

# Boss Hybrid Plug Head-to-Head in the Utica Shale

## CHALLENGE

A large E&P operator in the Marcellus/Utica shale play wanted an alternative to the conventional plug design they had been using. They were specifically looking for a frac plug that could address the following:

- + Less expensive (cost efficient).
- + Able to run without presets.
- + Increased drillout efficiencies.

## RECOMMENDATION

Since water efficiency was not a concern of the operator, WellBoss proposed using the Boss Hybrid composite frac plug because it is considerably less expensive.

In addition to approaching WellBoss, the E&P operator approached a competitor, as well, and a 4 well-pad was divided in half so that both plugs could be evaluated at the same time.

## A Less Expensive and More Efficient Alternative

### BOSS HYBRID FRAC PLUG

- + Casing = **5.5" #20**
- + True Vertical Depths = **11,900'**
- + Total Depths = **15,000' +**
- + Total Number of Plugs Used = **76**
- + Static Temperature = **130°F**
- + Max Pressure = **9,500 psi**



### BENEFITS

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

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

TIME AND COST SAVINGS



8.5 MINUTES

drill time per plug



40%

less debris (mill) produced than competitor plug



500 FPM  
~4.75 BBL/100'

achieved higher speeds during pumpdown while using less fluid than past provider and current competitor