

Tuesday, May 29, 2007

Westchase Hilton • 9999 Westheimer
Social Hour 5:30-6:30 p.m.
Dinner 6:30 p.m.

Reservation Deadline: Noon, Friday, May 25, 2007
Costs before deadline: Member 28.00, Non-Member 35.00, Emeritus 14.00
Costs after deadline: Member 35.00, Non-Member 35.00, Emeritus 17.50

The HGS prefers that you make your reservations on-line through the HGS website at www.hgs.org. If you have no Internet access, you can e-mail reservations@hgs.org, or call the office at 713-463-9476 (include your name, e-mail address, meeting you are attending, phone number and membership ID#).

HGS North American Explorationists Dinner Meeting

by *Matt B. Williams*
and *E. Blanche Ramsey*
Southwestern Energy Production Co.
Houston, TX

Overton Cotton Valley Sand Field, Smith and Cherokee Counties, Texas: Expansion, Development and Optimization of a Jurassic Tight Sandstone Reservoir

Overton Field is located in Smith and Cherokee Counties, Texas, approximately 20 miles southeast of Tyler on the western flank of the Sabine uplift in the East Texas basin. The field produces from the Taylor interval, the lowest member of the Jurassic Cotton Valley Sand (CVS). The Taylor in the field area has been divided into four mappable sand packages separated by shale intervals. As is typical of most production from the Cotton Valley, these sands have**very low permeability, with the distribution of rock quality controlled by a complex depositional and diagenetic history. Data from the field document the low permeability and stratigraphic nature of the reservoir. Core data confirms deposition of these sands in a shore face environment. Thin section and SEM work highlight the effect of clay linings in inhibiting quartz overgrowths.

Discovered by American Petrofina in 1978, the field has experienced both an initial development phase and a more recent significant expansion and infill. Field production is currently in excess of 100 MMCFD with over 300 wells drilled. Integration of geologic and engineering data has resulted in optimized well locations and field extension as well as enhanced completion

confirmed the orientation and extent of hydraulic fractures, aiding in optimal field development. This has resulted in significant additional natural gas resource development and production as well as an efficient and comprehensive development of the field. In addition, this field represents a model for low-permeability sandstone reservoir accumulation and development that can be applied in other hydrocarbon producing regions. ■

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new venture projects in Louisiana, south Texas and the Permian Basin for Southwestern Energy. Matt previously worked for Occidental in International and Domestic Exploration and Production, where he was Chief Geologist for Occidental of Oman. In addition, he has worked for ARCO Alaska and Tenneco since beginning his career in 1983. Matt has a BS from Texas Tech University and an MS from Texas A&M. He is a Texas Professional Geologist and a member of the AAPG, HGS and ETGS.

Biographical Sketch

MATT WILLIAMS joined Southwestern Energy in Houston in 1998 and is currently Senior Staff Geologist, responsible for Exploration and New Venture Development in east Texas and north Louisiana. In addition, he has generated