**UNICO**

Overview

The Field Operations Monitor leverages the power of Unico's UEdit® programming suite to provide a cost-effective way for operators to monitor a field of wells powered by Unico artificial-lift drives.

Field Summary

The Field Operations Monitor summarizes important information about the operation of each well. Data is reported in a familiar spreadsheet format, allowing operators to quickly assess an entire field at a glance. Sucker-rod pump (SRP), progressive cavity pump (PCP), and electric submersible pump (ESP) wells can be viewed on the same screen. The data to be displayed can easily be selected from any of the parameters available in the drive.
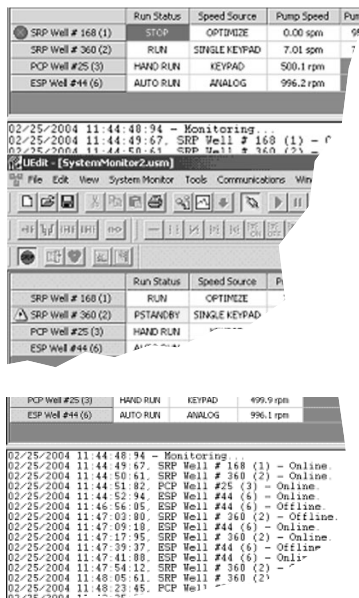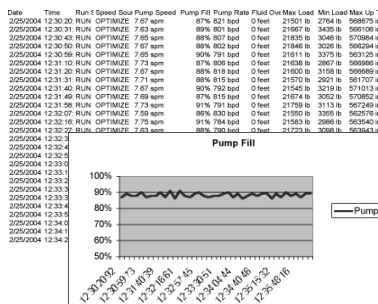

Run Status

The run status parameter provides a quick indication of the status of a well. If the run status cell is uncolored, the well is operational and the current mode of operation is displayed. If the drive is stopped or faulted, the cell turns red and a stop sign is displayed next to the well name. The cell is highlighted in yellow and a caution sign appears when the well is not running and not stopped.

Communication Status

The communication status for each well is displayed below the well data table. The date and time each well goes offline or online is reported.
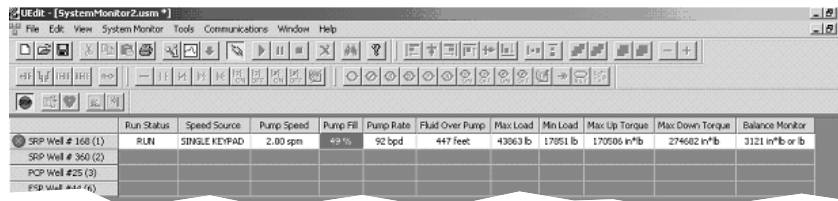
Data Logging

Data can be logged for individual wells or an entire field of wells. Data logging is accomplished by polling wells on a programmable timed basis. Each well can be monitored individually. The data is logged to a text file that can easily be imported into a spreadsheet for charting and analysis.

**Overview**
(continued)

Alarms and Limits

Each cell in the spreadsheet can be set up to indicate an alarm condition or limit-exceeded condition with color coding and symbols.

Communications

Communications is achieved using the Modbus RTU protocol. Data can be retrieved using most common communications networks. The simplest form is direct RS-232 communications from the personal computer to the Unico-powered artificial-lift system. Multiple drives can be networked to the host PC using RS-485 hardwire. If the PC does not have an RS-485 port, a converter for RS-232 or USB to RS485 is available. Wireless operation using RF modems, Bluetooth technology, cellular telephone systems, and satellite are also available.
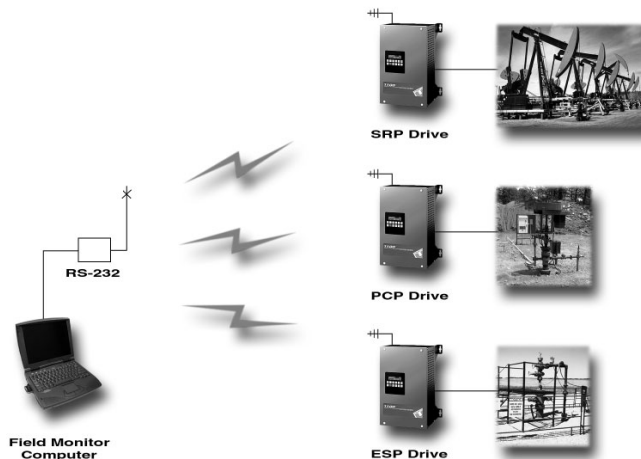
Specifications

Minimum Requirements

- UNICO artificial-lift drive
- UEdit® programming software (804-758 version 240 or higher)
- Windows 98, NT, or 2000 operating system
- 200 MHz Pentium processor
- 32 MB of application RAM
- 10 MB of available hard drive space for standard installation
- CD-ROM drive for installation
- Serial communications port
- Monitor
- Mouse
- Keyboard

UNICO—Worldwide

7/04