



# Isolating a Cement Squeeze for a High Pressure Frac

## PROBLEM

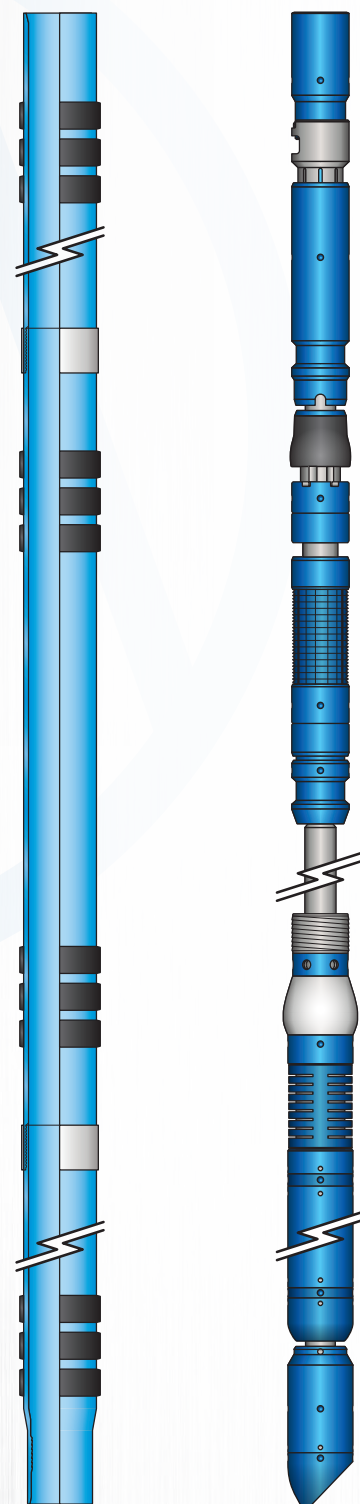
After reviewing cement bond logs, a major operator in the Utica was required to perforate their 5-1/2 in. production liner for a cement squeeze to bring the top of cement to acceptable levels. Before the well could be fractured, these perforations had to be isolated from the anticipated 11,000 psi treating pressures.

## SOLUTION

- Mohawk's premium cased hole patch system *FracPatch* was deployed across the perforated interval
- *FracPatch* was installed and expanded in one trip. No shoe drill out is required
- Extensive lab testing was performed prior to this installation to confirm the patch could handle a minimum of 100 pressure cycles at 11,700 psi
- With Mohawk's premium expandable connections, the expandable patch can be as long or as short as required

## RESULTS

- The expandable patch was successfully deployed and expanded in one trip
- Casing and patch successfully pressured tested to 11,000 psi
- The well was successfully fractured conventionally with "plug and perf" operations running long range frac plugs below the patch



## PROJECT DETAILS

**Location:** Ohio

**Date:** November 2013

**Well Measured Depth:** 14,900

**Inclination:** 0°

**Casing:** 5-1/2 in. 23 lb/ft

**Patch Length:** 1,092

**Installed Patch ID:** 3.990 in.

**Top of Patch:** 7,208 ft

**Bottom of Patch:** 8,228 ft

**Frac Pressure:** 11,000 psi