A smarter method to retrofit technologies within your well completions

For wells with a downhole safety valve you may need to install a technology within the production tubing, which means bypassing the safety valve while maintaining its function.

We have solutions for you!

- Retrofit gas lift solution
- Retrofit chemical injection
- Retrofit downhole reservoir monitoring (Cabled/wireless)
- Retrofit downhole electric or hydraulic pump system
- Retrofit “smart” well system

(Key features for each application described below)

HANSEN Energy Solutions LLC has developed a new innovative concept of installing gas lift, reservoir monitoring, chemical injection or downhole pumps in wells requiring a downhole safety valve system. The method allows gas lift from the wellhead to one or several deep placed gas lift valves, while also introducing the abilities for combining this with downhole real time monitoring of pressure and temperature. Also, we have included a design option for slickline replacement of the gas lift valve to avoid having to retrieve full insert gas lift system for such replacements. And, by retrieving the gas lift valve, access to the wellbore for logging or similar can be achieved – Also without having to retrieve the complete insert gas lift solution.

Key features, retrofit gas lift:

- Rigless installed and retrieved
- Introduce gas lift into wells where well integrity, platform and personnel safety concerns, etc. do not allow gas filing of annulus
- Provides a continuous gas injection path from wellhead to gas lift valve(s) placed below safety valve area
allows gas lift injection location(s) below location of production packer

- equips wells with a safety valve system to gas lift without having to pull and replace production tubing

- uses existing certified safety valves requiring no new safety valve design, and in most cases, your preferred DHSV supplier can be used

- jointed or coiled tubing deployed

- introduces the ability for slickline replacement of gas lift valve(s), without having to pull retrofit system out of the well - can be recommended as production rates change by time

- optional implementation of realtime electrical reservoir- and gas lift monitoring for optimization

- based largely on existing and proven components, assembled in a new and innovative way

- designed by personnel having 30+ years relevant practical experience and a number of patents within downhole well completion, intervention and reservoir monitoring technologies

Key features, retrofit chemical injection:

- rigless installed and retrieved

- introduce chemical injection (foamers, corrosion inhibitors, water for desalting, etc.) into wells as a continuous gas injection path from wellhead to release valve placed below safety valve area and at a depth deeper than the production packer if required

- equips wellbores with a safety valve system to chemically treated wells without having to pull and replace production tubing

- uses existing certified safety valves requiring no new safety valve design, and in most cases, your preferred DHSV supplier can be used

- jointed or coiled tubing deployed

- can introduces the ability for slickline replacement of release valve, without having to pull retrofit system out of the well

- optional implementation of realtime electrical reservoir monitoring for increased and improved reservoir drainage

- based largely on existing and proven components, assembled in a new and innovative way

- designed by personnel having 30+ years relevant practical experience and a number of patents within downhole well completion, intervention and reservoir monitoring technologies

Key features, retrofit reservoir monitoring (permanent gauge system):

- rigless installed and retrieved

- increased and improved reservoir drainage
Introduce real time reservoir and production monitoring to a depth below safety valve area and at a depth deeper than the production packer if required

Equips wellbores with a safety valve system to chemically treated without having to pull and replace production tubing

Uses existing certified safety valves requiring no new safety valve design, and in most cases, your preferred DHSV supplier can be used

Can utilize electric type downhole gauge(s) of your preference

Can also be used to significant lower transmission distance, increase battery life time, and improve ability to communicate through wellhead system, for wireless downhole gauge systems

Based largely on existing and proven components, assembled in a new and innovative way

Designed by personnel having 30+ years relevant practical experience and a number of patents within downhole well completion, intervention and reservoir monitoring technologies

Key features, retrofit downhole pumping:

- Rigless installed and retrieved
- Introduce a through tubing deployed downhole pump for gas well dewatering or oil well pumping into wells below safety valve area and at a depth deeper than the production packer if required
- Equips wellbores with an artificial lift system without having to pull and replace production tubing
- Uses existing certified safety valves requiring no new safety valve design, and in most cases, your preferred DHSV supplier can be used
- Jointed or coiled tubing deployed
- Optional implementation of realtime electrical reservoir/pump monitoring for increased and improved reservoir drainage
- Based largely on existing and proven components, assembled in a new and innovative way
- Designed by personnel having 30+ years relevant practical experience and a number of patents within downhole well completion, intervention and reservoir monitoring technologies

Patent pending.

Contact us with your challenges!