## Objective/Scope

The Texas Tech Gas Lift Consortium was formed to advance the design, modeling, and optimization of late-life gas lift systems such as intermittent gas lift and gas assisted plunger lift. We present preliminary results from this research effort which has been in operation for 18 months.

## Methods

A 1,500-foot test wellbore at Texas Tech University was equipped for intermittent gas lift experiments. In addition, we have assembled field-scale data from multiple wells on IGL with bottomhole pressure sensors. These experiments and guide the creation of numerical models to design, survey, and optimize intermittently producing gas lift systems.

## **Results and Conclusions**

We aim to share our findings regarding:

- 1) The importance of high-frequency data collection for intermittently operating gas-lift systems.
- 2) Lower fallback factors that expected for given slug velocities in certain field cases.
- 3) Opportunities associated with novel measurements (distributed fiber optic sensing, high-frequency pressure measurements)