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Determining a True Textural Permeability by Modeling Key NMR Outputs Using Only Conventional Log Data

In the ongoing research and development process to enhance information evaluation, establishing a relationship to permeability has always been a key goal. In the early 1990's the commercialization of nuclear magnetic resonance (NMR) logging in the oil and gas industry provided the first such link through the direct measurement of the fluid volume and the distribution of that fluid in the rock.

This link to permeability set the stage for several refinements in NMR over the last decade, the results of which have dramatically shaped how the industry views bypassed pay. By utilizing conventional log data, textural or pore size changes within the reservoir can be detected and modeled. These models allow companies to take a new look at fields that have not had the benefit of such NMR measurements. ■

Biographical Sketch

Allen Howard is co-founder and partner of Houston-based NuTech Energy Alliance, which provides proprietary petrophysically-driven technology to the oil and gas industry. With extensive senior management, sales and operations management experience, Howard introduced MRIL technology to global markets. He holds a B.S. in electrical engineering from Texas Tech University.



Dino Day. November 6. Volunteers Needed!

Houston Museum of Natural Science

Help all of Houston celebrate Dipsy's birthday and learn a little geology in the process. Many of our activities will be fossil-oriented and, of course, we'll do our bit on fossil fuels, too.

The HGS staffs the "technical" show-and-tell tables at this very popular family festival. This is an enormous event and we need all available volunteers.

We will also need a few volunteers to help with the logistics of Bob Bakker's talk(s), some mini-classes, etc.

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