



A Rockwell Automation Company

ConocoPhillips Canada Resources Ltd. Brazeau / Nordegg SCADA Project

The Client:

Conoco is a fully integrated global energy company involved in every aspect of the oil and natural gas industry, including exploration, production, transportation, refining, marketing and power.

The Brazeau/Nordegg field, in Central Alberta, produces sour gas and liquids for processing at plants in the area.

The Requirement:

The Brazeau/Nordegg field consists of approximately 55 oil wells, gas wells and pump off controllers. Conoco decided to replace the field flow measurement chart recorders with an electronic flow measurement system. They required the wells to be monitored and controlled from one central facility. The system was to provide status, alarming and interface to the well optimization algorithms used to enhance the recovery of gas.

Benefits

- Increased production
- increased metering accuracy – up to 30% of production from wells on charts can be lost due to over ranging charts.
- increased production due to optimization from plunger lift wells and Pump-off-Controllers.

The Design Solution:

Conoco Canada Resources Ltd. selected Hinz as the system integrator for the SCADA system. Hinz was awarded the contract partly based upon recent successful project completions including the Alliance Pipeline and other Gulf Canada Resources projects. Our extensive SCADA experience was also a critical component.

The project consists of the installation of a new SCADA host, using Honeywell's Plantscape SCADA package and solar powered Bristol Babcock field RTUs, to gather production data from approximately 55 well sites. Production data is then uploaded to their business systems.

The SCADA host was located at the main control room consisting of redundant servers and the interface to the corporate network. The Plantscape OVAS system replaces an existing call out system. Field communications utilize MDS4710A fixed frequency radios.

The SCADA system also communicates to NABLA Pump-off-controllers and an existing compressor station PLC.

The Plantscape Host system communicates to the Bristol RTUs with the OpenBSI communication driver through a Bristol 3330 sub-master.

The project scope also includes tie-ins to existing Bristol Babcock RTUs, Compressor PLCs and the installation &

commissioning of the associated instrumentation.

Hinz implemented the Brazeau/Nordegg SCADA Project in conjunction with Conoco's Rimbey Area SCADA system project. Common design concepts, programming tools and resources and were utilized to fast track both projects to completion. The Rimbey Area SCADA system consisted of approximately 97 wells.

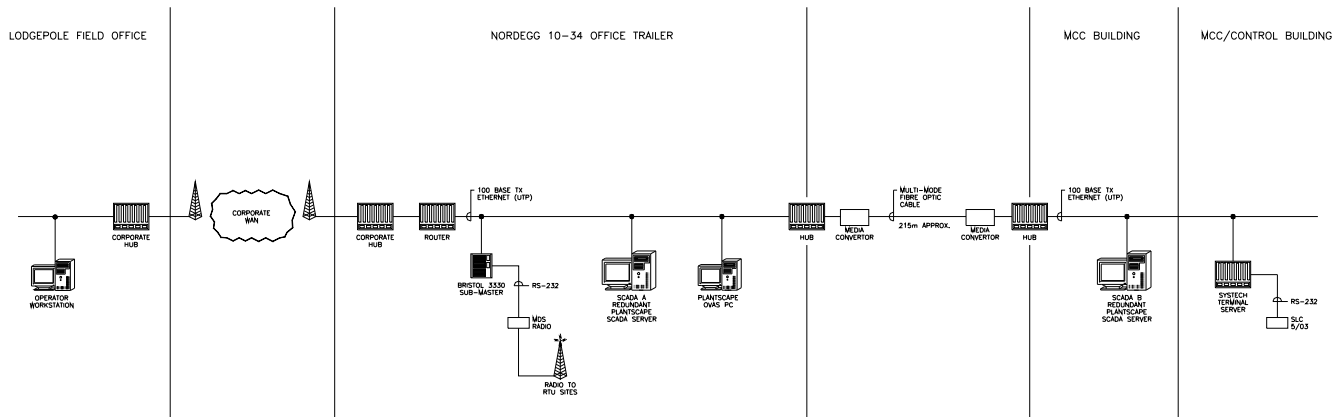
The following outlines Hinz scope of work:

- Project management
- SCADA host configuration
- RTU programming
- Systems staging
- Electrical and instrumentation engineering services
- CAD services
- Electrical and communications contractor management
- Equipment purchasing and procurement
- Contractor invoice cost coding and overall project cost control
- Commissioning and startup of the overall project



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System Specifications:

- Honeywell Plantscape SCADA system
- MDS fixed frequency as the radio system
- 55 Bristol Babcock RTUs
- Interface to Honeywell Plantscape for Plant controllers
- Interface to Pump Off Controllers
- Interface to PLC systems
- Total database tags 10,000

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com