

PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH EN MIJNBOUWKUNDIG GENOOTSCHAP



PGK

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Web Site:	http://www.wak.tn.tudelft.nl/~pgk/index.html		Labels: Last update: 1-NOV-1998
Membership:	Please apply for membership by contacting the secretariate. Membership dues for 1998: Fl 30,- Membership dues for 1997 and previous years: Fl 25,-		
Accounts:	VSB Bank: 88 65 82 733 (PGK, Den Haag)	Postbank: 40 74 482 (PGK, Den Haag)	

JANUARY 1999 NEWSLETTER

MEMBERSHIP DUES

The dues for 1999 are now liable. Please transmit Fl. 30,- for membership payment for 1999 into one of the accounts mentioned above ASAP. For any outstanding membership dues for 1997 and previous years Fl 25,- should be transmitted.

FROM FEBRUARY 1999 WE WILL STOP SENDING NEWSLETTERS TO THOSE MEMBERS IN THE NETHERLANDS WHO HAVE NOT PAID FOR OVER MORE THAN TWO YEARS.

Forthcoming PGK events

January 27th 'F15A Triassic Gas Field - offshore Netherlands: an example of a mixed structural and stratigraphic trap', Mr. B. Mathis and Mr. F. Nieuwland (Elf Petroland)

February 24th Speaker and title to be announced in the February newsletter

PGK JANUARY MEETING – PLEASE NOTE DEVIATION FROM EXPECTED DATE

The **JANUARY** meeting will be held on **WEDNESDAY, JANUARY 27th**, at 17:45 PM and will be preceded by aperitifs from 17:00 PM onwards. The lecture will be held at the KIVI building, Prinsessegracht 23, The Hague.

Mr B. Mathis and Mr. F. Nieuwland (Elf Petroland) will speak about: 'F15A Triassic Gas Field - offshore Netherlands: an example of a mixed structural and stratigraphic trap'

The F15 block is located on the north-eastern offshore of the Netherlands, at the limits of the three geological provinces of the Schill Grund High platform, the Dutch Central Graben and the Terschelling Basin.

The F15A Triassic gas field has been discovered in 1985. The field is a high pressure, high temperature type field (675 bars and 128 degree Celsius). The structure is an anticline against fault limited to the North by a N130 trending fault and to the East and West by two salt ridges. The reservoir is the aeolian Volpriehausen sandstones of the Netherlands Lower Triassic. The gas is of Carboniferous origin.

A multidisciplinary study including structural reconstructions, geochemical analysis and field modelling led to a detailed timing of the different stages of the field history through the geological time :

- *Early Triassic : deposition of a very porous and permeable dune and interdune reservoir facies*
- *Mid to Late Triassic : strong salt pluggage of the reservoir in its eastern part*
- *Upper Triassic to Liassic : creation of the F15A structure, simultaneously with the Dutch Central Graben*
- *Lower Cretaceous : gas charging of the field*
- *Late Cretaceous (Laramian phase : 80 MY) : inversion of the F15 area giving hydraulic fracturation in the weak zones, leading to a leakage of the trap.*
- *Tertiary to present time : continuous subsidence contributing to give half of the present time overpressure.*

In its present shape, the F15A field is a mixed structural and stratigraphic trap laterally sealed by salt. As a consequence, the current GWC does not correspond to a structural spill-point but to the volume of gas possibly retained by the structure during the Late Cretaceous.

ANNUAL MEETING AND DINNER

The PGK annual meeting will convene on February 24, at 17.30. After the annual meeting we will enjoy our annual dinner, from 20:15 pm onwards in the Hooischoor. The costs will be around 50 guilders each person. Those who wish to attend please complete the form at the end of the newsletter and return it before February 13th to the secretary. More details will follow in the February Newsletter.

ANNUAL DINNER REGISTRATION FORM

Name:

Address:

Tel:

Return to Secretary before February 15 or e-mail M.Kosters@siep.shell.com

MEMBER NEWS

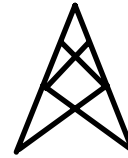
We have received applications for membership from **Mr. J. de Moor** (Amoco), **Mr. A.J. de Moor**, **Mr. M.E. Petit**, **Mr. P. Swint** (students Universiteit Utrecht), **Mrs. V. Abeels**, **Mr. M. Hagood**, **Mr. B. Herold**, **Mr. C. Kienitz**, **Mr. C. Suter**, **Mr. T. Visser** (Schlumberger), **Mrs. N. Forder** (INMARSAT), **Mr. G. Jenkins** (Shell Angola) and **Mrs. E.A. Rosendaal** (**Veba Oil Nederland**). If no objections are received by the end of the next meeting they will automatically be elected member of the society.

OTHER EVENTS OF INTEREST TO PGK MEMBERS

- January 11** SPE meeting, Water management and control, David Stevens, BP
- January 20-22** Geological Society - Petroleum/Borehole Research Group 'Geological Applications of Wireline Logs (GAWL III)' Burlington House, London. Contact: Neil Parkinson, Tel/Fax: 0181 296 9372, Email: neil.parkinson@dial.pipex.com
- January 21** DPS: Subsidence and seismicity due to oil & gas development, Jan Gussinklo, 12:00 sharp at Delft University of Technology, Faculty of Applied Earth Sciences, Mijnbouwstraat 120 Delft, in the large meeting room (room 204)
- February 16-17** Geological Society – Petroleum Group: Hydrocarbons in Low Permeability Reservoirs: Exploration, Evaluation and Production, Burlington House, London. Contact: Dr Joan Megson, Tel: 0171 823 3636, Fax: 0171 887 2199, Email: j.megson@amhess.co.uk
- February 22** DPS/SPE: Wireline Depth - Who cares ?, Harald Bolt
- March 17-18** Geological Society – Petroleum Group: The Role of Geological Fieldwork in Hydrocarbon Exploration and Production, Burlington House. Contact: David MacDonald, Tel: 01223 277586, Fax: 01223 276604, Email: david.macdonald@casp.co.uk
- March 18** DPS : Petrophysics alive & kicking, 12:00 sharp at Delft University of Technology, Faculty of Applied Earth Sciences, Mijnbouwstraat 120 Delft, in the large meeting room (room 204)
- April 12** SPE meeting: Improved reservoir management through innovative application of hydraulic fracturing technology, Larry Britt, Amoco
- May 20** DPS : Permeability through Stoneley Wave Analysis, 12:00 sharp at Delft University of Technology, Faculty of Applied Earth Sciences, Mijnbouwstraat 120 Delft, in the large meeting room (room 204)
- May 31-June 1** Groningen: Catalyst for the North West European Oil and Gas Industry
- April 15** DPS : Natural Gamma Ray in Minerals, Andy Hurst, Aberdeen University, 12:00 sharp at Delft University of Technology, Faculty of Applied Earth Sciences, Mijnbouwstraat 120 Delft, in the large meeting room (room 204)
- April 20-23** EAGE/SPE International Symposium on Petroleum Geostatistics, Toulouse, France. See also <http://www.spe.org/events/eage/>
- May 20** DPS meeting: Permeability through Stonely wave analysis, Baker Atlas, 12:00 sharp at Delft University of Technology, Faculty of Applied Earth Sciences, Mijnbouwstraat 120 Delft, in the large meeting room (room 204)
- June 7-11** 61st EAGE Annual Conference and Technical Exhibition, Helsinki, Finland. See also <http://www.eage.nl/eage5.html>
- June 17** SPE/DPS : Fracture Extension due to Water Injection, Barry Dross, Hagoort & Associates

*The following companies are warmly thanked for sponsoring the PGK in 1998:
Amoco Netherlands B.V. - Argo Geological Consultants - Chevron U.S.A. Inc., The Netherlands Branch - Clyde Petroleum Exploratie B.V. - DSM Energie - Elf Petroland B.V. - Energie Beheer Nederland B.V. - Fina Nederland B.V. - Hays Informatiebeheer B.V. - Nederlandse Aardolie Maatschappij B.V. - N.V. Nederlandse Gasunie - Oranje-Nassau Energie B.V. - PanTerra Geoconsultants B.V. - RWE-DEA Netherlands Oil GMBH - Shell Nederland B.V. – Unocal - Wintershall Noordzee B.V.*

Excursion questionnaire



PGK

A disappointingly low number of participants registered for the 1998 PGK field seminar. Just over 20 people joined the yearly excursion, barely enough to make the seminar financially viable. It is not known why the attendance was so low, and the PGK board has therefore decided to circulate this questionnaire in order to ascertain the preferences of our members regarding the organisation of future excursions. We kindly ask you to answer the following questions, and to bring the completed form either to the next meeting, or to return it to the excursion secretary (e-mail: M.Geluk@nitg.tno.nl or address below).

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Name (optional).....

Do you consider it the task of the PGK to organise a 2-3 day annual geological field seminar Yes/No

Do you consider it the task of the PGK to organise an additional 1 day excursion Yes/No
(May 1999 planned to the Land van Saaftinge, SW Netherlands)

The following questions are only for those who responded yes to the first question.

My main reason for not joining the Yorkshire excursion was that:

- I have been there before
- the date was not convenient
- the topics were not of interest to me
- other, namely.....

The plan for this year's (1999) excursion is to visit the Permian outcrops around the Harz (September).

- I will certainly join this excursion
- I will await further details
- I have been there before
- I have no interest in this seminar
- I suggest another theme and area, namely.....
-

Indicate which month would be most convenient for an excursion next year

This year (1999), there are two opportunities to join longer field trips, namely to the USA, organised by Evert vd Graaff and an excursion to Zimbabwe, announced in the KNGMG nieuwsbrief. Please indicate your preferences:

- I would prefer the USA field trip
- I would prefer the Zimbabwe field trip
- I would join neither of the two fieldtrips
- Estimate your chances to join a fieldtrip: 90% 50% 10%

If you would join one of the longer field-trips, would you still join the yearly PGK field seminar?
Yes/No

Additional comments.....

Please return to Mark Geluk, Excursion Secretary, c/o NITG-TNO, PO Box 157, 2000 AD Haarlem (e-mail: M.Geluk@nitg.tno.nl) or leave at the next PGK meeting.