HPump system saved $295,000 USD for water flood operator

A customer operating a water flood with 1% oil cut in northeastern Oklahoma was experiencing extensive nonproductive time (NPT) and rising maintenance costs caused by a triplex pumping system to re-inject 28,000 barrels of produced water daily.

To reduce downtime and improve efficiency, Baker Hughes, a GE company (BHGE), recommended replacing the triplex pump with a highly reliable, efficient parallel HPump™ horizontal pumping system paired with a BHGE Electrospeed™ 3 variable speed drive.

The HPump system consists of a multistage centrifugal pump, a horizontal thrust chamber, and an industrial, foot-mounted electric motor—all attached to a sturdy skid. Optimized with more than 1,000 hours of research and development testing—plus thousands of worldwide installations—the durable and simple HPump system lowers operation and maintenance costs.

In this case, the customer saw maintenance expenses decrease 80%, while production increased 67%. The HPump system also saved USD 246,700 in annual deferred production costs compared to the previous system.

Challenges
- Water flood with 1% oil cut
- 28,000 BWPD injection rate
- High operating expense and NPT using triplex pump reinjection system

Results
- Reduced downtime 67% to just one day per month
- Saved 6,168 bbl oil deferred production
- Reduced annual maintenance by $48,000 USD