Magnefficient permanent magnet motor (PMM) saved operator 18.5% on electrical spending compared to an induction motor (IM)

CHALLENGES

- Well conditions involved a high percentage of 100 mesh sand
- ESP required to handle a gas-to-liquid ratio (GLR) between 650-1,000 SCF/STB
- Increased pressure from power companies to reduce electrical usage

SOLUTION

 Baker Hughes recommended switching out a previously installed induction motor (IM) with a Magnefficient[™] permanent magnet motor to compare the differences between the new PMM and already installed IM on the same pad





IM PMM

Comparison of IM and PMM on the same pad. Even with higher production, the PMM still reduced energy consumption and costs.

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RESULTS

18.5% In electrical cost savings over a 7-day period

38.6% Savings in electrical costs per barrel of oil

23k USD Saved in yearly electrical costs (Based on \$0.1/kWH)

