



Injection gas decreased by nearly 50% and a 20% to 40% increase in gas production was realized.

Gas-Assisted Plunger Lift Decreases Injection Gas Usage

Challenge:

Several producing wells in the Travis Peak Formation had a gas lift system installed. After a year of operation, this system became inefficient due to a 700 PSI injection pressure on a formation that had a low bottom hole pressure. The Operator was interested in adding a plunger system to improve efficiency by reducing injection gas and minimizing the change to the mechanical set-up.

Solution:

Ferguson Beauregard Field Rep, Dale Crawford, recommended installation of a conventional plunger system using a ball and seat in the bottom hole assembly. The tubing design located a single operating valve at the end of the tubing and the ball and seat arrangement ensured that produced liquids would remain in the tubing. The gas lift valve would open at a preset pressure and inject gas to send the plunger to the surface. The valve operation downhole, and at the surface, allowed the operator to maintain a consistent casing pressure thus reducing the amount of injection gas needed for subsequent cycles.

Summary:

By adding a plunger system to the existing gas lift, injection gas was decreased by nearly 50%. A 20% - 40% increase in gas sales was realized and the initial investment was recouped in about 45 days.

For over 25 years Ferguson Beauregard has been at the forefront of the industry search for innovative solutions to production problems. From self-contained plunger lift systems and electronic controllers to fully integrated, remotely managed production systems, our goal is to deliver immediate results for you.

FB Experience Can Benefit You Five Ways:

1. Innovations in oil and gas production technology
2. Flexibility to develop customized solutions for specific needs
3. Practicality to build systems that offer immediate return on investment
4. Foresight to recommend systems that are easy to maintain and update
5. Commitment to share knowledge and continue research and development.

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