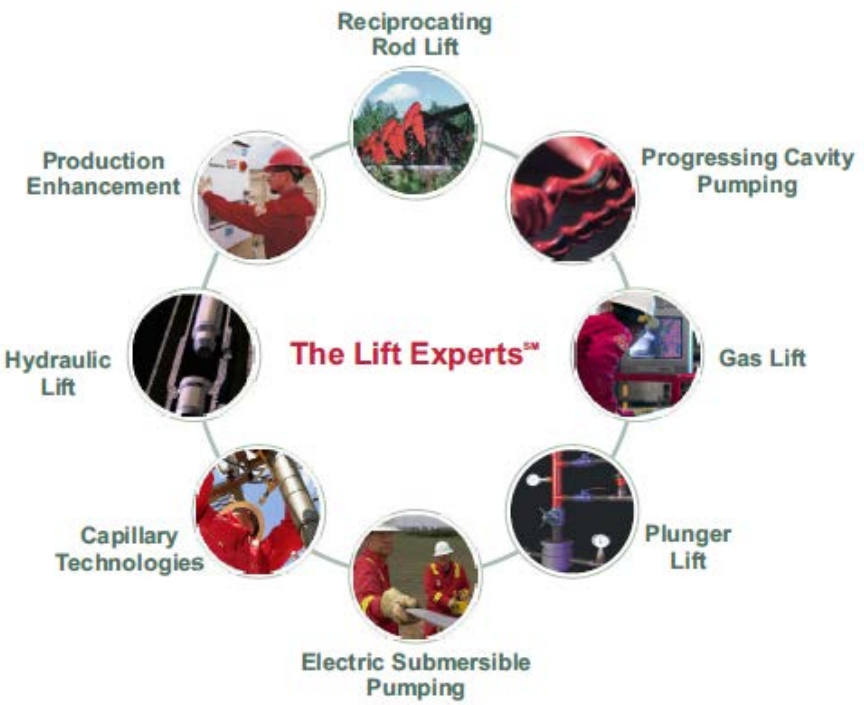
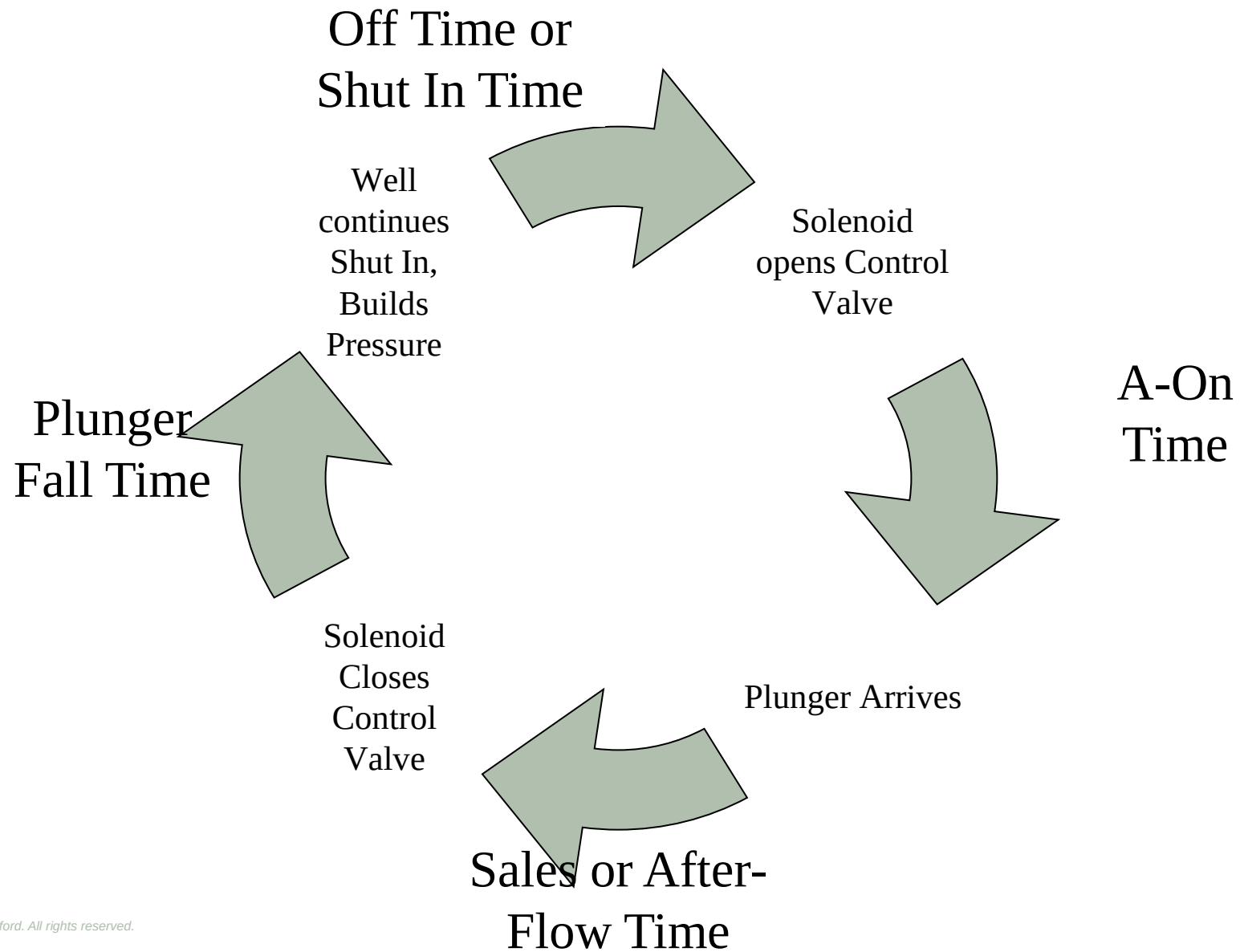
Before we start… Understand the Challenges

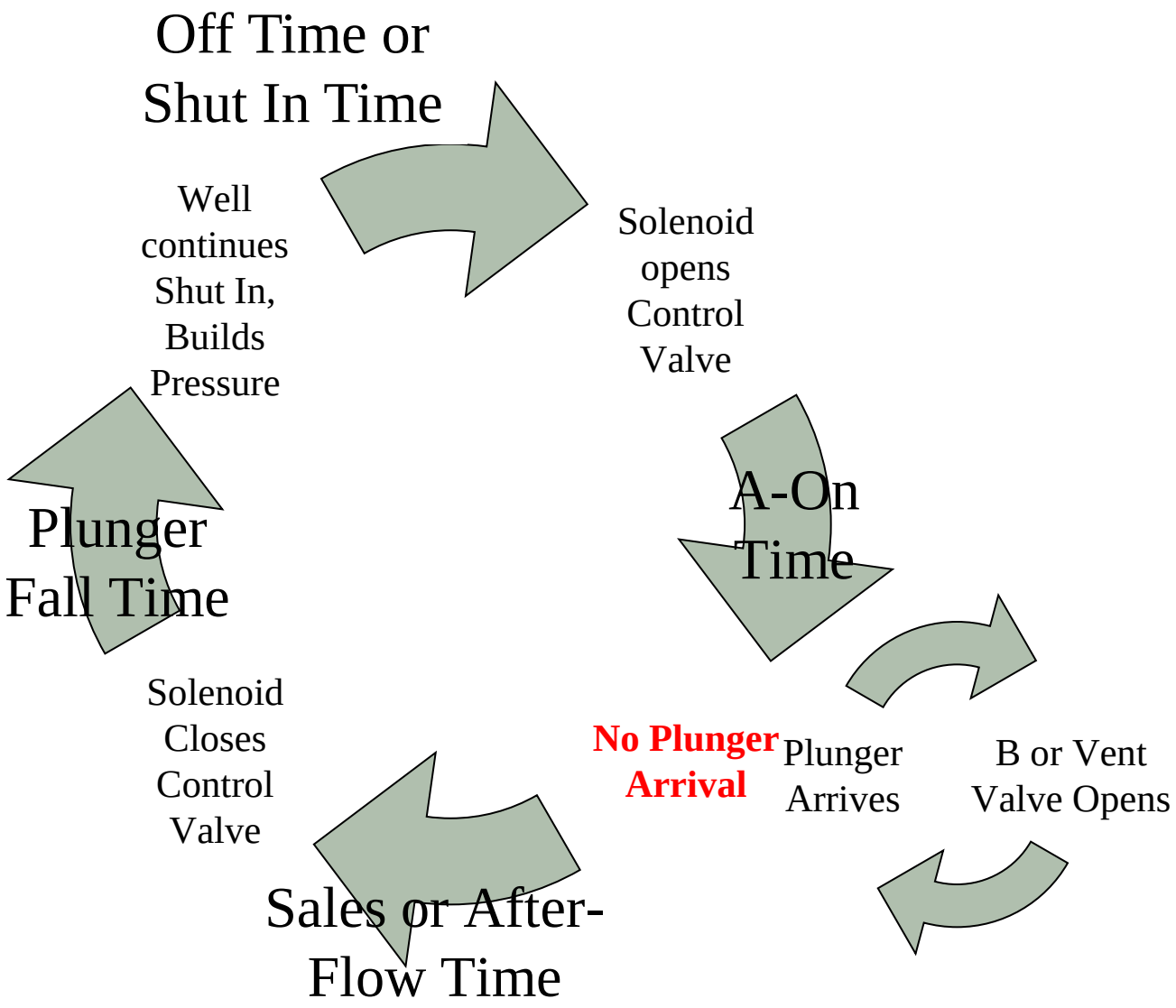
- A single *Plunger Lift* solution does not solve every production problem and prevents venting.
- Changes in *reservoir characteristics* over time will affect production and the type of solution deployed.
- Requires continuous attention to maintain and optimize; may often be labor intensive for the “life of the well”.
- Others…



Normal Cycle with Plunger Arrival



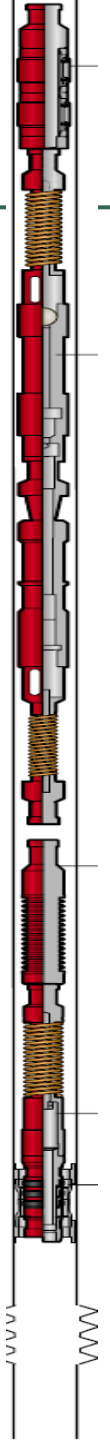
Normal Plunger Cycle without Plunger Arrival



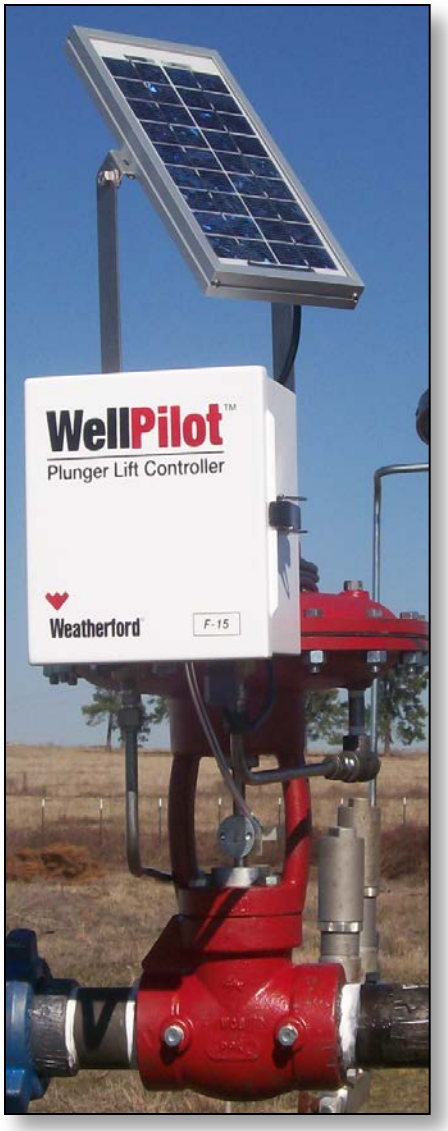
Multi-Staged Plunger Lift Method

This device is landed at various intervals in the well in order to isolate the chambers.

- Primarily used in wells that have GLR's below what is necessary to lift a conventional plunger
- Used in wells that are currently on Conventional Plunger Lift that require venting to surface the plunger
- Field Trials indicate that it decreases lift gas by 1-3 mcf per Barrel.
- Wells that have previously been considered Rod Pump Candidates.



Intelligence to Reduce Methane Emissions



- Mandatory Shut In – Well Recovery
  - Initiates after plunger non-arrival
  - Allows the well to build excess energy for next cycle to insure plunger arrival without venting
- Short Cycle – Auto Recovery
  - Initiates immediately after Mandatory Shut In – Well Recovery
  - Shuts the well in upon plunger arrival for a programmable number of cycles before resuming normal operation.
- Gas Injection/Assist Operation
  - Used during Gas Assisted Plunger Lift method to apply injection gas as needed
- Hi-Line Shutdown
  - Monitors line pressure for fluctuations that will prevent successful plunger arrival
- Foss and Gaul Control
- Load Factor Control