UNICO

SRP WELL

SRP
Well
Report

Overview

Unico's SRP Well Report provides well operators with one-button access to surface and downhole pump DynaCards and other data stored in a well powered by a Unico artificial-lift drive.

One-Button Reporting
Operators can generate a complete four-page well report at the click of a button. Reports are produced in as little as 25 seconds with a 57.6 kbaud connection.

Data Collection
All report data is read directly from the drive using Microsoft Excel and Unico's free Modbus RTU OPC Server. The software can also use most OPC servers that are readily available for other serial protocols. All sources of serial communication are supported, including wired, modem, radio, and satellite connections.

Field Monitoring
The Unico Modbus OPC Server can be configured for multiple drives, making the SRP Well Report an inexpensive multiple-well oilfield monitoring system.

On-Line Synchronized Data
The report provides the most comprehensive set of well data available today. While similar, more expensive applications estimate well operating conditions off-line (such as gearbox torque), none of the values in the SRP Well Report are estimated. All of the information provided is measured. Data and charts are fully synchronized so that each report represents one complete cycle of the pump.

Easy Status Monitoring
The report presents a wide variety of information in an easy-to-read format that makes monitoring well operating status a breeze. The report includes:

- Measured surface and downhole DynaCard including unit rated rod load
- Measured gearbox torque chart including pump direction and unit rated torque plots
- Reference input chart
- Gearbox torque chart including measured gearbox torque, counterbalance assist torque, and as-balanced torque plots
- Velocity chart including rod velocity, downhole pump velocity, and crank velocity plots
- Predicted surface and downhole DynaCards with pump-off (incomplete pump fill) simulation
- Feature list that highlights currently enabled Unico SRP control options
- All setup parameters related to the pumping unit

Overview
(continued)

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                TOOLBAR
        Instructions:
1. Clear Report (Optional)
2. Choose OPC Server
3. Choose Device
4. Choose Language/Type
5. Generate Report
6. Fill in the highlited areas
7. To Save the Data, use Export TXT File button.

    [ Clear All for New Well ]
OPC Server:
[ UNICO.Modbus OPC ServerDA  ▼ ]
Device:
[ COM1.SRPx10_V100          ]

Reset All
Meters?        [    NO    ▼ ]

Language:      [  English  ▼ ]

    [   Generate Report   ]
        READY
              Statistics
Start
End
Elapsed
                    [        ] seconds

    [   Export TXT File   ]
    [   Import TXT File   ]
    [   Export DYN File   ]
    [    Print Report     ]
```

Spanish Translation
The SRP Well Report can be viewed in either English or Spanish with the click of a button.

Data Export
The full set of time-stamped well data can be exported to .txt text files for easy archiving. An import feature reads these files and reformats them into the well report format. Data can also be exported as .dyn files that can be imported into Theta's Rodstar and other applications.

Open Source Code
The software's Microsoft Visual Basic for Applications source code is open for customization. The code is password-protected to avoid accidental changes. The Excel file has a read-only attribute to avoid accidental changes. The software is fully programmable to read from or write to any item in the drive's dictionary. Sample code is provided for easy "cut-and-paste" modifications. The Unico Modbus OPC Server supports all necessary operations (array/vector processing) to produce these reports via serial/radio transmission. The Excel/VBA application supports most generic OPC servers, allowing other communication protocols or data transmission methods to be used.

Specifications

Minimum Requirements
- Unico Modbus OPC Server (805-524.001 or greater) or other compatible OPC server
- Microsoft Excel 2000 or greater

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