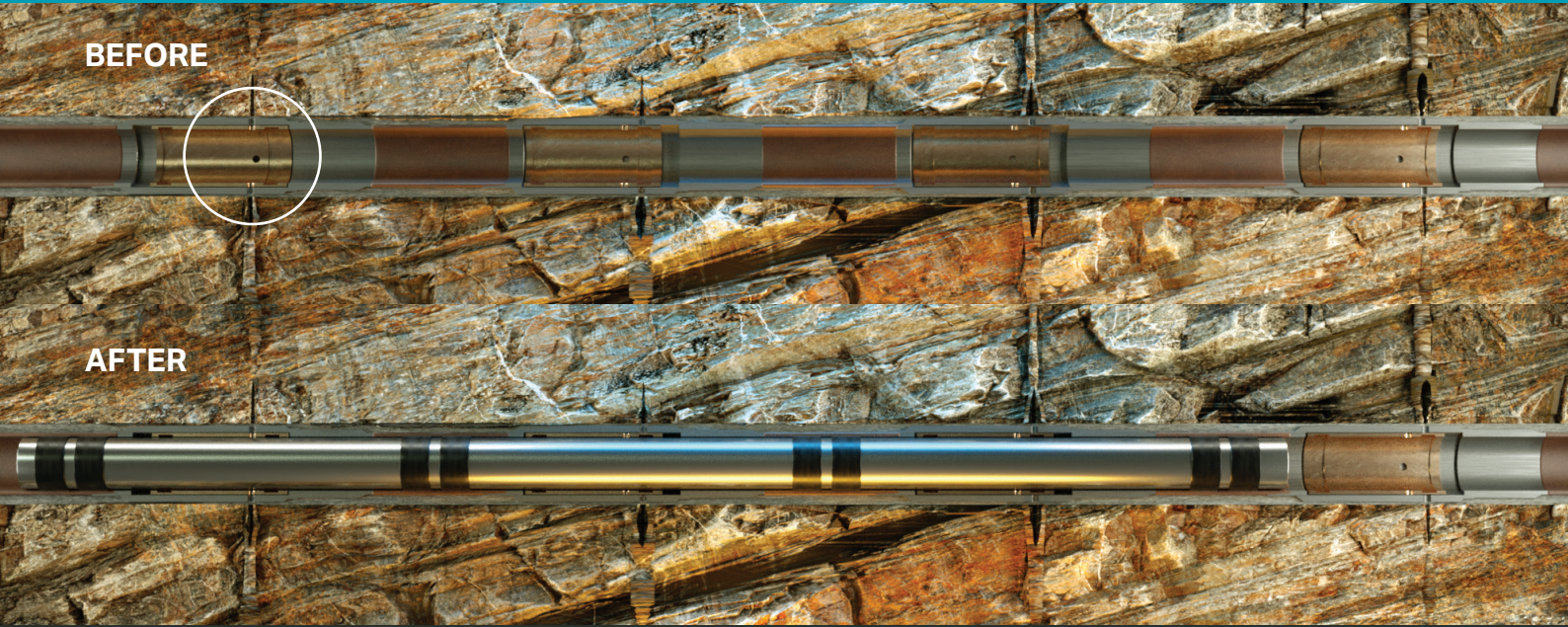


ReLine Prime



Isolating Open Frac Sleeves in the Bakken

PROBLEM

During the frac job on a 34 stage ball and sleeve type completion, it was discovered that a frac sleeve towards the heel of the well had prematurely opened after the 1st stage had been stimulated. With this sleeve open, none of the remaining stages could be fractured.

SOLUTION

- Coretrax's premium cased hole patch system ReLine Prime was deployed across 3 frac sleeves that were milled out to 3.800 in. inside 4-1/2 in. 11.60 lb/ft casing
- The ReLine Prime system, was configured to run through the ID restrictions of the frac sleeves and seal off in the larger casing ID
- Frac Sleeves did not have to be milled out to full casing drift
- The patch was installed in one trip with no shoe drill out required, keeping the remaining frac sleeves free of debris
- With Coretrax'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 over the milled frac sleeves in one trip
- The remaining stages were successfully fractured by dropping the remaining frac balls through the 3.259 in. ID of the patch down to the unopened frac sleeves

PROJECT DETAILS

Location: North Dakota
Date: October 2013
Well Measured Depth: 20,883 ft
Inclination: 90° F
Casing: 4-1/2 in. 11.60 lb/ft
Patch Length: 730 ft
Installed Patch ID: 3.259 in.
Top of Patch: 11,771 ft
Bottom of Patch: 12,500 ft
Frac Pressure: 9,500 PSI

