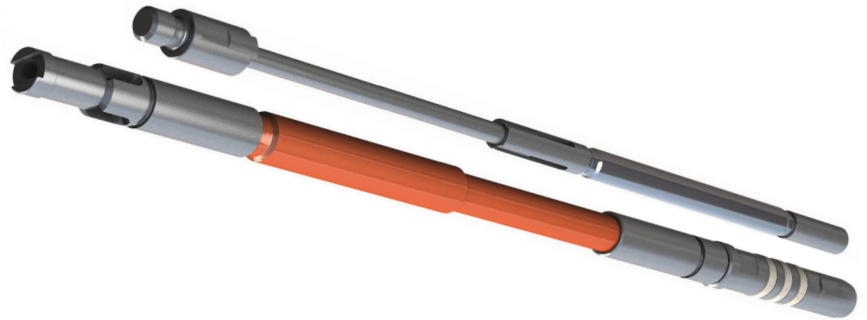


## Harbison-Fischer Increases Production for Permian Basin Operator that Equates to Over \$20,000 in Revenue Per Well

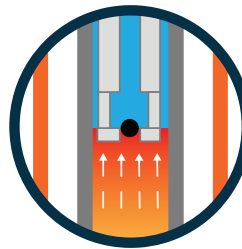
### CHALLENGES

- A 500 well Permian Basin site, with 87 wells using rod pumps experienced gas interference
- Difficulties in optimizing production in deep wells with rod pumps
- Reduced efficiency
- Increased workover costs

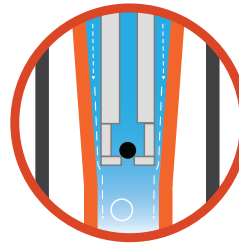


### SOLUTIONS

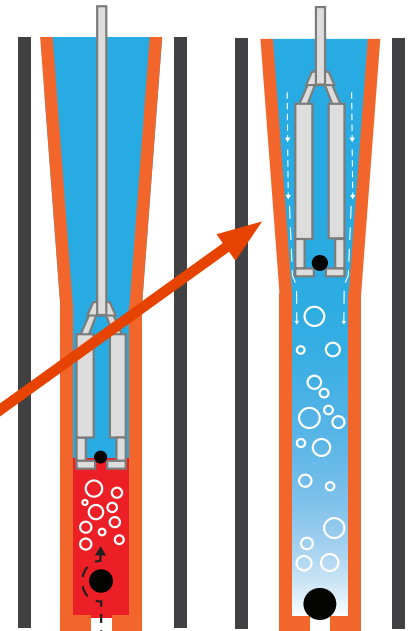
- Installed Harbison-Fischer Variable Slippage Pump® (VSP)
- Engineered with a patent tapered barrel that alleviates gas interference, with a wide range of applications
- The pump's design intentionally allows some of the produced fluid to slip back into the barrel eliminating gas interference
- H-F sales and technical service experts designed the VSP lower API barrel length and recommended proper spacing to ensure the plunger enters the Variable Slippage barrel
- Conventional rod pumps allow fluid slippage to lubricate the pump, but not a high enough rate to eliminate gas interference



In typical pumps, free gas can accumulate in the cavity below the plunger leading to reduced efficiency



In the VSP, fluid is able to slip from above the plunger into the cavity



The gradual I.D. tapered barrel at the top of the VSP allows a small amount of fluid to slip back down into the pump during its upstroke

### RESULTS

Customer has standardized using H-F VSP's for all their rod pump wells in the Permian

**+\$20,000**

Increase in customer revenue per well

**33%**

Increase in oil production

**+59%**

Return of natural gas

**35**

VSP's have been installed at the site

# Unsurpassed Customer Support

Our relationship with the oilfield operator does not end when our rod-lift products enter the wellbore. In fact, that relationship will continue to grow over the product's complete life-cycle, with our highly trained Technical Service and Sales staffs just a phone call or email away should you require any assistance, from system design to troubleshooting to completing a product's delivery and installation.

Horbison-Fischer

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