



Case Study: South Texas, United States

King™ Frac Plug – Improved Pump Downs Saves Operator Time and Asset Costs on Location

Challenge:

An operator running 6" Frac Plugs out in the Eagleford Shale was looking for a plug that had better pump down performance.

Solution:

After previous successful run history, the customer opted to install 120 King™ Frac Plugs on a four well pad. Advanced design features of the plug allowed for RIH speeds in excess of 550 ft/min while reducing upwards of 25% of fluid per stage. The well was completed without incident, and all King™ plugs were drilled out in a single run, no motor stalls or short trips needed and mill times of under 3-minute average each with all plugs found at setting depth. All plug debris from the plugs were small from start to finish.

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Well Specification

- 6" - 24.5 lb/ft Casing
- ~10,000 -11,000 ft Lateral Length
- ~11,000 ft TVD
- ~11,000 psi Max Frac Pressure
- 290°F

Results:

- Run in Hole speeds between 500-550 ft/min
 - Previous plug provider RIH speed was 450-500 ft/min
 - Increased stages completed per day by and extra 1.5 stages
 - Able to shorten pad completion time by over one day
- Pump down rate was 14-15 bbls/min
 - Previous plug provider pump down rate was 21 bbls/min
 - No longer needed to use a third pump down truck on location to due lower rate
- Zero King™ Frac Plugs slipped or gave way during frac
- All plugs were tagged at the proper depth during drill out with under 3-minute average mill times
 - Previous plug provider had longer drill times, required multiple short trips for debris removal and **stuck 3 CT units on multiple wells/pads** prior to this job.

