

# Review of the 2024 Stimulation Program at Utah FORGE

**Kevin England**  
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**Thursday, October 17, 2024, 9 a.m. Central Time**



Kevin England is currently the sole proprietor of E-K Petro Consulting LLC., following a 34-year career with Schlumberger. He will speak on Thursday, October 17, 2024. The topic is “Review of the 2024 Stimulation Program at Utah FORGE.”

## **Abstract**

The Utah FORGE (Frontier Observatory for Research in Geothermal Energy) is a U.S. Department of Energy-sponsored field laboratory for demonstrating and promoting the feasibility of hydraulically fracturing thermally conductive granite (or similar) formations to create an Enhanced Geothermal System (EGS). A primary objective of an EGS is to drill injection and production wells and interconnect them with hydraulic fracturing to form a subsurface heat exchange system.

In the initial stimulation program at Utah FORGE in April 2022, three small fracture stimulation treatments were pumped. Since then the production well was drilled and completed in 2023, and in April 2024 eight fracture stimulation treatment stages were pumped in the injection well, and four stages were pumped in the production well. Both the injection well and production wells are drilled vertically until penetrating into the granitic reservoir and then kicked-off at 5-10°/100 ft until reaching a deviation of 65° and then held at 65° until reaching TD. The static bottomhole temperature is 430°F. Three lines of fiber optic were run on the outside of the final casing string and cemented in place in the production well, which provided valuable information during stimulation. Initial results of circulation tests recently

pumped to evaluate connectivity of the injection and production wells will also be discussed.

## **Biography**

Kevin England is currently sole proprietor of E-K Petro Consulting LLC. He holds a BS degree in Petroleum Engineering from the University of Tulsa and MS degree in Petroleum Engineering Reservoir Management from Ecole Nationale Supérieure du Pétrole et des Moteurs (France). Kevin has 40+ years of experience in the oil and gas industry of which 34 were spent with Schlumberger, beginning with Dowell Schlumberger, where he gained extensive laboratory, field, operations, technical and management experience. He worked on projects with a wide range of challenges worldwide in more than fifty countries until retirement in 2018. Kevin is currently a consultant for the energy industry and has worked on projects for oil and gas well construction, completion, stimulation and production optimization, carbon capture and storage (CCS) and geothermal. Kevin's current consulting work is for The University of Utah and is focused on the Utah FORGE project.