

# Pipeline Optimization for Oil Field

## Situation



A client had an oil gathering pipeline network and wanted to reduce wellhead pressures and capture casing head gas. An optimization study was conducted to determine requirements for low wellhead pressures.

## Action



Upstream Oil & Gas Consultants:

- Created hydraulic pipeline model using Piper™ software and surface topography
- Identified a location within the gathering system that would benefit from installing a pumping station (significant elevation increase to treating facility)
- Identified a pipeline bottleneck and recommended a larger diameter pipeline be installed

## Result



The client was able to reduce well pressures to a sufficient level to capture casing head gas and gather along with the oil and water production. They installed a pumping station that serviced multiple wells and delivered well production volumes to the main treating facility. Also, the client installed a larger diameter pipeline, and casing head gas was captured and sold.

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