Background
Tight gas fields have reservoirs that cannot be produced at economic flow rates by the use of conventional techniques. The poor flow characteristics of tight reservoirs commonly are attributed to their extremely low permeability (<= 0.1 mD). World-wide, and the Netherlands are no exception, a large number of tight-gas reservoirs are known to exist. Unfortunately, our current lack of understanding on their geological controls and our limited knowledge on the appropriate application of stimulation methodologies frequently result in a sub-optimal reservoir development and disappointing ultimate recoveries. This prohibits the unlocking of this promising resource base. However, the current increase in gas-price combined with improvements in technological capabilities has created a renewed interest in tight-gas reservoirs.

Workshop format and content
During this year’s workshop organized by EBN and TNO we want to share some insights into the latest views on the geological controls of tight reservoirs. Simultaneously you will hear state of the art opinions on the use of completion and stimulation technologies. Operators having an interest in gas production from tight reservoirs will highlight some of these problems by presenting case studies. Subsequently, some speakers will address the geological context of tight reservoirs and the production-technical challenges. Finally, discussion will be held in order to formulate shared recommendations or agreed best practices.

Examples of questions to be answered are:

- What categories of tight reservoirs can be recognized in the Netherlands?
- Which stratigraphical formations and structural settings are most sensitive to reservoir impairment?
- Can they be detected or predicted with the help of seismic?
- What are the best strategies for the development of these reservoir types?
- Can innovative stimulation techniques help us?

Primary target group
Geologists and engineers involved in the exploration and exploitation of tight gas reservoirs.
Program Schedule

Workshop Tight Gas Fields
Tuesday Sept 19th 2006

Coffee 9.30  Registration

Session 1
10.00 Welcome (NITG)
10.05 JAAP BREUNESE (TNO -Utrecht) – Low permeability reservoirs in the Netherlands: What is the Prize?
      BIL ROSS (TUD- Delft) – U.S. Perspectives on Exploiting Tight Gas Resources
10.25 Questions/discussion
10.35 JOS OKKERMANN (NAM - Assen) – Overview of Optimal Development Choices Depending on Tight Reservoir Characteristics in the Dutch Offshore.
10.55 Questions/discussion
11.05 DIDIER-HUBERT DRAPEAU (Total - Pau) – Tight Gas Reservoirs: The TOTAL R&D Project Approach
11.25 Questions/discussion

Coffee  11.30

Session 2
11.55 FRANK JANSSEN (Chevron) – Q/1-Q/2c Halfweg, A Tight Gas Field Case History
12.15 Questions/discussion
12.25 WOUTER’d ENGELBRONNER (Wintershall) – Tight Gas Reservoir Challenges in the Netherlands
12.45 Questions/discussion

Lunch 12.55

Session 3
13.30 JOS OKKERMANN (NAM- Assen) – K17-FA Tight Gas Reservoir Development
13.50 Questions/discussion
14.00 MICHAEL KOHLER (GdF - Lingen) – Rotliegend Tight Gas Field Leer (Ostfriesland, Germany): A Development with a Multiple Hydraulically Fractured Horizontal Well
14.20 Questions/discussion
14.30 SAMI HAIDAR (Fracture technologies – Richmond, Surrey [UK]) – Data Gathering Requirements for Frac Design.
14.50 Questions/discussion
15.00 JOSEF SHAOUL (Pinnacle Technologies - Delft) – Advances in Treatment Design and Production.
15.15 Questions/discussion

Tea 15.20

Panel Discussion
15.30 Is there an optimal strategy for the development of tight gas reservoirs?
16.00 Closing Remarks

Poster Presentation