PetroSkills

Overview of Heavy Oil Resources - HOOV

COURSE

About the Course

This course is Basic level, but is sufficiently detailed and widely focused to appeal to a broad audience, including non-technical, administrative, and business groups, as well as scientists and engineers, seeking an introduction to the business of heavy oil. Heavy oil is a large component of the world's oil resource. Commercial mining and current in-situ thermal production methodologies are important contributors to the world's oil production. These technologies are reasonably recent commercial applications, and the future levels of production face uncertainty because of highly debated environmental challenges.

This course takes an unbiased practical approach to the applications, citing benefits and limitations. Overview of Heavy Oil Resources provides an overview of the aspects of the geology, development, and commerciality of heavy oil resources. This course contains exercises and class problems to support the presentation. Each attendee will be given the facts to develop an overall understanding of heavy oil development.

Target Audience

Anyone from any discipline who needs a better understanding of heavy oil resources.

You Will Learn

- The geologic and engineering challenges to finding, developing, and producing heavy oil resources
- About the importance of heavy oil resources in today's world energy market
- How to evaluate the challenges and opportunities for understanding and improving the environmental footprint required to develop and produce heavy oil resources
- The contrast between heavy oil resources versus conventional and other unconventional resources with aspects of finding, developing, and producing
- The process and methodology to plan, design, implement, and evaluate heavy oil reservoirs
- About the geology and commerciality of the Canadian Oil Sands
- About the world-wide distribution and geologic setting of the more significant heavy oil occurrences including Venezuela

Course Content

- Comparison of conventional and unconventional reservoirs
- Worldwide heavy oil resources and occurrences

- Bitumen and heavy oil definitions and introduction
- Geology, history, and development of Canada oil sands
- Oil sand characteristics and development strategies
- Oil sand mining details and reclamation
- Oil sands in-situ project review
- Introduction of Steam Assisted Gravity Drainage (SAGD)
- Other commercial thermal in-situ methodologies
- Environmental challenges for heavy oil resources
- Geology and overview of Venezuela and Trinidad heavy oil resources
- Commercial application of Cold Heavy Oil Production with Sand (CHOPS) in Venezuela
- Introduction of United States heavy oil occurrences (Utah, California and Texas)

Product Details

Categories: Upstream, Midstream

Disciplines: Multi-Discipline Training

Levels: Basic

Product Type: Course

Formats Available: In-Classroom

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