

# 2,500 Wells in Second-Largest Coal Bed Methane in the World Automated Using Turnkey FloBoss™ 103 Solution

## RESULTS

- Monitoring and Control of over 2,500 remote wells in the Appalachian Basin
- Turnkey solutions including flow computer, battery, power systems, and communications – installed and commissioned
- Solution delivers production optimization, minimized field manpower requirements, and enhanced safety and environmental responsiveness



## APPLICATION

Monitoring, control, and deliquidification of coal bed methane field

## CUSTOMER

Multiple oil and gas companies, comprising 25% of total basin production

## CHALLENGE

Coal bed methane comprises a significant source of natural gas production within the United States, and presents unique challenges. To extract the methane gas resident in subsurface coal seams requires a large number of wells, typically spread out over a significantly large geography – in the case of this work, over 4,000 square miles. Additionally many wells require deliquidification either initially or continuously over the life of the well. Given the remote, geographically-dispersed nature of the formation, having a means to safely and reliably produce, monitor, and optimize production is critical.

*More than 2,500 wells are monitored and controlled using FloBoss 103s.*

## SOLUTION

Turnkey solutions have been developed for single wellpad designs. More than 2,500 wells are monitored and controlled using FloBoss 103s. These RTUs provide process and production monitoring, fiscal measurement, production control, deliquidification, and emergency shutdown logic. The low power solar capability, battery backup, and integrated communications provided reliable operation in remote areas. Given the extremely mountainous region and lack of line-of-sight communications, satellite communications were used to maintain connectivity. Autonomous control and optimization improved performance and safety, while enablement of remote monitoring and reduced need for field visits.



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