

Case History: HydroPull™



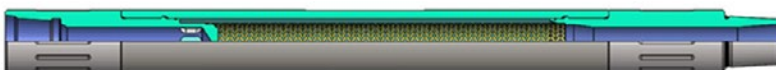
HydroPull™ Tool Eliminates Use of Friction-Reducing Beads in the Marcellus Shale

Several jobs required milling bridge plugs in a 5,000 ft. to 6,000 ft. (1,524 m to 1,829 m) horizontal section with 5 ½-in. (140 mm) casing set to 11,700 ft. to 12,000 ft. (3,566 m to 3,658 m) MD.

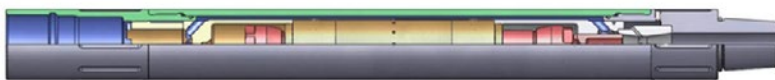
Prior to this work, the operator had been specifying friction-reducing beads and chemicals in order to overcome friction effects in the well. The wells were inclined up to 95° with some heavy sand accumulations.

Thirty-one composite bridge plugs were milled using the HydroPull™ tool, and 37 were milled without the HydroPull™ tool using beads and chemicals. The 2 7/8-in. (73 mm) HydroPull™ tool was operated on 2-in. (51 mm) tapered coiled tubing with a PDM and mill using water at 2.5 bpm (397 lpm).

In the toe of the well, the average plug milling time was reduced from 147 minutes to 36 minutes, a factor of 4. In the heel, the plug milling time was cut in half.



Tempress Screen Sub



Tempress HydroPull™ Tool

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