

Gas Collection System Troubleshooting Identifies Flow Bottleneck Locations More Accurately

EIL located bottlenecks in a gas collection system by comparing pressure losses from a pipe flow model of the wellfield to readily available field values of gas pressure.

The method avoided unnecessary excavation and allowed the site to focus repair dollars on locations that provided the best bang for the buck.

Client: Confidential
Location: Northwestern US

Applied a combination of office analysis and field work to GCCS troubleshooting.

- Updated site's gas curve and performed a network analysis of existing and proposed gas piping.
- Confirmed existing bottlenecks and allowed site to focus repair dollars on locations that provided best bang for the buck.
- Optimized the gas piping system by removing unnecessary pipe fittings and reconfiguring piping runs.

As a result the site benefitted from:

- Improved daily operations;
- Reduced wear and tear on blower and flare;
- Reduced system maintenance hours; and
- Improved vacuum distribution across wellfield.

Other work included:

- Base and final grade configurations;
- Phasing plans that reduce multiple soil movements and improve bad weather operations;
- Gas system phasing;
- Leachate/condensate handling;
- Permit and construction level plans;
- Technical specs & CQA plan; and
- CQA.

