ShearFRAC®

Real-Time Fracture Measurement Enables Operator to Reduce Stage Time and Fluid Usage while Increasing 120-Day Production by 18%

Challenge

+ A partner in the Eagle Ford basin approached ShearFRAC® to make improvements on an upcoming 6-well pad:
  - Reduce completion stage time
  - Reduce fluid and chemical usage
  - Maintain or improve Fractured Surface Area (FSA) creation during stimulation operations
  - Accelerate productivity analysis of completed wells

Solution

+ The FracBRAIN® completions software provides diagnostic measurements for fractured surface area and complexity in real-time during well completions
+ Real-time fracture measurements facilitate data-driven decisions to adjust the application of proppant and fluid, influencing the creation of a complex fracture network
+ Completion designs were optimized for fracture effectiveness and capital efficiency with focus on cost reduction while maintaining fractured surface area creation

Results

+ Fluid usage was reduced by 1,273 bbls/stage with cost savings in time and fluid of $40,000/well
+ 18% increase in normalized cumulative production after 120 days when compared to offset pads in the area
+ Correlation of R^2 = 0.98 between real-time FSA measurements and cumulative production validating productivity insights immediately following well completion

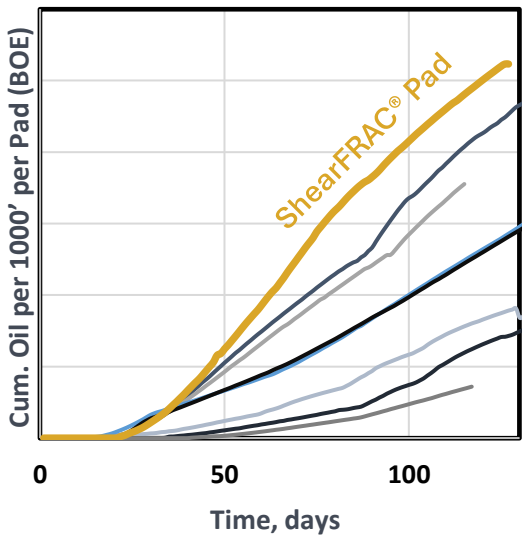
Basin – Eagle Ford

Formation – Eagle Ford

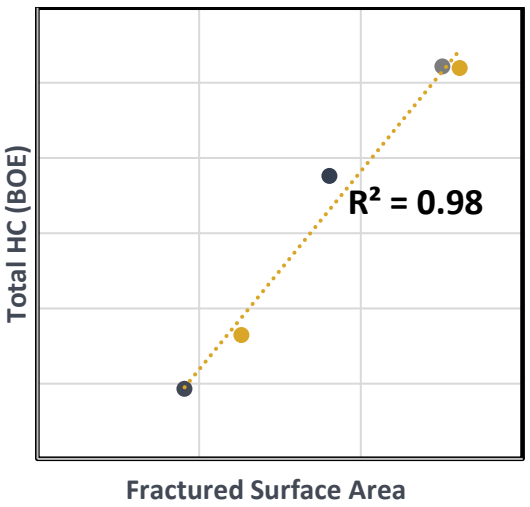
Location – Zavala County, TX

Producing Well Type – Oil

Production Improvements



FSA v. Production Correlation



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