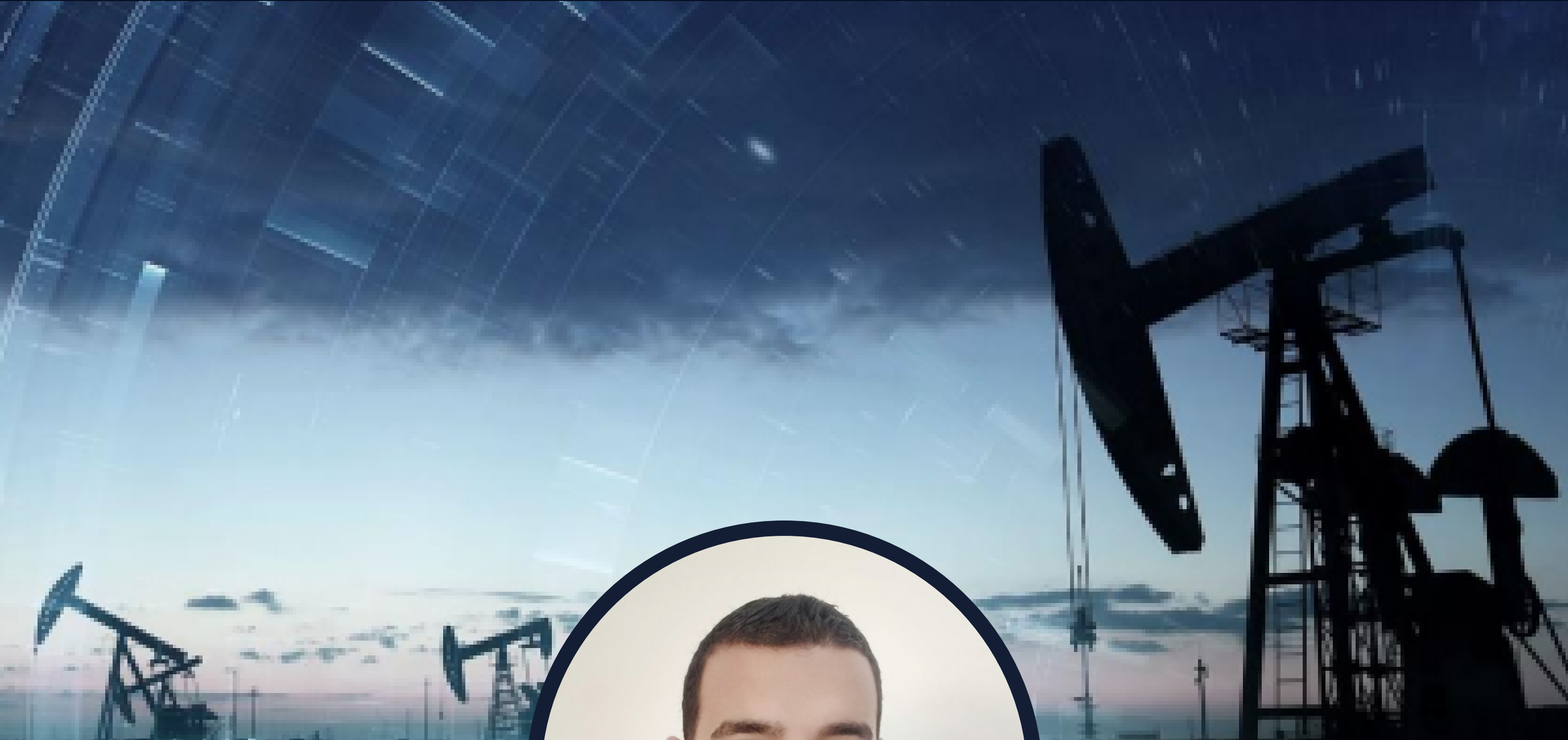


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2 WEEKS LONG CERTIFIED HAND ON EXPERIENCE COURSE ON
Integrated Reservoir Management



ENG. HESHAM MOKHTAR ALI
SENIOR RESERVOIR ENGINEER
10 YEARS OF EXPERIENCE IN
OIL & GAS INDUSTRY

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DESCRIPTION

Reservoir management is an on-going, dynamic process of collecting, analyzing, validating, and integrating reservoir description data and performance data into an optimal reservoir development and depletion plan. This course will introduce a practical view for reservoir management applications like reservoir evaluation and simulation, production forecasting, material balance calculations, Monte Carlo simulation analysis for reserve estimation, decline curve analysis, and waterflooding design. The course will highlight the theoretical background and the practical application. The course progresses from the measurement fundamentals to the essential evaluation and assessment of the results and onto the practical application in example studies.

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OBJECTIVES

- Model the reservoir through MBE tool assuming several scenarios for history matching and prediction.
- Use well model (IPR & VLP) through the MBE calculations to enhance the prediction accuracy
- Monitor fluid contacts (OWC & GOC) to have a deeper insight for reservoir management and surveillance.
- Design the field development plan (FDP) for a new field.
- Model multiple juxtaposed connected reservoirs and transmissibility estimation between them.
- Calculate the original hydrocarbon in place
- Predict reservoir or well production and determine asset lifetime.
- Design waterflooding project according to reservoir properties and predict production performance
- Prepare integrated studies for reservoir characterization, evaluation and production prediction based on various scenarios according to the included parameters

WHO SHOULD ATTEND

- Reservoir Engineers
- Petroleum Engineers
- Production Engineers

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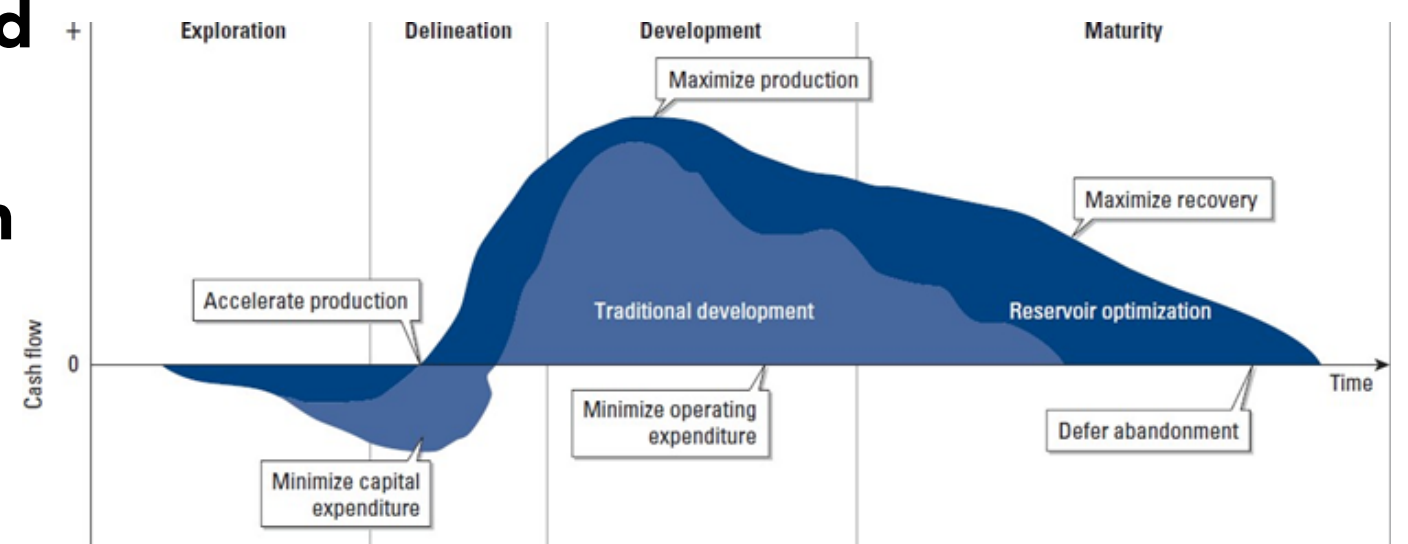


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AGENDA

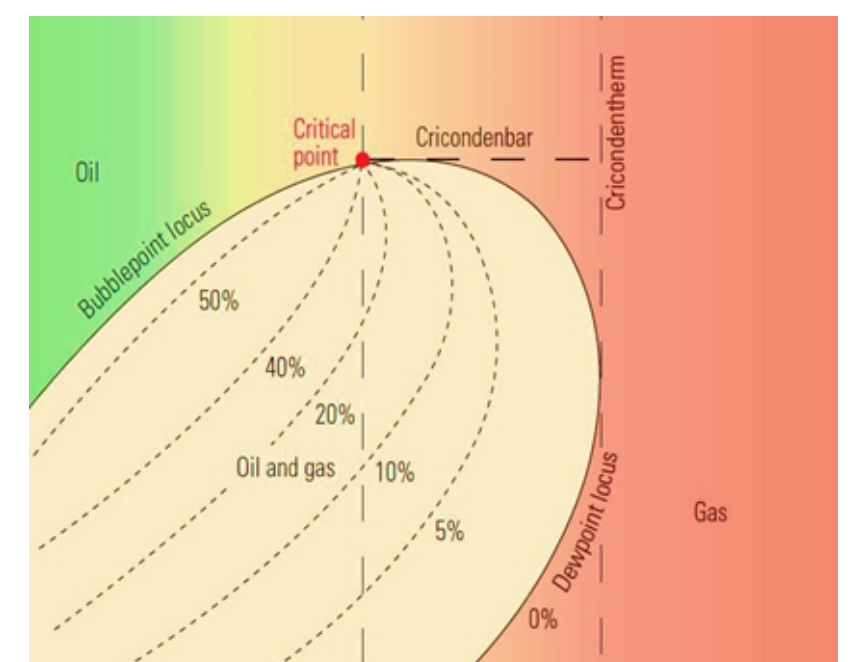
Day 1: Introduction

- Introduction
- Oil Recovery Processes & Full Field Modeling
- Role of Reservoir Rocks & Fluids in Reservoir Management
- Oilfield Lifetime & Development
- Typical Production Performance



Day 2: Applications of Core & PVT Data

- ICore Analysis Flowchart
- Conventional Core Analysis
- Flow Units and Rock Typing
- Relative Permeability & Capillary Pressure Data
- Applications of Reservoir Fluid Data
- PVT Analysis Workflow in the Reservoir Management Process

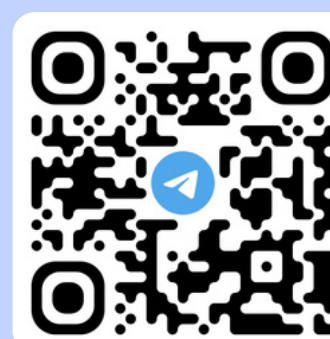


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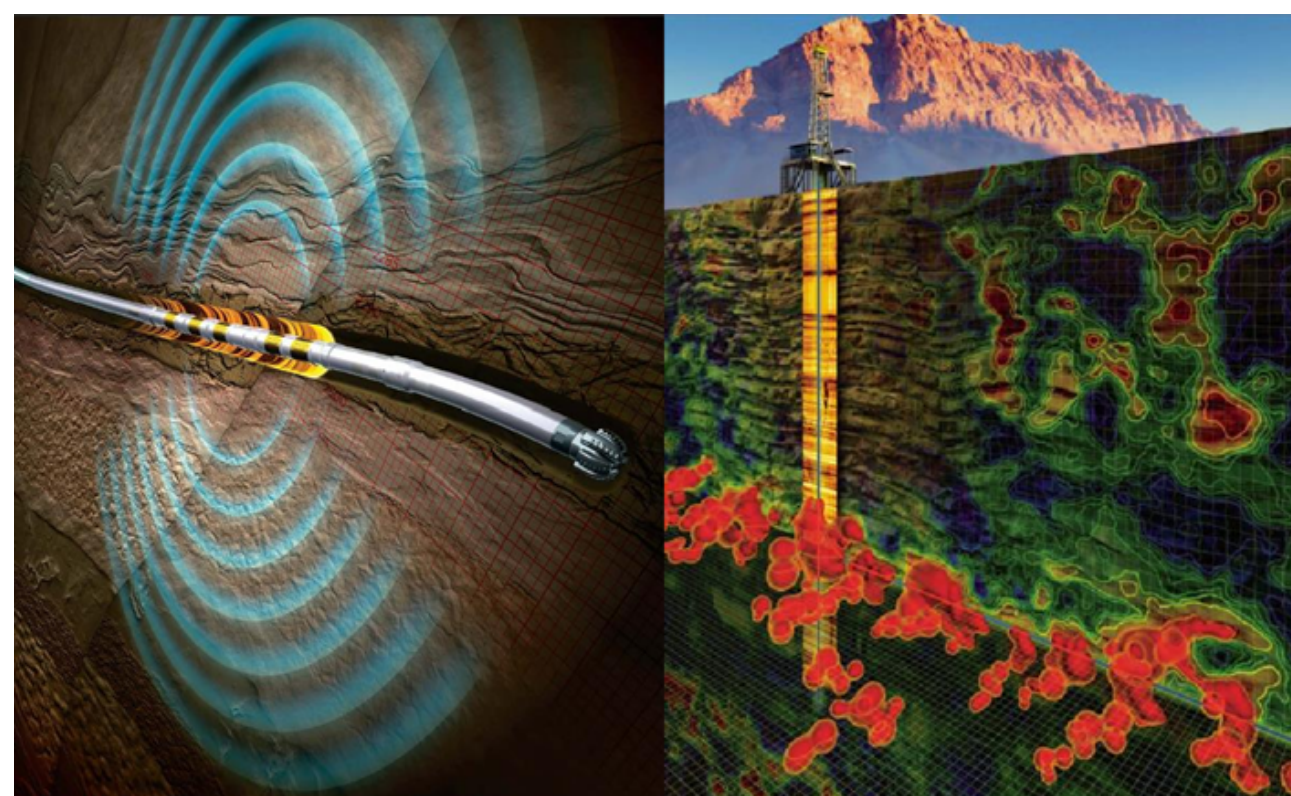


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AGENDA

Day 3: Formation Evaluation & Well Logging

- Formation Evaluation Overview
- Wireline Logging Operations
- Basic Concepts of Log Analysis
- Open hole Logging Measurements
- Integrated Formation Evaluation Plan



Day 4: Hydrocarbon In- place & Reserve Estimation

- Why Reserve Estimates?
- Petroleum Resource Management System: PRMS
- Reserves Estimation Techniques: Deterministic vs. Probabilistic Techniques
- Volumetric Reserves Estimates: Data Sources and Common Pitfalls



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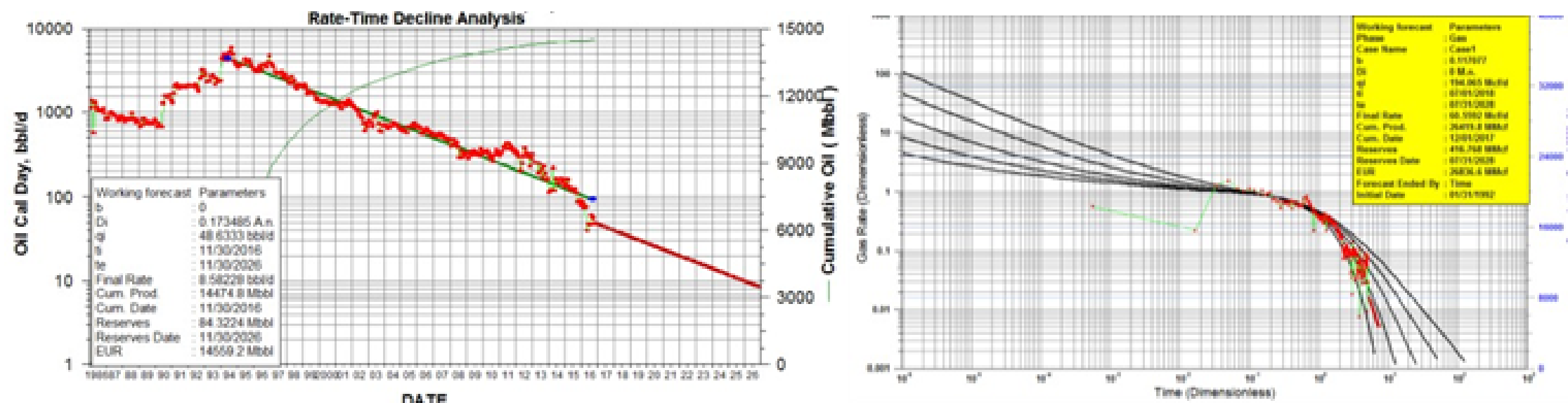


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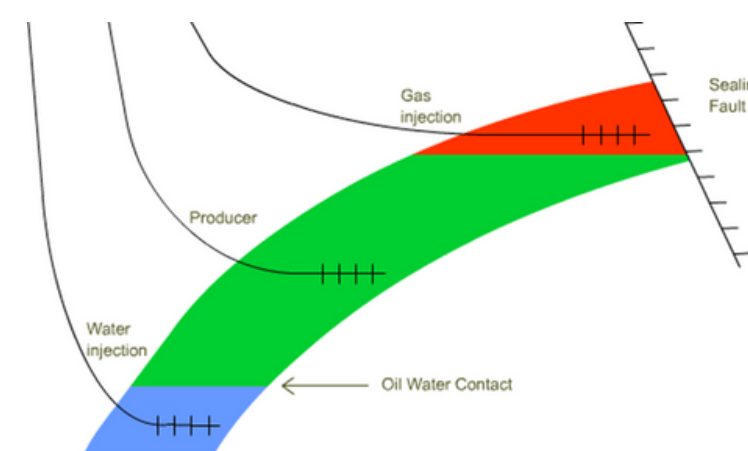
Day 5: Decline Curve Analysis (DCA) & Production Forecasting

- Performance-based Reserve Estimates
- Reservoir Driving Mechanisms & Production Characteristics
- Applications of Decline Curve Analysis
- Conventional Decline Curve Analysis (Arps' Approach) & Assumptions
- Advanced Decline Curve Analysis (Fetkovich Approach) & Pitfalls



Day 6: Material Balance Analysis

- Material Balance Analysis: Concept and General Form
- Havlena-Odeh Approach: Approach, Typical Analysis Techniques, Dake & Campbell Diagnostic Plots, Pitfalls, Case Studies
- Input data collection and QAQC
- History Matching and Reservoir Performance Prediction
- Better Reservoir Performance Prediction Using Well Model



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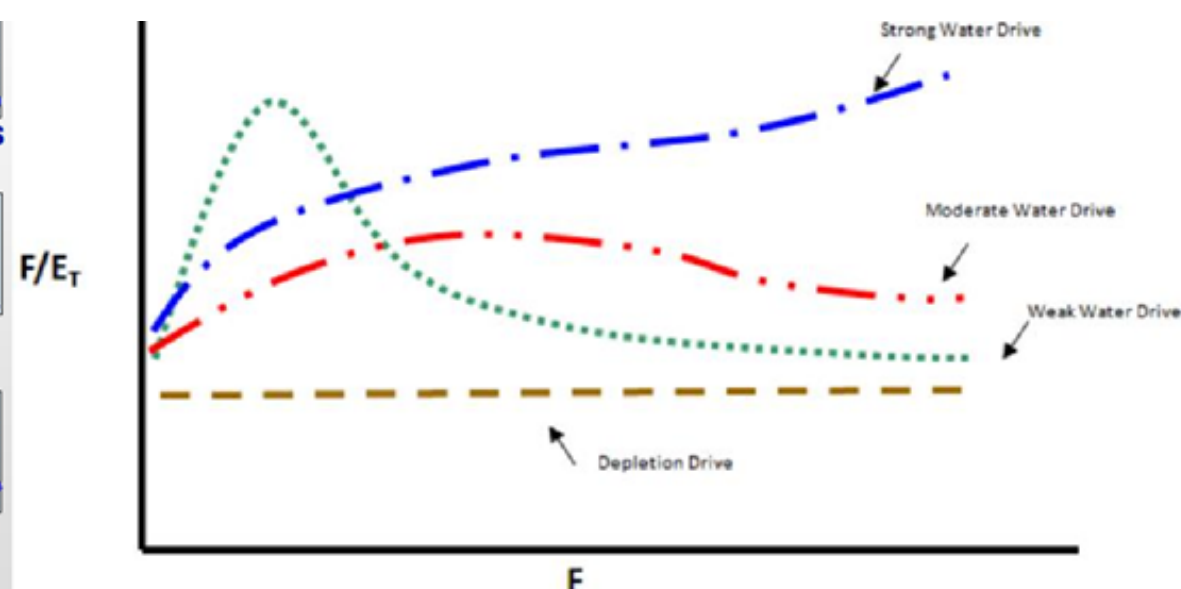


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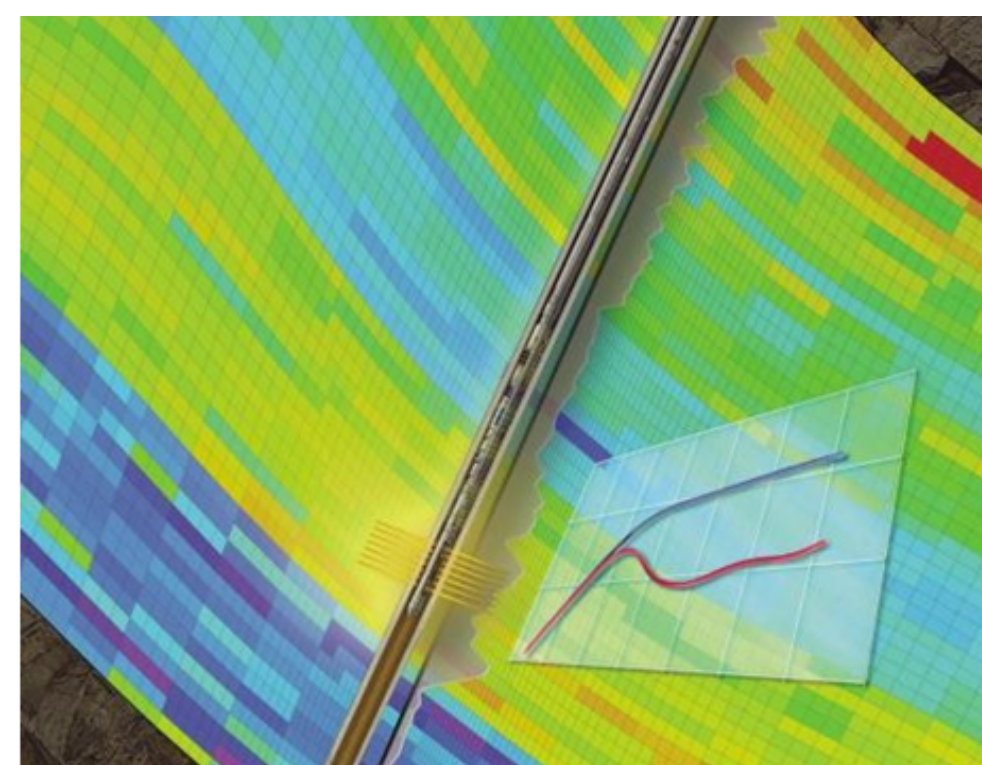
Day 7: Material Balance Applications

- Field Development Plan (FDP)
- Monitor Fluid Contacts (OWC & GOC)
- Determine Asset Lifetime
- Monte Carlo Simulation



Day 8: Well Testing Analysis

- Role of Well Testing in Reservoir Management
- Surface Testing Facilities
- Types of Pressure Testing
- Basic Theory & Diffusivity Equation
- Type Curve Matching and Pressure Derivative
- Reservoir Modeling Using the Pressure Transient:
- Well Testing Interpretation Process



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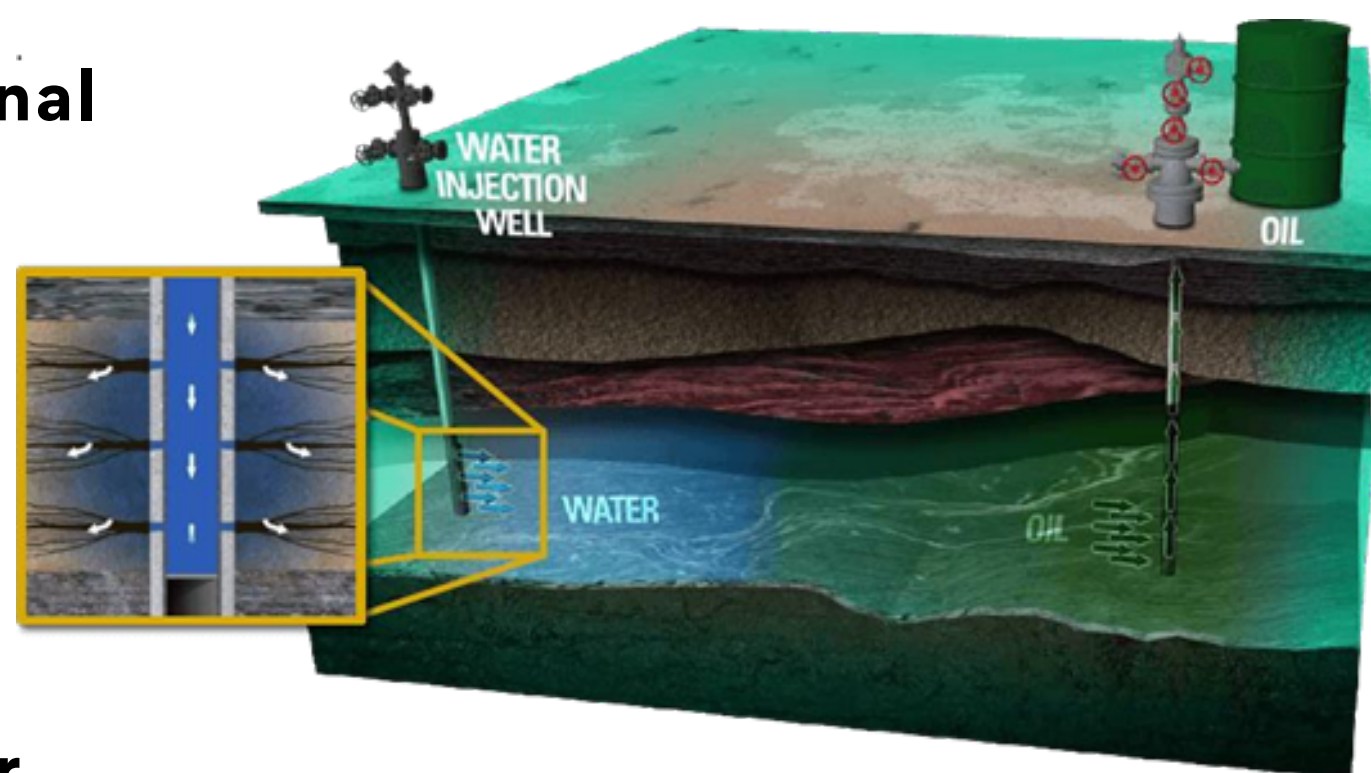


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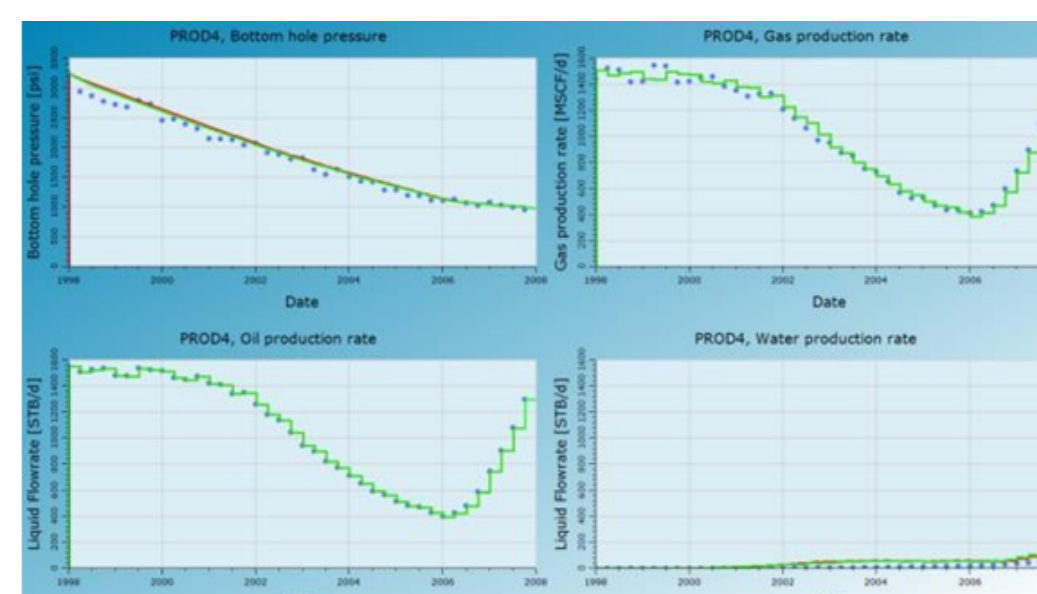
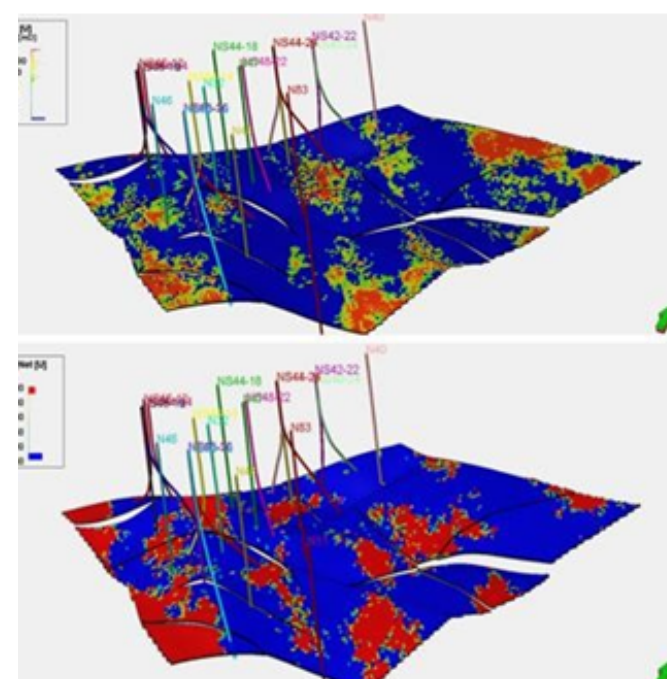
Day 9: Waterflooding Design

- Principles and Applications of Waterflooding
- Voidage Replacement & Fractional Flow Equation
- Analytical Methods for Waterflooding Design and Performance Prediction
- Displacement Efficiency Calculations
- Managing and Optimizing Water Injection



Day 10: Modeling Applications for Reservoir Management

- Reservoir Simulation Overview, Workflow, and Benefits
- Reservoir Model Initialization
- Making a Development Strategy
- Defining a Simulation Case

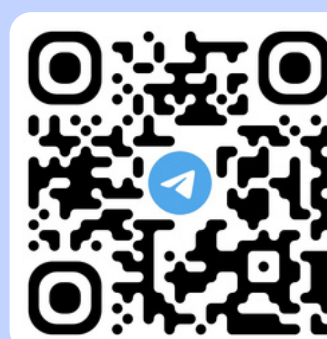


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