



A Rockwell Automation Company

Amoco Canada Petroleum Company Ltd. Kaybob SCADA System

The Client:

Amoco Canada Petroleum Company is a major Canadian Oil and Gas Producer. Amoco Canada processes sour gas and natural gas liquids (NGLs) at its Kaybob Gas Plant. Input to the plant comes from

Tony Creek field Beaverhill Lake Fields (1 and 2), Bigstone/Kaybob NGL pipeline, and a number of smaller fields.

The Requirement:

There are a number of operations remote from the gas plant that require monitoring and control. These include several sour gas production fields, an NGL pipeline, several compressor sites, and several environmental trailers. All of the monitoring and control is required to be done from a single SCADA system.

There are a number of design issues for this system. One is the existing communication system (a mix of

1200 baud analog and 9600 baud digital radios). Amoco did not want to incur additional costs expanding or upgrading this system but still required a minimum response time for polling.

The Design Solution:

Hinz consulted Amoco Canada in the initial specification and procurement of both the Honeywell SCAN3000 host software and the Bristol Babcock RTUs. Hinz also designed and implemented the database and displays, programmed the Bristol RTUs, and installed and commissioned the entire system. Applications and reports, including leak detection on the NGL pipeline, were also designed and implemented by Hinz.

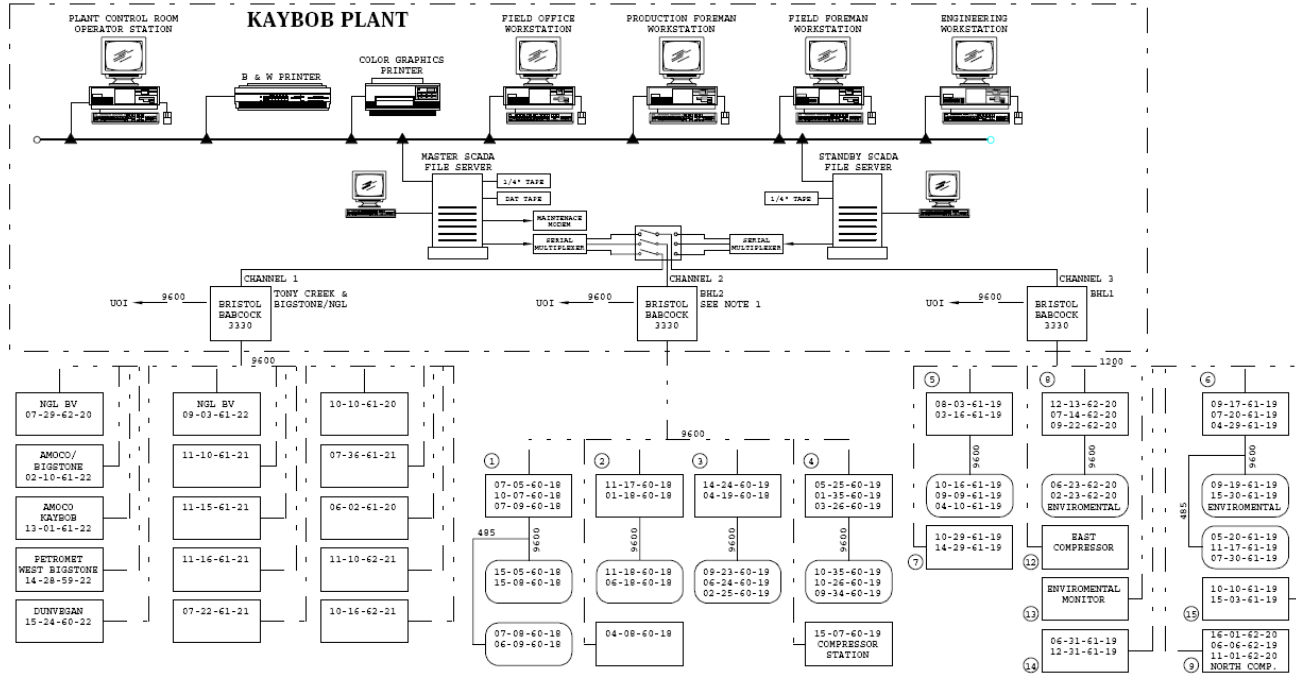
The operators view displays, issue commands, and generate reports on their existing PCs. The operators also have full control over the wells, pipeline, and other facilities; including emergency shutdown.

The Bristol calculates the volume produced by each well (using orifice plates) and performs compensation to AGA-3 and AGA-8. The Bristol also keeps the 35-day daily history and 7-day hourly history of the flow records.



A Rockwell Automation Company

Amoco Canada Petroleum Company Ltd. Kaybob SCADA System



System Specifications:

- Honeywell SCAN3000 SCADA Software
- Hewlett-Packard Pentium File Server
- Redundant Configuration
- SCO UNIX Operating System
- TCP/IP Local Area Network
- Windows 3.1 Operator Stations
- Bristol Babcock 3330 RTU
- Micromotion Mass Flow Meters
- Bristol Babcock 3-in-1 Smart Transmitters
- Bristols Babcock BSAP Protocol
- Total System Database - 10,000 Tags
 - 7,500 Analogs
 - 2,500 Digital
- 350 Custom Displays
- 100 Custom Reports
- 16,000 Stored Alarm Events
- 50 RTUs
- 3 Communication Channels
- Historical Trending
 - 7,500 Points
 - 35 Days On-Line
 - 35 Additional Days Archived on Disk
 - 1 Year Back-up on DAT Tape

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

www.hinz.com