

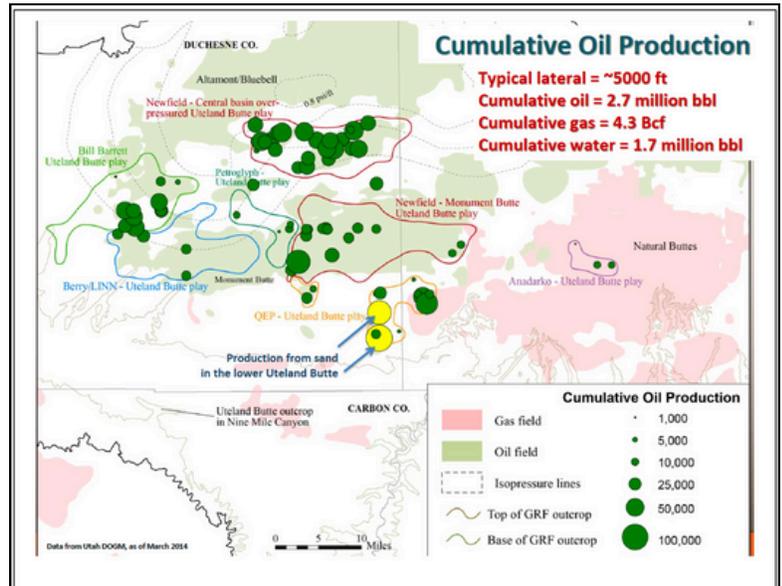
UINTA BASIN PRODUCTION AND PROFITABILITY OPTIMIZATION

Tuesday, March 17 at the conclusion of the UPA annual conference | 3:00 PM - 4:00 PM

In the Uteland Butte area, optimizing horizontal well development requires focused reservoir engineering to manage strong heterogeneity, variable natural fracturing, and evolving pressure regimes. Key needs include integrating core, log, and production data to refine geologic models that guide lateral placement, landing depth, and azimuth relative to stress and fracture trends. Reservoir engineers must also optimize stage spacing, completion intensity, and drawdown strategy to balance early-time rates with long-term recovery while minimizing interference between closely spaced horizontals. The Energy & Geoscience Institute at the University of Utah will use geologic and fluid property integration, data analytics and machine learning to develop insights to improve recovery and extend the producible regions in the Basin. EGI's research tools and analysis can help operators address the steep decline curves that the Basin is facing.

PROPOSED ACTIVITIES

- Data analytics and machine learning to understand factors that control production and recovery from multistage, hydraulically fractured wells.
- Well placement and frac design.
- Extending the producible regions and geologic domains beyond the current sweetspot(s).
- Role of fluid chemistry on gas oil ratios and ultimate recoveries.
- Respond to industry needs on helping to recover best value from the Basin.



This information and discussion session will be organized by the Energy & Geoscience Institute (EGI) at the University of Utah, which has more than 50 years of experience in oil and gas exploration and production research. EGI is home to a multidisciplinary team of geologists, petroleum engineers, data scientists, and policy specialists, and works closely with faculty and students from the Price College of Engineering, the College of Science, and the University of Utah's AI and Data Centers.

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