

# Intelevate™ Team Improves Uptime with Remote GasLock Mode Implementation

UNCONVENTIONAL WELL STABILIZED WITHOUT FIELD TECHNICIAN INTERVENTION

NORTH AMERICA

## OVERVIEW

In unconventional wells, the fluid profile constantly changes as the pump intake pressure (PIP) decreases. As a result, the system must deal with more free gas coming out of the solution, passing through the intake, and causing more load fluctuations on the electric submersible pump (ESP) system.

## CHALLENGE

The changing load from current fluctuations is not ideal for the ESP and can negatively impact system stability, reliability, and run life because of increased motor temperature and shutdowns. With the rapid production decline in unconventional wells, which are often remotely located, management by onsite field technicians is not optimal.

## SOLUTION

The Summit ESP® Intelevate team can monitor wells 24-7, providing immediate visibility to load fluctuations, set alarms, and proactively optimize wells. When high motor temperatures and amperage are detected, GasLock mode is remotely implemented, and a new motor temperature kill set point is established.

## RESULT

With the Intelevate team remotely monitoring the ESP system, the team can rapidly respond to load fluctuations, gas slugs and prevent or reduce high motor temperature shutdowns. In addition to extending system run life and maintaining production, the number of miles driven by field technicians is significantly reduced while safety increases.

## CHALLENGE

- System instability
- Gas instability
- Motor cooling issues
- Flow line issues
- Excessive amps fluctuation

## SOLUTION

- Best practices for tubing and casing pressure
- Remote monitoring and adjustment:
  - Stabilize amperage fluctuations
  - Enable gas lock mode
  - Reduce high motor temperature shutdowns

## RESULT

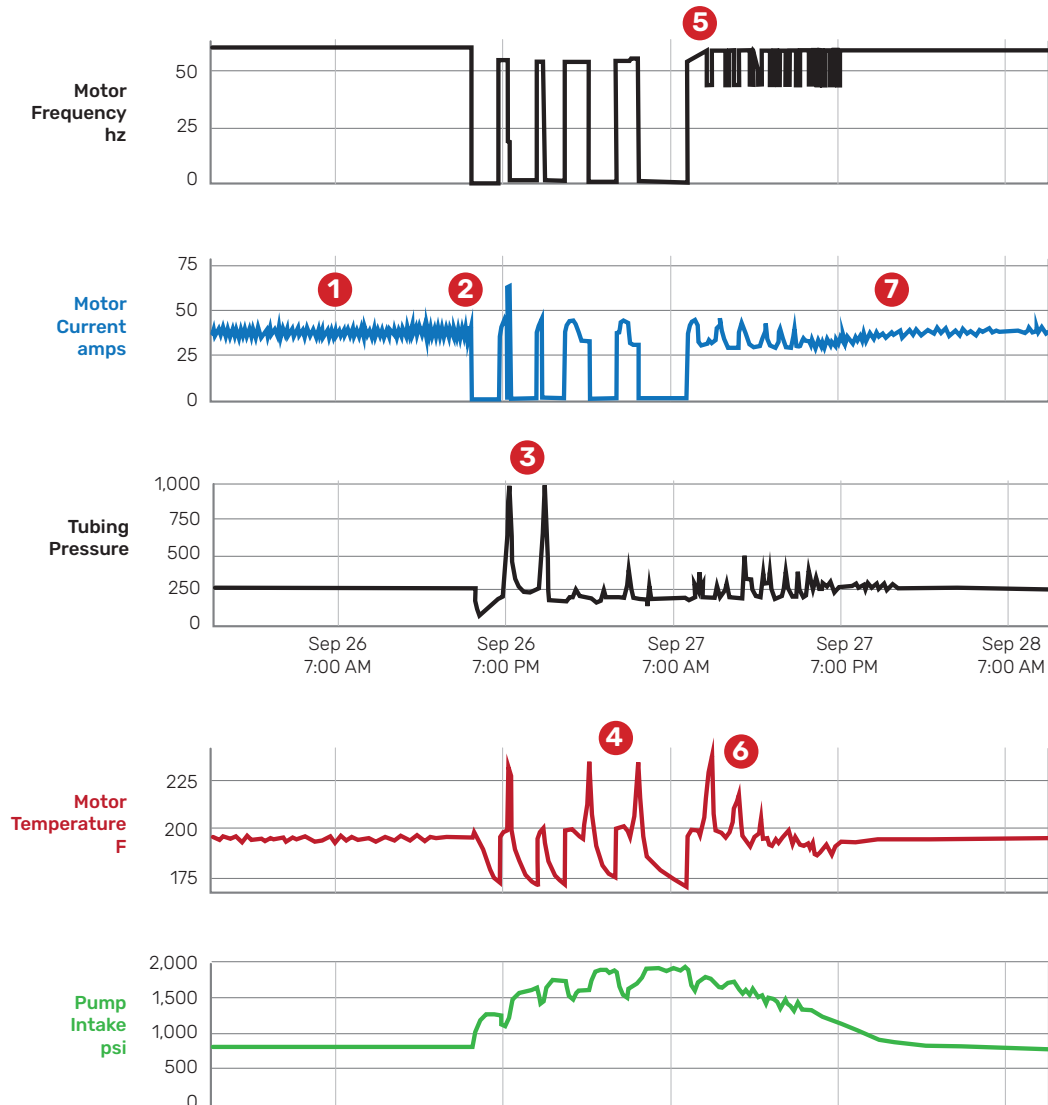
- Increased system stability
- Increased drawdown
- Improved ESP system reliability and extended run life
- Reduces field technician interventions and miles driven, increasing safety



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## INTELEVATE™ MONITORING RESPONSE



1. System stability prior to surface facility shutdowns
2. Initial flowline shutdown
3. Increase of tubing pressure resulting in two digital input shutdowns
4. High motor temperature shutdowns resulting from gas slugs
5. Implementation of GasLock Mode
6. New motor temperature kill setpoint
7. System stability

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