Ascent high-side fracturing service

Elevate production with more propped fracture area

Applications

- High-side proppant placement in:
  - Unconventional plays
  - Conventional reservoirs

Features and Benefits

- Better proppant distribution across the fracture network
  - Increases conductive fracture area
  - Places proppant above the lateral
  - Reduces BOE costs by utilizing more of the reservoir's conductive potential
  - Slows decline rates
- Strong, ultra-lightweight proppant technology
  - Generates highly conductive fractures
  - Expands propped fracture area on the high side of the fracture
  - Delivers optimized, effectively placed stages
  - Improves reservoir recovery rates
- Improves fluid and proppant efficiency
  - Reduces multistage stimulation times
  - Minimizes operational costs and health, safety and environment (HSE) footprint

With the **Ascent™ high-side fracturing service**, Baker Hughes applies advanced modelling, specialized pumping techniques and leverages strong, ultra-lightweight proppant technologies to create and maintain open fractures above the lateral wellbore that cannot be effectively propped through conventional low viscosity fluid treatments.

Keep the fracture you paid for

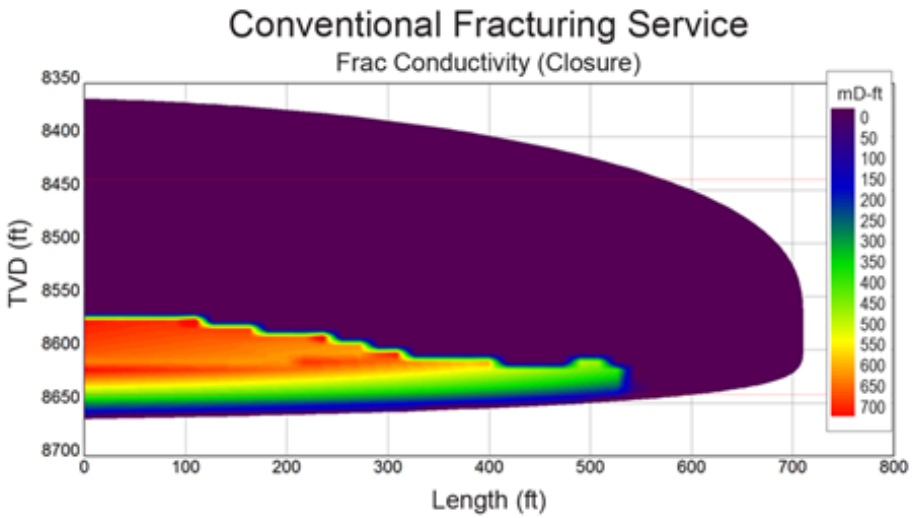
A common approach to generating more production from stimulated wells is to enlarge the fracture area by pumping greater fracturing fluid volumes. While higher volumes can create a larger fracture network, the additional treatment expense often fails to deliver an equivalent production increase.

This is because, with conventional sand and low viscosity fracturing fluids, it is extremely difficult to place any of the proppant above the depth of the horizontal lateral and into the high-side of the created fracture network. Instead, most of the sand creates "dunes" in the lower portion of the well and any sand that might reach above the lateral wellbore will fall before the fracture closes. As a result, much of the fracture operators pay to create is lost when the unpropped fracture area seals.

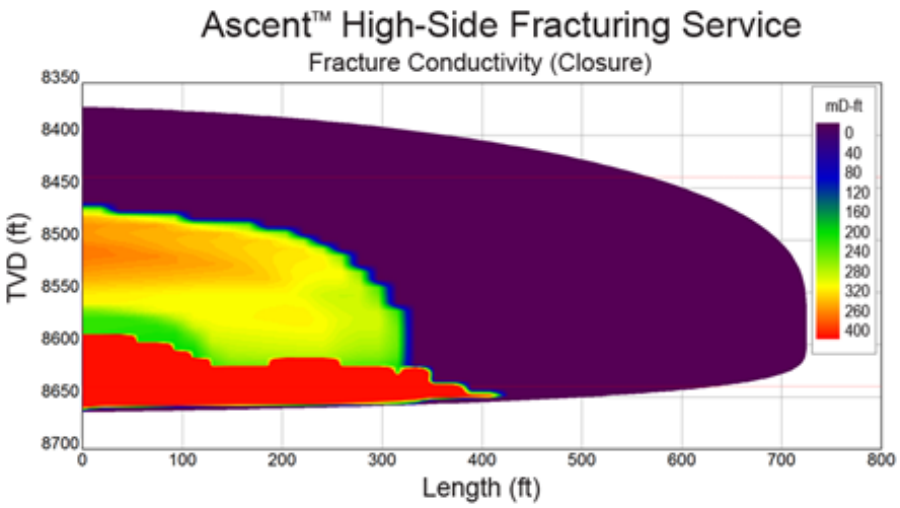
Produce more… from more of your reservoir

There are more efficient ways to improve your fracture network and production potential. The Ascent service's ultra-lightweight proppants establish clear flow paths throughout the entire created fracture network—including the area above the wellbore—to deliver better production from more of your reservoir.

To learn more about how Ascent fracturing services can help you improve your well stimulation operations, contact your Baker Hughes representative.



In conventional slickwater and lineal gel fracturing operations, the majority of the proppant settles within the fracture below the plane of the horizontal well. As a result, hydrocarbon flow can be restricted from the high side of the unpropped fracture.



With the Ascent fracturing service, strong, ultra-lightweight proppant is placed above the horizontal lateral maximizing the production potential of the created fracture for increased hydrocarbon flow.

Baker Hughes

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