

StackFRAC HD Leads to Increased Production and Savings of \$600,000 per Well

[United States, Marmaton StackFRAC HD System](#)

Packers Plus StackFRAC® HD ball-drop completion systems increased production and reduced completion costs for an Oklahoma oil and gas producer. The operator deployed the open hole multi-stage (OHMS) completion systems in the STACK (Sooner Trend, Anadarko, Canadian, Kingfisher) play in the Midcontinent region. These wells achieved 90-day initial production increases between 12 and 20% higher than offset plug-and-perf wells, and reduced completion costs by approximately \$600,000 per well.

Challenge

The two main methods used in the STACK play are OHMS ball-drop systems and cemented casing plug-and-perf (CCPP). The operator's first two OHMS completion systems were successfully run in Oklahoma's Woods County. Production from these OHMS wells was compared to nearby CCPP wells with similar depths, lateral lengths, and fluid and proppant volumes to determine if the new completion systems did, in fact, give better results.

Solution

With the OHMS wells achieving higher production, the operator continued solely with OHMS completions, using Packers Plus systems to optimize its operations in Alfalfa, Kingfisher and Woods counties. Packers Plus StackFRAC HD systems are completed in one continuous pumping operation, which reduced overall completion time.



Results

Despite geological differences in each county, cumulative production from the operator's OHMS wells was higher than CCPP wells in the area, which 90-day initial production ranges from 12 to 20% higher.

The operator was also able to bring wells on production faster. By running OHMS systems, the operator reduced the number of days between stimulation and production from 5 to 2.

Finally, a cost analysis confirmed that OHMS completions costs were lower than CCPP completion costs. When exclusively using OHMS systems, completion costs were further reduced. Between 2013 and 2015, the operator reduced its OHMS system completion costs from \$1.7 million to \$1.2 million, which was \$600,000 lower than CCPP completions costs in

2013.

