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TENSILE EFFECTIVE STRESSES IN HYDROCARBON STORAGE CAVERNS

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Abstract

The “no-tensile effective stress” criterion is discussed. It is proven that effective tensile stresses can be generated at a cavern wall after a rapid increase or decrease in pressure. The Etzel K-102 test, performed in Germany more than 20 years ago, is revisited using the notion of effective tensile stresses.

Key words: Effective Stresses, Fracturing, Cavern Tightness

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