

United States

Summit Knowledge™ digital ecosystem powers ESP collaboration and optimization

Advanced digital tools improve field-wide runlife by 51%

CHALLENGE

ESP operation and production data are often decentralized and stored in ways that make it difficult to access and analyze

SOLUTION

The Summit Knowledge digital ecosystem:

- Integrates ESP data through cloud-based systems, including all historical pulls and installs for the operator
- Automates workflows and built-in quality controls
- Offers predictive analytics through data modeling and proprietary algorithms

RESULT

- Collaborative environment for the operator and Summit ESP, empowering a focus on solutions rather than manual data processing
- Runlife improvement of 51%
- Reduction of premature failure by 30%

Overview

Production with electric submersible pumps (ESPs) can be key to a field's economic viability, especially in unconventional applications where they can significantly improve production rates. To fully take advantage of ESPs and identify improvement opportunities, tracking all aspects of operation from installation through dismantle is essential.

Challenge

Effectively and securely managing and leveraging an ESP system's full suite of data is challenging due to its myriad sources and formats. Reports are often generated in a spreadsheet and stored on individual computers, making them insecure, quickly outdated, complex to access, and hard to analyze efficiently. In some cases, information is scanned from printed documents, complicating its integration into analyses.

Solution

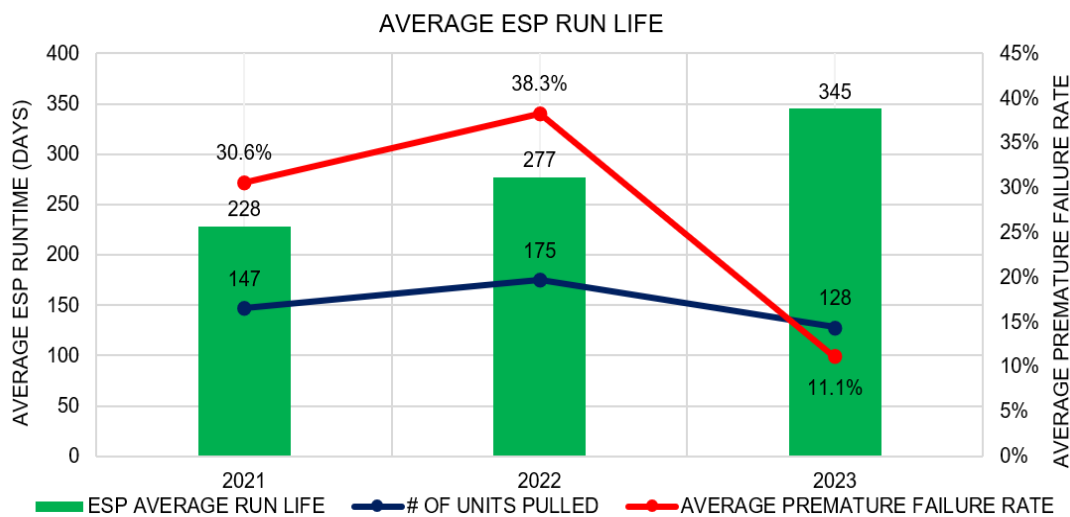
Summit Knowledge (SK) is a cutting-edge digital ecosystem from Summit ESP® — A Halliburton Service. It centralizes ESP reports on initial designs, quotes, downhole equipment, cable testing, dispatch, field installation, sales tickets, well and variable speed drive (VSD) troubleshooting, pulling, disassembly, re-use testing, and lessons learned. SK™ rapidly and easily integrates customer-provided production and SCADA data, including all historical installs and pulls, which the customer can access in the SK WellPages application.

SK artificial intelligence (AI) and machine learning (ML) data science techniques deliver predictive analytics within a collaborative environment, enabling smarter, faster, and better decision-making.

Result

SK™ empowers quicker, better-informed decisions to enhance run-life and reduce total cost of ownership. It also powers the Intelevate platform, which offers customer-tailored remote surveillance to monitor and operate wells to improve production and extend equipment run life. With a team composed of application, optimization, and solution engineers, the operator receives technical expertise through all ESP-related production phases.

One operator with hundreds of ESPs in a North Dakota field engaged the Intelevate™ team to provide 24/7/365 real-time monitoring, engineering technical evaluations, streamlined communication channels with field operations, monthly KPI tracking, and reliability engineering analysis. Over two years, the Intelevate team, powered by SK, helped the operator reduce premature failures by 30% and increase the annual average ESP run life by 51%. The completely digitalized ESP ecosystem and collaborative environment SK provided for the operator and Summit ESP® were critical to the project's success.



Runlife improvement achieved over two years with the Intelevate™ digital platform powered by the SK digital ecosystem

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