ProductionManager™ Well Test

Maximize Well Production

ProductionManager™ Well Test allows you to maintain accurate allocation measurement while achieving facility cost reduction goals. This application facilitates scheduled, automated well testing or manual well test operations. Well Test is compliant with the latest API 20.5 well testing guidelines. Well Test generates test reports, which can be approved manually or automatically. Now you can rest easy knowing that potential issues with allocation, scheduling, multiple testers and optimal test results are resolved.

Get More from Your Wells

Well Test leverages previously built ProductionManager™ Equipment Module well and separator train objects for use in well testing, simplifying configuration. When used in conjunction with ProductionManager™ Well Optimization, Well Test can coordinate well optimization as part of the test schedule. Based on feedback of optimization results, Well Test will complete the test cycle or extend the well test to allow further optimization. This process interaction ensures keeping overall testing time to a minimum while maximizing well production.

Features

- **Manual/ Automated Valve Support**
  Well Test can support various valve systems. Manual and automatic valve setups are welcome.
- **Scheduling**
  Schedule your tests when you need them, on one tester or several. The schedules can be modifi ed as needed, and wells can be inserted as required for retesting. Well Test takes care of the rest.
- **24 Hour Equivalent**
  There is no longer a need for concern over valves being switched manually before their designated time. Well Test's 24 hour equivalent provides a daily total of flow volumes.

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- ■ **Comprehensive Reporting Process**
  Receive all of your reports immediately at the end of the test. You can expect accurate results every time. The reports facilitate manual and automatic acceptance.
- ■ **Multiple Tester Support**
  There is no need for multiple PLC systems. You can run multiple testers all at once, automatically. View your results in one, convenient location.
- ■ **Test Results Management**
  Provides the ability to automatically accept test results based on user defined criteria, manually accept test results, or hold test results for completion of retesting the well.
- ■ **Supports the API 20.5 Well Testing Recommended Practice**

User Interface

Well Test is accessed utilizing FBxConnect™ software, a Microsoft® Windows® based program created to configure, monitor and service Emerson's FB3000 RTU and applications. Well Test's graphical user interface allows you to easily facilitate scheduled, automated well testing or manual well testing. Configurations are represented visually within the application. You can easily view data and reports, making changes and adjustments as required.

Connectivity/Requirements

Once connected, you can access all features, including editing objects, setting alerts, reporting, diagnostics and more.

- ■ FBxConnect™ access
- ■ FB3000 RTU
- ■ PMWT licensing
- ■ Local connectivity via USB, serial or Ethernet**

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*If you already have a method to connect to the FB3000 RTU remotely for SCADA access, you can use FBxConnect™ and that same remote link to connect to PMWT and all other apps in the ProductionManager EDGE™ suite. Once connected, you can access all features, including editing objects, selecting auto adjustment parameters, setting alerts, reporting, diagnostics and more.

Configuration

Well Test Overview

This summarizes all well test statuses and provides shortcuts to testers, wells and reports. This overview also gives operational messages and alerts.

Testers Overview

This summarizes wells assigned to a tester, current test status, scheduling and live test data.

Wells Display

This takes the assigned Equipment Module well object and adds the following:

- ■ **Well Test Phase Valve Status**
- ■ **Well Test Phase Timing Information (Stabilization, Optimization, Testing and Post-Purge)**
- ■ **Test Validation Settings.**

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Test Report Logging

A dedicated Log File exists for each well storing up to 256 test results by serial number. A stored test can be retrieved from the file system by serial number.

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Reports

This summarizes four completed well test results into one centralized display. The four reports are:

- **Last Completed Test**

  Last unaccepted completed test results

- **Current Test Values**

  Current accepted completed test results. These results are typically used for allocation measurement purposes

- **Previous Test Values**

  Previous accepted completed test results

- **Held Test Values**

  Unaccepted completed test results being held until the well can be re-tested. Once the well is re-tested, either "Held Test" results or "Last Completed" results can be accepted or rejected.

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How Will Well Test Benefit Your Operation?

If optimizing well production in the field or behind a desk is important to you, Well Test can be of great benefit.

- **Field Operations**
  Ease-of-use and configuration, measurement, current operating status, production optimization
- **Facility Engineers**
  Standardized deployment of equipment and facilities
- **Production/Reservoir Engineers**
  Better reservoir management through captured data and well analytics
- **Management/HSE/Accounting**
  Safety controls, standardization, custody transfer measurement and log retrieval
- **SCADA/IT Administration**
  Standardized data model provides consistent access to optimization, analytics and operational parameters

Support

- Help desk support is available 24/7.
- Training classes are offered year-round.
- Onsite configuration assistance is available upon request via your local Emerson Impact Partner.

ProductionManager EDGE® Suite

The ProductionManager EDGE® suite of applications is designed to provide standardized yet flexible solutions to common processes in the Oil & Gas production field. The suite is designed to assist with managing the lifecycle of the well (from flowback to abandonment), managing well testing for allocation purposes, and complete fluids management from well-to-sell. This comprehensive suite of applications has been enhanced by input from Major and Independent E&P companies alike, and utilized in North America for over 20 years with tremendous success.

ProductionManager™ Equipment Module (PMEQ)

The ProductionManager™ Equipment Module (PMEQ) gives you the ability to define, build, monitor, track and diagnose the equipment installed on your upstream production site. PMEQ allows for operational analysis and diagnostics of onsite equipment.

ProductionManager™ Well Optimization (PMWO)

ProductionManager™ Well Optimization (PMWO) allows you to optimize production based on industry standard methods. This application provides your operation with continuous, real-time optimization of production, as well as surface and downhole analytics. PMWO records optimization statistics needed to identify key trends, allowing you to better manage your decline curves.

ProductionManager™ Well Test (PMWT)

ProductionManager™ Well Test (PMWT) allows you to maintain accurate allocation measurement while achieving facility cost reduction goals. Now you can rest easy knowing that potential issues with allocation, scheduling, multiple testers and optimal test results are a thing of the past.

ProductionManager™ Surface Controls (PMSC)

ProductionManager™ Surface Controls allows the user to perform control, logic, and mathematical functions using easy to configure pre-designed menus. Surface Controls facilitates configuration of your complete cause and effect narrative, handling temporary or permanent shutdowns, permissives, bypasses, alarming and other utility functions.

Coming Soon

- **ProductionManager EDGE™ Fluid Logistics (PMFL)**
- **ProductionManager EDGE™ Interface (PMEI)**
- **ProductionManager EDGE™ Chemical Manager (PMCM)**