

HORIZONTAL CHECK VALVE



QSO's Patented* Horizontal Check Valve (HCV) has removed the limitations that once burdened the industry in not being able to hold fluid properly in a horizontal well. Our HCV has proven to hold fluid in wells up to a 75 degree angle where conventional check valves start failing at +/- 48 degrees.

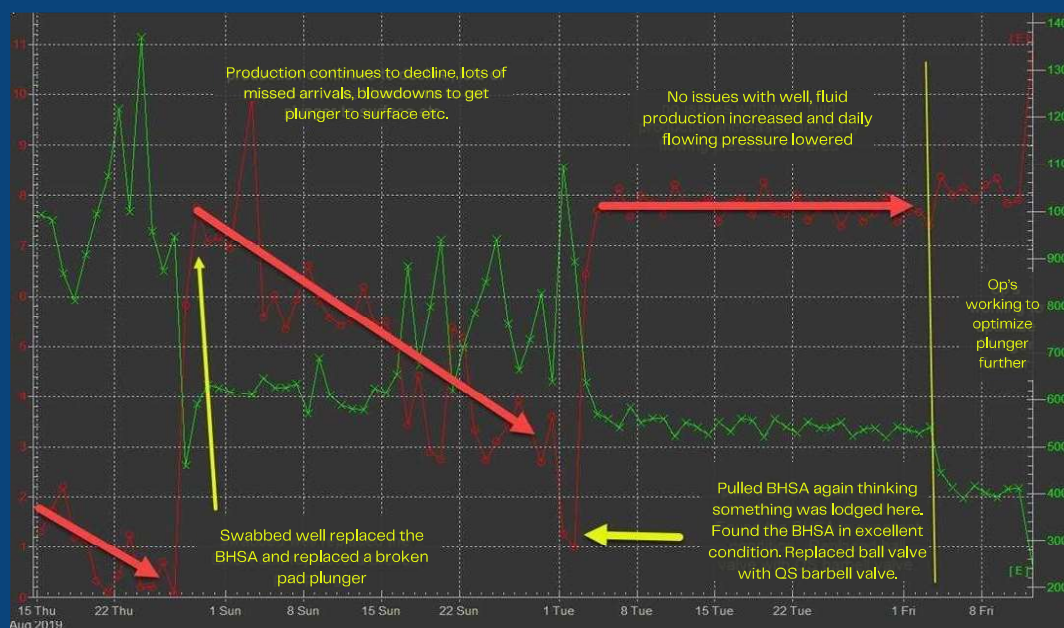
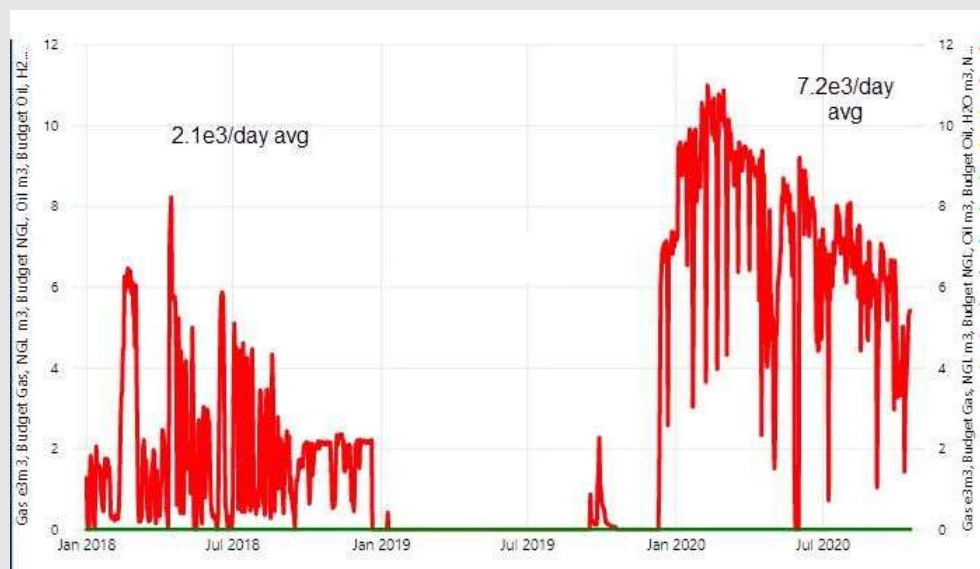
Production companies can now access deeper profile nipple locations which eliminates the need to set bumper springs on expensive tools higher in the tubing to ensure a seal. By maintaining a fluid column in the heel of a horizontal well, the plunger lift system's efficiency is now maximized. This yields an increase in both fluid and gas production, reduces the frequency of "dry" plunger arrivals, eliminates swabbing, and many other remedial well operations.

Other common material options available.



For more technical information, pricing or to learn more about our HCV, please contact us today!

- This well was a chronic well. It had loading issues, and struggling flow against any pressure changes at surface.
- Following the HCV install in January 2020, the well is back on trend and requires little to no additional attention from operations, sustaining production of over 3e3m³/day from conventional check valve system.



Tubing / Casing Pressures

Pressure (kPa)

2,500.00
2,300.00
2,100.00
1,900.00
1,700.00
1,500.00
1,300.00
1,100.00
900.00

14-32 TBS 14-32 CIG

Note tubing matches casing in close cycle as fluid falls out of tubing.

Tubing / Casing Pressures

Pressure (PSIA)

2,500.00

2,000.00

1,500.00

1,000.00

500.00

01/01/2018 07/01/2018 01/01/2019

— 02-02-28 TRG — 02-02-28 CIG

*Note tubing and casing maintain a differential during close cycle as fluid remains captured