

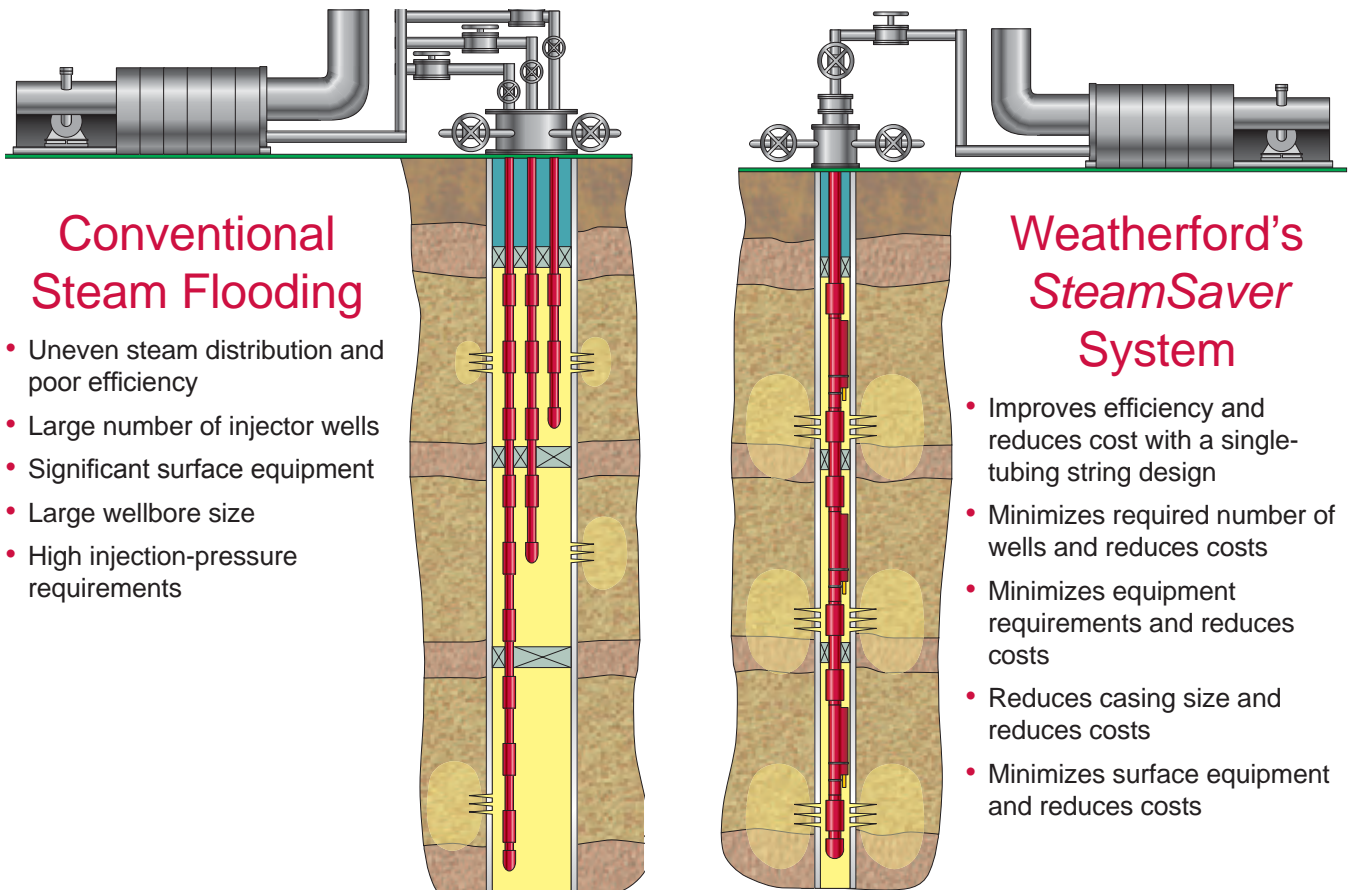


**Weatherford®**

# The SteamSaver™ Injection System

Simplify well completions. Minimize operational costs. Weatherford's patented *SteamSaver* injection system controls steam rate and enhances steam quality by reducing the number of injection wells and the size of the wellbore. This Weatherford innovation can also potentially reduce the equipment requirement and the surface injection pressure requirement.

The *SteamSaver* injection system addresses several issues left unresolved with use of traditional steam flood solutions.



## Advantages

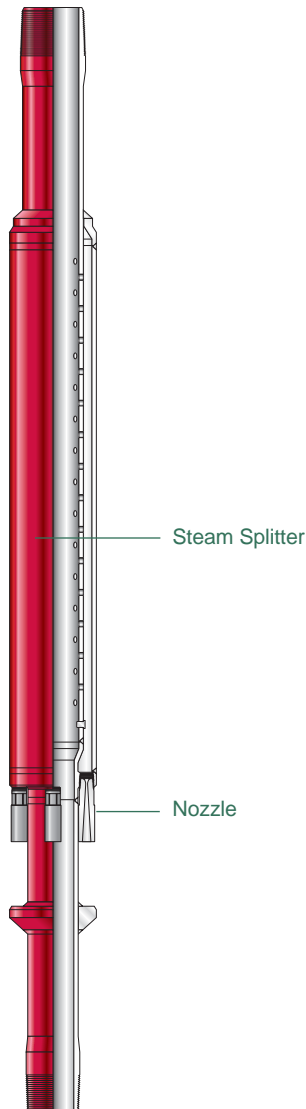
- Constant injection volume into multiple zones improves allocation of steam for greater system efficiency and therefore improved recovery.
- System design reduces the quantity of injector wellbores, which minimizes completion equipment costs.
- System design reduces hole-size requirements, which allows smaller casing size and minimizes costs.
- In SAG D or cyclic steam injection applications, heat is distributed evenly along horizontal well sections, potentially improving recovery.
- System's potential to minimize required injection pressure at surface can reduce steam generation costs.

# Weatherford's Total Downhole Steam Injection Solution

## SteamSaver™ Components

### Steam injection mandrels:

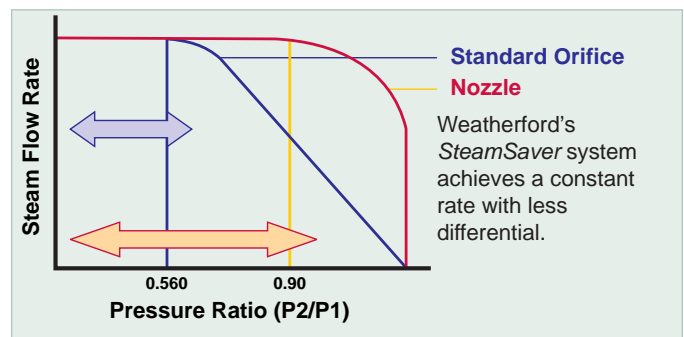
Consist of mandrel, pressure recovery nozzle and steam splitter sleeve.



### Surface monitoring equipment:

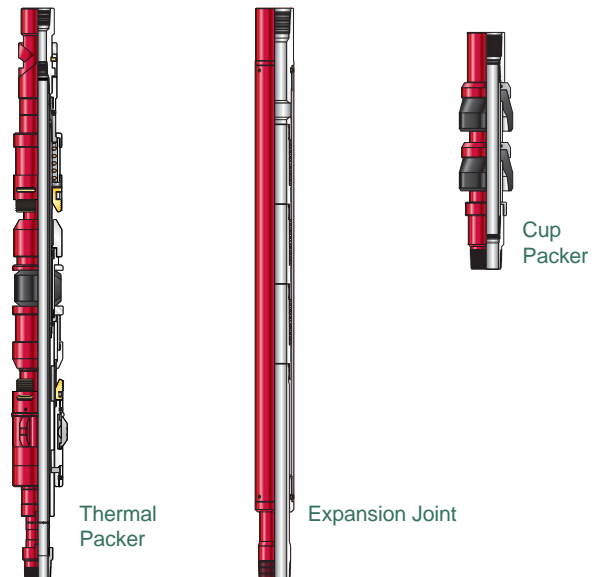
Records injection pressure, injection rate and steam quality.

## SteamSaver Injection System Performance



### Isolation packers:

Thermal packers with integral expansion joint or thermal cup packers with separate expansion joints; located between injection zones.



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