

MOVING FROM EXPLORATION TO RESULTS DRIVEN DEVELOPMENT IN UNCONVENTIONALS

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ABSTRACT

Unconventional assets, like all wells progress through a life cycle from exploration to abandonment. The desired objectives for wells in the asset will range greatly over this life cycle, starting with data acquisition to prove reserves, improving operational efficiencies during field development, and boosting incremental production as the field matures. A results-driven approach first establishes the fiscal goals for the well, be it proving reserves or maximizing production, and then engineers technical solutions to meet those goals.

For new and undeveloped unconventional assets, environmental conditions often necessitate operators to prove reserves without the luxury of drilling many wells to establish a learning curve. In these early stages, data acquisition, either for maximizing the accuracy of reserve estimates or to scope work for future wells, is a primary goal. As experience with the reservoir is gained, the focus on data acquisition is replaced with a focus on improving operational efficiencies, reducing cost and increasing production across all operations.

The results-driven approach all begins with collaboration. When the objectives are understood, solutions can be engineered that address the challenges to achieve those objectives throughout the entire asset's life cycle.