



Unconventional Resource and Reserve Evaluation - URRE

COURSE

About the Course

This five-day advanced course is designed to expose attendees to the understanding and application of the latest approaches, techniques and requirements being applied to reserves evaluation within unconventional resources. Particular focus is given to actions and methodologies that are necessary to enhance the reserve categorization. Discussion and class examples will emphasize the testing protocols necessary within the exploration, appraisal and at development phases of the resource life cycle.

The course is based around the Petroleum Reserve Management System (PRMS) and variations needed to conform to other national standards such as the SEC, NI-51, SORP, NPD, Chinese, as well as other standards is taught as a stand-alone module. A majority of the offering is focused on shale oil and shale gas resources, with selected coverage of tight gas, coalbed methane and coal seam gas plays also being included depending on participant interest.

Target Audience

Reservoir engineers and geoscientists working in integrated teams in unconventional assessments. Managerial staff requiring an understanding of unconventional reservoir reserve and resource evaluation standards will also benefit.

You Will Learn

Participants will learn how to:

- Differentiate reserve estimation approaches within shale oil\gas, tight gas, CBM\CSG and hybrid plays
- Compute gas\oil in place and estimated ultimate recovery in unconventional resources
- Design a data collection program appropriate within the exploration, appraisal, and development phases of an asset life cycle
- Apply analysis of core analysis, well test data and proximate analyses to enhance reserve estimation
- Describe the advantages and disadvantages between various reserve estimating techniques including decline curve, rate transient and the probabilistic approach
- Differentiate between various reserve and resource accounting methods
- Differentiate between prospective resources, contingent resources, and reserves
- Summarize the concepts of reasonable certainty and reliable technology
- Create a unconventional reserve growth portfolio
- Minimize unconventional reserve write-downs

Course Content

- Fundamentals of unconventional reservoirs
- The Petroleum Reserve Management System (PRMS)
- Probabilistic analysis as applied to unconventional reservoirs
- Well test analysis within unconventional resources
- Exploration data collection programs
- Prospective resource evaluation
- Appraisal data collection programs
- Contingent resource evaluation
- Reserve data collection programs
- Reserve evaluations
- Reserve portfolio management
- Alternate evaluation approaches
- Ethics and public information releases

Product Details

Categories: Upstream

Disciplines: Reservoir Engineering Unconventional Resources

Levels: Specialized

Product Type: Course

Formats Available: In-Classroom

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