



Case Study: Permian, United States

King™ Frac Plug – Reliability outside of SOP

Challenge:

An operator running 4.5” Frac Plugs out in the Permian Basin was having issues with their toe sleeve clusters functioning properly on all three wells on the same pad. The operator was in need of using a different method to perform a casing integrity test so they could start normal frac operations.

Solution: (NOT RECOMMENDED)

The Operator made the decision to pressure test their production casings using the first Royal King Frac Plug in hole with guns above to perforate. The operator pressure tested the casing to 10,000 psi for 10 minutes with no pressure drop off. The Operator then proceeded to pull up and fire the first set of perfs. This was successfully repeated for all three wells on the pad.

Well Specification – 3 Well Pad

- 4.5”- 13.5 lb/ft Casing
- ~7,000 – 7,600 ft Lateral Length
- ~12,100 – 12,300 ft TVD
- ~9,000 psi Max Frac Pressure
- 240°F

Results:

- Held 10,000 psi and the Royal King Frac Plug for 10 minutes in each of the three wells
 - Zero pressure drops seen
- Remaining plugs for the duration of the job performed as expected with no issues



Reliability

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