

Reduce Field Development Uncertainty

Premier reservoir solutions helps upstream companies make more effective decisions and generate improved returns through data-driven, optimized field development.

Premier Oilfield Group’s multi-disciplinary reservoir solutions team works closely with our clients to improve their understanding of the subsurface. Integrating data from the various disciplines and scales, reduces uncertainty and improves the accuracy of static and dynamic models, resulting in better identification of productive intervals and enhanced understanding of the reservoir performance at and between wells.

Rock classes and mechanical properties help enable efficient and effective decision making.

Premier experts integrate log, cuttings, and core data to build accurate geomechanical model as inputs for fracturing pressure analysis and production history matching. This provides high-quality fracture geometry predictions and production forecasts.

“Premier’s reservoir solutions team delivers results!”

Geoscience Emphasis

- Petrophysics (integrating core with logs)
- Geomechanics (understanding rock classes, fracture containment, fracture propagation, and well bore stability)
- Geology (seismic-to-log integration, building static models to identify reservoir quality tiers & facies)

Reservoir and Completions Engineering Emphasis

- Hydraulic fracture stimulation design & evaluation
- Lateral landing depth selection
- Fracture staging and spacing
- Parent-child well interactions
- Sequence and timing of operations
- Data analytics for reservoir management

Multi-Client Shared Workspace

Our reservoir solutions team manages multi-client projects using shared data spaces. Each project is steered by its founding members and integrates a massive amount of data within a single workspace. This is used to build common models across the combined area of interest that are history matched to completion and production data.

Once satisfactorily matched to actual well data, these models can be used to investigate critical design and operational questions, such as well spacing, well sequencing, and parent-child well interference.

The team runs extensive reservoir simulations to understand long-term well behavior under different development scenarios that member companies are considering. The resulting models and simulations are delivered to the members for continued work in-house.

