

Kuwait Oil Company Uses Emerson's SCADA and Wireless RTUs to Reduce Downtime and Improve Production

RESULTS

- Reduced manpower for day-to-day site visit by using smart remote monitoring
- No field cables for instruments creates hassle-free safe installation
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APPLICATION

Onshore Production - enhanced oil recovery by electrical submersible pumps (ESP), wellhead RTU, and redundant SCADA

CUSTOMER

Kuwait Oil Company (KOC)

CHALLENGE

KOC had an existing SCADA system that monitored all the wells but they were not providing reliable data or accurate information for the operators to make decisions to optimize production.

During the well makeover for their ESP solution, there was significant risk of potential downtime, which could lead to loss of production that would hurt their revenue. They also needed their manpower to travel to the well location to hook back the wells into production.



“The wireless capabilities in the ControlWave® Micro are simple and flexible. Redundant OpenEnterprise™ SCADA with advance data analysis helps in critical decision making.”

Kuwait Oil Company

SOLUTION

Emerson alleviated Kuwait Oil company of their pains by providing a reliable and proven wellhead solution using the ControlWave Micro, Wireless RTU Interface, and an OpenEnterprise SCADA system. The proposed design of the ControlWave Micro with wireless capabilities gave them the ability to have flexible I/O count that had advanced diagnostics of field instruments.

The ControlWave Micro RTU auto-detects the WirelessHART® devices as they are added to the network. This did not require a site survey anymore – reducing start-up time and minimizing costs on trenching, conduit laying, and cable pulling. The network enabled their wireless field devices to automatically find alternate communication paths, avoiding obstacles so they had more flexibility during setup.

The redundant OpenEnterprise SCADA system at the control room works well with minimum bandwidth consumption over KOC's existing WiMax networks. This was well-designed to analyze the production data and help them make intelligent decisions at remote locations without any need to visit to site. The customer increased their savings by eliminating daily site inspections – and the wireless communication from the station to OpenEnterprise reduced the cable routing cost dramatically.

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