WellBoss

GET MORE FROM EVERY COMPLETION

Head-to-Head Frac Plug Comparison in Northern Colorado

CHALLENGE

An operator in Northern Colorado's Rocky Mountain region wanted to move from using a conventional plug design to one that was more efficient and would address the following:

+ Reduce plug presets.
+ Reduce fluid usage getting plug-n-perf gun strings downhole.
+ Reduce excessive material on drillout (common to longer plugs).

RECOMMENDATION

WellBoss proposed using the Boss Hog® ball drop frac plug system with several risk- and cost-reducing features including the following:

+ One-piece composite top slip constructed to avoid breakage and presets constructed of carbide-free and ceramic-free mild steel buttons that hold firm, prevent casing damage, and drill out easier than competitor plugs.
+ The HELISEAL® fluid control system captures fluid while the plug is pumped down, enabling plugs to be run at speeds up to 900 ft/min while pumping at just 8 bbl/min, even in long lateral sections. Boss Hog plugs use 40% less water to deploy plugs and perforating guns than competitive plug designs.
+ The one-piece lower slip, manufactured from a proprietary cast blend, holds more than 15,000 psi pressure, is segmented to make it easy and quick to drill out with minimal casing damage, and prevents presets.

Operator Saves $180,000 in Run Time and Fluid Volume

BOSS HOG® FRAC PLUG

+ Casing = **5.5" #20**
+ True Vertical Depths = **7,000'**
+ Total Depths = **12,000' +**
+ Total Number of Plugs Used = **29**
+ Static Temperature = **250°F**
+ Max Pressure = **8,000 psi**
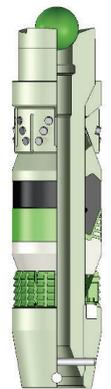
BENEFITS

The technologically evolved design of the Boss Hog® frac plug allows operators to:

+ Reduce over-flushing during pumpdown.
+ Maintain seal during entire stage frac.
+ Eliminate premature settings during pumpdown.
+ Reduce debris and drill out times.

TIME AND COST SAVINGS >> **40%** reduction in pumpdown fluid volume >> **50%** faster plug deployment than competition >> **12 HOUR** completion time and pumpdown fluid reduction = $180,000 savings for operator

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