Hydraulic stimulation in the Netherlands – 50 years of experience

Overview

Experience
295 hydraulic stimulation jobs in 246 wells

Target
Tight reservoirs, often in Rotliegend and Triassic Sst

Opportunities
Relative small number of hydraulic stimulation jobs compared to potential incremental producible volumes

Statistical analysis

Result 1
Injected proppant volume larger than 90 metric tons are almost always a success

Result 2
All 10 stimulation jobs with a 12/18 mesh proppant are a success

Result 3
The formations with the majority of the hydraulically stimulated reservoirs are the Rotliegend and the Triassic

Opportunities

Typical ultimate recovery in conventional reservoirs
The current average ultimate recovery in Rotliegend and Triassic gas reservoirs in the Netherlands is 85%

Identified tight gas volumes
In the Dutch tight reservoir portfolio, 470 bcm of static GIIP volumes are identified with an estimated ultimate recovery of 47%

Prize
Increasing the ultimate recovery in the Dutch tight reservoirs by a few percentages by means of hydraulic stimulation can lead to an increased gas production of a part of the 250 bcm currently unconnected volumes

For all information and data on Exploration and Production in the Netherlands, see the Netherlands Oil and Gas Portal
www.nlog.nl & www.ebn.nl
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Hydraulic stimulation operation, Friesland area, the Netherlands, 2012