

	File Edit View System Monitor Tools Communications Window Help											
Run Status Speed Source Pump Fill				، السلامات	스 ᄈ							
Run Status Speed Source Pump Speed Pump Fill Pump Rate Fluid Over Pump Max Load Max Load Max Load Max Down Torque Balance Monitor   SRP Well # 166 (1) PUN OPTIMIZE 7.89 spm 97 % 912 bpd 0 feet 21819 b 4883 b 561932 n*b 537725 n*b -19090 in*b or b   SRP Well # 560 (2) RUM SINKLE KEYPAD 7.01 spm 77 % 633 bpd 0 feet 1819 b 4883 b 561932 n*b 537725 n*b -19090 in*b or b   DFC Well # 250 (2) HAND RUN KEYPAD 701 spm 0 bpd 0.00 psi 0.11 Rb 100 spm 100 spm 10 spm 100 spm 10	HE GE HE HE HO	<u> </u>	카 카 씨 매	방 장 장 한	5 <u> </u>	000		ON OFF	₫ → 😭	P 12*0 ***		
SRP Well # 168 (1) RUN CPTIMIZE 7.89 spm 97 % 912 bpd O feet 218 lb 4883 b 561932 n*b 537725 n*b -19090 n*b or b   SRP Well # 360 (2) RUN SIMELEVEND 7.01 spm 77 % 912 bpd 0 feet 218 l9 b 4883 b 561932 n*b 537725 n*b -19090 n*b or b   DFD Well # 260 (2) HADA DLN KEYRAD 701 spm 77 % 0 bpd 0.00 pd 0.11 Rb 632946 n*b 120915 n*b or b   ESP Well # 26 (2) HADA DLN KEYRAD 995.3 rpm 0 bpd 0.00 pd 0.11 Rb 632946 n*b 120915 n*b or b   Z/25/2014 11:44 - 48: 94 - Monitoring. - 2/25/2014 11:44 - 59:51, SRP Fell # 368 (1) - Online.   Z/25/2014 11:44 - 59:51, SRP Well # 368 (2) - Online. - - - -												
SRP Well # 360 (2) RUN SINGLE KEYPAD 7.01 spm 77 % 633 bpd 0 feet 18759 lb 3004 lb 397213 m*lb 632948 m*lb 120915 m*b or b   RCP Well # 360 (2) HAND RLN KEYPAD 499.9 rpm 0 bpd 0.00 psi 0.11 ftb 632948 m*lb 120915 m*b or b   SEP Well # 25 (3) HAND RLN KEYPAD 499.9 rpm 0 bpd 0.00 psi 0.11 ftb 632948 m*lb 120915 m*b or b   SEP Well # 25 (3) HAND RLN KEYPAD 499.9 rpm 0 bpd 0.00 psi 0.11 ftb 632948 m*lb 120915 m*b or b   25/2004 11:44 49:94 - Monitoring. - - - - - -   25/2004 11:44 49:51:61 SRP Well # 368 (1) - Online. - - - - -   25/2004 11:44 45:161 SRP Well # 360 (2) - Online. - <td></td> <td>Run Status</td> <td>Speed Source</td> <td>Pump Speed</td> <td>Pump Fill</td> <td>Pump Rate</td> <td>Fluid Over Pump</td> <td>Max Load</td> <td>Min Load</td> <td>Max Up Torque</td> <td>Max Down Torque</td> <td>Balance Monitor</td>		Run Status	Speed Source	Pump Speed	Pump Fill	Pump Rate	Fluid Over Pump	Max Load	Min Load	Max Up Torque	Max Down Torque	Balance Monitor
PCP Well #25 (3) HAND RLN KEYPAD 499.9 rpm 0 bpd 0.00 psi 0.11 Rtb   ESP Well #24 (6) AUTO RLN ANALOG 995.3 rpm 0 bpd 0.00 psi 0.13 Rtb   25/2004 11:44:48:94 - Monitoring - <td>SRP Well # 168 (1)</td> <td>RUN</td> <td>OPTIMIZE</td> <td>7.89 spm</td> <td>97 %</td> <td>912 bpd</td> <td>0 feet</td> <td>21819 lb</td> <td>4883 lb</td> <td>561932 in*lb</td> <td>537725 in*lb</td> <td>-19090 in*lb or lb</td>	SRP Well # 168 (1)	RUN	OPTIMIZE	7.89 spm	97 %	912 bpd	0 feet	21819 lb	4883 lb	561932 in*lb	537725 in*lb	-19090 in*lb or lb
ESP Well #44 (6) AUTO PLIN ANALOG 995.3 rpm O bpd 0.00 psi 0.13 ftb   2/25/2004 11:44 - 48:94 - Monitoring -	SRP Well # 360 (2)	RUN	SINGLE KEYPAD	7.01 spm	77 %	633 bpd	0 feet	18759 lb	3004 lb	397213 in*lb	632948 in*lb	120915 in*lb or lb
2/25/2004 11:44:48:94 - Monitoring 2/25/2004 11:44:49:67, SRP Well # 168 (1) - Online. 2/25/2004 11:44:50:61, SRP Well # 360 (2) - Online. 2/25/2004 11:44:51:82, FOP Well # 256 (3) - Online.	PCP Well #25 (3)	HAND RUN	KEYPAD	499.9 rpm		0 bpd	0.00 psi	0.11 ftlb				
2/25/2004 11:44:49:67, SRP Well # 168 (1) - Online. 2/25/2004 11:44:50:61, SRP Well # 360 (2) - Online. 2/25/2004 11:44:51:82, PCP Well # 250 (3) - Online.	ESP Well #44 (6)	AUTO RUN	ANALOG	995.3 rpm		0 bpd	0.00 psi	0.13 ftlb				
	/25/2004 11:44 /25/2004 11:44 /25/2004 11:44	49:67, SF 50:61, SF 51:82, PC	RP Well # 16 RP Well # 36 CP Well #25	8 (1) - On 0 (2) - On (3) - Onli	line. ne.							
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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.

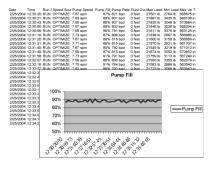
	Run Status	Speed Source	Pump Speed	Pump
SRP Well # 168 (1)	STOP	OPTIMIZE	0.00 spm	95
SRP Well # 360 (2)	RUN	SUNGLE KEYPAD	7.01 spm	7
POP Well #25 (3)	HAND RUN	KEYPAD	500.1 rpm	
ESP Wel #44 (6)	AUTO RUN	ANALOG	996.2 rpm	
UEdit (SystemMor Pile Edit Vew 3) DEP 2 Stranger August Stranger	(Chi Ali Chi nitor2.usm) ystem Monitor	Tools Communicat	0 (2) _ tons Win ▶ []	
	Run Status	Speed Source	P	
SRP Well # 168 (1)	Run Status RUN	Speed Source OPTIMIZE	Pi	
		OPTIMEZE SINGLE KEYPAD	Pi	
SRP Well # 168 (1)	RUN	OPTIMEZE	P	

# **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.



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## 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.



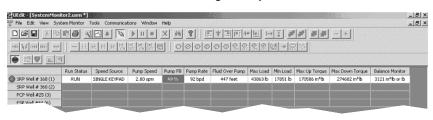
FIELD

Field Operations Monitor

#### Overview (continued)

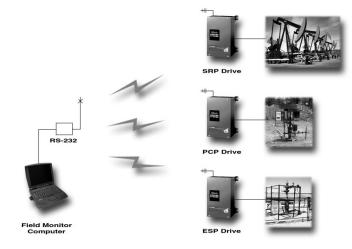
## **Alarms and Limits**

Each cell in the spreadsheet can be set up to indicate an alarm condition or limitexceeded 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

- UNICO artificial-lift drive
- UEdit<sup>®</sup> programming software (804-758 version 240 or higher)
- Windows 98, NT, or 2000 operating system
- 200 MHz Pentium processor

**Minimum Requirements** 

- · 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

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Specifications subject to change without notice.