



Case study

Integrated operations deliver asset optimization and significant savings

Customer profile

- Western & Central Canada
- 45-plus production and operations engineers
- 150-plus field operators to monitor
- 4,000 wells in 15 fields

More and more often, production teams are managing larger well populations built through acquisition and consolidation. These larger and more diverse assets are not corresponding with larger production engineering and optimization teams. In fact, many organizations have aggressive goals to streamline optimization efforts and integrate previously siloed tools and teams.

One North American oil and gas company recently addressed these issues and found a path to integrated operations for well optimization with direct operational improvements after launching an Integrated Operations Center (IOC) to support 45-plus production and operations engineers and 150-plus field operators to monitor 4,000 wells in 15 fields across Western and Central Canada with the **Leucipa™ automated field production software solution**.

The results?

In just six months, the company saw:

- Incremental net recovery of over 14% over base volumes
- Base decline was arrested by ~6%
- Annualized incremental margin improvement of over \$6MM net

This Case Study highlights how the Leucipa solution enabled this customer to quickly achieve real results across 15-fields and the value the solution is delivering today for Baker Hughes customers.

\$6 MM

net annualized incremental margin improvement

14%

incremental net recovery of over base volumes

6%

arrested base decline

The operator was well equipped with an up-to-date digital profile. The technology stack used to manage this integrated operation was extensive, consisting of over a dozen effective and targeted digital solutions ranging from SCADA systems and historians to equipment optimization and data integration solutions. But even with a robust toolbox of digital solutions, the team was unable to execute the highest value add jobs and was consistently in firefighting mode.

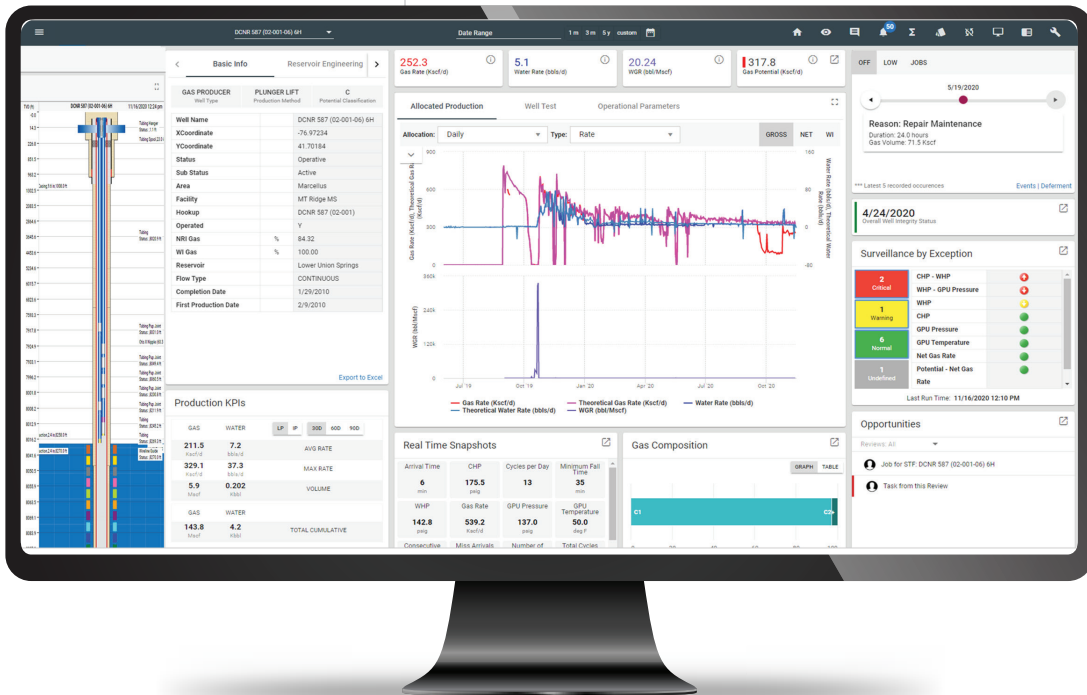
To address these challenges, the customer set out to find and implement an automated workflow application specific to production operations that could take their team beyond integrated information and enable automated production optimization and opportunity management. After a year of vetting options, they selected the Leucipa solution.

Fast to implement, easy to integrate.

After 90 days, the Leucipa solution was live and connected to eight key systems using **Amazon Web Services**, allowing IOC personnel to leverage existing data to understand their business in ways that were previously impractical or impossible.

Within weeks, previously undiagnosed data quality issues were fixed, and the teams began collaborating more naturally because there was shared visibility across systems. The team returned to a practice of multi-competence well reviews bringing diverse stakeholders together.

The positive result of this of Leucipa deployment was best illustrated by the improvement in Job Execution—which improved by over 500% within 6 months. A combination of automated workflows including the Well Opportunity Management System helped the IOC team drastically improve their execution of jobs.



Baker Hughes