Coalbed Methane

1.6 CEUs (Continuing Education Units/8 hours) awarded for this 2-day course.

Instructors
John Wright, PhD, Norwest Questa Engineering
Joe McHenry, Norwest Questa Engineering

Intended Audience
Petroleum engineers, geologists, geophysicists, investors, managers and government officials wanting an understanding of the fundamental aspects of coalbed methane will benefit from this course.

Description
Coal Bed Methane (CBM) has become a significant portion of the North America gas supply. There are many differences between CBM and more conventional reservoirs but the basic laws of physics still apply to both. There are five critical elements for a successful CBM development which include: resource, permeability, water management, completion effectiveness, and gas treatment/transport/sales. This 2-day course is valuable for engineers, geologists, technicians, managers, and investors wanting a thorough discussion of CBM development from deposition to sales. The course presents the essential aspects of CBM including differences from conventional gas, CBM history, and insight into its future. The seminar covers the following topics:

Course Contents

- Unconventional Nature
- Geology
- Reservoir
  - Resource
  - Reserves
  - Isotherm
  - Permeability
  - Pressure Testing
  - Water Management
- North America Basins
- Drilling
- Completion
  - Types
  - Fracture Stimulation
- Operations
  - Production Fairways
  - Formation Damage
  - Production Analysis
  - Artificial Lift
  - Water Management
  - Gas Facilities

John Wright, PhD, P.E., is president and chief engineer of Norwest Questa Engineering Corporation in Golden, Colorado. He has more than 35 years of domestic and international oil and gas experience in reservoir engineering, coal bed natural gas development, and property evaluation. John has been a principal in two petroleum engineering consulting firms for a total of 21 years and has taught Petroleum Engineering at the Colorado School of Mines for eight years. John is active in a number of

professional societies, including SPE, and is a registered professional engineer in five states. He serves as a member of the board of directors of Norwest Corporation and has been on the Board of Directors for the Society of Petroleum Evaluation Engineers.

Joe McHenry, M.S., is a Senior Engineer at Norwest Questa Engineering and is President of Rocky Mountain CBM LLC. He earned Petroleum Engineering degrees from Pennsylvania State University and the University of Southern California. His 25 years of diverse oil and gas experience focuses on project management, completions, economic evaluations and reserve calculations in unconventional projects. Joe has 11 years of CBM experience starting in the San Juan Basin in 1996. During his tenure, Texaco's CBM production increased from 30 MMCFD to over 200 MMCFD. Joe has evaluated more than 80 CBM projects in 13 states and 7 countries.