



Field Report

Field Report
Pump Optimization System

Field

Field Zone	Location	Field Manager
Baker04	Bakersfield, CA	Phillip Barrels

Well Data

Well ID	Run Status	Speed Source	Pump Speed	Pump Fill	Pump Rate	Time Captured
SRP Well 1234	RUN	HOLD UP	2 spm	98 %	285 bpd	12-APR-04 16:29 GMT
SRP Well 360	RUN	SINGLE KEYPAD	7 spm	77 %	633 bpd	12-APR-04 16:33 GMT
PCP Well 25	HAND RUN	KEYPAD	499 rpm		0 bpd	12-APR-04 16:12 GMT
ESP Well 44	AUTO RUN	ANALOG	995 rpm		0 bpd	12-APR-04 16:19 GMT

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Overview

The Global Operations Monitor provides a convenient way for operators to monitor multiple fields of wells powered by Unico artificial-lift drives. The software uses an industry-standard database to log well production information from fields anywhere in the world. Field and well data can be observed using standard Internet Web browsers.

Field Summary

After logging onto a password-protected Web site, an operator selects the field to monitor from a pull-down menu. Data is reported in a familiar spreadsheet format, allowing operators to quickly obtain the operating status of each well in 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 displayed can be configured from any of the parameters available in the drive.

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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.

Well Report

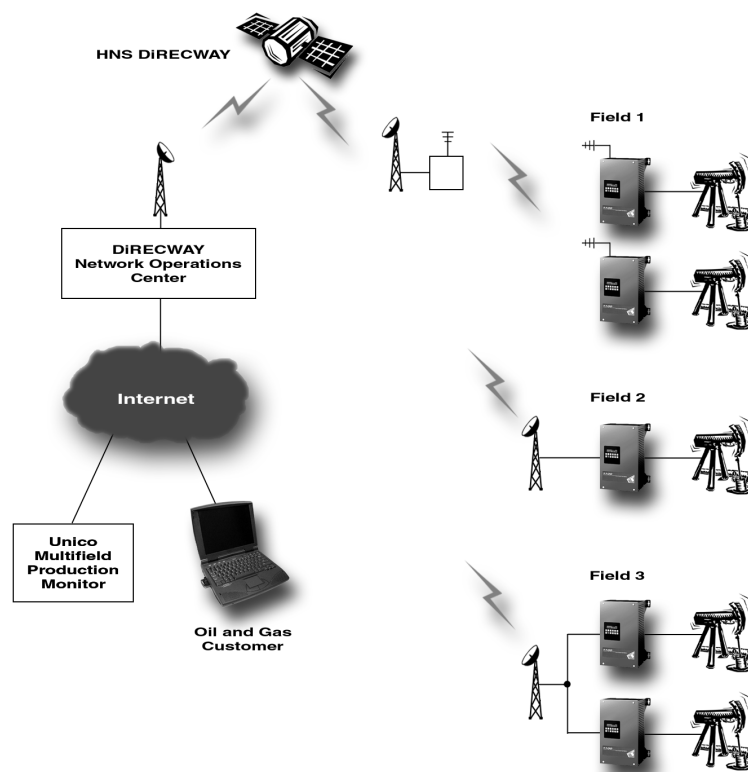
The operator can obtain a detailed well report for any well in the field. A typical sucker-rod pump report contains information about rod and gearbox loading. A surface/downhole DynaCard and a gearbox torque plot are also provided with the sucker-rod well report.

SRP Well Report

Overview Communications

(continued)

Communications is achieved using the Modbus RTU protocol over an Ethernet TCP/IP network. Data can be retrieved using most common communications networks. Multiple drives can be networked using RS-485-to-Ethernet converters. Wireless operation using RF modems, cellular telephone systems, and satellite are also available.



High-Speed Satellite Access

A DiRECWAY satellite network allows monitoring of remote sites that are inaccessible to standard telephone, cellular, or radio communications or that suffer from slow connections. DiRECWAY is a high-speed broadband solution from Hughes Network Systems (HNS) that provides a reliable, always-on connection.

UNICO-Worldwide



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