

## An Enterprise Solution for Managing Well Lifecycle Data



PetrisWINDS Well Lifecycle Manager™ (WLM) captures and organizes well lifecycle data that allows users to track well status, costs, activities and more. This data, when combined together in an integrated system, provides comprehensive information for analysis and decision making throughout the lifecycle of wells, from drilling, completion and workovers, to abandonment.

### Challenges Solved by WLM

There are currently a number of challenges in the industry with regards to field data capture. One is to ensure that only high quality, meaningful cost and operational data gets captured. This data is paramount to the decision making process; and decisions founded on bad

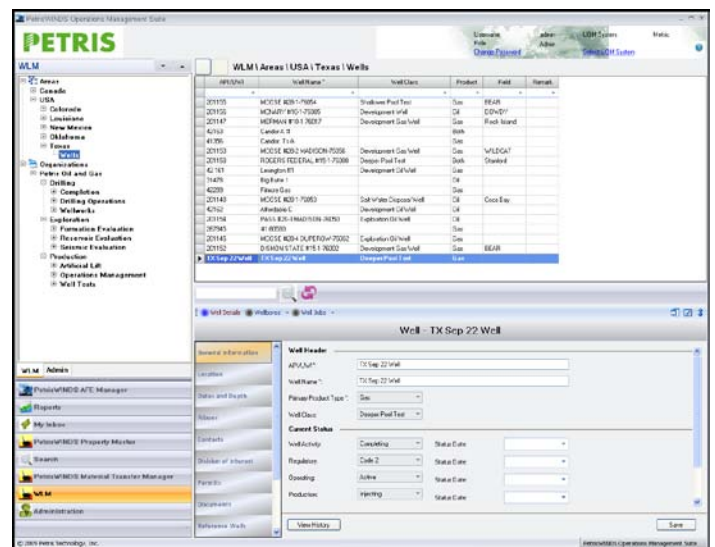
data are inherently flawed from the beginning.

In addition to capturing reliable data, there is also a need for preserving knowledge in a manner that makes it evident to the user why a particular decision was made. Due to the vast amount of data collected by WLM, the data can be mined to determine "Lessons Learned" and preserve knowledge for future reference.

Even data entered in from the field can be accessible to those in the office nearly immediately once the disconnected (from server) computer is synchronized with the office. Data is entered once and becomes available for reuse throughout the company, empowering users with up to the minute knowledge needed to control expenses and make accurate, informed decisions.

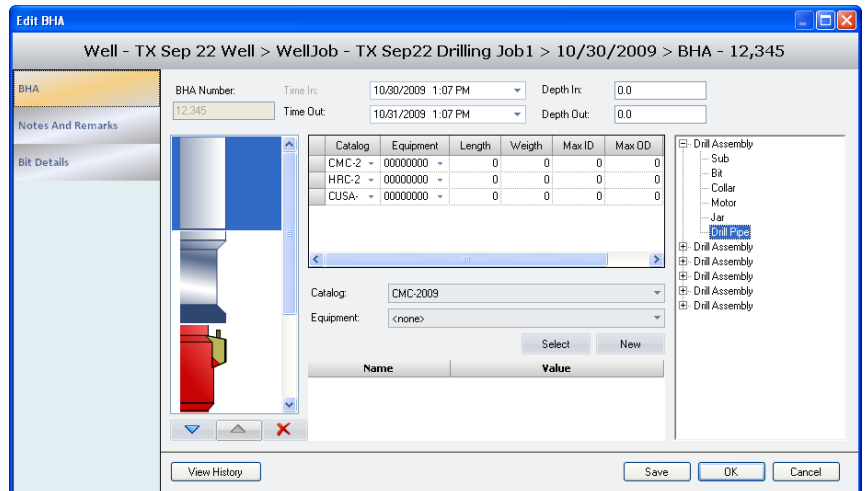
WLM will also capture, maintain and deliver information on producing wells that require any type of maintenance. Tracking maintenance and failure data can be a cumbersome process to manage using spreadsheets or other manual processes. By tracking failure histories in WLM, a company can discover failure trends and begin to develop proactive solutions. By having contingency plans in place, non-productive time associated with reacting to a failure can be minimized.

WLM is aimed at simplifying the rig user's job by automating the data capture and data entry processes, allowing them to spend more time on the rig floor instead of entering/validating the data. The module features robust and flexible data exchange between the rig and the office, expediting the decision making process in the office due to improved access to rig data.



## Features

- ▶ Easy to capture and organize well life cycle data that allow users to track well status, costs, activities, etc.
- ▶ Plan vs Actual data and graphical comparisons
- ▶ Time related well schematic visualization
- ▶ Data mining and knowledge preservation
- ▶ Role-based security with tight hole capabilities
- ▶ Ability to custom design the workflow processes
- ▶ Robust & flexible data exchange between rig and office
- ▶ Multiple unit of measurement systems
- ▶ Internationalization
- ▶ Data exchange with related systems: Production, Accounting, Engineering, Geosciences
- ▶ Based on the PPDM data model



Well Lifecycle Manager is fully integrated with AFE Manager and Property Master – this tight coupling provides enhanced cost tracking on well maintenance and workovers

## Benefits

- ▶ Minimize the time needed for capturing data
- ▶ Tools for analyzing data
- ▶ Captures 'Lessons Learned' and past experiences
- ▶ Track failure data and histories to discover trends in equipment failures
- ▶ Minimize unknowns due to the large quantity of detailed data
- ▶ Rig users can spend more time drilling and less time entering data
- ▶ Improved communication between rig and office

Hardware Requirements	Software Requirements
<b>Web/Application Server</b> – 2 X Intel Pentium (or compatible) 550 Mhz with 4GB of memory and 30GB SCSI drives 15k rpm	<b>Web/Application Server</b> – Windows 2003 Server, IIS 6.0 or higher with .NET Framework 3.5
<b>Database Server</b> - 2 X Intel Pentium (or compatible) 550 Mhz with 4GB of memory and 100GB SCSI drives 15k rpm	<b>DBMS</b> – SQL Server 2008
	<b>File Transfer</b> – ftp Server/MSMQ
	<b>Email Server</b> – SMTP Server/MS Exchange Server
	<b>Client</b> - Windows XP, Windows 7 or Windows 2000 server (or above) for desktop client application and Windows CE/Mobile for PDA client, MS Office 2003 or 2007, Adobe Reader 9.0 (or higher)