

Magnefficient permanent magnet motor delivered 49% more horsepower with a single motor and increased well production by 53%

CHALLENGES

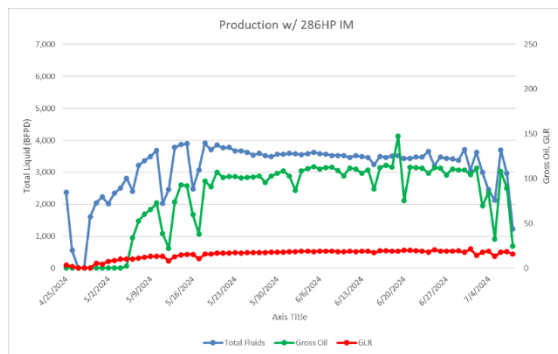
- Unconventional well with 5-1/2-in. 20# tight casing, high water cut, and high production
- ESP running at maximum motor amp limit while only producing 3,500 BFPD with P60 pumps and a single 286HP pump
- Well has capability to produce 5000+ BFPD but ESP is limited to a single motor configuration to reduce complexity.
- Need a higher HP single motor to reach full production potential.

SOLUTION

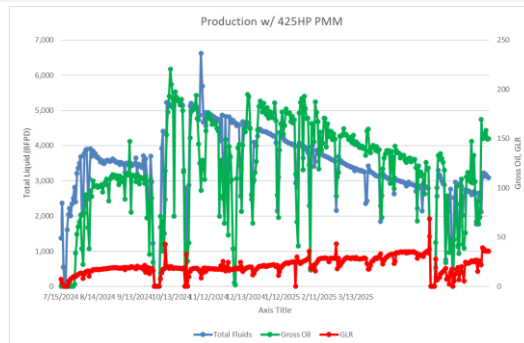
- The [Magnefficient™ permanent magnet motor](#) boosted the well's production by:
 - Increasing the available motor HP from 286HP to 425HP while maintaining a single motor configuration
 - Optimizing production in combination with P60 pumps, our largest 400 series production pump
 - Improving reliability by avoiding a complicated ESP system with a tandem motor

RESULTS

- Maximized production in tight 5-1/2-in. 20# casing
- Increased production by 53%
- Improved drawdown from 2,500psi PIP to 500psi PIP in 7 months
- Fulfilled customer requirement for a single ESP motor



Production with a 286HP induction motor peaked at 4,000 BFPD



With the new 425HP Magnefficient PMM, production increased to 6,500 BFPD and was able to draw down the well to 500psi PIP