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PITFALLS OF A NITROGEN-BRINE INTERFACE MECHANICAL INTEGRITY TEST

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Abstract

The Nitrogen-Brine Interface Mechanical Integrity Test (MIT) is the industry standard for testing solution-mined storage cavern wells in North America, and it is the preferred method by many regulatory bodies in both the United States (US) and Canada. However, conclusions from this method of MIT can vary dramatically depending on both the style of execution and analysis. This paper will present common variations of a pragmatic MIT and describe how these variations influence test conclusions. Additionally, case studies are presented showing how subtle variations in the method of analysis can produce conflicting conclusions.

Key words: MIT, Caverns for Liquid Storage

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