"True Production Optimization" optimizes well performance automatically, enabling accelerated speed and accuracy of decisions, reduce risk and release millions of dollars of untapped potential

TRUE PRODUCTION OPTIMIZATION

- The technology exists to manage 100s of wells automatically using management by exception and high level dashboards

- Diagnosis engines exist to analyze every well test, optimize AL production and identify sub performing wells

- Spotlight which wells can give you more production

- Enable engineers to manage more wells in less time

- If the correct data is collected in a synchronous manner, the tools exist to perform production optimization using analytic tools

> "The work to perform true ESP optimization is mundane and tedious; if not automated it does not get done."
>
> **Matt Hackworth, Chief Operations Technology, OXY**
> *181219-MS SPE Conference Paper - Real-time Decision Making for ESP Management and Optimization*
>
> **Are your wells optimized automatically?**

REDUCING RISK, LOWERING OPEX AND INCREASING OPERATING CASH FLOW

CHALLENGES

- Hundreds of ESPs and gas lift wells without a common platform for monitoring, analysis and optimization

- ESPs and gas lift not reaching their technical limit of performance

- Engineers spending too much time hunting data and creating manual reports

- Limited KPIs and lack of continuous learning

ECONOMIC IMPACT

- Millions of dollars in untapped value because there is no consistent, robust method to minimize downtime and drive higher produced volumes—volumes may be 2% to 20% lower than possible with 5% to 25% higher OPEX than needed

ARTIFICIAL LIFT, MACHINE LEARNING AND ANALYTICS – ARE WE FOR REAL?

"Analytic advantages could help oil and gas companies improve production by 6% to 8%."

Companies with better analytics capabilities are:

- twice as likely to be in the top quartile of financial performance in their industry,

- five times more likely to make decisions faster than their peers and

- three times more likely to execute decisions as planned.

Bain and company: Big data analytics in oil and gas www.bain.com/insights/big-data-analytics-in-oil-and-gas/

ALP'S INDUSTRY LEADING PUMP CHECKER™ SOFTWARE PROVIDES IMPARTIAL, EXPERT, AUTOMATED ARTIFICIAL LIFT OPTIMIZATION FOR ESP AND GAS LIFT WELLS

- Dashboards, Trends (real-time monitoring), Diagnostics, and Analytics workflows to meet operator needs

ESP MODULE

- Automatically identifies ESP issues in near-real time

- Consolidates all ESP data – regardless of manufacturer

- Ranks optimization opportunities

- Tracks and flags failures and highlights corrective actions

- Saves engineer time – so more wells can be optimized

GAS LIFT MODULE

- Instantly identifies underperforming gas lift wells

- Diagnoses injection points

- Spotlights which wells can give you more production

- Tracks and validates well inflow performance relationship

- Manages 100s of wells automatically

ALP software recommended a workover… $36,600 per day additional production

The operator thought it was just a bad well, ALP were able to categorically identify an ESP problem and recommend a workover. Additional production was more than $1.224 million in the first 34 days.

Do you have wells like these?