

AUTOMATION OBJECTIVE

Oil and natural gas wells require the removal of liquids as part of the production process. Liquid removal can be accomplished through the use of an electric motor driven Beam pump, ESP pump, or PCP pump. Expert monitoring and control of the electric motor is a key requirement to insure the safe and extended operation of the pumping system. Equally important, is the need to measure the produced liquid, the natural gas, and the holding tank levels, and the need to control the gas sales valve or execute pressure override control.



AUTOMATION SOLUTION

Totalflow Intelligent Motor Control, **IMC**, is an integration of ABB's Motor Protector and the Totalflow XSeries Flow Computers and Remote Controllers. The combination of these devices provide Start/Stop function, Motor Current Protection, Local/Remote Motor Control, Pump Control Logic, Gas Flow Measurement, Liquid Flow Measurement, Tank Level, Valve Control and Remote Communications. The IMC can be selected as either a Direct Motor Controller or as a Variable Speed Drive Motor Controller.

SOLUTION BENEFITS

- Reduced Design Work: an Integrated Solution for Motor Protection, Motor Control, Gas Flow Measurement, and Liquid Level Control/Measurement in one box from one supplier.

- Costs Savings: less cost when installing one device for Motor Protection and Wellhead Control/Measurement; lower training cost and reduced spares cost when one device provides multi-functions.
- Alarm Monitoring: remote monitoring of motor failure and other parameters.
- Easy Installation: mount IMC; wire-in motor; wire to liquid and gas flow meters.
- Simple Start-up: enter initialization requirements with PCCU software or WinCCU software.
- Extendable: the IMC and XSeries can also provide alarming, data logging, level measurement, remote communications, nomination control, gas flow measurement, liquid level measurement, and electric motor protection while performing **Well Liquid Level Control**.

Totalflow Recommended Equipment

- Qty 1 – Model IMC Intelligent Motor Control
- Qty 1 – PCCU Laptop Communication Software
- Options – Radio for Remote Communications; WinCCU Remote Host Software

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