



WELL MASTER
Produce more. Spend less.

GALLOP

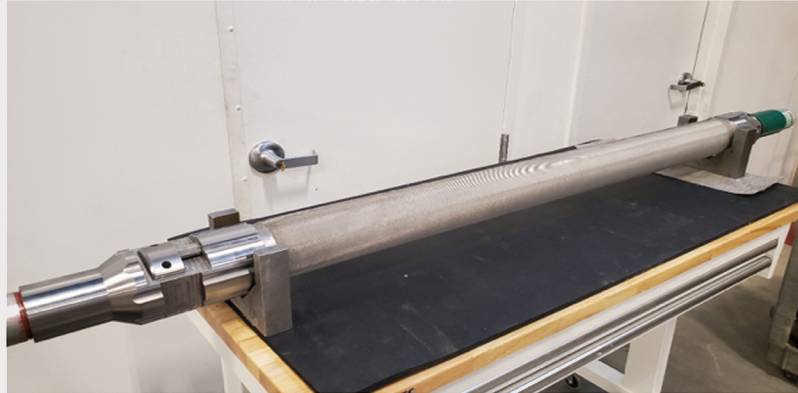
GAS LIFT DELIQUIFICATION OF THE HORIZONTAL SECTION OF THE WELL

WHAT IS GALLOP?

- **GALLOP** - **G**as **A**ssisted **L**iquid **L**ift using **O**scillating **P**ressure
- A dual tubing system with check valve(s) that can lift liquids from multiple points in a horizontal wellbore without putting lift pressure on the formation

WELL SELECTION CRITERIA

- Target liquid rates less than 50 BLPD
- Access to lift gas at pressures suitable for GALLOP*
- Low solids production, low chance for future frac interference
- Uplift potential if well could be "pumped off"
- A Sucker-Rod pump below the perms in a vertical
- Existing tubing preferred



HOW TO SPOT A LOADING PROBLEM?

- Well is approaching min-lift rates anywhere in the wellbore
- High frequency data shows surging or cycling gas rates
- Decreasing (or zero) surface liquid yield (liquids are being left downhole)

FOUR STAGES PER CYCLE

- **FILL** - Liquids in sump(s) fill horizontal section(s) of Dual Tubing (DT), check it open
- **GAS INJECTION** - Pressurized gas is injected into one side of DT, check closes
- **LIQUID PRODUCTION** - Lift gas drives liquid slug to surface, check closed
- **BLOW DOWN** - DT pressure is relieved to flowline, check re-opens

FEATURES AND BENEFITS

- GALLOP can defer P&A on problem wells
- Ability to monitor performance in real time as cycle times are tuned
- Keeps reserves on the books
- Production pays for the system costs

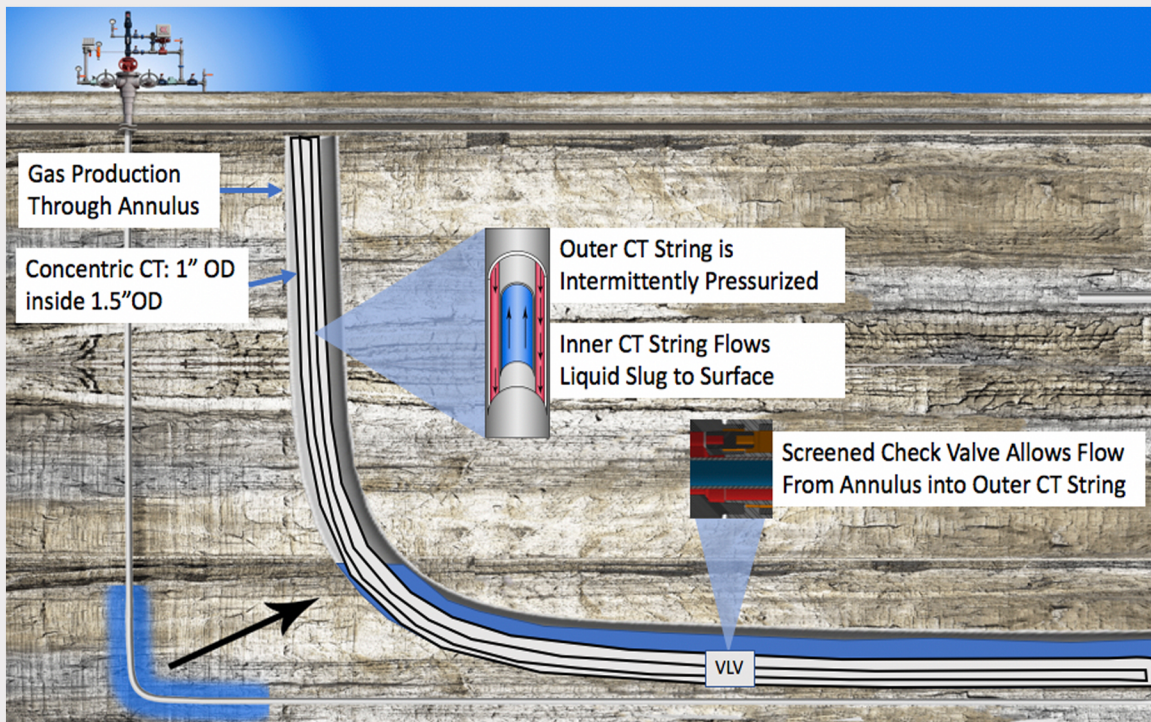
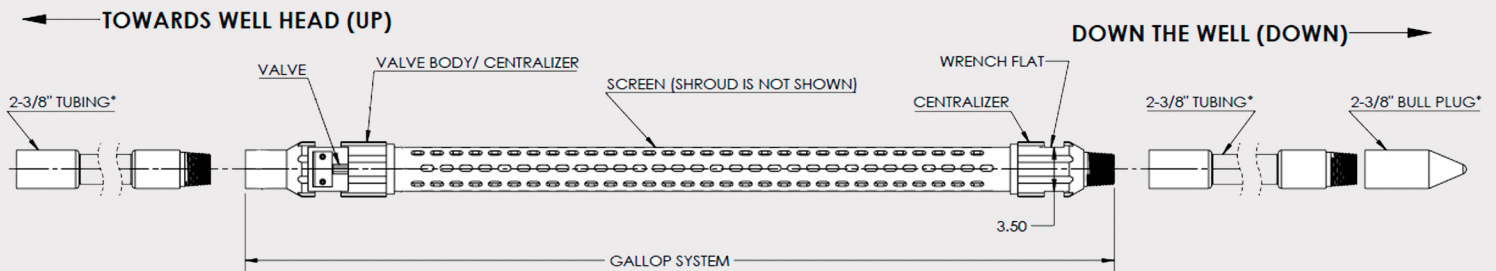


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TECHNICAL SPECIFICATIONS

- Total Length - 68"
- OD - 4 3/8"
- Effective screen size - 4" Dia x 48" L
- Sand Screen 100 micron
- System Volume Flow Rate 3gpm
- Added Centralizers



PATENT INFORMATION

GALLOP Protected under US Patent 8794305B2 & 9435163B2

Contact Well Master today to find out how we can help optimize your oil and gas well production.

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