



Case Study: Permian, United States

Knight™ Frac Plug – Time and Cost Savings due to Pump Down Speed

Challenges:

An operator with a five well pad running 5.5” Frac Plugs out in the Permian Basin was looking for efficient ways to save operating costs by running frac plugs that had the option of running a ball-in-place, the ability to run-in at high speeds all while minimizing fluid needed to get to setting depth.

Solution:

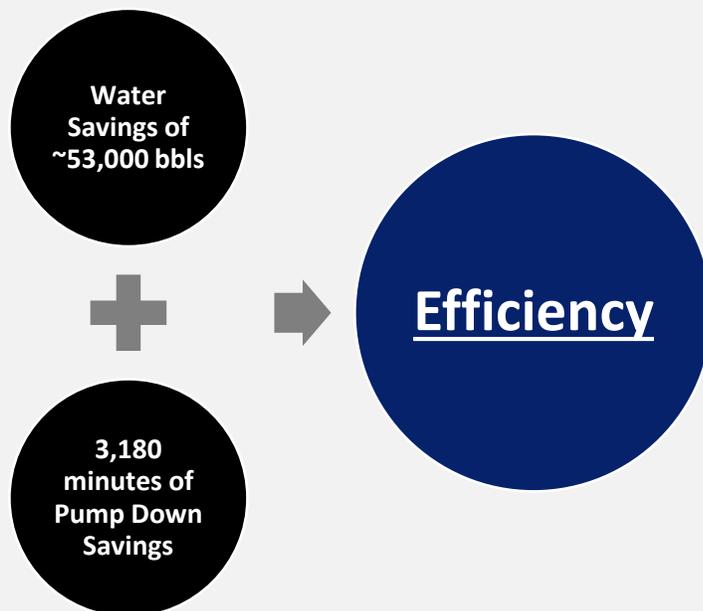
The customer opted to install a total of 265 Knight™ Frac Plugs with Pump Down Ring (PDR). Advanced design features of the plug allowed for speeds in excess of 800 ft/min, an increase of 400 ft/min compared to the previous supplier’s plug in the same wells. Not only was the operator able to increase pump down speed but they were also able to do it using 200 bbls less water per stage in the same wells.

Well Specification

- 5.5” - 20 lb/ft Casing
- ~9,500 ft Lateral Length
- ~18,000 ft TD

Results:

- Ball-in place option with PDR
 - Average fluid savings of 200 bbls per stage
 - Total water saving of ~53,000 bbls
- Time and cost savings on pump down
 - Average horizontal pump down speed in excess of 800 ft/min
 - Average time savings of 12 minutes per stage compared to previous supplier’s plug



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