Gas lift application
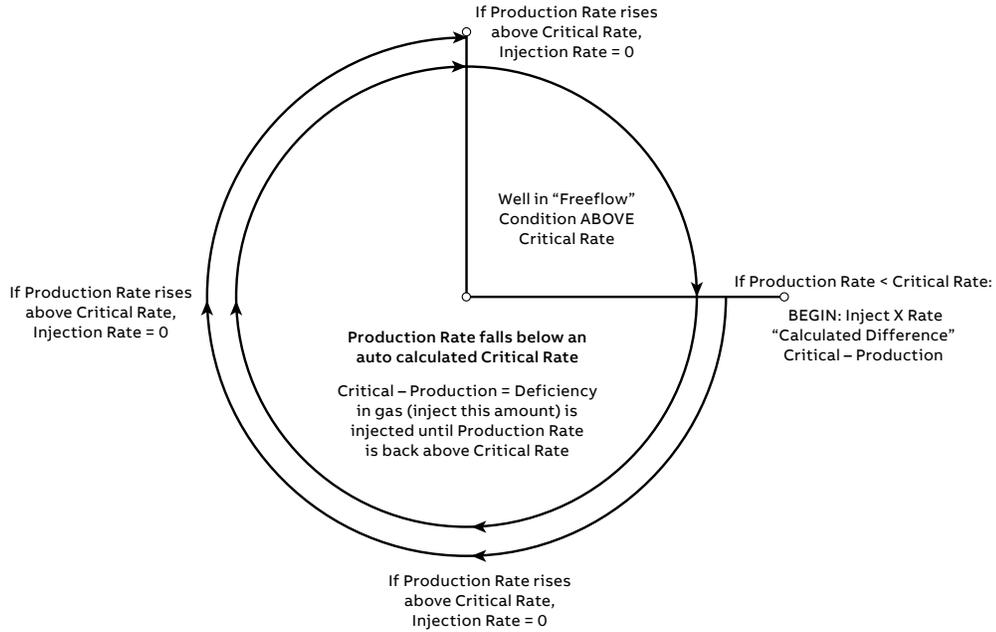## Production optimization solutions

ABB is offering a completely integrated and engineered solution to increase your site's productivity. The Gas Lift Application can be easily integrated and automated with Totalflow flow computers and RTUs. The application is configured to inject gas back into the well bore, which will increase critical velocity and lift liquids to the surface, saving you time and money.

Scan the QR code for more information.
abb.com/upstream

Critical rate based injection

If Production Rate rises above Critical Rate, Injection Rate = 0

Well in "Freeflow" Condition ABOVE Critical Rate

If Production Rate < Critical Rate:
BEGIN: Inject X Rate "Calculated Difference" Critical – Production

Production Rate falls below an auto calculated Critical Rate

Critical – Production = Deficiency in gas (inject this amount) is injected until Production Rate is back above Critical Rate

If Production Rate rises above Critical Rate, Injection Rate = 0
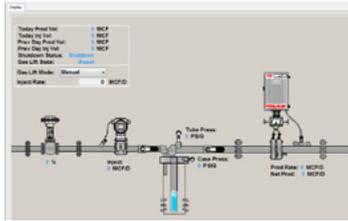
If Production Rate rises above Critical Rate, Injection Rate = 0
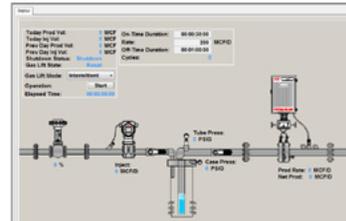
Multiple mode gas lift options

Manual rate control
Simple manual control based on user specified injection rate.
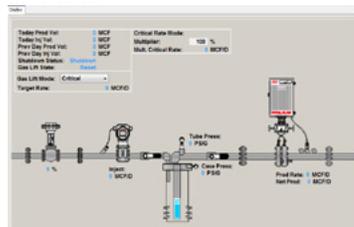

Intermittent injection
Manual control over injection rate, injection period, and off time.

Auto inject based on Critical
Dynamic control based on a critical multiplier (Turner flow rate calculation) to maintain flow above critical rate.

Calc: MCR-ProdRate=Target Rate Inject

Step rate testing
Control injection tests using varying injection rates and injection periods to determine the optimal multiplier to keep flow above critical rate.

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