Reservoir Engineering Advisor – Simulation, Houston

RESPONSIBILITIES

- Perform well-level history matches of horizontal (single and multi-laterals) multi-stage hydraulically fractured wells through use of ENABLE or other assisted history matching techniques.

- Provide one-on-one mentoring to less-experienced reservoir engineers with emphasis on the application of reservoir simulation.

- Incorporate microseismic and other data to build discrete fracture network (DFN) models to represent the stimulated rock volume (SRV) around the hydraulically fractured horizontal wells.

- Within simulation models, incorporate the full range of static and dynamic uncertainties to produce predictive cases that bracket production rates, recoveries and development options.

- Determine optimum development options for the asset in terms of infill spacing, number of frac stages and wellbore length.

- Take an active role in preparing field development plans, including documentation and presentation of those plans to Hess management as appropriate.

- Provide reservoir engineering input to progress investment proposals. Supporting reservoir engineering analysis should account for static and dynamic uncertainties, and show consideration of alternative development solutions.

- Ensure high quality standards for managing reservoir engineering data and field models, ensuring consistency with local and global Hess guidelines.

- Recommend and drive data acquisition programs and pilot tests to reduce the main uncertainties identified in modeling work.

- Participate in peer assists and peer reviews, specifically review workflows around and inputs to simulation models.

QUALIFICATIONS

- The position requires strong classical reservoir engineering skills, solid understanding of the E&P business and drivers, reservoir fluid & rock characterization, uncertainty analysis, reserves evaluation and extensive experience in reservoir simulation and horizontal well modeling.

- Strong reservoir engineering skills, sufficient to deliver input to simulation models that adequately characterize the reservoir and fluids, define the reserves distribution accurately and enable the generation of robust field development plans.

- Twelve or more years of reservoir engineering experience with a significant emphasis on reservoir simulation (E100, E300) and uncertainty analysis.
- Experience using automated history matching software (ENABLE or other) and Design of Experiment (DoE) workflows.
- B.S. Degree in a related engineering field.