High-Resolution Advanced Qatari and Middle East Models for Evaluating Reservoir Engineering Workflows

Motivations
Improve static and dynamic reservoir engineering workflows for Middle East carbonate reservoir systems
- Lack of realistic synthetic models due to confidentiality clauses
- Need for building specific high-resolution models
- Field development plans with water injection
- Enhanced Oil Recovery (EOR) projects
- Carbon dioxide sequestration

Objectives
- Build realistic synthetic models of Middle East carbonate reservoirs
- Benchmark innovative advanced reservoir workflows and assess uncertainties
- Establish better practices in carbonate reservoir characterization, modeling, simulation and engineering

Methodology
- Advanced reservoir modeling and engineering workflows
- High performance computing capabilities
- Integration of multiscale data from producing fields and outcrops: geology, reservoir, fluids

Deliverables
- Complete portfolio of customized work packages
- Static and dynamic models for carbonate reservoir systems
- Detailed reports describing synthetic field cases, data and algorithms
- Annual steering committee meeting

Project Schedule
- Kick-Off Meeting: March 2017
- Starting Date: October 1st, 2017
- Steering Committee Meeting: May 2018
- Report: June 2018

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References