







Wapiti JV Data Transfer Project

Co-Authors:
Tim Bauer, BP Canada
Greg Head, Devon Canada
Heather Quale, Mera Group

June 7, 2005



PI in BP

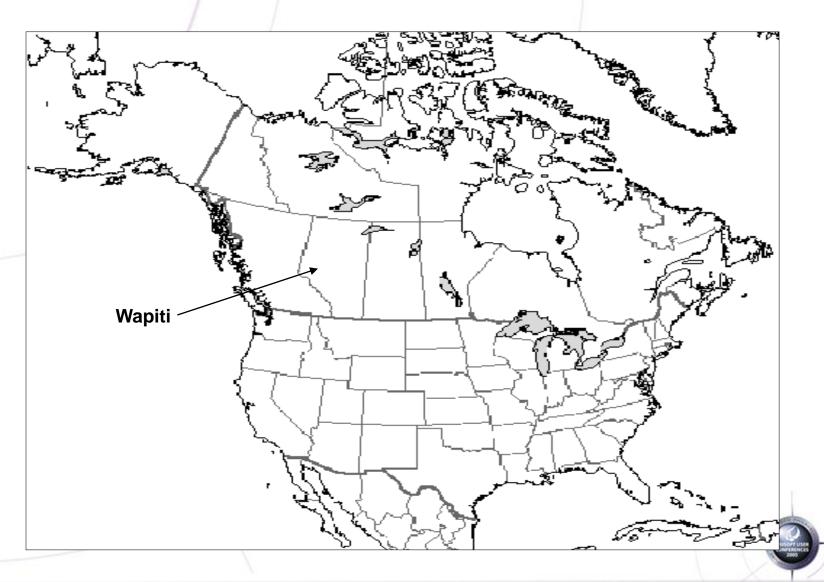


- Historians form the basis for BP's global fieldofthefuture
 initiative
- PI has long been the global defacto standard data historian in BP – upstream and downstream
- Canadian implementation initiated in 2002 to provide all users with near real time data on their desktops
- Why PI:
 - Limits access to control environment to ensure performance & improve security;
 - Reduced bandwidth requirement in challenging communications areas;
 - Provides storage and ready access to long term storage
- Piloted in 2002 West Pembina Sour Facility
- Initiated Wapiti JV Project in late 2003





Where is Wapiti?

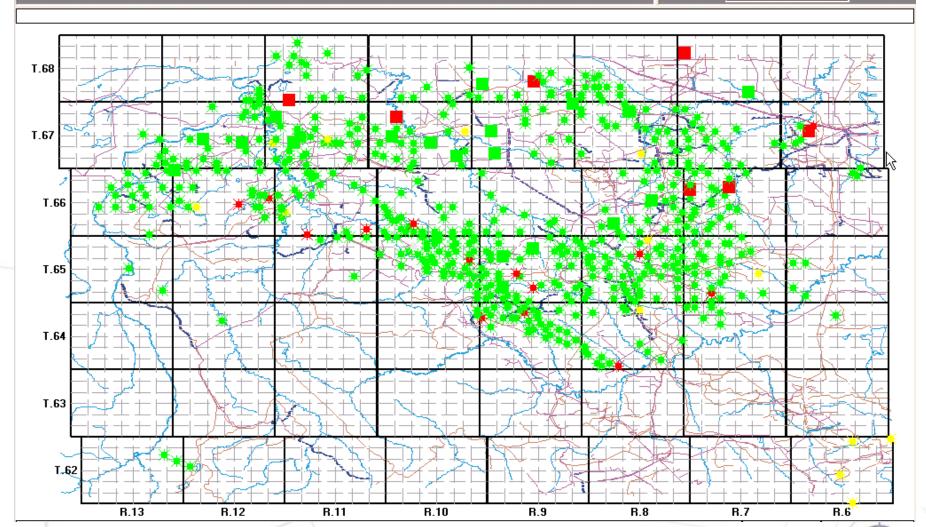


SOUTH WAPITI MAIN MAP

CLOSE

SOUTH WAPITI

6/2/2005 2:12:13 PM





Wapiti JV and PI



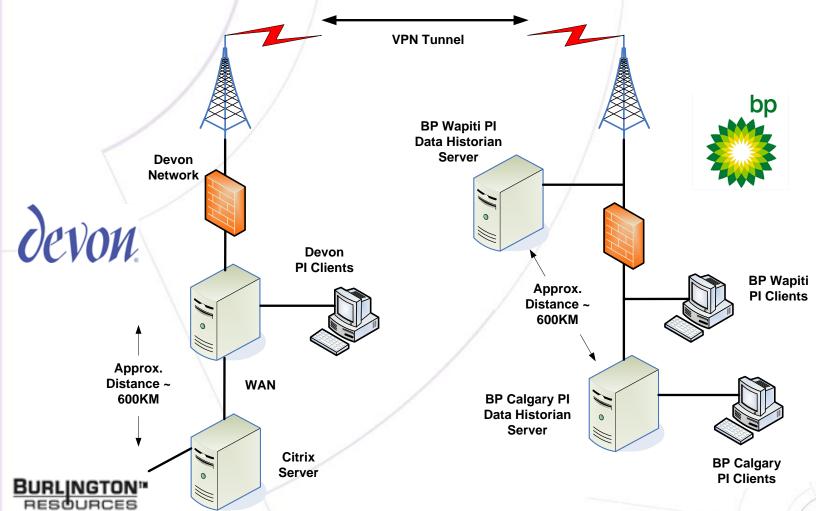
- Wapiti site is a joint venture between Burlington Resources, BP and Devon
- The three parties share a common PI system
- BP and Devon access information from the PI system through various interfaces on a Process Control Network
- Burlington Resources accesses information from the PI system through a Citrix server that is connected to the Devon Wapiti Network



Process Control Network

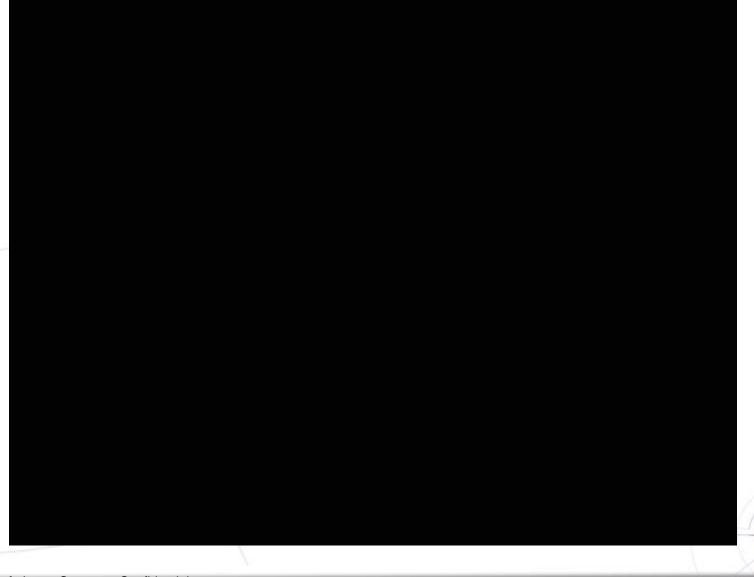








Encouraging System Sharing





PCN Security



- Security on the PCN was achieved by setting up firewalls on both sides of the system in conjunction with each corporations regulations
- An interface trust login was also used to coincide with the networking rules of the two corporations





Control Systems & Data Flow devon





- PI offers access to operational information regardless of the control system used – able to mix and match platforms
 - Devon RTAP
 - BP SCADA Vision
- The joint venture has different data flow arrangements:
 - BP PI to PI
 - Devon PI to other programs

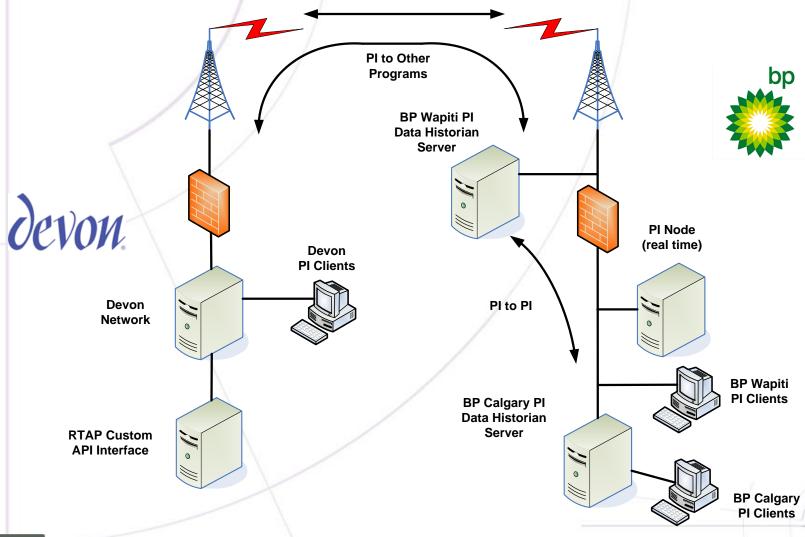




Data Flow



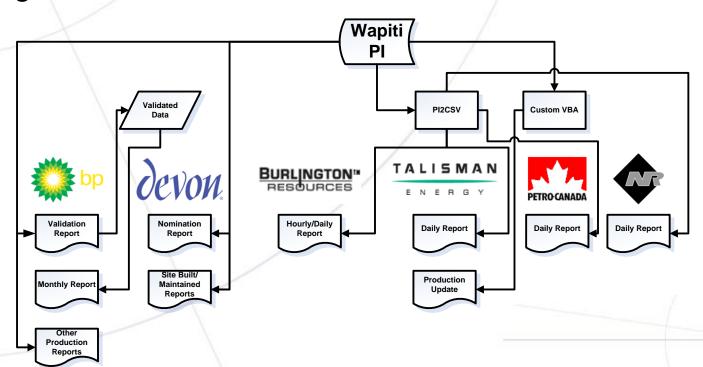




Reporting



- Provided to joint venture and third party companies through PI Client Tools
- Custom PI2CSV hourly report generator was created using a module database and some Visual Basic code







Challenges



- Maintaining a large tag count 40,000 tags
- Setting up the network security in accordance with the regulations of Devon and BP
- Training programs to meet each company's business requirements
- Development of management process to share system administration





Benefits



- PI supports a large volume of data
- PI met each of the company's global security requirements
- One PI system services three companies
- Provides all staff, with electronic access, production and operational data in near real time
- Provides operators with better visibility of their well and well production
- Historical and real time data to allow for more proactive modeling
- Allows for alarming on preset operational conditions to identify potential problems
- PI has great product support



