

WellData 3.0 and WellData Real Time (RT)

Looking for ways to streamline the operations of your Drilling Business? WellData is designed to be used in a wide variety of applications. Anytime, day or night, you can log into the WellData Website and view the current information you need to find out the exact status of your rigs' current operations. Electronic versions of approved IADC reports as well as Morning, Payroll and other reports are readily available. By auto populating report fields, you can streamline data entry into your critical business applications.

- Daily drilling reports (i.e., IADC)
- Payroll reports (contractor only)

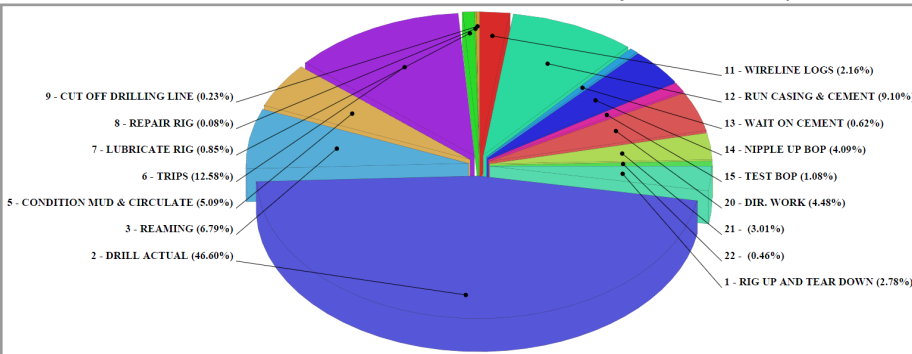
Each user has the ability to automate information retrieval. For ease of use, customized well data text files can be sent at user selected time intervals. Report customization allows IADC activity codes to be summarized and data for a given date range reported across wells to enable more informed decision making. One can also manage operating expenses on a per rig basis and create bi-weekly payroll summaries from the IADC Standard Daily Drilling Reports.

Time Summary			
Operator zQA Operator		Well	Producer 10-A
Contractor zPower Drilling		Rig #	201
Code No	Description	Elapsed Time	Percent
1	RIG UP AND TEAR DOWN	18.00	2.78%
2	DRILL ACTUAL	302.00	46.60%
3	REAMING	44.00	6.79%
4	CORING	0.00	0.00%
5	CONDITION MUD & CIRCULATE	33.00	5.09%
6	TRIPS	81.50	12.58%
7	LUBRICATE RIG	5.50	0.85%
8	REPAIR RIG	0.50	0.08%
9	CUT OFF DRILLING LINE	1.50	0.23%
10	DEVIATION SURVEY	0.00	0.00%
11	WIRELINE LOGS	14.00	2.16%
12	RUN CASING & CEMENT	59.00	9.10%
13	WAIT ON CEMENT	4.00	0.62%
14	NIPPLE UP BOP	26.50	4.09%
15	TEST BOP	7.00	1.08%
16	DRILL STEM TEST	0.00	0.00%
17	PLUG BACK	0.00	0.00%
18	SQUEEZE CEMENT	0.00	0.00%
19	FISHING	0.00	0.00%
20	DIR. WORK	29.00	4.48%
21		19.50	3.01%
22		3.00	0.46%
23		0.00	0.00%

Lay the foundation for a successful operation

WellData has a vast storage capacity so you can analyze your historical data to help with building goals and setting reasonable expectations for the success and development of your next well. When you need immediate access to your rig's drilling progress, our WellData/RT option provides you with a real-time view of rig operations.

WellData/Real Time (RT): The type of real-time data that senior managers actually want and need is something that gives them a true understanding of what is happening within their business operations, as it happens. Arguably, such real-time analytics systems are a requirement for its internal decision-making.



By viewing a Time Summary, management can identify activities associated with downtime and increased cost

Utilizing the RigSense EDR system and the remote well communication information system of NOV's WellData, you can now view your drilling information real-time from a web browser anywhere.

Bridge the gap between what you know and what is familiar

The WellData application, located at www.welldata.net/, allows you to store and view your designated reports/data for the wells and rigs pertaining to your operations. The well list home page can be quickly customized for each user to make information processing even easier and more efficient. Division groupings can be created within the now customizable fleet view to help users advance through fleet information more quickly. The application also allows you to share the data in a concise and organized manner with other users.

See how your wells are working to reach your goals

WellData comes standard with the ability to view and export rig reports and data, including:

- Morning reports
- Activity detail reports
- Bit record reports
- Deviation surveys
- Mud records
- Time summary reports

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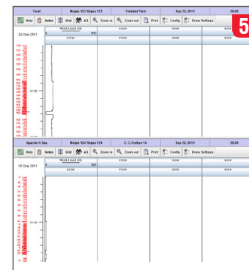
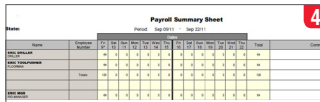
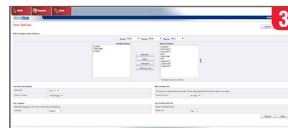
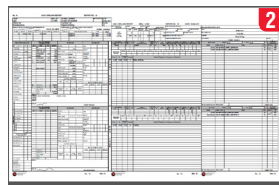
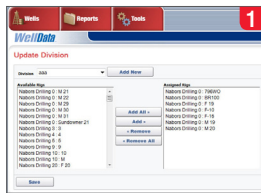
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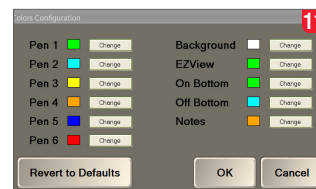
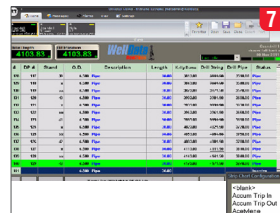


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WellData Key		
Features	Benefits	
1 Fleets Organized by Divisions	Reduce the cost of managing your fleets. Division groupings can be created within the now customizable fleet view to help users advance through fleet information quickly.	
2 Activity Time Break Down Report	Improve efficiency through improved data. IADC activity codes can now be summarized and data for a given date range be reported across wells to enable more informed decision making.	
3 Configurable Home page	Get information faster. The well list home page can be quickly customized to make information processing even easier and more efficient.	
4 Payroll Summary	Detect and reconcile payroll discrepancies. Manage operating expenses and create a bi-weekly payroll summary from the daily IADC payroll reports (contractor only feature)	
5 Side-By-Side Well Comparison	Optimize drilling programs through improved decisions by comparing the present to the past. Anyone interested in "well construction performance" will be able to compare data from multiple wells.	



WellData Real Time Features Key		
Real Time (RT) Upgrades		
6 Directional Survey View	Summary of survey notes entered directly into RigSense displays on the Real Time Directional Survey screen.	
7 Pipe Tally View	Real Time displays this screen so users can view the current BHA and pipe tally as well as the current active joint. The user can also see the active joint tracking out of the hole during a trip.	
8 Unit Conversion	Conversion as well as strip chart configuration is available via the Strip Chart Trace Configuration window.	
9 Lagged Channels	The ability to trace lagged channels such as Gamma Ray, Methane GW, Propane GW, Total Gas GW, total Gas Normalized, WSGD Propane, and WSGD Total Gas.	
10 Configure Strip Chart	To configure the strip chart to display according to user preference. Real Time has the ability to turn on and off Show Minor Grid Lines and Show Tool Tips in just one strip chart or all.	
11 Color Configuration	Real Time can display up to 6 pens per chart and has color configuration to change the colors of the Pen, Background, EZView, On Bottom, Off Bottom, and Notes	



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