



Honeywell Users Group 2009

## Return on Imagination

**Barry D. Payne**  
**Advanced Process Control**  
**Strategies Enhance Midstream**  
**Performance**

**Honeywell**

### **ABSTRACT** by Barry Payne

With operating staff reductions and volatile product prices, efficient and reliable midstream gas processing operations have become even more of a challenge. Many midstream facilities are located in remote areas as standalone facilities or small complexes, which can benefit from enhanced automation using modern control systems and advanced process control strategies. This paper discusses how modern DCS systems employing advanced process control strategies can improve midstream gas processing efficiency and on-stream performance, even during unattended operation. Topics covered will include control system architectures and enhanced/advanced control strategies for gas and liquids gathering, natural gas liquids (NGL) recovery processes, and NGL fractionation for increased processing throughput, higher yields, and improved energy efficiency.

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