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## Case History: Amberjack A16ST (T) Well Pore Pressures

### Abstract

The Amberjack Field (Gulf of Mexico: Mississippi Canyon 109) was originally drilled in the early 90s. A second phase of drilling began in 1998, with each well in the program presenting a unique set of challenges to the Amberjack team. In this presentation, the pore pressure case history of the early wells in this program is discussed.

Pore pressure work on the field, using offset well RFT, sonic and resistivity data, indicated a pore pressure uncertainty range of 3 ppg, around which the A16ST (T) well had to be planned. For a well that was initially considered to be in a development/production setting, a surprising number of complications entered the planning process.

During drilling, pressures were monitored using resistivity and well performance data: the well had to be sidetracked to reach TD. A post-well pore pressure interpretation is proposed in

which a series of pressure ramps were drilled in this well. This conclusion is reached through the integration of all available pressure data sources in the well.

### Biographical Sketches

VANESSA STURROCK has an MA in Natural Sciences, specializing in geology, from Cambridge University, England. After graduating in 1990, she spent a brief period working for Shell UK before joining BP in 1993. Initially, Vanessa worked in exploration and operations geology in Vietnam, and then development geology in Venezuela. Since coming to Houston in 1996, Vanessa has been working in petrophysics, first on the Troika development and then the Amberjack project, deepwater Gulf of Mexico. She currently works as the subsurface team lead for the Amberjack Field. □



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