

# Case Study

**OIL EXPLORATION COMPANY – TBOX LT2-530**

**AMBER**  
Technical Solutions

- **Remote Site Monitoring & Control over IP**
- **Easy Integration with SCADA**
- **Rapid Development & Deployment**
- **Slim & Robust RTU controller**
- **Local Web Interface**

## The Company

The company is an independent oil and gas exploration and production company operating in the United Kingdom

## The Requirements

The primary objective was to replace a legacy RTU controller which was being used across a number of Gas & Oil sites in the UK. The Company had selected Ignition (Inductive Automation) for their new SCADA system and was now looking for a reliable and rapid development RTU controller.

Amber had to deliver a solution which would satisfy the following requirements:

- Interface to Inductive Automation Ignition SCADA System (Modbus TCP & FTP)
- Backup and Log Site Data when remote Communication is Lost
- Alarm Notification
- Easy Development & Remote Upgrades
- Interface to Hart Gateway and Gas Alarm System

## The Solution

A Semaphore TBOX LT2-530 RTU was selected for the project, the RTU incorporated 16 Digital I/O, 8 Analogue inputs, 1 x Ethernet, 1 x RS485 & 1 x RS232. The integrated web server on the TBOX was setup to provide local web pages for engineering staff. Data connection to the SCADA system was carried with a secure VPN connection using an external router (ADSL / 3G)

## Conclusion

The project has successfully delivered remote site visibility and data recording both locally on site and remotely through the Ignition SCADA System. The initial order was for 20 TBOX LT2-530, with the success of the project further orders were placed including the TBOX MS series of RTU's.



*Inductive Automation SCADA View*



TBOX LT2 RTU

