WireIE Unlocking the Digital Oilfield

Challenges and Opportunities in the Extraction Industries

The storage and usage of data in the extraction industries is growing at an exponential rate. The number of organizations who are likely to hold a petabyte or more of data is predicted to grow from 1,000 to 100,000 over the next ten years. The biggest contributor to this increase is the dramatic rise in importance of real-time data and applications.

Upstream organizations are now collecting and utilizing field extraction and production data in significant amounts. They are using real-time instrumentation and control systems and are sharing production data in order to optimize the performance of entire fields.

In addition, more and more organizations are utilizing private cloud infrastructures to enhance data sharing and collaboration. While virtualized head office applications are already providing benefits, there are challenges when it comes to virtualizing the upstream environment. In particular, the substantial benefits of virtualizing Geology and Geophysics applications are extremely difficult to realize, as they require high-end graphics rendering and production, need to operate in real-time, and utilize complex data from remote locations.

Key, high-impact application areas for all extraction industries are:

• Real-time data acquisition and management

• Reservoir management

• Well modeling

• 4D Seismic

• Smart wells

• Wireless remote operations

• Remote surveillance and security

• Remote communication and collaboration through voice and video

In all cases, the remote nature of extraction operations means that available network capacity is a substantial impediment to utilizing these applications to drive long-term production benefits.

WireIE turns the promise of the Digital Oilfield into a Reality

WireIE specializes in funding, building and running the next-generation network infrastructures needed to support key real-time commercial applications for businesses operating in remote and challenging geographies.

For resources and extraction businesses this means that, for the first time, essential data and applications can be confidently deployed and utilized, supported by an infrastructure that operates with speed, security and consistency, and underwritten by a contractually assured level of service. The whole enterprise – from head office through extraction sites and remote field locations – can realize the promise of digital oilfield and extraction technologies to drive optimum productivity, efficiency and safety.

Our Network Extension solutions allow upstream organizations to run critical, hard-to-reach remote operations like they were across the hall, not across the continent. Our capabilities are certified to federal standards across voice, video and rich, real-time data applications, and are backed up with aggressive service level agreements for network performance and security. Tier 1 communications carriers, major utilities and government organizations across the Americas rely on WireIE for their remote and rural network requirements.

No other company does more than WireIE to ensure access to your strategically critical data, wherever your operations may be.

Let's start the conversation. Contact us today for more information.

WireIE Head Office
35 Leek Crescent, Floor 2
Richmond Hill, Ontario
Canada L4B 4C2

Tel: +1 905 882 4660
Fax: +1 905 882 0223

info@wireie.com