

ECO-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:

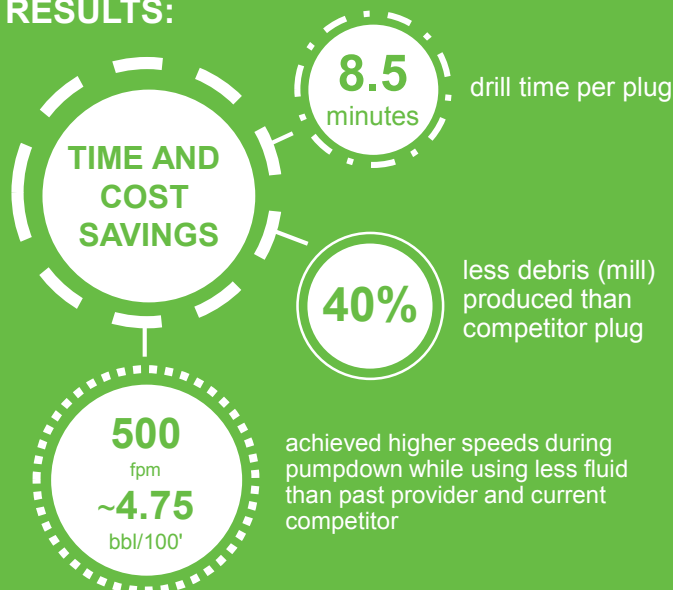
- Less expensive (cost efficient).
- Able to run without presets.
- Increased drillout efficiencies.

RECOMMENDATION:

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

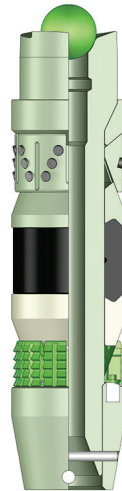
In addition to approaching Downhole Technology, the E&P operator approached a competitor, as well, and a 4 well-pad was divided in half so that both plugs could be evaluated at the same time.

RESULTS:



A Less Expensive and More Efficient Alternative

ECO-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 ECO-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.