Coalbed Methane Engineering Methods

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

Instructor

Michael Zuber, CDX Gas

Intended Audience

Petroleum engineers who need to learn the fundamentals of completing, stimulating, and evaluating the past and predicting the future performance of coalbed methane wells.

Description

The first day of the course concentrates on reservoir engineering and includes a discussion of the unique aspects of coal as reservoir material, the gathering and integration of data for analysis of coal reservoirs, well testing techniques for coal seam wells, interpretation of coal seam well test data, and predicting performance and reserves for coal seam wells. The second day focuses on production engineering for coal seam wells and includes a discussion of drilling techniques, formation evaluation, completion techniques, stimulating coal seam wells, and horizontal wells in coal seams.

Topics Covered

- The Nature of Coals as a Reservoir
- Coal vs. Conventional Gas Reservoirs
- Key Factors Controlling Methane Recovery From Coals
- Data Integration
- Well Testing and Injection/Falloff Testing
- Predicting Well Performance
- Estimating Reserves

About the Instructor

Mike Zuber joined CDX Gas in September 2003 as Director of Reservoir Engineering. He is responsible for reservoir evaluation and booking reserves for all CDX gas producing assets. Before joining CDX Gas, Zuber was a consultant for nearly 20 years, working primarily on critical evaluations for unconventional gas reservoirs, including coalbed methane and shale reservoirs. He has been an innovator in coalbed methane reservoir evaluation and coal reservoir simulation. He has written numerous technical papers and articles on the evaluation of coalbed methane wells and reservoirs.

Zuber holds a BS degree in Petroleum Engineering from Marietta College, a Master's degree in Petroleum Engineering from Texas A&M U., and an MBA from the U. of Pittsburgh, all with high honors.