



CASE HISTORY

Reservoir Optimization: Injection Testing

PosiFrac® Straddle System

CUSTOMER IN THE PERMIAN BASIN REQUIRES MINI-FRAC ANALYSIS TO OPTIMIZE THE HYDRAULIC FRAC OPERATION

PosiFrac® Straddle System can be used to mini-frac multiple intervals to characterize formation stress and improve reservoir understanding



CHALLENGES: A Permian Basin operator required a mini frac analysis to evaluate the well to determine formation stress, fluid efficiency, reservoir pressure, and calculate fracture heights before hydraulically fracturing the well. Improved understanding of these key factors allowed the operator to optimize the hydraulic frac operation.



PosiFrac® Straddle System

SOLUTION: TAM ran the PosiFrac Straddle System isolating multiple open-hole sections to perform mini-fracs on 5 separate zones during a single trip in the well. A pressure-temperature memory gauge was placed below straddle tool and a Surface Readout Gauge on wireline was used in the straddle interval to collect data during the operation. The PosiFrac Straddle System remains one of the most flexible and reliable inflatable packer systems for selectively testing, producing or stimulating multiple zones in both open-hole and cased wells.

RESULTS AND BENEFIT: The job was successful and TAM completed 5 individual mini-frac tests. Based on the pressure trends that were collected during the operation, the customer was able to determine the flow regime in the near wellbore region. With this improved reservoir understanding the operator was able to optimize their hydraulic fracturing operation saving time, reducing costs and improving well production rates.