

Title: Pressure Controlled Gas Lift for Mitigating Multi-Porting
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Traditionally, in gas lift systems, we control the gas injection rate at surface and the casing pressure determines the depth of injection. When a well is hydrodynamic slugging or terrain slugging, the change in pressure profile along the wellbore can cause multi-porting. We propose a novel pressure controlled gas lift technique for slugging unconventional wells that mitigates multi-port injection. We converted our rate-controlled gas lift system to read and control off of the casing pressure using feedback control. The pressure control program has created better tubing flow conditions, increase of production, and stopped multi-porting. The adverse side of this program is you must have an abundance of gas lift gas with a system that can handle large swings in volume. We have found this system beneficial on wells that fit the parameters of dynamic slugging and can be controlled by single point injection. We will be presenting a case study outlining our findings.