

Hesham Mokhtar

Instructor

Career synopsis

Delivering subsurface and production optimization technical solutions to E&P portfolio through an extensive 13+ years of petroleum reservoir engineering expertise with operating, service, and training entities. Hesham has strong analytical skills for result interpretations, and demonstrates good inter-personal skills. He experienced field studies for water injection, hydraulic fracturing, and reservoir simulation. He also has a hands-on experience with tight and fractured carbonate reservoirs.

Professional experience

June 2024-Until now - Development Planning Engineer - Subsurface - Kuwait Energy (KEBL), Iraq

- Managing assets across Block9 (Iraq) for main Yamama, Zubair, and Mishrif reservoirs.
- Identifying and framing potential development opportunities through engineering and geological integration.
- Ensuring the field development plan aligns with the company production plans.
- Following SPE-PRMS guidelines for reserve classifications and definitions.
- Managing the entire company laboratory studies for fluid (PVT & Flow Assurance) and core analyses with Corelab (Abu Dhabi, UAE) and Stratum Reservoir (Norway) laboratories.
- Analyzing reservoir fluid properties and EOS modeling (PVTsim).
- Creating the annual budget for the surface studies.
- Making long and short-term production forecasting associated with the project economics.
- Setting the annual rig schedules based on the development strategies.
- Forecasting the annual budgets based the drilling and completion plans.
- Knowledge test / assessment

June 2012-May 2024 - Reservoir Engineering Team Leader - General Petroleum Company (GPC), Egypt

- Managing assets across Western Desert (onshore) and Gulf of Suez (offshore), Egypt.
- Training and mentoring the assigned staff on the relevant skills.
- Attending operation meetings to select the perforation intervals and the optimum completion type.
- Conducting regular wellsite visits to witness LWD, slick-line, E-line, and well testing operations.
- Interpreting open hole logs (Techlog) for petrophysical analysis and reservoir characterization.
- Analyzing MDT/XPT/RDT data to determine initial reservoir pressure, fluid contacts and confirming reservoir communication.
- Recommending the optimum production strategies (infill wells, re-completions, workover, stimulation, water shut-off, etc.).
- Following SPE-PRMS guidelines for reserve classifications, definitions, and estimation.
- Determining initial hydrocarbon in place (STOIIP/GIIP): volumetric calculations, decline curve analysis (DCA), static/dynamic material balance analysis, rate-transient analysis (RTA).
- Curriculum development
- Personnel training
- Knowledge test / assessment

Education and qualifications

Type	Name
2018 - 2023, Master	Cairo University, Petroleum Engineering

Language: English, Arabic