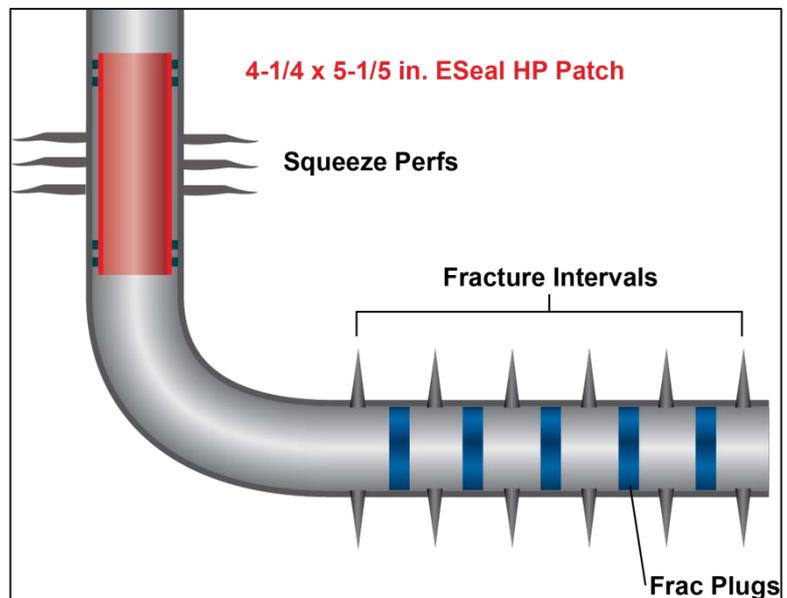
Case Study

ESeal™ HP Patch Covers Squeeze Perforations; Enabling Planned Frac Operations

Challenge

An operator in the Anadarko Basin was running their 5-1/2 in. production string in a horizontal, unconventional shale well when they were unable to get cement to the top of the curve. They decided to perforate above the curve and squeeze cement down the annulus of the 5-1/2" production string. The Operator needed to be able to frac the entire horizontal interval with their planned plug and perf method with frac treating pressures greater than 10,000 psi. A cement squeeze would not be a permanent method to covering the perforations.

The Operator needed a permanent solution to cover these squeeze perforations that would withstand the frac treating pressures while providing the required ID to allow for the long range frac plugs. The Operator had successfully installed the ESeal HP Patch in more than ten wells in this same field for the same application which made their decision to cover these squeeze perforations with an ESeal HP Patch the best possible solution.



Solution

The ESeal HP Patch was successfully installed within twelve hours, covering the squeeze perfs enabling the Operator to begin the frac operation. The Operator saved a day and a half in squeeze time alone, not including mitigating any possible failures of a cement squeeze during the frac. The frac job went as planned and all the plugs were successfully drilled out and the well was put on line.

- ▶ Completion Date: January 2018
- ▶ Location: Anadarko Basin
- ▶ Base Casing: 5-1/2" (23.0 lb/ft)
- ▶ Issue: Cover Squeeze Perforations
- ▶ Solution: 4-1/4" ESeal HP Patch
- ▶ Depth: 586 – 616ft

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