

# Accurately monitoring hydrostatic pressure testing in a gas pipeline

## APPLICATION C114

Type of Company: Public Utility

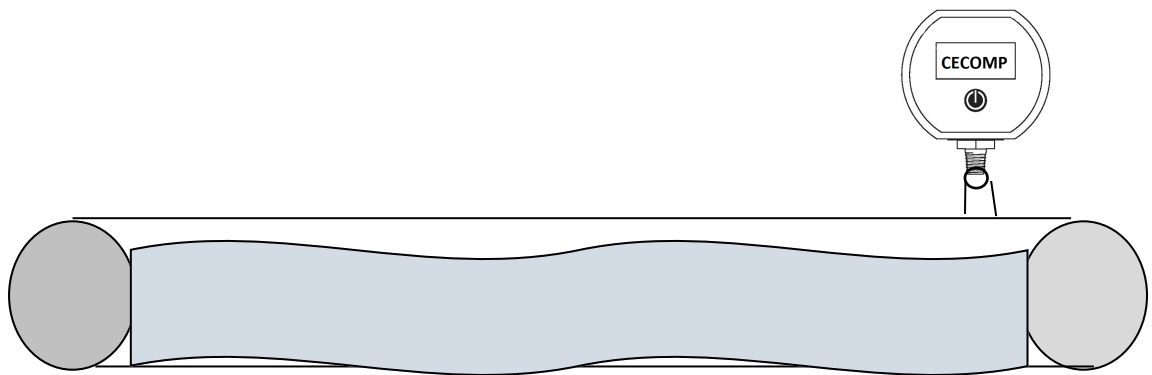
Location: Kansas

The DOT requires that any new/replaced pipeline carrying natural gas be tested hydrostatically. Each section is filled with water and pressurized up to a level higher than the maximum pressure at which the pipeline will operate when carrying natural gas. The test pressure is held for a specific period of time to determine if the pipeline meets the design strength requirements and if any leaks are present.



### The Engineering Issue

- The engineer has a requirement to accurately measure and record the test pressure.
- The analog gauges they currently use have significant errors due to mechanical shock and adverse field conditions.



The engineer used a Ccomp DPG1000B digital pressure gauge to monitor the test. This Ccomp gauge has 0.25% accuracy over the full pressure range, 1 PSI resolution, and can handle the “abuse” because of their ruggedness both electrically and mechanically.

**Problem. Solved.**