

Solution Mining Research Institute Fall 2016 Technical Conference  
Salzburg, Austria, 25 – 28 September 2016

## **Innovative First Gas Fill/Debrining of ZW A7, Zuidwending**

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### **Abstract**

ZW A7 is one of five dual well gas caverns of the second construction phase of the Aardgasbuffer Zuidwending, owned by EnergyStock B.V. (subsidiary of N.V. Nederlandse Gasunie) and operated by N.V. Nederlandse Gasunie.

To achieve all project goals of the first gas fill of this cavern two main modifications of the process were developed: A newly designed debrining string, a so-called extended liner that enables a first gas fill in multiple steps, as well as the time-saving BOTOX strategy to prevent the debrining equipment from salt-crystallization processes through an initial one-time injection of a defined volume of fresh water.

In this paper the first gas fill process of ZW A7 conducted with the extended liner in two steps in summer 2013 and autumn 2014, as well as the first experience of successfully performed BOTOX strategy will be presented.

Key words: Dual well cavern, debrining, first gas fill, brine dilution, flushing, BOTOX, extended liner, debrining string

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