

PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH MINBOUWKUNDIG GENOOTSCHAP



Secretary:	Frank van den Belt Panterra Geoconsultants BV Veerpolder 5, 2361KX	Treasurer:	Mat De Jong 023-5322645
Phone / Fax:	Warmond	Fax:	023-5517044
E-mail:	071-3019307 / 071-3010802 secretary@pgknet.nl	E-mail:	mat_de_jong@planet.nl
Venue:	PGK's monthly lectures are held at the KIVI building, Prinsessegracht 23, Den Haag. Drinks are served from 5 PM; the lecture starts at 6 PM.	www.pgknet.nl	
Membership:	Apply for membership by contacting the secretariat. Annual dues: Fl 30,- (2002: Euro 15,-)		
Accounts:	VSB Bank: 88 65 82 733 (PGK, Haarlem)	Postbank: 4074482 (PGK, Haarlem)	

NOVEMBER NEWSLETTER

21 NOVEMBER: MONTHLY MEETING

The next meeting will be held on Wednesday 21 November 2002. Drinks are served between 17:00 and 18:00 hrs. At 18:00 hrs. a lecture will be given by Victor Hitchings from Shell Technology Exploration and Production.

“PRODUCTION-GEOLOGICAL IMPLICATIONS OF THE NATIH 9C3D SEISMIC SURVEY”

Victor H. Hitchings and Hans Potters

(Shell Technology Exploration and Production, Volmerlaan 8, P.O. Box 60, 2280 AB Rijswijk, The Netherlands)

ABSTRACT - The Natih Formation in the Natih Field (Sultanate of Oman) is a heterogeneously fractured reservoir being developed by Gas Oil Gravity Drainage (GOGD). An understanding of the degree and orientation of fracturing is essential to the optimum development of the reservoir. A conventional 3-D (compressional) and a limited 9C3D (nine component three dimensional) seismic survey were carried out on the field in 1991. A revised fault/fracture model was developed from the conventional 3-D survey results in which 'domains' of similar fault/fracture character have been defined. Comparison with well production data indicates that the domains associated with strike-slip or rotational movement (interpreted as being more fractured than adjacent areas) are also areas of significantly higher well productivities. The 9C3D seismic survey results also show areas or 'domains' of differing shear-wave time splitting. A comparison of the fault/fracture domains with the shear-wave time splitting domains exhibits a close relationship where areas of highest shear-wave time splitting coincide with areas of most intense fracturing. The integration of fault/fracture modelling, well production characteristics and the 9C3D survey results indicates the potential of the latter as a field development tool, during the stage of optimizing well locations, well planning and reservoir management decision making.

OTHER PGK EVENTS

19 December

At the PGK Christmas Meeting on Wednesday 19 December M. Claps (Agip KCO) will give a lecture titled: “**The Cape Roberts Project: the past history of Antarctic climate and the challenge of coring in the Ice Continent**”. Drinks are served between 17:00 and 18:00 hrs. After the lecture members and sponsors of the PGK are invited to a **hot and cold buffet** in the bar of the KIVI Building. The buffet is offered to all sponsors and members *without outstanding membership dues*, provided that they have registered by 10 December. **Register** for the buffet by contacting the secretary (secretary@pgknet.nl; 071-3013235).

16 January:

Lecture: “**Peak Gas Installation Alkmaar**” by W. van Soest e.a. (BP Amoco)

20 February

ANNUAL MEETING, Lecture about the **Hanze Field** by A.Hoffman, (Veba Oil Netherlands)

NEW BOARD MEMBERS

Three of the current board members will step back from the PGK board in February 2002. Those of you who are interested in serving a term as PGK board member are requested to contact one of the board members or contact the secretary. (secretary@pgknet.nl; 071-3013235). The current board will nominate 3 candidates in the December newsletter.

MEMBERSHIP

Applications for membership have been received from M.W.I.M. van Heijst (Rijkswaterstaat) and M. Newman (PanTerra Geoconsultants). If no objections are received prior or during the next meeting they are automatically elected members of our society.

PGK is sponsored by:

Argo Geological Consultants - BP Nederland Energie - Chevron USA Inc., The Neth. Branch - Clyde Petroleum - DSM Energie - Energie Beheer Nederland - ENRES International - Fugro Inpark - Gaz de France Production Nederland - Hogeschool Rotterdam, sectie aardrijkskunde - Nederlandse Aardolie Mij - Oranje Nassau Energie - PanTerra Geoconsultants - Schlumberger Petroleum Services - Shell Nederland - Terra Incognita Geoconsultancy and Geobooks - TNO-NITG - TotalFinaElf E & P Nederland - Unocal Netherlands - Wintershall Noordzee

Distribution of this Newsletter was sponsored by: Hays Informatiebeheer B.V.