



PGK

Petroleum Geologische Kring

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<b>Venue:</b>	PGK's monthly meetings are held at the KIVI building, Prinsessegracht 23, Den Haag. Drinks are served from 17:00 hrs; the lecture starts at 18:00hrs.	<a href="http://www.pgknet.nl">www.pgknet.nl</a>	
<b>Membership:</b>	Apply for membership through the PGK website. The annual fee is €15.-		
<b>Accounts:</b>	ABN/AMRO Bank: 88.65.82.733 (PGK, Den Haag)		

## OCTOBER 2012 NEWSLETTER

### **17TH OF OCTOBER:**

The next PGK meeting will be on Wednesday, October 17th, 2012 at the KIVI building, Prinsessegracht 23, Den Haag.

17:00-18:00 hrs: Social hour

18:00-19:00 hrs: Lecture by: Hanneke Verweij

### **Spatial variation in magnitude of fluid overpressures in the Dutch subsurface**

*Abstract on separate page*

### **NOVEMBER PGK MEETING:**

The November meeting takes place on Wednesday, 21st of November 2011. Lecture by Daan den Hartog Jager on "Schoonebeek drilling 2009-2011: design, operations and results of 72 redevelopment wells".

### **NEW MEMBERS**

Applications for membership have been received from Christoph Boermann (Wintershall), Bärbel Dorn (Panterra), Sander Houben (TNO), Bart van Kempen (TNO), Diana Necea (Fugro), Indira Shatyrbayeva (Versatec Energy). If no objections are received prior to or during the next meeting, they will be admitted as member of our society.

### **WEBSITES**

If you come across interesting websites that may be of use to other members of the PGK, please send the URL to the web master ([raik.bachmann@sgs.com](mailto:raik.bachmann@sgs.com)), who will share them on the PGK website.



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**Program PGK meeting Wednesday October 17<sup>th</sup> , 2012**

**Address:** KIVI Building, Prinsessegracht 23, Den Haag  
**Social hour:** 17:00 - 18:00  
**Lecture:** 18:00 - 19:00

**Spatial variation in magnitude of fluid overpressures in the Dutch subsurface***Hanneke Verweij (TNO)***Abstract**

Knowledge of the subsurface pressures and fluid dynamic conditions is of critical importance for safely optimizing the responsible current and future use of the subsurface. Pre-drill knowledge on pore pressures and leak-off pressure conditions allows for appropriate selection of mud weight, well bore trajectories and drill casing programs, thereby enabling safe and cost-effective drilling. Research on pressure and fluid dynamics in sedimentary basins and the development and application of hydrodynamic analysis for characterizing oil and gas resources in the Netherlands started in the late eighties and continued to develop ever since. This paper presents and discusses the distribution of fluid pressures and leak-off pressures in relation to causes of fluid overpressure and the regional permeability framework, in particular.

The regional distribution of fluid overpressure in the Dutch subsurface shows great spatial variations in magnitude on different scales, both horizontally and vertically. On a regional scale, the observed fluid pressures and leak-off pressures demonstrate a clear difference in fluid overpressure conditions in the southern, north and northeastern part of the area. In the southern area, close to normal fluid pressures exist and are well below measured leak-off pressures. In the north, formation fluids are overpressured and approach the measured leak-off pressures in the Step Graben, Dutch Central Graben, Terschelling Basin, Schill Grund Platform and Friesland Platform. We show that the regional differences in fluid overpressure can in large part be explained by a combination of the differences in geological and associated permeability framework and burial history.

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As part of the BASF Group, Wintershall Holding GmbH has worldwide activities in the exploration, production and transportation of crude oil and natural gas.

Wintershall Global Support B.V., a subsidiary of Wintershall Holding GmbH, carries out Geoscience projects for the entire Wintershall organisation.

As an active operator, Wintershall is responsible for offshore exploration and production operations. In addition, Wintershall holds various non-operated interests. In all our activities our care for people and the environment plays an important role.

In our Wintershall Global Support team we have a vacancy for a

## Senior Explorationist

This technical role offers the opportunity to apply your broad geological expertise to regional basin studies, license application evaluations and farm-in opportunities. Whilst based in Rijswijk, the Netherlands, you will work closely with colleagues in Wintershall head office in Kassel, Germany, and with operating companies in several countries.

### Job Tasks and Responsibilities

- Apply geological & geophysical expertise to explore for hydrocarbon accumulations;
- Work on a range of projects from regional basin evaluations to play and prospect analysis;
- Combine a variety of information (i.e. well data, published play concepts, seismic, etc.) in a coherent way involving clear and consistent conclusions & recommendations;
- Forward creative subsurface ideas and solutions;
- Screen farm-in opportunities and conduct acreage evaluations in team environment, including participation in data room visits;
- Identify and assess key strengths and value of opportunities;
- Identify and assess key subsurface risks and uncertainties;
- Provide direct input to volumetric calculations and risk analyses of Exploration opportunities;
- Delivering direct input to the internal approval process including prospect appraisals, peer reviews, and management approvals;
- Maintain a high level of quality and consistency in the work done;
- Coordinate with other team members in both internal and remote teams;
- Coach junior team members.

### Job Requirements

- University Degree in Geology/ Geophysics or related discipline
- Strong seismic interpretation background with at least 10 years relevant experience
- Proven skills in regional geological and hydrocarbon play evaluation
- Familiarity with Play Based Exploration methods
- Experience with prospect generation/ ranking and writing well proposals
- Good numerical capabilities (i.e. can deal with volume, risk & uncertainty analysis)
- Experience with industry standard computer software involving geological/ seismic/ well interpretation and mapping
- Familiarity with other subsurface disciplines (Petroleum Engineering, Drilling, etc.)
- Good business sense and experience in project management
- Prepared to travel (Head Office in Germany, data rooms, other oil companies)

### Job-related Skills

- Enthusiastic Team Player
- Solid project management skills and ability to meet targets and deadlines
- Good written and verbal communication skills in the English language; (basic) knowledge of German would be an advantage
- Effective presentation skills
- Shows initiative and takes responsibility for own work

### Applications

For further information about this position please contact Fiona Dewey (Coordinator, +31 (0)70 3583110) or Arie Speksnijder (Geological Advisor, +31 (0)70 3729651). Please send your application letter and detailed resume to Suzy Joosen, HR Supervisor, via [hr.nl@wintershall.com](mailto:hr.nl@wintershall.com).