

Rocksalt

Publieke samenvatting / Public summary

Aanleiding

While much is known about the plastic flow properties that make rocksalt the principal topseal above many gas reservoirs and a good geological storage medium, much less is known about how long it may take for damaged material surrounding wellbores in rocksalt to plastically heal and seal after well abandonment.

Doelstelling

The aim of the project proposed here is to obtain quantitative mechanism-based descriptions of the plastic flow (or creep) and self-sealing properties of rocksalt that can be applied in predictive numerical modelling and evaluation of natural well-system sealing behaviour and time-scales after decommissioning.

Korte omschrijving

The project will combine experimental work with microstructural studies to arrive at process-based descriptions of creep-closure and permeability evolution in damaged rock surrounding boreholes and other openings in rocksalt. The stability and transport properties of boreholes that have been sealed with rocksalt plugs will also be considered.

Resultaat

The project will yield process-based descriptions of rocksalt creep and permeability evolution that are tailor-made for incorporation into numerical codes, in use by TNO and industry, for modelling wellbore performance, thus enabling self-sealing of abandoned wells in rocksalt to be evaluated as a natural sealing technology. TNO will also develop a

Projectinformatie / Project information

Projectnummer / Project number

TKITOETKI2017-08-UG

Subsidiebedrag / Grant amount

€ 200.000,00

Algemene informatie / General information

Penvoerder / Secretariat

TNO

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simple software tool, based on fundamental work by
UU, for rapid performance evaluations.

De data in deze applicatie is afkomstig van de Rijksdienst voor Ondernemend Nederland (RVO) en wordt in
samenwerking met de Topsector Energie ontsloten.

Voor meer informatie over de Topsector Energie, ga naar www.topsectorenergie.nl.

Voor meer informatie over de TSE / Energie-Innovatie regelingen die RVO aanbiedt, ga naar www.rvo.nl/tse.