



September 2013

## LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

**September 26th (Thursday)** Tandre Williams, Reservoir Navigation Engineer  
Baker Hughes / Western U.S./ INTEQ

will speak on : **Application of Azimuthally Sensitive Resistivity in Conventional Reservoirs in California**

### Abstract

California has been home of some of the most prolific oil fields in the United States. Many of those fields have been continually produced for several decades, yet the ultimate recovery of many fields in California has not been reached due to both geologic factors and recovery methods. Geologic factors common to fields in California can be apparently rhythmically deposited reservoir sequences (ie, turbidites) which are complicated by basal scours, amalgamation, and channeling. This creates complicated permeability variations that inhibit both production and the efficiency of secondary recovery methods such as water flooding. The result is significant amounts of bypassed hydrocarbons, even in old, mature fields.

However, several new technological advances and present economic factors are making these formerly bypassed hydrocarbons more attractive targets now. One such technology that is gaining prominence is azimuthally sensitive resistivity sensors to aid in determining the position of a well being drilled in a given reservoir, enabling real-time geosteering to optimize well placement. This technology can help in identifying the position of conductive boundaries such as reservoir cap rocks, faults and unconformities, and other formation features.

In order to demonstrate the value of this technology in California, analogous case studies will be reviewed that highlight the difficulties

seen in typical wells in California, and how these technologies aid in optimizing well placement. Such difficulties as: (1) geosteering in reservoirs with low-resistivity pay, (2) placing wells in reservoirs with thinly laminated shales, and (3) steering wells with vary narrow target intervals (3-4 ft. TST) will be examined. Also, the use of azimuthally sensitive resistivity to target such pay zones in areas in which position is hard to quantify with standard formation evaluation readings will be demonstrated.

### Speaker's Biography

Tandre' Williams is a senior Reservoir Navigation engineer with Baker Hughes in California. With primary expertise in log interpretation and drilling focused on precise navigation of horizontal and deviated wells.

During his time with Baker Hughes he has been primarily involved with the deployment and implementation of reservoir navigation services in the LA Basin and San Joaquin Valley, this would include over 140 wells in California and 100 wells in the LA Basin. This would include developing log interpretation techniques in the shaly sands and low-resistivity pays found in California. With this experience he has supported a number of projects throughout North America including the Gulf of Mexico, West Texas, and Canada.

He received his BS from the University of Southern California in chemical engineering in 2006.

## Meeting Time, Place, Cost and Reservations

### **Time:**

**Thursday, Sept 26th, 2013**

### **Typical Meeting Agenda**

**Lunch Served: 11:30 AM to 12:00PM**  
**Announcements: 11:45 AM to 12:00 PM**  
**Guest Speaker: 12:00 PM to 12:30PM**  
**Questions/Close: 12:30 PM to 12:45 PM**

### **Place:**

**The Grand at Willow Street Conference Center** located at 4101 East Willow Street, Long Beach, CA. (562-426-0555). Take Lakewood Boulevard south from the San Diego Freeway (405), turn west onto Willow Street and turn right onto Grand Avenue at the sign for the Center. Park free in the garage structure.

### **Cost:**

**Lunch and Speaker: \$20.00 with reservations**  
**\$25.00 without reservations**  
**Student: \$5.00 (Lunch and Speaker)**

### **Meeting Reservations:**

**Make your reservations using our web site at [www.labgs.org](http://www.labgs.org), or by calling Graham Wilson (562)-326-5278, or emailing [gwilson@shpi.net](mailto:gwilson@shpi.net). Reservations must be made by 10:00 AM Tuesday morning prior to Thursday's meeting to receive discount price noted above. As always walk-ins are welcome.**

## **Contact Us – The LABGS Board**

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