



Repairing Collapsed PBR and Isolating Open Hole

PROBLEM

A 4.5 in. completion consisting of 25 frac sleeves was set too deep in the well exposing 20 ft of open hole between the top of the liner to the bottom of the previous 7 in. casing shoe. While attempting to set the liner top packer, the tool string unknowingly tracked down the side of the packer which mechanically collapsed the 20' PBR.

SOLUTION

- Mohawk's premium cased hole patch system *FracPatch* was deployed across the collapsed PBR and 20 ft open hole section to isolate both issues
- The bottom of the patch was sealed and anchored in the ID of the 4.5 in. 11.60 lb/ft casing below the existing liner top
- The top of the patch was terminated with a custom crossover exit joint designed to allow a new 30 ft PBR to be fixed to the top of the patch
- This customized system was installed and expanded in one trip with no shoe drill out required
- A seal assembly was stung into the new PBR and an FA packer set in the 7 in. casing

RESULTS

- The expandable patch was successfully deployed and expanded in one trip
- The wellbore successfully pressure tested to 2,100 PSI after seal assembly was landed in new PBR
- The well was successfully fractured by dropping the frac balls to their respective frac sleeves

PROJECT DETAILS

Location: Wyoming

Date: October 2014

Well Measured Depth: 20,970 ft

Casing: 4-1/2 in. 11.60 lb/ft

Patch Length: 78 ft

Installed Patch ID: 3.416 in.

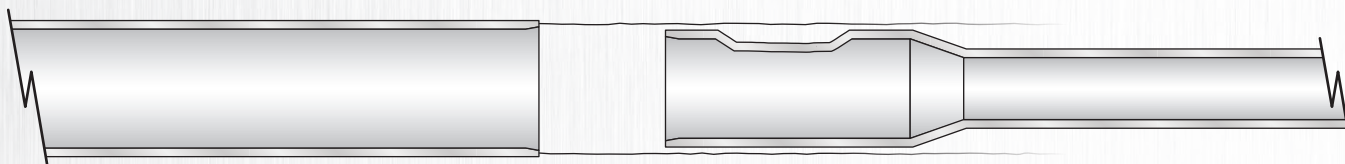
PBR Length: 30 ft

Top of New PBR: 9,251 ft

Bottom of Patch: 9,357 ft

Frac Pressure: 8,000 psi

BEFORE



AFTER

