

API-Cecomp Group *n'fo*

Technical & Application Note C198

Application: Monitor gas flow for testing of production capability
Type Of company: Natural Gas Service Company
Location: Oklahoma

Problem: The customer provides maintenance, testing and repair services for natural gas wells. When a well is in the production stage the rigs used to drill and complete the well have moved off the wellbore and the top is outfitted with a collection of valves called a production tee (typically referred to as a christmas tree). A "packer leakage test" must be commenced on each completed well within seven days after actual completion and annually thereafter. These tests must also be done whenever remedial/repair work has been done on a well during which the tubing has been disturbed. All pressures through the entire test must be continuously measured and recorded with pressure gauges. The accuracy of the gauges must be checked at the beginning of the test and at the end of the test with a deadweight pressure gauge to verify accuracy. The engineer requires a high accuracy rugged digital gauge that can be used as an "electronic deadweight" and as a backup (ready spare) gauge for the test.

Note: For additional information on this process see http://en.wikipedia.org/wiki/Production_packer

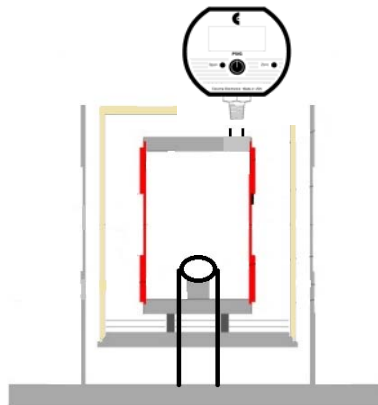
Solution: The customer purchased a DPG1000B with the high accuracy (0.1%) option which provides the engineer an accurate visual indication. The ruggedness of the gauge ensures that calibration was maintained even in harsh conditions.

Alternate Solution: For hazardous locations, use the Intrinsically Safe (FM APPROVED) Cecomp DPG2000B with the high accuracy option.



DPG1000B

Digital Pressure Gauge



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