

Case Study

Oil & Gas



"The high reliability, excellent performance and diversified products provided by Red Lion enable us to deliver a reliable solution for oil and gas applications."

- Mr. Yun Wang, Beijing Sixnet Automation Technology

Customer

Xinjiang Zhundong
Petroleum Company

System Integrators

Xinjiang Petrotech Petroleum
Technology Co., Ltd.

Beijing Sixnet Automation
Technology, Co., Ltd.

Location

China

Challenges

- > Handle extreme remote conditions
- > Collect, log and transmit real-time data
- > Remotely start and stop pumping units

Products

Industrial Automation
Sixnet VersaTRAK® IPm2m RTU

Results

- > Deploy rugged remote monitoring solution
- > Proactively monitor and control field activity
- > Improve pump performance and efficiency

Project Scope

The Xinjiang Zhundong Petroleum Company drills for oil and gas in the eastern region of Zhungeer, Xinjiang in China. Located in a desolate area that faces extreme temperatures, rugged equipment is required to manage operations. Bad road conditions make it a difficult location to access making remote monitoring and control capabilities essential for control of the oil wells.

Solution

Working with Xinjiang Petrotech Petroleum Technology and Beijing Sixnet Automation Technology, the petroleum company deployed Sixnet VersaTRAK RTUs from Red Lion Controls as part of its SCADA system. The rugged RTUs collect and log data from each pump in real time and transmit the information to a central management control center for monitoring via the CDMA mobile network. With data logging, trending and alarm functionality, the RTUs enable remote operators to proactively monitor and control oil field activity. Parameters being monitored include pump motor currents, pumping unit loads and more. This solution allows operators to start and stop pumping units as necessary to improve overall efficiency by optimizing performance and preventing hazards.

Benefits

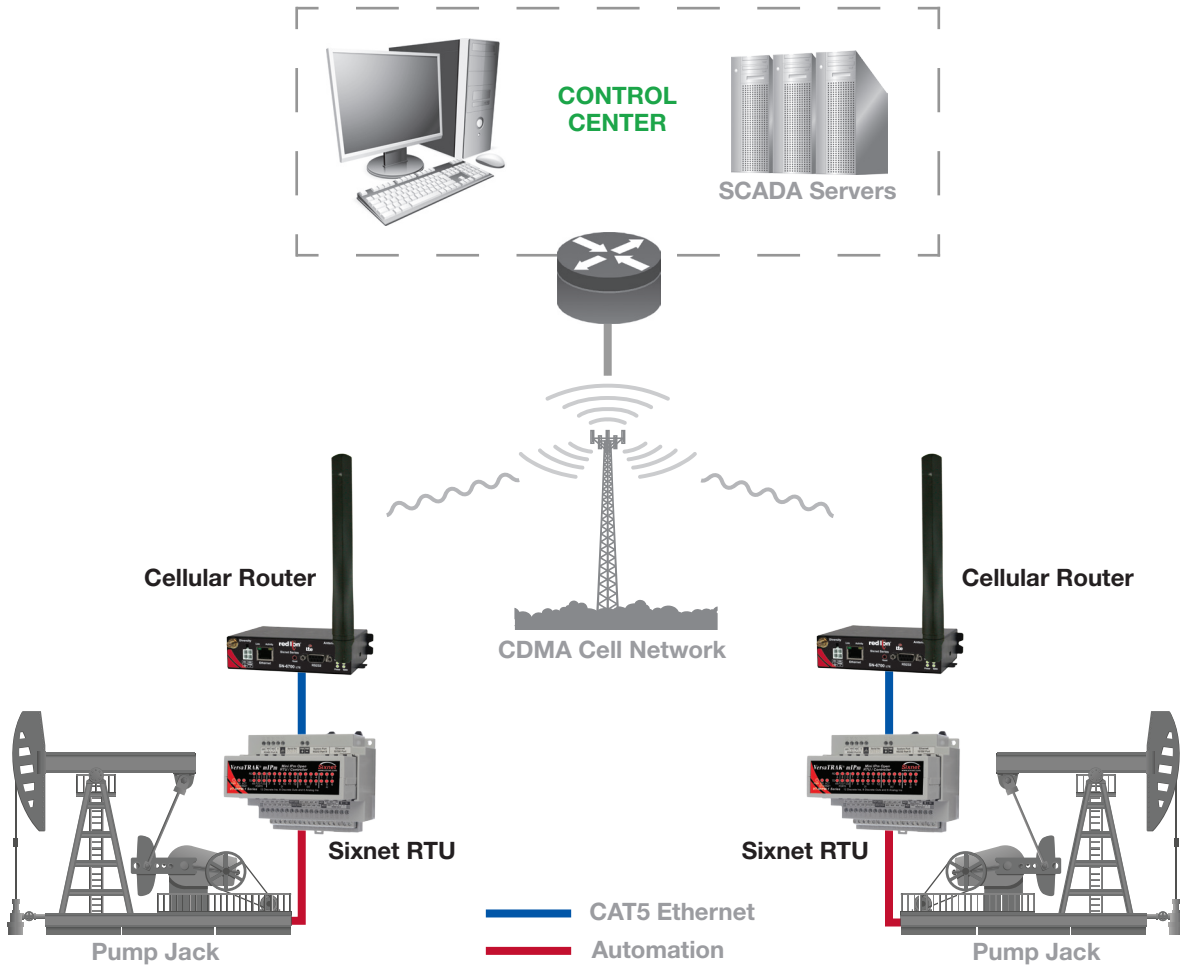
Remote monitoring and control enables the petroleum company to improve pump efficiency, uptime and productivity. With analog acquisition speeds of 25ms/channel and Mean Time Between Failures (MTBF) of more than 450 thousand hours, Red Lion's Sixnet RTUs provide fast, reliable data logging and collection. Operators are able to monitor information and make real-time adjustments to keep systems within ideal operating parameters, while also collecting valuable performance data that can be used for predictive maintenance and advanced analytics. The end result is increased information from the field and more control over operations.

- > Reliably delivers field information in real time
- > Enables more control over operations
- > Drives productivity and improves overall efficiency
- > Optimizes performance and helps to prevent hazards

Products

Model	Description
VT-IPM2M-113-D	Sixnet VersaTRAK IPm2m RTU controller
ET-PS-024-02	AC to DC Power Supply (220 VAC / 24 VDC, 2A)

Network Diagram



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