

TECH REPORT

TEXAS AND LOUISIANA, USA

HAYNESVILLE SHALE

Lithology	Shale
Well depth	12,400-ft TVD [3,780-m TVD]
Surface tubing flowing pressure	1,500 psi [10.3 MPa]
Bottomhole static temperature	310 degF [154 degC]
Lateral length	3,542 ft [1,080 m]

Background

As an alternative to drilling new wells, an operator wanted to test the economic feasibility of refracturing its older gas wells in the Haynesville Shale to recover previously difficult-to-access reserves without adding new drill rigs. The operator decided to evaluate Broadband Sequence* fracturing service to determine whether the service could help overcome the technical hurdles of wellbore diversion to optimize production and increase revenue from existing wells.

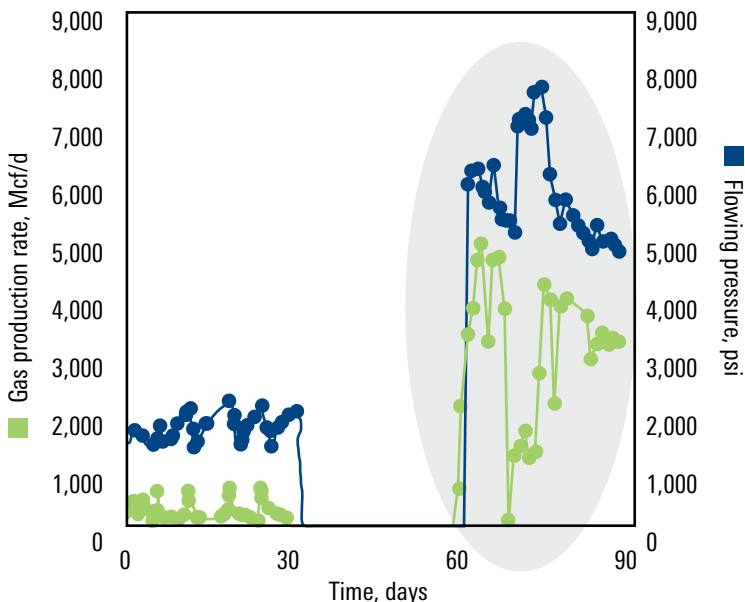
Technologies

- BroadBand Sequence fracturing service
- BroadBand* unconventional reservoir completion services

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Operator Uses BroadBand Sequence Service to Boost Flowing Pressure by 300%

Fracturing service used to restimulate previously fractured well, access new rock, and increase revenue, enabling a production increase of 4,900 Mcf/d



After employing refracturing screening analysis to select a well, Schlumberger used Broadband Sequence fracturing service to restimulate a lateral with 10 proppant stages separated by 9 composite pills. As a result, production increased from approximately 100 Mcf/d to 5,000 Mcf/d, and flow pressure rose from 1,500 psi to 6,000 psi [10.3 MPa to 41.4 MPa].

The production profile was significantly improved after the well was refractured using Broadband Sequence fracturing service following shut in to prepare for treatment.