



A Rockwell Automation Company

ConocoPhillips Canada Resources Ltd. Rimbey Area SCADA

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.

Westerose, in central Alberta, has exceeded production forecasts due to better-than-anticipated results from successful wellbore and facility optimization programs. Conoco has achieved the highest oil production levels in ten

years at Westerose North using an innovative 'selective production tool' completion technique that has increased production rates 30 percent from January 1999. At the same time, work-over costs were reduced by 10 to 15 percent. The company achieved record production levels at Westerose South by implementing a wellbore lift optimization in the second quarter of 1999.

The Requirement:

The Rimbey area field consists of approximately 94 oil wells, gas wells and pump off controllers. Conoco decided to replace the field chart recorders with an electronic flow measurement system. They required that the wells 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

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 94 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 interface to the corporate network. The Plantscape OVAS system replaces an existing call out system. Field communications utilizes Freewave spread spectrum radios.

The SCADA system also communicates to a pump off controller case system and an existing Intellution HMI.

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

The project scope also includes tie-ins to existing Bristol

Babcock RTUs, Compressor PLCs and automated well testing facilities.

Hinz implemented the Rimbey area SCADA project in conjunction with Conoco's Brazeau/Nordegg Area SCADA system project. Common design concepts, programming tools and resources and were utilized to fast track both projects to completion. The Brazeau/Nordegg Area SCADA system consisted of approximately 60 wells.

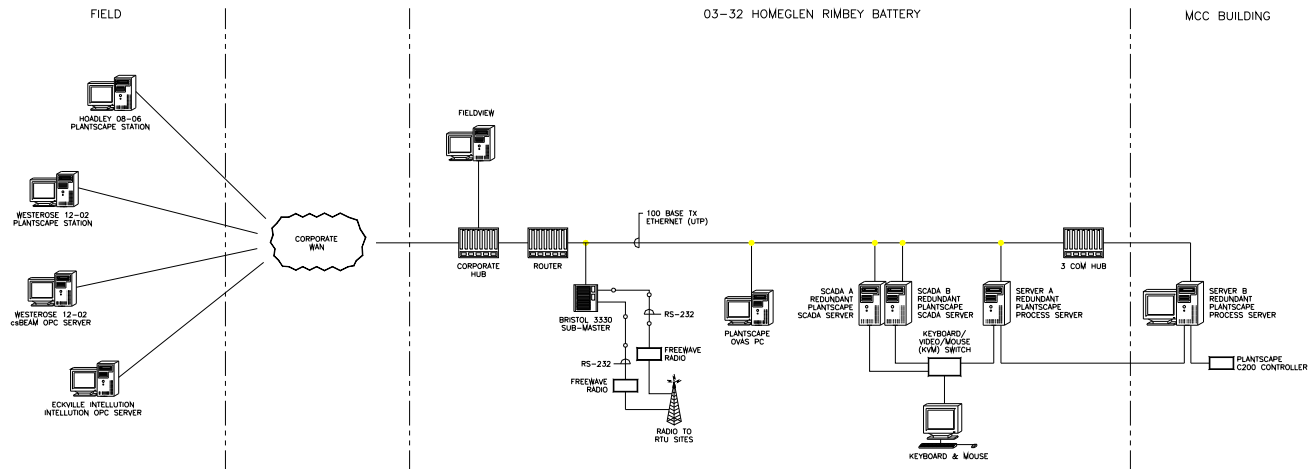
The following outlines Hinz scope of work:

- 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
- Freewave Spread Spectrum as the radio system
- 94 Bristol Babcock RTUs
- Interface to Honeywell Plantscape for Plant controllers
- Interface to Pump Off Controllers
- Interface to Intellution system
- Total database tags 20,000

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

www.hinz.com