



Case Study: South Texas, United States

King™ Frac Plug – Reliability Through Problem Area (Size 360 King Frac Plug)

Challenge:

An operator running 4.5” Frac Plugs out in the Maverick Basin was having issues with a tight spot in which 75% of the plugs had to be pumped down through. After multiple attempts to move through the tight spot slowly and presetting multiple plugs, the operator was looking for a frac plug that was rigid enough to take impact at speeds over 350 ft/min to make it passed the problem area.

Solution:

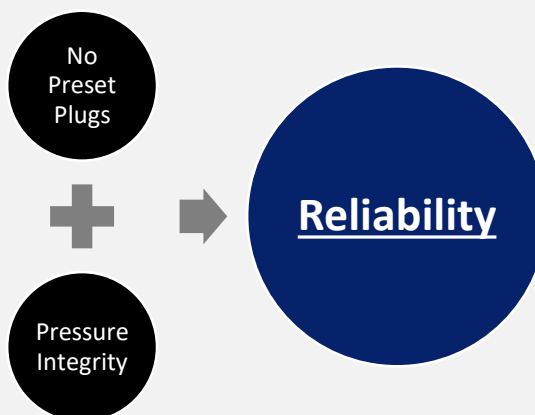
The customer opted to use Royal’s Size 360 King™ Frac Plug as it showed history of reliability in preset resistance at speeds as high 1,000 ft/min. It is these advanced design features that allow for high-speed impacts without presetting or critically damaging the plug. All 22 King™ plugs were deployed successfully.

Well Specification

- 4.5” - 13.5 lb/ft Casing
- ~6,000 ft Lateral Length
- ~2,500 ft TVD
- ~8,000 psi Max Frac Pressure
- 180°F

Results:

- Pump down speeds in excess of 400 ft/min through the tight spot
- No plug presets
- Zero King™ Frac Plugs saw pressure drops during frac



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