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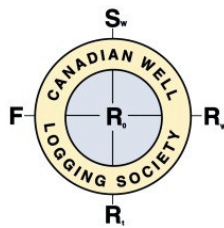
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#### **APEGGA MEMBERS:**

**CWLS Luncheons and courses  
qualify for APEGGA  
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Please see the CWLS Website at  
[www.cwls.org](http://www.cwls.org) for information  
regarding a Corporate Network  
License for the recently published  
CWLS Formation Water (RW)  
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**Notes:** Please forward this notice  
to any potentially interested co-  
workers. Thank you.



## **CANADIAN WELL LOGGING SOCIETY**

2200, 700 – 2nd Street S.W., Calgary, Alberta T2P 2W1  
Telephone: (403) 269-9366  
Fax: (403) 269-2787

[www.cwls.org](http://www.cwls.org)

### **Wednesday, March 18<sup>th</sup>, 2009 CWLS TECHNICAL LUNCHEON PRESENTATION FAIRMONT PALLISER HOTEL 133, 9TH AVE. S.W. CALGARY**

**TIME: 12:00 PM (COCKTAILS AT 11:30 AM)**

**RESERVATIONS BY: Friday, March 13th, 2009 (NOON) - CALL 269-9366 TO CONFIRM A SEAT**

#### **COST:**

MEMBERS RESERVED MEAL: \$35.00; NON-MEMBERS RESERVED MEAL: \$40.00  
(SPECIAL NEEDS MEALS AVAILABLE WITH ADVANCED BOOKING ONLY; PLEASE  
REQUEST WHEN ORDERING TICKET)

#### **TOPIC:**

**An Integrated Petrophysical Characterization of Shale Gas  
Reservoirs**

**SPEAKER: David Jacobi, Baker Hughes/INTEQ**

#### **ABSTRACT:**

Gas shales are economically viable hydrocarbon prospects that have proven to be successful in North America. Generating commercial production from these unique lithologies requires stimulation through extensive hydraulic fracturing. The absence of an accurate petrophysical model for these unconventional plays makes the prediction of the fracturing success risky. To address this problem, an integrated petrophysical and geochemical Gas Shale Facies model for the characterization of the Barnett Shale has been developed. This method involves the integration of data derived from the geochemical, acoustic, density-neutron, and nuclear magnetic resonance logging tools. Together, they are used to differentiate between source rock intervals, classify depositional facies, and quantify total organic carbon, and to locate optimal fracture intervals and intervals of fracture energy attenuation. Resistivity image analysis complements the approach and is used to validate the results. We compare results from two different wells to show the effectiveness of the method for gas shale characterization in the Barnett. The method presented can be used to design a selective completion strategy that has the potential to reduce fracturing expenses and optimize well productivity. Though developed specifically for the Barnett shale, the underlying ideas are applicable to other thermogenic shale gas plays in North America.

#### **BIOGRAPHY**

David Jacobi of Baker Hughes/INTEQ is a research scientist (Geologist/Geochemist/Mineralogist) working in the STAR group at the Houston Technology Center. He has ten years of experience in the application of geochemistry and geophysics towards solving geological problems in both aquifer systems and hydrocarbon reservoirs. His current responsibilities involve the development of integrated geochemical and petrophysical methods for the characterization of shale gas and tight gas reservoirs as well as other conventional hydrocarbon reservoirs. He holds a B.S. in Geology from Midwestern State University and an M.S. in Geology/Geochemistry from Texas Tech University.