

NORTH DAKOTA BAKKEN SHALE

Application	Multistage stimulation
Well type	Horizontal, openhole
Natural resource	Oil
Max. wellbore lengths	9,500 ft [2,896 m]
Max. stage count	40

Background

An operator was planning plug-and-perf multistage stimulation operations in three horizontal multizone wells in the Bakken. The completion packers needed to hold the maximum seal for zonal isolation in the openhole wells at the high temperatures and high reservoir and differential pressures typical in this field.

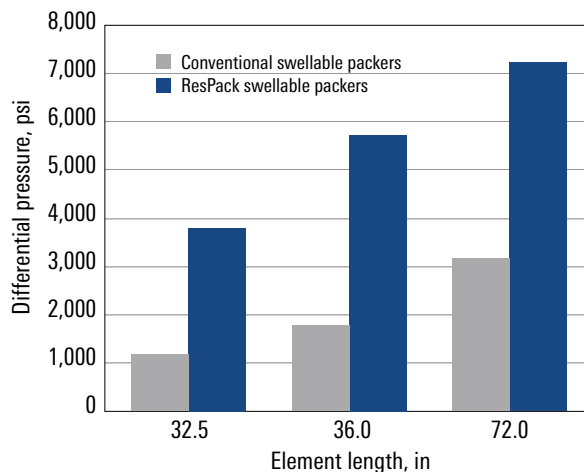
Technology

- ResPack* swellable bonded-to-pipe packer

ResPack Swellable Bonded-to-Pipe Packers Withstand Differential Pressures of More Than 7,500 psi [52 MPa]

Operator executes operations flawlessly in three gas wells and awards Schlumberger additional projects in Bakken Shale

Maximum Differential Pressure vs. Length of Packer Element



The proprietary design of ResPack swellable bonded-to-pipe packers enables shorter elements to withstand significantly higher differential pressures, approximately three times those of conventional packers. The shorter lengths also make the packers easier and less costly to install.

The water swellable bonded-to-pipe packer is rated to 10,000 psi [68.95 MPa], the highest psi/ft rating in the industry, and to 270 degF [132 degC].