

The image shows an industrial oil field wellhead. The wellhead is a complex of metal pipes, valves, and machinery, painted in shades of grey and black. It is situated on a bed of light-colored gravel. In the background, there are other wellheads and a clear blue sky with some light clouds. A large, thick red arrow is superimposed on the image, pointing from the top left towards the bottom right, partially obscuring the wellhead. The text 'WELL MASTER' is written in large, bold, white capital letters across the middle of the image, and 'ADVANCED FLOW CONTROL' is written in smaller, white capital letters below it.

# WELL MASTER

ADVANCED FLOW CONTROL





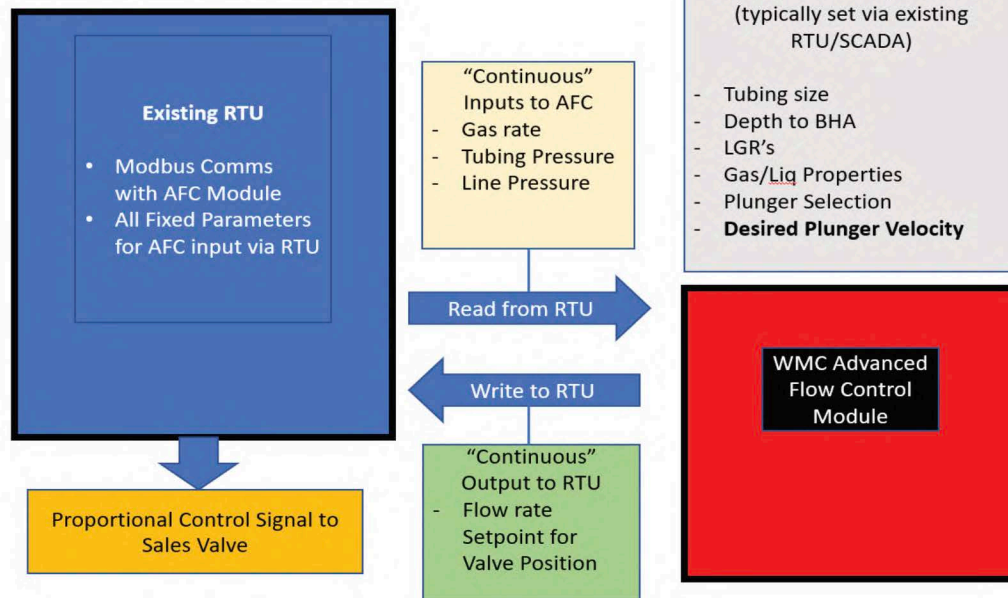
## WHAT IS THE PROBLEM BEING ADDRESSED?

The traditional approach to understanding desired plunger velocity is based on operating within the “ideal” target range. However, the problem is, the control systems only measure the average velocity from the start of the rise cycle to the end. Plunger velocity can actually vary enormously from bottom to top of the well.

## WHEN SHOULD AFC BE USED?

- Where good plunger velocity management is key for best plunger operating efficiency and production
- Where broken plungers and/or damage to surface equipment is prevalent
- Low line pressure or high variable line pressure environments
- Large differences in flowing gas velocity from bottom to top of the well

AFC Module added to Existing RTU at location:



## WHAT IS AFC COMPATIBLE WITH?

- RTU Controllers w/ MODBUS
- Conventional and cloud-based SCADA

**AFC is a proprietary technology from Well Master**

**\*Patent Pending**

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

Call **303.980.0254** | Email [info@wellmaster.com](mailto:info@wellmaster.com) | Visit [www.wellmaster.com](http://www.wellmaster.com).

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**WELL MASTER**  
Produce more. Spend less.

# BENEFITS OF AFC

- ✓ **SAFETY:** Minimize fast arrivals
- ✓ **EQUIPMENT INTEGRITY:** Fewer broken plungers and damaged surface equipment
- ✓ **INCREASE PLUNGER LIFE:** Excess speed wears plungers faster. Controlled speeds extend plunger life
- ✓ **INCREASE PLUNGER EFFICIENCY:** Narrow the velocity range over the entire trip
- ✓ **Speeds recovery from pressure upset conditions as wells line out automatically**
- ✓ **Reduces operator intervention for plunger replacement and wellhead issues**

## BEFORE AFC



**SCADA reports plunger  
V = 996 fpm**

**At open plunger  
V = 892 fpm**

**At arrival  
V = 1940 fpm**

## AFTER AFC

**SCADA reports plunger  
V = 898 fpm**

**At open plunger  
V = 969 fpm**

**At arrival  
V = 717 fpm**



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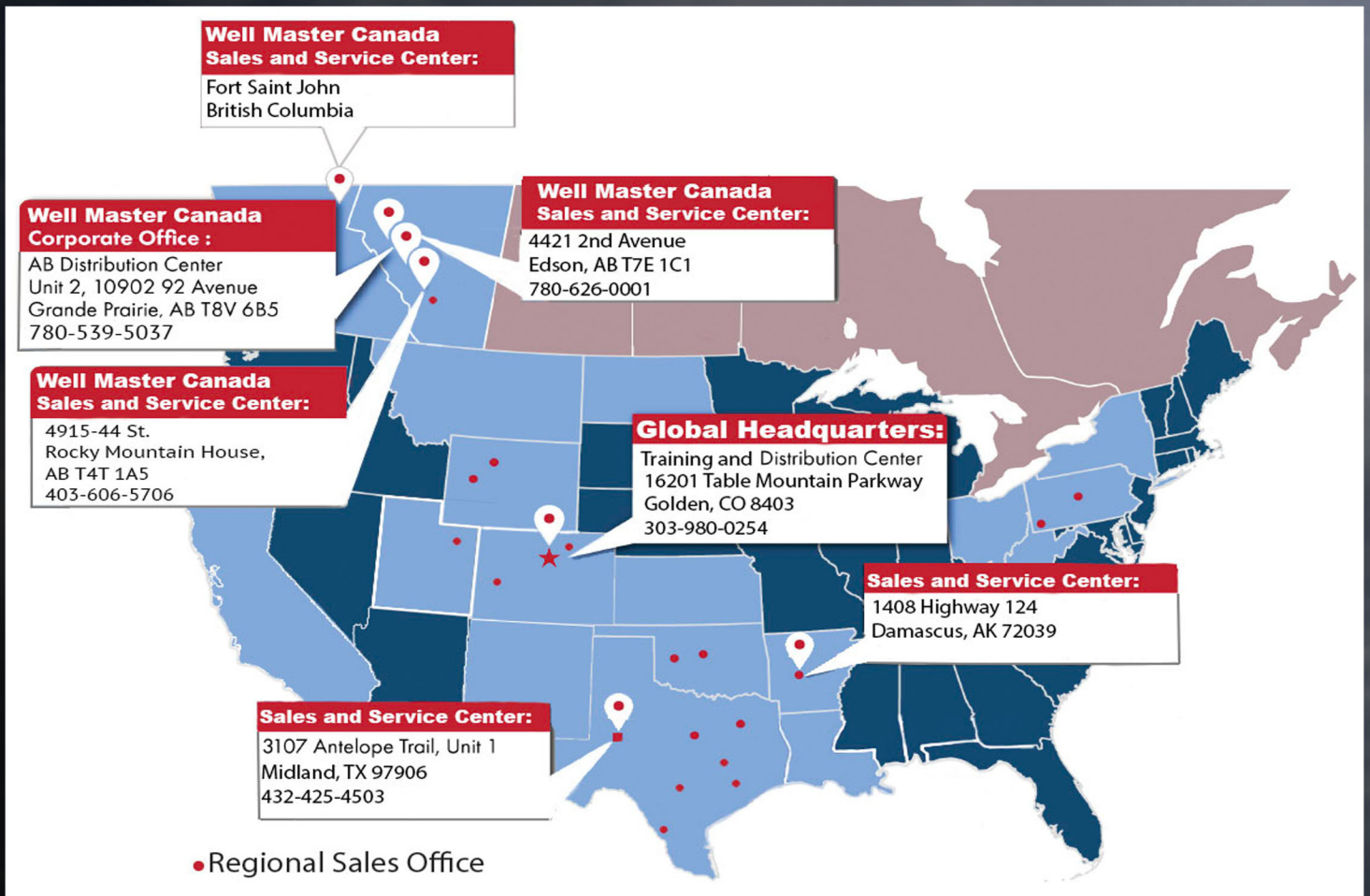
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# WELL MASTER



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