



Expandable Liner Enables Conversion to Gas Storage

OVERVIEW

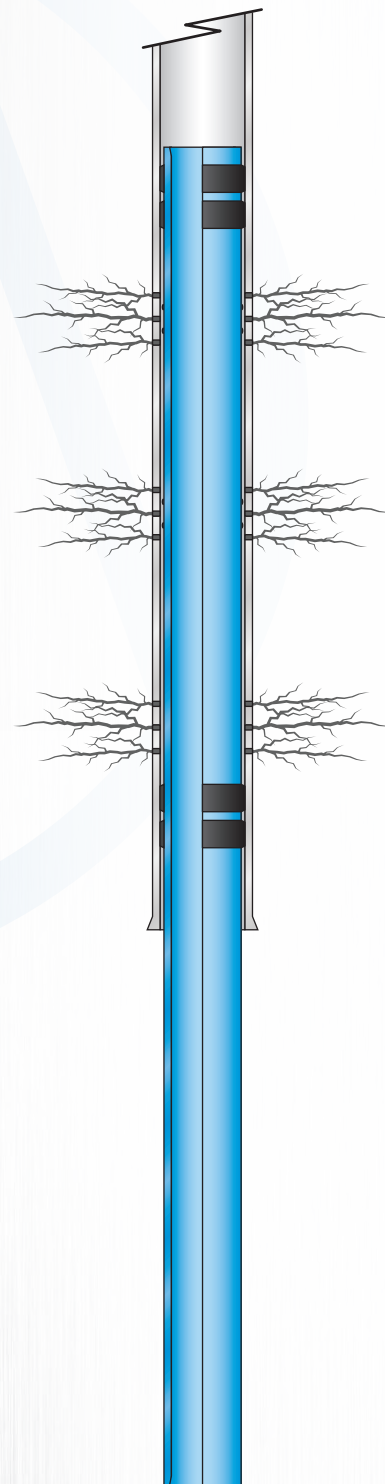
The operator needed to convert an old production well into a gas storage well by extending the shoe 183 ft into lower sands. The old perforations had to be permanently sealed off and reactive shale outside the shoe required support.

SOLUTION

- Mohawk's premium expandable liner system *MaxWell* was deployed across the old perforations and 137 ft of open hole
- Elastomeric seals were utilized inside the 6-5/8 in. casing to straddle and seal off the perforations
- The expandable liner served to mechanically support the reactive shale eliminating the need to pump cement below the previous casing shoe.
- The large post expanded liner ID over 5 in. provided suitable clearance to run a gravel pack completion through the installed liner

RESULT

- The well was successfully deepened 183 ft through a sensitive shale and old perforations were effectively isolated
- A gravel pack completion was deployed below expandable liner enabling gas storage



PROJECT DETAILS

Location: Onshore – Italy

Date: November 2011

Well Measured Depth: 3,350 ft

Casing: 6-5/8 in. 24 lb/ft

Casing Shoe: 3,167 ft

Expandable Liner Length: 311 ft

Expanded Liner ID: 5.145 in.

Top of Liner: 2,993 ft

Bottom of Patch: 3,304 ft