CASE STUDY

HALLIBURTON

Delaware Basin, West Texas

Intelevate™ digital platform helps operator increase revenue by $5.8MM in six months on seven wells

Gas lift, jet pump wells successfully converted to electric submersible pump (ESP)

CHALLENGE

Production inefficiencies encouraged the operator to explore ESP conversion, presenting an opportunity to enhance their technical capabilities

SOLUTION

- Customized designs for ESP conversion to maximize production and runlife
- 64 real-time SpyGlass performance evaluations over six months
- Remote monitoring, trend diagnoses, and 74 remote speed adjustments with the Intelevate platform

RESULT

- 88% average ESP uptime
- +71,000 BBL oil production increase for all wells in six months
- Incremental revenue gain of approximately $5.8MM (calculated at $81/BO)

Overview

An independent operator in West Texas's Delaware Basin initially utilized a jet pump to produce one of their seven wells and gas lift for the remaining six. However, due to unsatisfactory production rates, they decided to transition all wells to ESPs.

Challenge

While gas lift is a popular choice of artificial lift due to its simplicity and low operating cost, it eventually leads to production losses when it fails to provide optimal drawdown. ESPs offer superior production rates but require technical expertise to operate effectively. In this case, the wells were located in a gas— and sand-prone area, which posed challenges for optimizing performance and avoiding premature failure. Without a dedicated in-house ESP expert, the operator turned to the Intelevate digital platform and team from Summit ESP® — A Halliburton Service, for guidance.

Solution

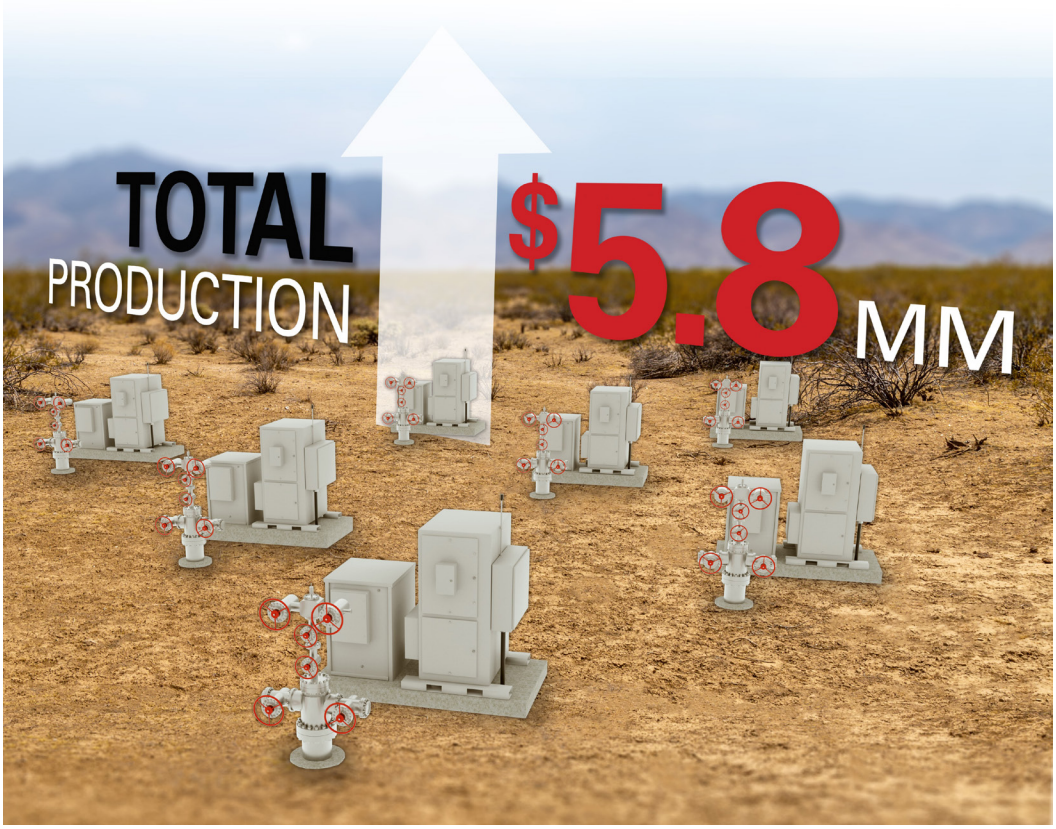
The Intelevate digital platform successfully converted all seven wells to ESPs by providing tailored designs, remote monitoring, and technical expertise. Powered by our Summit Knowledge™ digital ecosystem, 64 performance evaluations were conducted in SpyGlass™, our pump sizing software, over six months to optimize production and utilize downhole data for maximal drawdown. The resulting speed adjustments, 74 in total, were all made remotely, reducing field visits.

SUMMIT ESP

A HALLIBURTON SERVICE

Result

Converting the lift type and installing seven Halliburton ESPs from November to May resulted in a cumulative oil production increase of 71,730 BBL across all seven wells. Compared to projections using the initial forms of artificial lift, this additional production generated $5.8MM in revenue (calculated at $81/BO). Daily remote monitoring and technical trend analysis contributed to an average uptime of 88%. It reduced HSA hazards when field personnel would have been required to make adjustments at the well site. Coupled with zero ESP failures during this period, the total cost of ownership for the operator decreased significantly. It demonstrated the superiority of ESP production when compared to other forms of artificial lift.



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