“With all the technology that we have tried, this is the first time that we have had total access to, and control of, all the data from our field. The cost savings speak for themselves, and this was only a 60-day review related to a small portion of our total asset base.”

Kim Booth
Chief Operations Officer,
Petroflow Energy Corporation

Industry Strategic Challenges
As oil prices hold at a 12-year low\textsuperscript{1} and layoffs continue, oil companies must boost efficiency and cut costs. Technology can help streamline operations, reduce waste, and increase productivity. One of the most promising solutions is capturing equipment data to gain actionable insight that enables proactive operational improvements. But while the use of instrumentation on wellheads and other remote equipment is prevalent, the cost to take full advantage of the data is high.

Most data is forwarded to a central office for analysis because local storage options are scarce. But communication systems in remote locations are slow and often down, putting data at risk. High fidelity data is expensive and low fidelity views make it hard to extract insightful information.

To truly take advantage of remote instrumentation and the data it generates, oil companies need more intelligent systems—systems that allow them to do more with data at the edge and transmit it cost-effectively when necessary.

Gateways are being used with software like Exara Chronicle\textsuperscript{®} Software Suite to store high fidelity data where it’s gathered and transmit it at lower cost to the back office or cloud. This enables companies to go beyond monitoring assets to maximizing them, from reactive repairs to modern, predictive “digital oil fields.”

Business Drivers and Desired Outcomes
• Gain efficiency and optimize production while cutting costs
• Reduce equipment wear and maintenance expenses
• Overcome remote communication challenges
• Enable operators to manage production assets proactively
• Make production data freely yet securely accessible when it can do the most good and enable data analytics at the edge
• Enable operating models to be tailored as site environments change

Digital Transformation and Business Innovation
With advanced software and gateway solutions, oil companies can store several years of extremely high fidelity data, which is “owned” by the well owner/operator, giving them flexible, full access to it. Exara software can filter the stored data at the edge, then package and transfer it over low-bandwidth networks when needed—preserving high fidelity source data, reducing transmission costs and data quality.
Cost reduction scenarios described are intended as examples of how a given Intel-based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction. Intel technologies’ features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer.

Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and/or other countries. *Other names and brands may be claimed as the property of others.

© 2016 Intel Corporation Printed in USA 0516/ADR/MIM/PDF Please Recycle 334180-001US