



ONE SOLUTION PLATFORM FOR YOUR OIL & GAS SENSING APPLICATIONS

LxIQ™ Well Temperature Monitoring

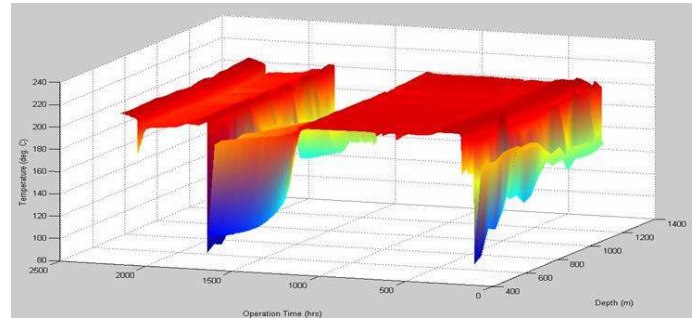
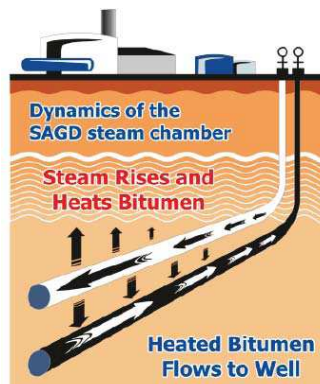
RESERVOIR PERFORMANCE MONITORING

LxDATA is an Oil and Gas technology company providing well monitoring systems and services. LxDATA leverages a unique optical sensing technology to provide reliable well monitoring solutions and high quality data.

At LxDATA, we provide proven and reliable photonic solutions that assist reservoir and production engineering teams acquire critical sub-surface data and provide valuable information to better understand the sub-surface and the associated uncertainty. With dynamic real-time reservoir monitoring information can be extracted and can be used as critical input into reservoir exploration and management decisions.

OTC-OPTICAL THERMOCOUPLE Real Time, High Temperature, Multipoint Sensing System

- High density multi-point temperature cable
- Real time ultra fast/high speed response allowing quick response to steam breakthroughs
- Harsh Environment Cabling designed for survival of preconditioning period
- High Temperature/ Long Life Cable Operation
- Advanced "Hydrogen Management"



OTC-OPTICAL THERMOCOUPLE real time, high temperature, multipoint sensing system;

- For improved reservoir production efficiencies.
- Lowers operational costs and improves recovery in SAGD steam management and in-situ thermal process.
- Can be configured for permanent installations during conditioning and completion periods.

The OTC-OPTICAL THERMOCOUPLE series of multipoint temperature cable is designed to provide continuous temperature measurements at definable points along its length. To guarantee long term accurate operation in extreme temperatures and in harsh environments the OTC-OPTICAL THERMOCOUPLE applies advanced technologies in optical sensor production, fiber processing and rugged cable construction.

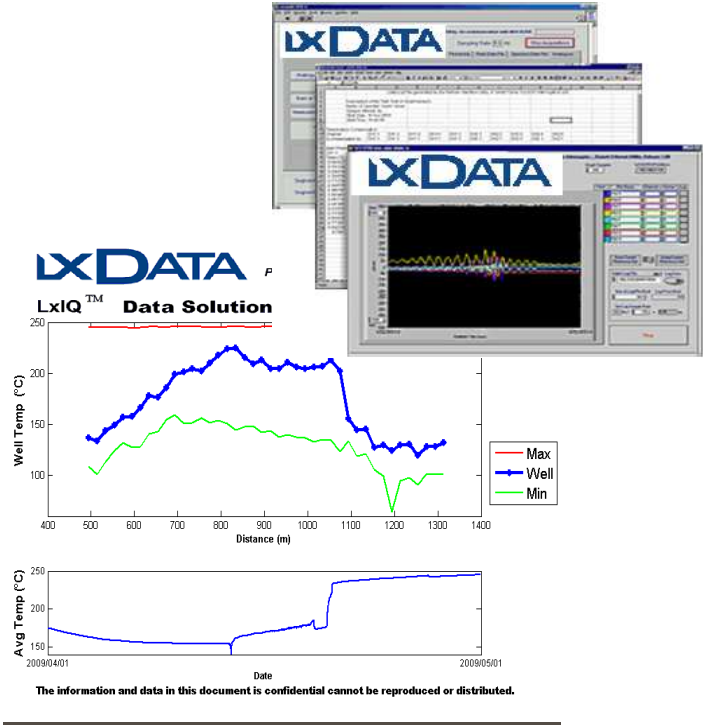


The optical sensors developed for the OTC-OPTICAL THERMOCOUPLE-T are immune to the hydrogen darkening effects found in the harsh SAGD environments thereby providing accurate long-term measurements. By applying advanced coating technologies to the LxDATA optical sensor embedding process, the OTC-OPTICAL THERMOCOUPLE-T Multipoint Temperature cable is secured against the effects of hydrogen which has been known to cause signal loss, erroneous measurements and all out system failure. The OTC-OPTICAL THERMOCOUPLE-T multipoint temperature cable is packaged using special resistant material to further protect it from harsh elements.

The system is always automatically calibrated thus eliminating the need for remedial maintenance. The embedded optical sensors and processed fiber have been rated to withstand temperatures of up to 300°C for periods of up to 35,000 hours.

LOWER OPERATIONAL COSTS IMPROVED BITUMEN RECOVERY THROUGH ENHANCED CSS AND SAGD STEAM MANAGEMENT AND THERMAL IN-SITU RECOVERY

When used in conjunction with the LxIQ™ optical interrogator and the LxKey™ analytics software the OTC-OPTICAL THERMOCOUPLE provides the ideal solution for permanent and continuous temperature profiling along the entire well; at user-selected locations; and at user-requested time intervals. In SAGD applications the OTC-OPTICAL THERMOCOUPLE multipoint cable can be configured to examine both the injection and the producer wells thus profiling the steam movement to improve steam management utilization and oil recovery. Real time monitoring allows a quick response to a steam breakthrough, minimizing any damage and consequential loss of revenue.



LxIQ™ Interrogator and the LxKey™ Analytics Software

The LxIQ™ is an innovative data acquisition and control system that enables seamless control and transparency of the OTC-OPTICAL THERMOCOUPLE optical sensors and gauges. The LxKey™ functions include powerful interpretive engines to highlight key events of the measured parameters. Specific thresholds and alarms can be programmed for various parameters to indicate when actions are required. The modular and open design of the LxIQ™ system controller is readily interfaced via a ModBus to SCADA based control systems.



**520 McCaffrey St.
St-Laurent, Quebec
Canada H4T 1N1**

**Tel: (514) 599-5714
Fax: (514) 599-5729**