

Most Productive US Coal Bed Methane Basin Produced Using Emerson RTUs and Flow Computers

RESULTS

- Monitoring and control of over 10,000 remote wells in the San Juan Basin, covering 7,500 square miles
- Includes local well control, deliquidification, gathering, compression, and preliminary processing
- Turnkey solutions include RTU, enclosures, battery, power systems, and communications
- 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 95% of total basin production

CHALLENGE

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

“More than 4,000 RTUs have been deployed to monitor and control over 10,000 wells – providing process and production monitoring, fiscal measurement, production control, and emergency shutdown logic.”

SOLUTION

Turnkey solutions have been developed for single, double, and quadruple wellpad designs. Leveraging these, more than 4,000 RTUs have been deployed to monitor and control over 10,000 wells. These RTUs provide process and production monitoring, fiscal measurement, production control, and emergency shutdown logic. The low power solar capability, battery backup, and integrated communications provided reliable operation in remote areas. Autonomous control and optimization improved performance and safety, while enabling remote monitoring and reducing need for field visits.

Global Headquarters

North America and Latin America

Emerson Automation Solutions
Remote Automation Solutions
6005 Rogerdale Road
Houston, TX, USA 77072
T +1 281 879 2699
F +1 281 988 4445

Europe

Emerson Automation Solutions
Remote Automation Solutions
Unit 1, Waterfront Business Park
Dudley Road, Brierley Hill
Dudley, UK DY5 1LX
T +44 1384 487200
F +44 1384 487258

Middle East and Africa

Emerson Automation Solutions
Remote Automation Solutions
Emerson FZE
PO Box 17033
Jebel Ali Free Zone - South 2
Dubai, UAE
T +971 4 8118100
F +971 4 8865465

Asia Pacific

Emerson Automation Solutions
Remote Automation Solutions
3A International Business Park
#11-10/18, Icon@IBP, Tower B
Singapore 609935
T +65 6777 8211
F +65 6777 0947

www.Emerson.com/RemoteAutomation



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