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Listening to the Reservoir – Interpreting Data from Permanent Downhole Gauges

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JEUDI 14 JANVIER 2010 – 16 H 30

Schlumberger
Salle de Conférence - 1 Rue Becquerel - 92142 Clamart Cedex

Conférencier : Roland N. HORNE, DL SPE / **Stanford University**

- Voir résumé

À l'issue de cette conférence, un cocktail sera offert aux participants par **Schlumberger**

Moyens d'accès:
Métro Ligne 13 Station Châtillon-Montrouge, Puis Bus 295
Voiture Prendre la D906 Direction Montrouge puis Versailles / Clamart

Prière de se munir de cette convocation pour faciliter l'accès à la Salle de Conférence

En raison des mesures de sécurité en vigueur dans les sociétés

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Abstract

The permanent downhole pressure gauge is a class of tool recently harnessed in the industry. These tools are installed during the well completion and provide a continuous record of pressure changes during production. Permanent downhole gauges have the potential to provide more information than the traditional well test, which is carried out for a relatively short duration. Permanent downhole gauges may provide useful information regarding changes in reservoir properties or well condition with time as the reservoir is produced.

However interpretation of permanent downhole gauge data is a new problem. First, unlike the traditional well test where "disturbances" in reservoir (i.e. rates) are created and pressure and rates are both known, in the record from the permanent downhole gauge, the changes in rates may not be properly known. Moreover, the dynamic changes in the reservoir, along with changes in the flowing temperature or in the gauge itself, make the data more complicated to interpret. Permanent downhole gauges are being applied widely now, yet there is still much to be done to capitalize fully on all the advantages they can offer.

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Biography

Roland N. Horne is the Thomas Davies Barrow Professor of Earth Sciences, Professor of Energy Resources Engineering, at Stanford University, USA. He is an Honorary and Distinguished Member of SPE and recipient of both the Lester C. Uren and John Franklin Carll Awards. He has written more than 150 technical papers in scientific journals and international meetings.