

Title: Gas Pump – A New High Pressure Gas Lift Artificial Lift System

Author(s): Steve Turk, ELC Energy Services

Mike Juenke, ELC Energy Services

Gas Pump (GP) is a newly invented and recently patented high pressure gas lift artificial lift system that efficiently utilizes a surface controlled high pressure gas injection process to efficiently lift liquids from oil and gas wells. The system is ideal for lifting liquids in late life tortuous wells that are difficult to rod pump (RRP). It provides all the similar benefits of RRP without the inherent installation and failure costs and risks associated therewith. GP uses high pressure natural gas to blow liquids out of a bottom hole accumulator chamber into the tubing (like RRP) all while isolating the reservoir from the backpressure of the column of liquid standing in the tubing, thereby enabling maximum reservoir pressure drawdown.

This presentation will describe how the GP system works, highlight it's differentiating features, and provide general qualifying considerations for screening candidates for its deployment.