

The Impact of Real-Time Pressure-Guided Completions ShearFRAC + InDZone in Action

One of ShearFRAC's partners, a major Haynesville operator, recently put pressure-based diagnostics to the test on a technically challenging three-well child pad surrounded by six high-producing parent wells. The goal? Reduce fracture-driven interactions (FDIs), protect parent well integrity, and maximize stage level stimulation effectiveness.

In collaboration with InDZone Consulting and the operator's planning and execution teams, a proactive **Fracture Geometry Control** (FGC) strategy was developed. Offset production data, well spacing, and known FDI risks were used to guide treatment designs that prioritized fracture containment and minimized exposure to depleted pressure sinks. This upfront planning enabled specific completion schedule adjustments aimed at reducing preferential fracture growth toward vulnerable parent wells.

During execution, **ShearFRAC's surface pressure analysis** was used to monitor fracture behavior in real-time. This allowed the team to detect early signs of FDI activity, make tactical design changes on the fly, and measure the direct impact of those changes. **Automated live alerts** flagged high-risk interactions and triggered standardized, targeted mitigation efforts using high-conformity lightweight proppant and dynamic pump schedule adjustments, tailored to control fracture growth and enhance fracture complexity. This responsiveness enabled the operator to maintain fracture energy around the child well, increasing both the **stimulated rock volume** (SRV) and **volume to first response** (VFR).

The impact was clear: stages completed with this real-time workflow showed strong FDI mitigation performance, with over **90% success** in modern completions and **100% mitigation** in older offsets. Despite typical expectations of 20–30% production write-downs for child wells, this pad delivered **record-setting results** across the operator's Haynesville portfolio, with peak rates exceeding 179 MMscfd and projected **EURs of 2.4 Bcf per 1,000'**. Parent wells were brought back online with **no measurable degradation in performance**.

By integrating ShearFRAC's platform with InDZone's FGC technology into the execution workflow, the operator gained real-time visibility, executed with greater control, and achieved meaningful improvements in well performance and overall development economics.