

Greater efficiency on the well pad

Reduces operating expenses while increasing production



Understanding your challenges and providing the solutions you need

Personnel in oil and gas production face several challenges preventing them from efficiently managing their facilities. Through the use of innovative, reliable technologies such as instrumentation, operators can gain valuable insight to key variables impacting the well pad.

Increased operational efficiency With the current market conditions, operational efficiency has become even more important in your existing well heads. This also showcases a greater need to better understand key variables impacting the health of your reservoir and custody transfer processes.

Know-how in the field Finding the right level of expertise needed to understand timely data can be a real challenge. We know you have a need to keep your processing costs down while maintaining liquids quality and reducing lost production. Not to mention, you are faced with the need to grasp complex data, instrumentation and integration all while managing several providers. You need a trusted, flexible advisor who can provide you with “know-how” in the field and train your operators – all while maintaining a rapid level of development.

Evolving regulatory compliance We understand that safety and ensured compliance is your number one priority. Shutting down production due to an overfilled oil tank could be devastating to your production timeline – not to mention the fines associated with an incident and the cost for clean-up. You need a partner that you can depend on to reduce the risk of an environmental incident.

Endress+Hauser – Your trusted advisor We know oil and gas production has many challenges. By partnering with Endress+Hauser, we can help you to:

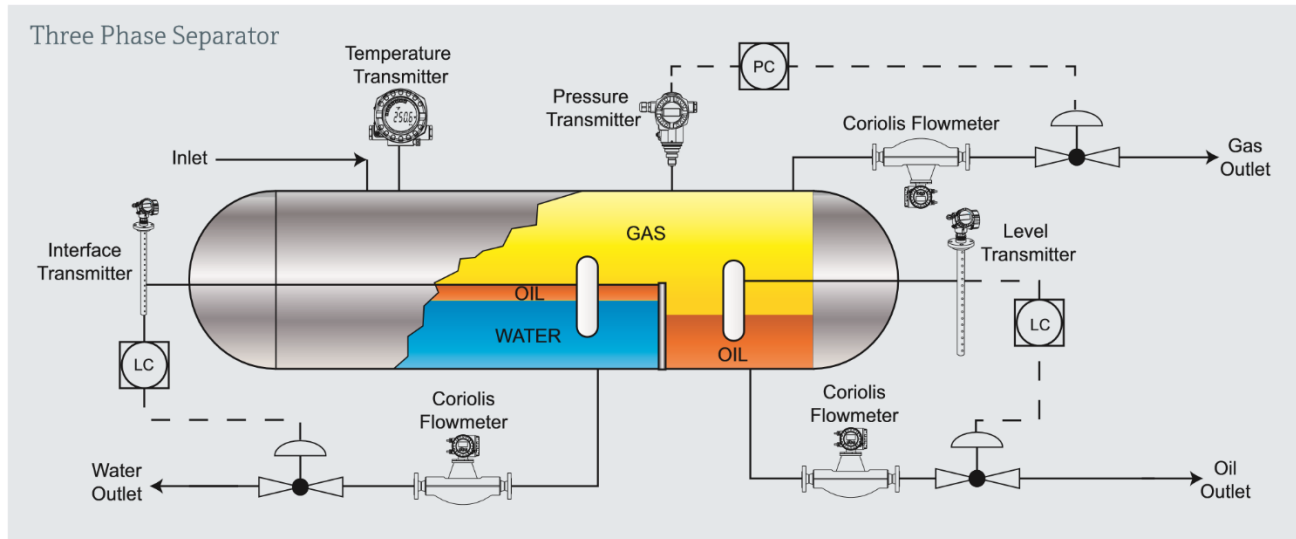
- Reduce operational expenses
- Increase separation efficiency reducing LACT shutdown
- Reduce water remediation costs
- Reduce manpower needed per well pad
- Increase personnel and environmental safety
- Ensure regulatory compliance
- Reduced cost to market

Complete basket supplier Working with an experienced, complete basket supplier allows you to focus on your core competencies. Endress+Hauser’s reliable instruments are designed to meet the rigorous oil field production standards and are able to withstand harsh operating environments.

- Level
- Flow
- Pressure
- Temperature
- Analytical
- Services
- Solutions



Increased efficiency resulting in reduced production costs



Guided wave radar technologies can be used to ensure the correct level of the oil and oil/interface is being monitored reducing the amount of water present in the oil leaving the separator and tanks. Because minimal amounts of water enter the oil tank, dehydration time can be reduced resulting in greater throughput and higher oil production. With less water in the oil tanks, the chance of the water cut probe shutting down the LACT is reduced. Accurate level measurement ensures precise regulation of liquid volumes encouraging proper phase separation and outflow control. This level and interface measurement can even be done in the presence of an emulsion with Endress+Hauser's Levelflex family which can combine capacitance and guided radar into one device simultaneously. Guided wave radar does not have any moving parts and can operate independently of density or flow-rate changes.



Proline® Promass Coriolis Meters



Levelflex FMP55

Instrumentation such as [level](#), [interface](#), [pressure](#), [flow](#) and [temperature](#), provides outputs as well as the smart transmitter diagnostics that will proactively alert the operator of an upset condition in the process or instrumentation.

[Advanced communication and remote monitoring capabilities](#) allow personnel to take a proactive approach through utilizing smart diagnostic information to better schedule visits to the well site. This means the operator spends less time making emergency visits thus reducing truck windshield time – one of the largest safety concerns in the oil patch.

Through the use of a reliable [level switch](#), Endress+Hauser can reduce your risk of an environmental safety incident. Level switches can function to prevent an overflow incident on a tank or separation vessel. In addition, this switch offers the capability of insitu testing decreasing your safety risks. When a spill occurs, this could result in a shutdown of the well. By reducing overfills, you are able to ensure compliance with environmental safety and regulations without interrupting your production. The level switch also reduces maintenance by being resistant to buildup and by being non-mechanical making it more reliable than a float technology.

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