

# Increase Uptime and Decrease Service Visits with Monitoring, Remote Interventions, and Expertise

## HYDRO-HELICAL® GAS SEPARATOR AND SANDRIGHT® SOLIDS FALL-BACK PREVENTER FURTHER OPTIMIZE UPTIME AND PRODUCTION

OKLAHOMA

### CHALLENGE

Operators require assistance to ensure proper ESP equipment selection and optimization to maximize run life while sustaining stable production and adequate energy consumption

### SOLUTION

The Intelevate platform team monitored, modeled, and analyzed the customer's data and made several recommendations, including optimal VSD operating modes and bi-weekly KPI meetings, as well as installing our Hydro-Helical Gas Separator and SandRight Solids Fallback preventer

### RESULT

- » Increased uptime from four hours to as much as two days
- » Reduced miles driven by field personnel 500 miles
- » Reduced costs for onsite troubleshooting by up to \$50,000 / year

### OVERVIEW

Operators producing wells with electric submersible pumps (ESP) face the challenge of choosing and iterating on designs for optimal production. Some rely on field technicians with specific ESP experience, which can add expense. These technicians may not have in-depth knowledge about all aspects of each vendor's ESP equipment and optimization methods.

**INCREASED**  
Uptime from  
**24 hrs to**  
**2 days**

### CHALLENGE

A customer with operations in Oklahoma faced issues with recurrent ESP shutdowns, as often as every four hours, due to gas-liquid ratios (GLR) up to 750 scf/stb. Because the customer's field operators did not have practical experience managing and optimizing ESP equipment using variable speed drives (VSDs) or regularly evaluate installed equipment, they could not fully optimize ESP performance and run life. The issue was exacerbated due to increased preventable shutdowns and decreased oil production. Finally, there was no regular integration of improvement opportunities once failed ESP equipment was analyzed.

**DECREASED**  
rig visit costs  
**\$50,000** year



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**SOLUTION**

The Intelevate platform was deployed to provide cloud-based, remote well-monitoring and optimization solutions, eliminating the need for in-person wellsite visits. Our team analyzed and modeled the customer's data and recommended the following actions: audit VSD set points, set optimal VSD operating modes, flush jobs and surface valve adjustments, dead-head and tubing integrity tests, power consumption optimization, and bi-weekly meetings to achieve target key performance indicators (KPIs).

The team also recommended equipment upgrades to address production issues:

- The Hydro-Helical Gas Separator to tackle gas interference
- The SandRight Solids Fallback preventer to prevent solids buildup in the pump stages and intake ports

**RESULT**

Since using the Intelevate platform's 24/7/365 remote monitoring service, the customer has experienced more consistent production, reduced downtime, and reduced onsite troubleshooting costs. The customer has been satisfied with the value delivered by the Intelevate platform and is planning to increase the number of active wells being monitored.

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