

First Order Child Well Pair Outperform Unbounded Second Order Child Well Pair by 18% in 180-Day Cumulative Gas Production

Challenge

- + The execution of in-fill child well completions necessitates strategic planning to address the prevalent challenge of pre-existing depletion and fracture connectivity
- + In the Haynesville Basin, a ShearFRAC® partner faced the critical task of enhancing fracture effectiveness in newly drilled child wells positioned eastward of an established producing pad with over 15 months of production depletion

Solution

- + Non-invasive pressure diagnostics were used on the first order child wells to monitor fracture event activity in real-time
- + Tailored pump schedules and proppant loading in conjunction with real-time adjustments were applied to create complex secondary fracture networks within the reservoir near the child wells
- + Each stage was optimized to avoid detrimental fracture driven interactions with the parent wells, pre-existing hydraulic fractures and reservoir depletion

Results

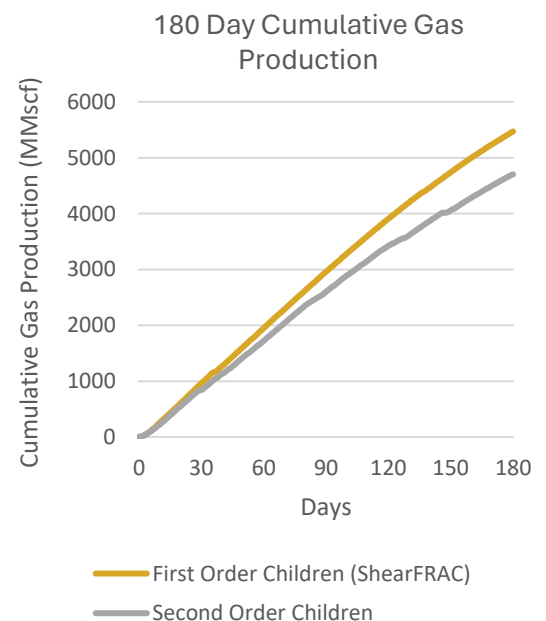
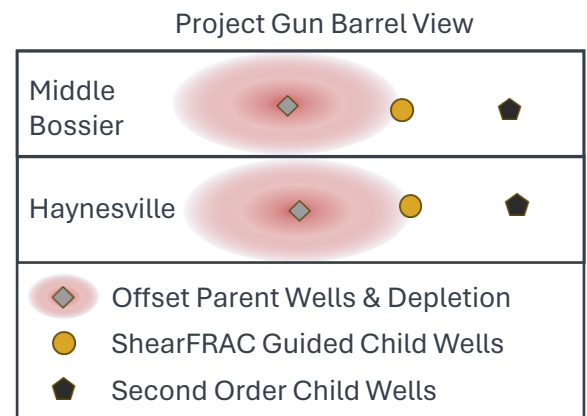
- + In a depleted area where reduced performance was anticipated, the first order child wells exceeded the production of the second order child wells by 18% over a period of 180 days
- + The impact of the enhanced secondary fracture network is evident on the cumulative production chart, where a clear divergence is observed following the decline of initial production after approximately 90 days

Basin – Haynesville

Formations – Middle Bossier
Haynesville

Location – Red River Parish, LA

Producing Well Type – Gas



Balancing Operational Efficiency with Fracture Effectiveness

For More Information:

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