CASE STUDY: CO_2 INJECTION

HPump surface pumping system supplements compressors to reliably boost CO_2 injection at lower power demand

CHALLENGES

Conventional 700-HP compressors for CO_2 injection suffered from:

- Reduced performance with slight increases in CO_2 temperatures
- High CAPEX and large power requirements during operation
- Complicated and time-consuming installation on site
- Labor-intensive maintenance and repair, which increases nonproductive time and decreases CO_2 injection volumes

SOLUTION

Supplements compressor with the HPump™ surface pumping system to improve pumping efficiency and lower costs with features including:

- Proven performance based on electrical submersible pump technology
- Scalable, modular design and off-the-shelf components for faster install and repairs
- Optimized pump stage count for efficient CO_2 pumping at reduced densities
- Greater pumping flexibility and flow assurance at half the operating cost of a single compressor

RESULTS

26.7 MMcf/d
transported at 450 HP load

36% less power
required to run the pumps

Increased pumping
output at continuous injection rates

Lower costs
to install, operate, and maintain

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