



ENERGY NAVIGATOR

A better way.

Full-day Workshop: Constructing a Typical Well Production Profile

Date: **Friday May 19th, 2017**

Venue: **Anadarko Conference Center**

Address: **1201 Lake Robbins Drive, The Woodlands, TX 77380**

Time: **8:00 AM – 4:00 PM**

Each year, companies use typical well production profiles (type wells) to support billion dollar expenditures to buy and develop oil and gas resources. Unfortunately, these type wells can often have unrepresentative rate-time profiles and recoveries over-stated by as much as 50%. Recently published studies have identified the type well creation practices that will enhance accuracy and those that are best avoided.

During this full-day workshop, Energy Navigator presenters Dr. John Lee, Mr. Randy Freeborn, and Mr. Rod Sidle, will discuss the following topics:

- Identifying objectives
- Selecting wells to construct typical well profiles consistent with objectives
- Placing wells into categories
- Scaling wells to reference conditions, including lateral length
- Determining most likely, optimistic and conservative profiles
- Reviewing good and not-so-good practices in type well construction
- Validating results
- Applying type wells to property evaluation and reserves estimation

Energy Navigator will sponsor a light breakfast and lunch.

Energy Navigator will provide the material training material.

About Our Speakers:

Dr. John Lee

John Lee is one of North America's premier petroleum reservoir engineering experts specializing in oil and gas reserves, pressure and rate transient analysis, and unconventional oil and gas. He served as an Academic Engineering Fellow with the SEC and was a principal architect of the modernized SEC rules for reporting oil and gas reserves. He's the author of four textbooks published by the SPE. He is currently a Professor of Petroleum Engineering in the Harold Vance Department of Petroleum Engineering at Texas A&M University, past holder of the Cullen Distinguished University Chair at The University of Houston, and Research Fellow with Energy Navigator.

Randy Freeborn, P.Eng.

Randy Freeborn is a subject matter expert in the field of empirical forecasting, type wells and related technology. Currently, he is Chief Research Engineer at Energy Navigator where he is responsible for identifying and inventing engineering technology for inclusion in the company's reserve management software. He has been a professional engineer for 44 years and is a member of SPEE and SPE. Freeborn has prepared numerous technical papers for presentation at conferences, workshops and industry meetings. He has given guest lectures at the University of Houston and Texas A&M, and has been called as an expert witness.

Rod Sidle

Rod Sidle is a recognized expert in reservoir engineering and economics with a focus on reserves estimation - a reputation he has earned through 35+ years' experience primarily with Shell Oil Company and Royal Dutch Shell. Rod is an active member of SPE who has previously served as SPE Distinguished Lecturer and member of the Oil and Gas Reserves Committee. He is also currently the Chair of the Reserves Definition Committee for SPEE. Since retiring from Shell, Rod has worked as a lecturer on project evaluation at Texas A&M University, a Director of Reserves at Occidental, the Reserves Manager for Sheridan Production Company, and now as Senior Advisor of Reserves Management for Energy Navigator.