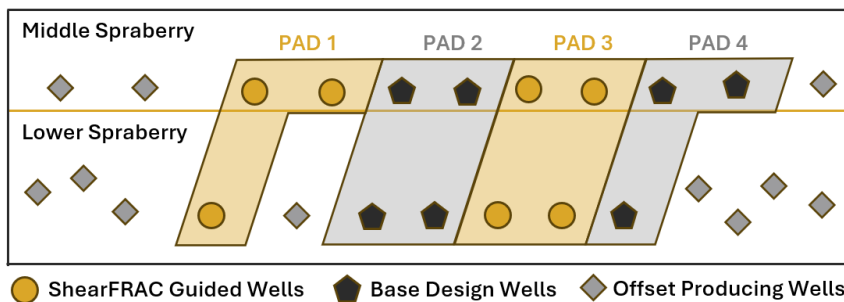


Completion Optimization Technology Results in 17% Uplift in Cumulative Production for In-Fill Child wells in the Midland Basin

Challenge

- + In-fill child wells often result in reduced production due to depletion within the reservoir from offset producing parent wells
- + A ShearFRAC partner in the midland basin was looking for ways to increase productivity from in-fill wells across a 14 well, 4 pad completion project



Solution

- + In a controlled trial, real-time completion optimization software FracBRAIN® was used to actively guide rate and proppant application in Pads 1 & 3 with the base design used on Pads 2 & 4
- + The software’s machine learning algorithm provides intra-stage adjustment recommendations to create higher complexity fracture geometry around the child wells, protecting parent well integrity in areas of depletion

Results

- + Due to depletion, bounded Pads 1 & 4 and unbounded Pads 2 & 3 were used to compare cumulative production after 7 months
- + Guided Pad 1 shows 8.8% higher production compared to Pad 4
- + Guided Pad 3 shows 23.6% higher production compared to Pad 2
- + Average 17% increase when combined

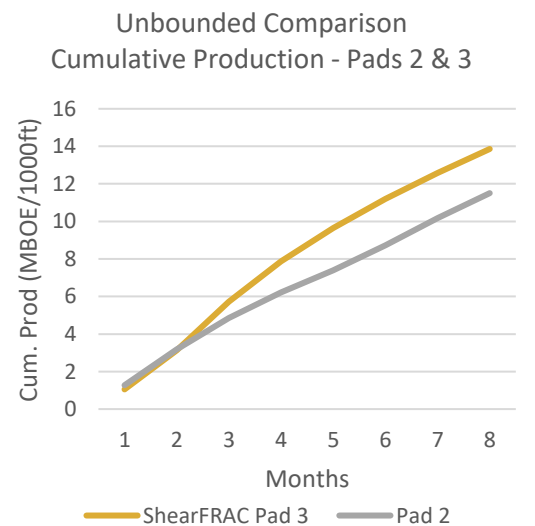
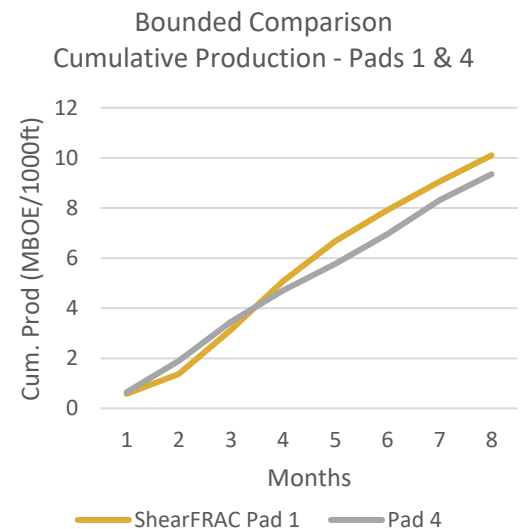
Basin – Midland

Formations – Middle Spraberry

Lower Spraberry

Location – Midland County, TX

Producing Well Type – Oil



Balancing Operational Efficiency with Fracture Effectiveness

For More Information:

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