UPTAKE® Case Study

Energy producer combines data with AI/ML to optimize gas lift well production.

Uptake Fusion helped an energy producer source and centralize its operational technology (OT) data. By applying predictive analytics, the company increased production and decreased risk with lift gas injection.

BACKGROUND

An energy producer based in Alberta specializes in low supply energy. Its business model focuses on responsible development and strong returns from the Kakwa River Project, a multi-decade development. The company employs long-reach horizontal drilling to produce low supply cost resources of natural gas, condensate, and natural gas liquids.

CHALLENGES

Before Uptake, the company lacked a way to measure and quantify how optimized their lift gas systems and designs were. They feared this gap was leading to missed production opportunities. Optimizing production would mean leveraging technological advances in artificial intelligence (AI) and machine learning (ML).

For technology to serve as the solution, the company would have to overcome its internal challenge with data availability. The existing data historian prevented easy access and sharing of operational data with stakeholders across the enterprise.

SOLUTIONS

Uptake Fusion supplements the company's on-premise data historian with a cloud-based system. That solves the data challenge, giving access to not only operational data, but also business data and lift gas analytics. With data on 1,400 assets accessible in the cloud, stakeholders can measure and quantify the status of lift gas critical for optimization. Uptake Fusion enables the company to access more data, faster, and more efficiently than before, energizing new metrics with business impact.

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APPLICATIONS

The energy producer found the answer to its data challenge in Uptake Fusion, a cloud-based solution for unified data management that integrated with their ClearSCADA system. Once set up, data extracted from the company's on-premise operational systems is elevated to the cloud.

Data accessibility makes it possible to develop a business case using analytical models to quantify optimization benefits per lift gas system. The business case leads to developing AI/ML models to quantify optimization benefits and identify meter calibration issues. Refined models lead to more accurate results.

BENEFITS

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The success with Uptake Fusion demonstrated the potential to highly optimize well stimulation. We're able to mitigate over or under injection of lift gas, resulting in significant economic benefits. The combination of data, Oil and Gas AI/ML, and the Uptake team's expertise delivered high value from day one. I look forward to partnering with Uptake on future opportunities.

Information Systems Manager
Energy Producer

With Uptake Fusion, the company now has a centralized data source with enterprise access. It enables the team to view the same data at the same time, regardless of location. Data subjected to AI/ML models yields benefits that include:

· Increased production through optimal lift gas use

· Reduced over-injection or under-injection instances

· Estimated bottom hole pressure

You have the data to make critical decisions at scale. Let us help you use your data to advance your digital transformation and sustainability initiatives.

→ Find out more at uptakefusion.com

→ Contact fusion@uptake.com or 780.862.9699

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