



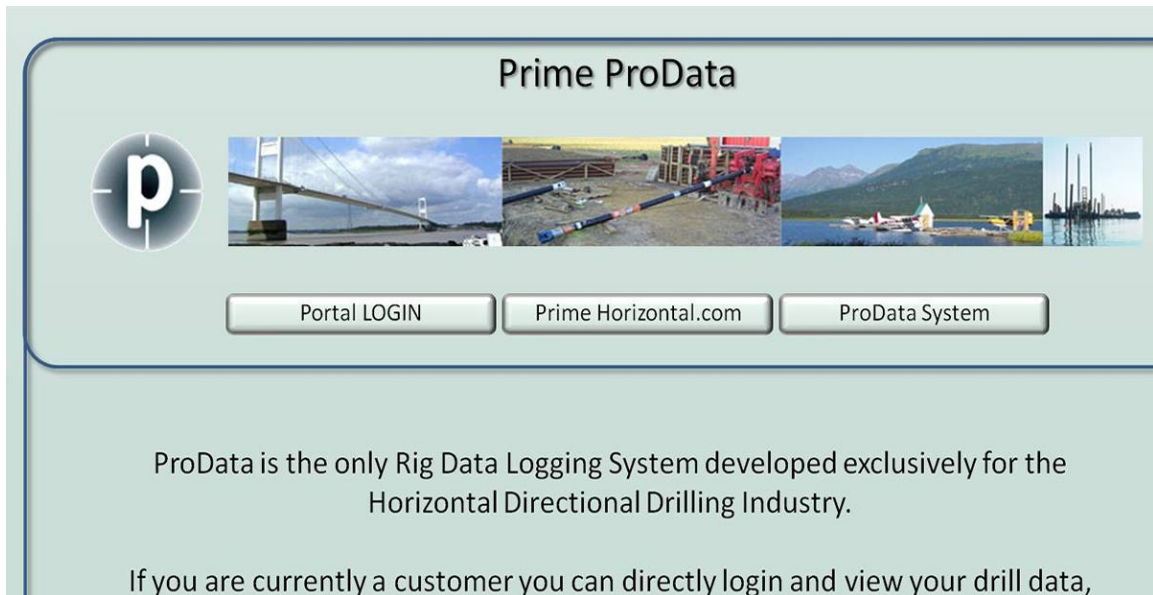
# Quick Start Guide

## PRODATA

Version 8.0

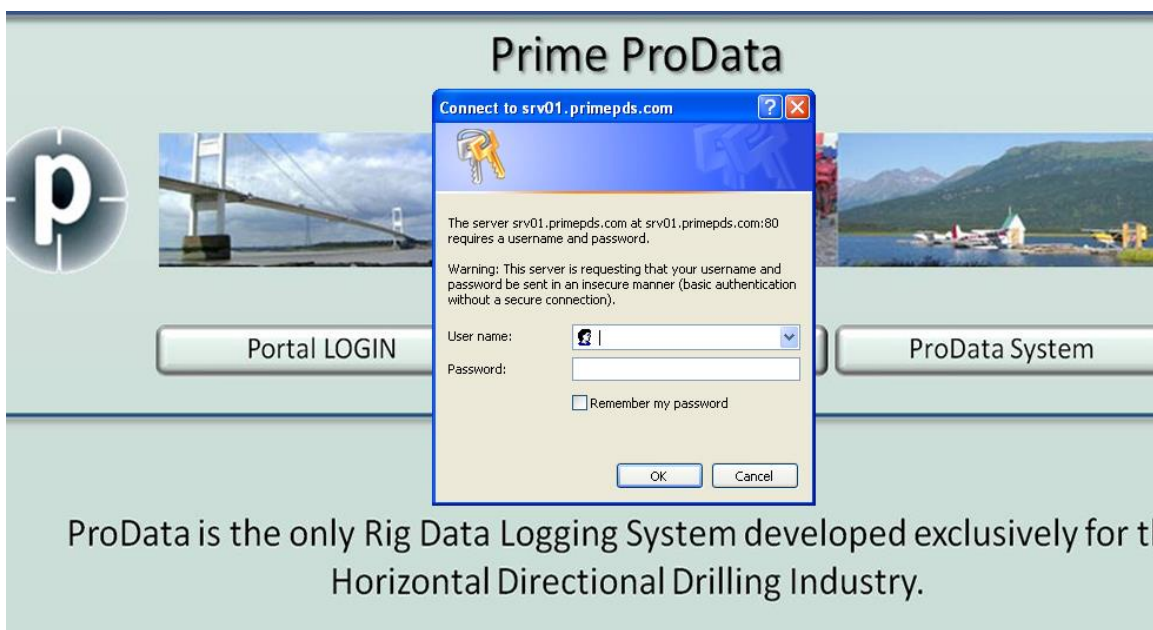
## Logging Onto The Portal

- To Access the Prime Pro Data System Portal you must navigate to [www.Primepds.com](http://www.Primepds.com) or [www.primepds.com/mobile](http://www.primepds.com/mobile) if you are using a mobile device.



The screenshot shows the Prime ProData portal homepage. At the top, the title "Prime ProData" is centered. Below the title is a circular logo with a white 'p' on a dark background. To the right of the logo is a horizontal strip of four images: a suspension bridge, a drilling rig, a lake with mountains, and a drilling rig. Below these images are three buttons: "Portal LOGIN", "Prime Horizontal.com", and "ProData System". Below the buttons is a paragraph of text: "ProData is the only Rig Data Logging System developed exclusively for the Horizontal Directional Drilling Industry." Below that is another paragraph: "If you are currently a customer you can directly login and view your drill data,"

- Next, click Portal LOGIN.
- Enter your credentials into the PopUp.



The screenshot shows the Prime ProData portal homepage with a login pop-up window. The pop-up window is titled "Connect to srv01.primepds.com" and contains the following text: "The server srv01.primepds.com at srv01.primepds.com:80 requires a username and password." Below this is a warning: "Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection)." The pop-up also has fields for "User name:" and "Password:", a checkbox for "Remember my password", and "OK" and "Cancel" buttons. The background of the screenshot is the same as the previous one, but the "Portal LOGIN" button is highlighted.

Now you are logged into the Portal.

## Accessing Drilling Data

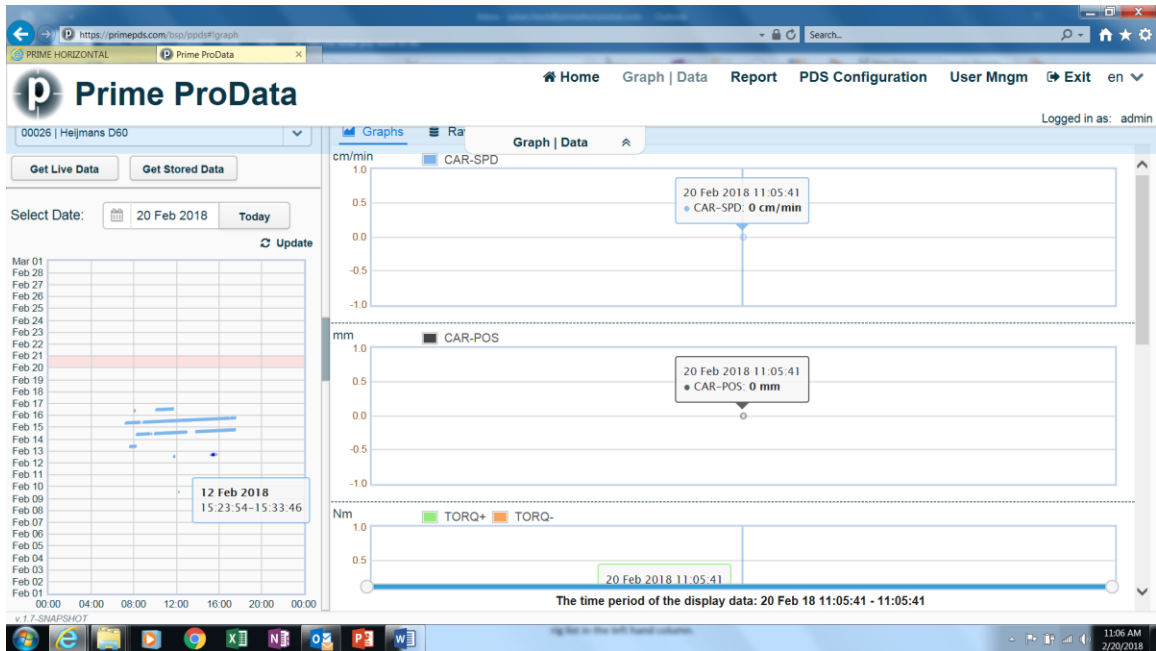
- You will now see the geographical positions of your rigs marked on the map.

00001	Prime	Vermeer D1000
00003	Prime	AAD 625
00005	Prime	
00009	Prime	HK100
00010	Prime	AAD 330
00015	Prime	
00016	Prime	
00017	Prime	Vermeer 36-50R
00019	Prime	HK250
00020	Prime	Vermeer 36-50R
00023	Prime	DD980T
00055	Prime	Tim's Router
00056	Prime	Router 10.1.13.1
01100	Prime	DD1100
FBC001	Prime	Break out
PBC001	Prime	Mobile Break Out

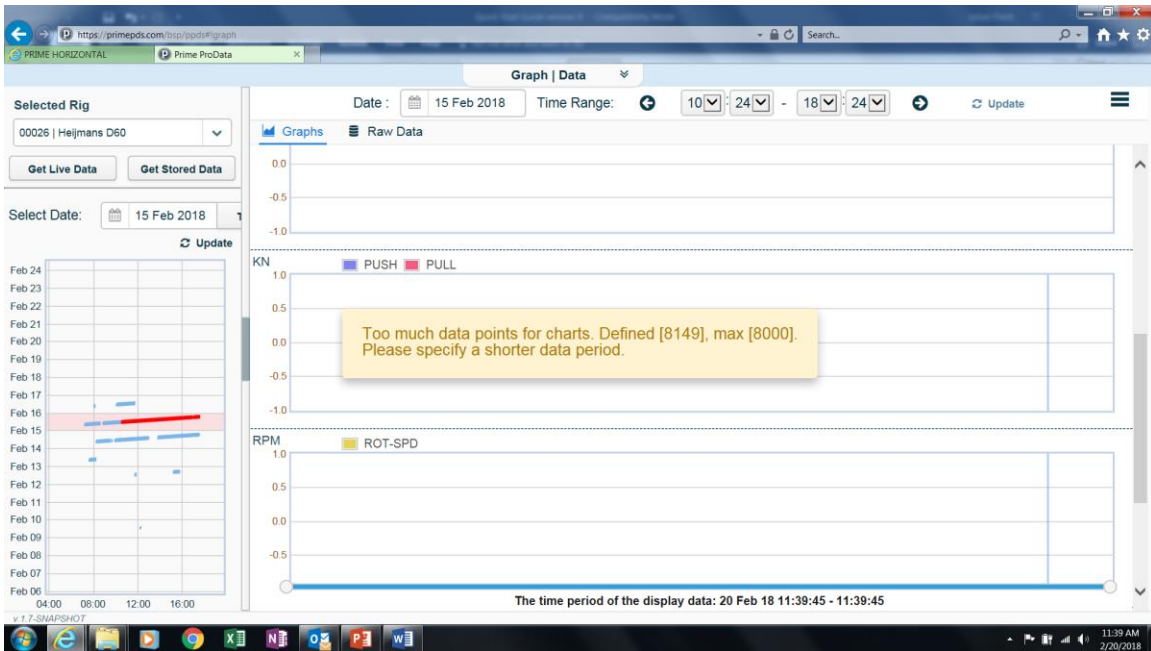
- Select the rig you wish to view by clicking on the relevant marker or selecting from the rig list in the left hand column.
- Select GRAPH / DATA from the tool bar, (You may need to reveal the tool bar by pressing the "Home" button).

You will now see the graphing screen which is split into two parts; the graphs and the present on then you will need to history.

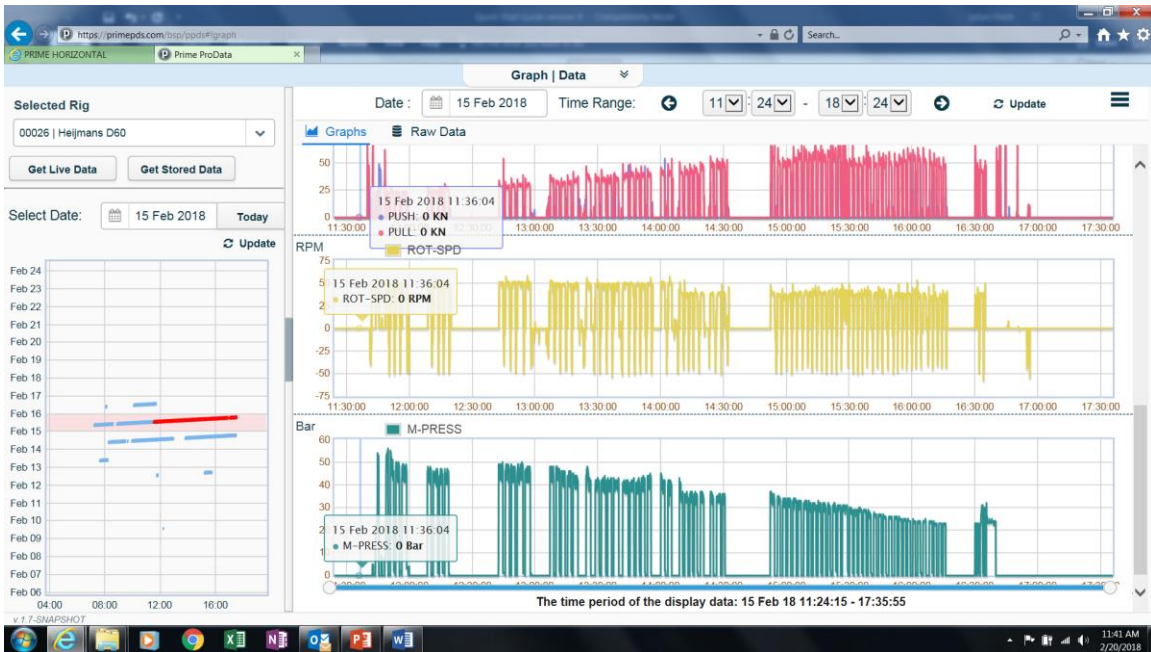
The period of displayed data defaults as the current time and shows the three hours previous if the rig is drilling.



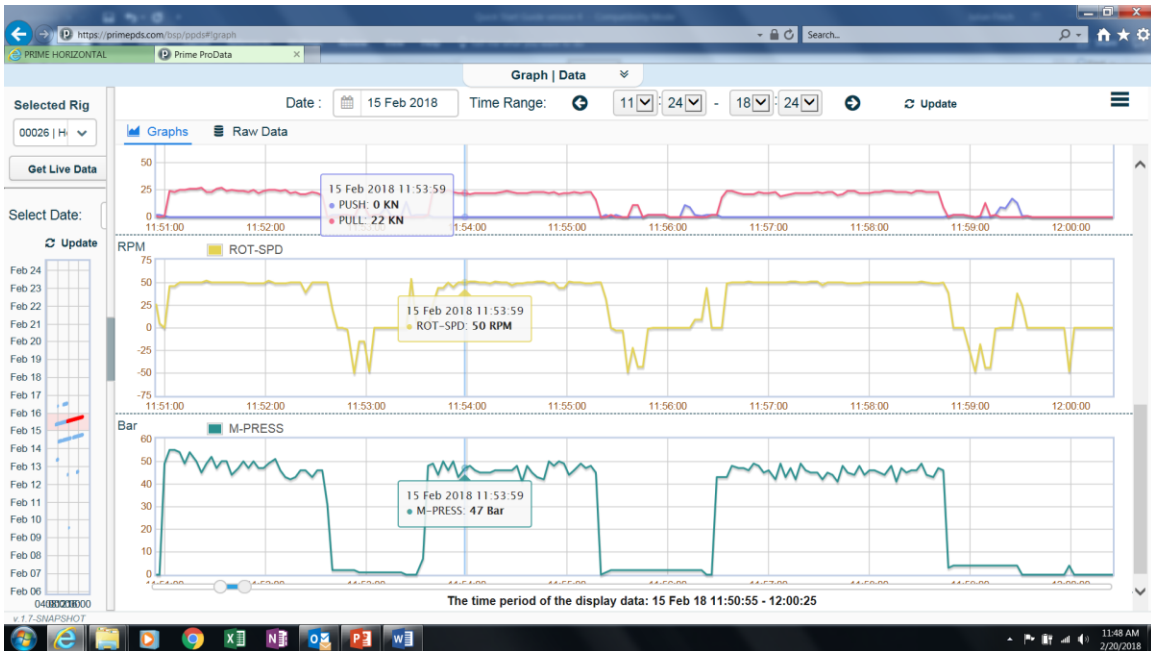
- On the left hand side the horizontal blue bars represent data periods and on which days the data was recorded. By hovering your mouse over each bar the times and date will be revealed. Data can be selected either by clicking on one of the blue bars or clicking on the calendar at the top to specify a known time and date.
- By clicking on a single bar, the date associated will update the date box on the right hand side screen. Unless there is data in the default time period (current time to 3hrs back) You will need to select a start and end time for the data in the two boxes at the top of the screen. Then click the update symbol to the right of these boxes:-
- A limit of 8000 data points has been set. A warning will appear if your request is too large.



- In the example below, a 7hr period has been selected, in this case catching a complete product pipe pull.



The graphs can be zoomed using the scroll bar at the bottom of the screen and panned at the selected zoom level using the same scroll bar.

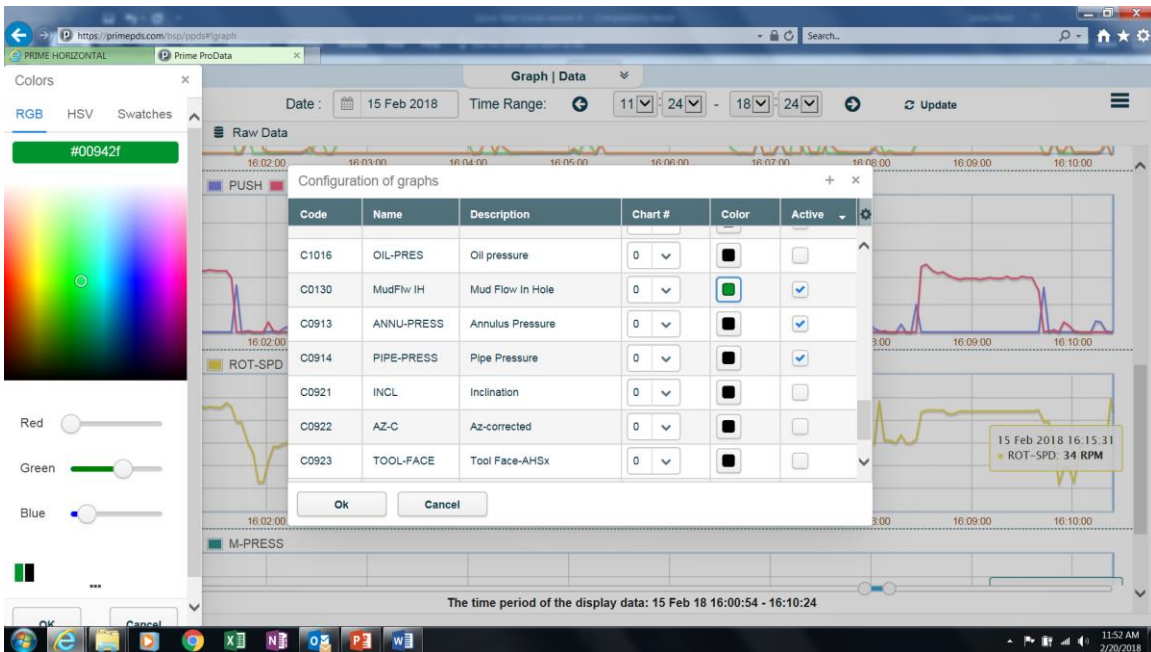


The graphs can be edited to show any parameter being measured by the Prodata system by selecting the EDIT LINE GRAPHS from the drop down menu in the top right hand corner (three horizontal bars).

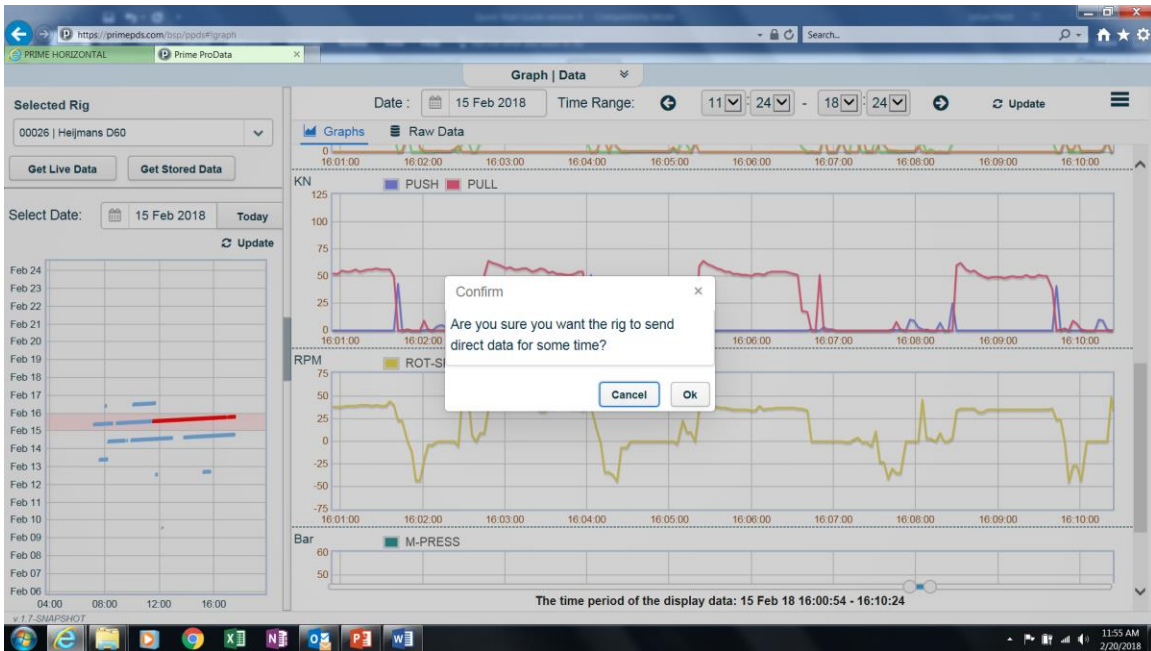




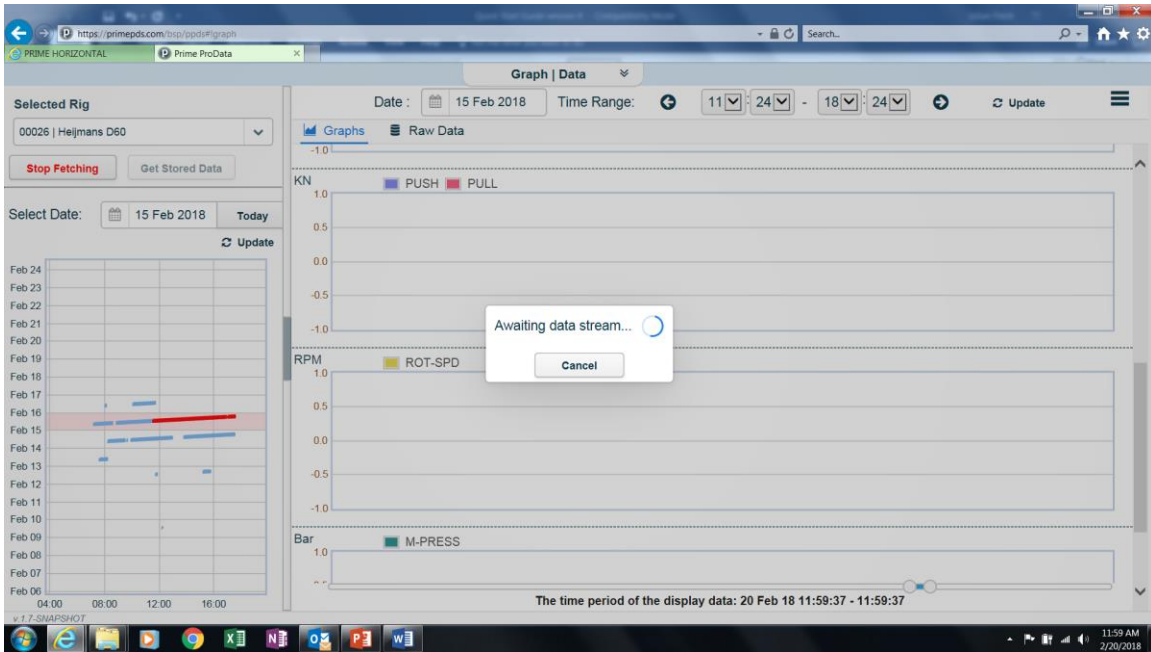
In this menu it is possible to choose which parameters appear on the six standard graphs. You may also decide that you only wish to view a couple of the graphs. Its totally flexible.



Live Data is possible, by pressing the GET LIVE DATA button (if you know that your machine is on and drilling). A message will be sent to the rig requesting a live data stream to be set over the GSM network. The same can be requested for any data that is stored on the machine and not yet uploaded to the portal.



Once the button is pressed a period of between 10 seconds and 1 minute will pass before live drill data appears on your screen.



Live Data will stream to your screen for a fixed 10 minutes, multiple request can be made at no less than three minute intervals.

The data will update the screen every 10 seconds.





Alternatively a time can be selected several hours in advance of the current time, the screen will then update the graphs very 5 mins with any new data that has been recieved by the system. It will do this up until the end time is reached.

For the same Data in numerical form click Raw Data instead of Graphs.

The figure shows the 'Raw Data' view of the Prime ProData software. It features a table with columns for 'Date and Time', 'BIT-DPT', 'HOL-DPT', 'CAR-POS', 'CAR-SPD', 'PULL', 'PUSH', 'TORQ+', 'ROT-SPD', 'M-PRESS', 'MudFlw IH', 'TORQ-', 'PRESS-1', 'PRESS-2', 'PRESS-3', and 'HS-D'. The table contains 20 rows of data points from 15 Feb 2018 15:09:11 down to 15 Feb 2018 15:08:21. The interface also shows tabs for 'Drilling Time Based Data', 'Drilling Connection Data', 'Hydraulic Power Data', and 'Survey Data'.

Date and Time	BIT-DPT	HOL-DPT	CAR-POS	CAR-SPD	PULL	PUSH	TORQ+	ROT-SPD	M-PRESS	MudFlw IH	TORQ-	PRESS-1	PRESS-2	PRESS-3	HS-D
15 Feb 2018 15:09:11	0	0	03226	-00305	00054	0	01929	00040	00031	00233	0	0	00000	00000	00000
15 Feb 2018 15:09:08	0	0	03395	-00283	00056	0	02335	00040	00033	00263	0	0	00000	00000	00000
15 Feb 2018 15:09:05	0	0	03562	-00283	00053	0	02186	00040	00032	00263	0	0	00000	00000	00000
15 Feb 2018 15:09:02	0	0	03716	-00279	00055	0	01925	00040	00031	00263	0	0	00000	00000	00000
15 Feb 2018 15:08:58	0	0	03892	-00265	00052	0	01809	00039	00031	00233	0	0	00000	00000	00000
15 Feb 2018 15:08:55	0	0	04045	-00265	00055	0	02132	00039	00033	00233	0	0	00000	00000	00000
15 Feb 2018 15:08:52	0	0	04192	-00274	00059	0	01582	00039	00032	00233	0	0	00000	00000	00000
15 Feb 2018 15:08:49	0	0	04342	-00265	00056	0	01925	00039	00031	00263	0	0	00000	00000	00000
15 Feb 2018 15:08:46	0	0	04502	-00265	00057	0	02083	00039	00031	00263	0	0	00000	00000	00000
15 Feb 2018 15:08:43	0	0	04647	-00274	00063	0	01756	00039	00032	00233	0	0	00000	00000	00000
15 Feb 2018 15:08:40	0	0	04785	-00222	00062	0	01706	00040	00031	00263	0	0	00000	00000	00000
15 Feb 2018 15:08:37	0	0	04949	00000	00065	0	01677	00036	00031	00263	0	0	00000	00000	00000
15 Feb 2018 15:08:33	0	0	05042	00000	00060	0	01130	00036	00031	00263	0	0	00000	00000	00000
15 Feb 2018 15:08:30	0	0	05046	00000	00053	00053	01101	00036	00032	00233	0	0	00000	00000	00000
15 Feb 2018 15:08:27	0	0	05046	-00004	00037	00037	01080	00036	00032	00263	0	0	00000	00000	00000
15 Feb 2018 15:08:24	0	0	05046	-00087	00026	0	01105	00037	00032	00233	0	0	00000	00000	00000
15 Feb 2018 15:08:21	0	0	05054	-00087	00051	0	01259	00037	00032	00233	0	0	00000	00000	00000

This data can be downloaded to your computer or E-mailed onwards by choosing corner drop down menu:

Graph | Data

Date: 15 Feb 2018 Time Range: 15:05 - 15:09 Update

Graphs Raw Data

Drilling Time Based Data Drilling Connection Data Hydraulic Power Data Survey Data

Date and Time	BIT-DPT	HOL-DPT	CAR-POS	CAR-SPD	PULL	PUSH	TORQ+	ROT-SPD	M-PRESS	MudFlw IH	TORQ-	PRESS-1	PR
15 Feb 2018 15:09:11	0	0	03226	-00305	00054	0	01929	00040	00031	00233	0	0	000
15 Feb 2018 15:09:08	0	0	03395	-00283	00056	0	02335	00040	00033	00263	0	0	000
15 Feb 2018 15:09:05	0	0	03562	-00283	00053	0	02186	00040	00032	00263	0	0	000
15 Feb 2018 15:09:02	0	0	03716	-00279	00055	0	01925	00040	00031	00263	0	0	000
15 Feb 2018 15:08:58	0	0	03892	-00265	00052	0	01809	00039	00031	00233	0	0	00000
15 Feb 2018 15:08:55	0	0	04045	-00265	00055	0	02132	00039	00033	00233	0	0	00000
15 Feb 2018 15:08:52	0	0	04192	-00274	00059	0	01582	00039	00032	00233	0	0	00000
15 Feb 2018 15:08:49	0	0	04342	-00265	00056	0	01925	00039	00031	00263	0	0	00000
15 Feb 2018 15:08:46	0	0	04502	-00265	00057	0	02083	00039	00031	00263	0	0	00000
15 Feb 2018 15:08:43	0	0	04647	-00274	00063	0	01756	00039	00032	00233	0	0	00000
15 Feb 2018 15:08:40	0	0	04785	-00222	00062	0	01706	00040	00031	00263	0	0	00000
15 Feb 2018 15:08:37	0	0	04949	00000	00065	0	01677	00036	00031	00263	0	0	00000
15 Feb 2018 15:08:33	0	0	05042	00000	00060	0	01130	00036	00031	00263	0	0	00000
15 Feb 2018 15:08:30	0	0	05046	00000	00053	00053	01101	00036	00032	00233	0	0	00000
15 Feb 2018 15:08:27	0	0	05046	-00004	00037	00037	01080	00036	00032	00263	0	0	00000
15 Feb 2018 15:08:24	0	0	05046	-00087	00026	0	01105	00037	00032	00233	0	0	00000
15 Feb 2018 15:08:21	0	0	05054	-00087	00051	0	01259	00037	00032	00233	0	0	00000

Adjust Push Pull Torq  
Enabled diff push-pull  
Enabled diff Torque  
Download Data  
Send data  
Send data via email to graphs

## Retrieving Reports

- Click the Reporting Tab from the main drop down menu
- The month you are viewing data in, will by default be loaded alternatively choose a month and year and the list will automatically update.
- Then highlight which days report you want by **clicking** on the relevant line (a report with drilling data in is indicated by the fields “start Job” and “End Job” being filled in), then click “Download PDF Report”.

Report

Date: 15 Feb 2018 Time Range: 00:00 - 24:00 Compensating MudOffset: 0 Generate Report

Generated Reports

Start Date	Start Time	End Date	End Time	Rig On	Rig Off	Start Job	End Job	MudPrs (HH:MM)	Compensating MudOffset
12 Feb 2018	00:00:00	12 Feb 2018	23:59:59	11:45:29	15:47:40			00:00	0
13 Feb 2018	00:00:00	13 Feb 2018	23:59:59	07:38:22	08:15:31			00:00	0
14 Feb 2018	00:00:00	14 Feb 2018	23:59:59	08:16:17	17:33:16	09:26:44	17:30:52	02:08	0
15 Feb 2018	00:00:00	15 Feb 2018	23:59:59	07:13:42	17:35:55	08:18:11	16:40:03	03:06	0
16 Feb 2018	00:00:00	16 Feb 2018	23:59:59	08:04:01	11:45:46			00:00	0

ReportId: 2,063,239  
 RigType: Vermeer  
 Latitude: 90.0000000  
 Longitude: -000.0000000  
 Requested Start: 15 Feb 2018 00:00:00  
 Requested End: 15 Feb 2018 23:59:59  
 Rig On: 07:13:42  
 Rig Off: 17:35:55  
 Job Start: 08:18:11  
 Job End: 16:40:03  
 Time Rig On: 10:22  
 MudPressure (HHMM): 03:06

Positive Travel: 62115 mm  
 Avg Pos CarSpd: 1.074 m/min  
 Max RightHand Torque (Pushing): 4135.0 Nm  
 Avg RightHand Torque (Pushing): 646.238 Nm  
 Max Push: 74 kN  
 Avg Push: 11.427 kN  
 MudFlow Total Volume (Pushing): 7639 liters  
 Avg MudFlow (Pushing): 132 Ltr/min  
 Max MudPressure (Pushing): 49 Bar  
 Avg MudPressure (Pushing): 18.652 Bar  
 Total Revs (Pushing): 1080.997  
 Max RPM (Pushing): 55  
 Avg RPM (Pushing): 18.729

Negative Travel: -313817 mm  
 Avg Neg CarSpd: -2.438 m/min  
 Max RightHand Torque (Pulling): 3641.0 Nm  
 Avg RightHand Torque (Pulling): 1469.946 Nm  
 Max Pull: 84 kN  
 Avg Pull: 36.055 kN  
 MudFlow Total Volume (Pulling): 28169 liters  
 Avg MudFlow (Pulling): 219 Ltr/min  
 Max MudPressure (Pulling): 56 Bar  
 Avg MudPressure (Pulling): 31.532 Bar  
 Total Revs (Pulling): 4708.959  
 Max RPM (Pulling): 58  
 Avg RPM (Pulling): 36.679

Download PDF Download PDF with Mud

- Either view or save the PDF Report to a location and name of your choice.
- Wait till the program advises that the file has been saved successfully and click "OK".

21-01-2010, week 4

Customer: Professional Drilling Services  
 GPS Position: 51.2997825,005.9693523  
 Rig ID: Big1  
 Type: Vermeer 16 Ton

Daily Summary Report (times in UTC)  
 Rig On: 08:03:54  
 Rig Off: 17:21:57  
 Total Rig On Time: 09:18  
 Mud Pressure hours: 02:56

All values are sampled and measured while mud pump is switched on

**While pushing**

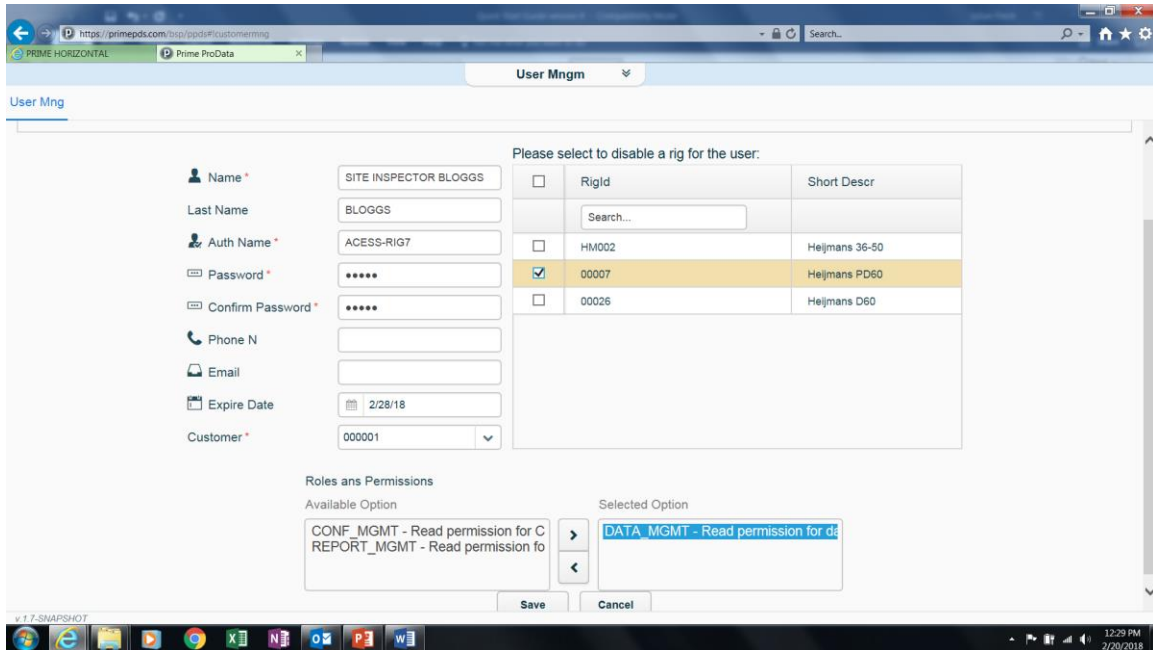
Max Mud Pressure	75 bar
Avg Mud Pressure	52.59 bar
Avg Mud Flow	0 ltr/min
Mud Flow total volume	0.0 liters
Max Push	54 kN
Avg Push	7.5 kN
Avg Forward Carriage Speed	1.54 m/min
Total Forward Travel	116837 mm
Max Right Hand Torque	1742.0 Nm
Avg Right Hand Torque	260.63 Nm
Total Revolutions	1226.089
Max RPM	60
Avg RPM	16.33

**While pulling**

Max Mud Pressure	63 bar
Avg Mud Pressure	35.43 bar
Avg Mud Flow	0 ltr/min
Mud Flow total volume	0.0 liters
Max Pull	88 kN
Avg Pull	27.83 kN
Avg Reverse Carriage Speed	-1.16 m/min
Total Reverse Travel	-118312 mm
Max Right Hand Torque	3728 Nm
Avg Right Hand Torque	1049.65 Nm
Total Revolutions	1272.8566
Max RPM	59
Avg RPM	12.37

A new addition to the system is the ability for you, as client, to create your own user access. It may be that a client is requiring access to the data for a specific job. It is possible to create access for a site inspector to a single machine and limit his acces to read only with an expiry date for this access.

Alternatively you can set access for your own personel with more user rights, enabling reporting and editing of configuration settings.



We have tried to build the ProData portal to be an intuitive platform for your drilling data, however, should you encounter any problems or difficulties please do not hesitate to contact us. We will be more than happy to guide you over the phone. We have built this portal for you our clients. Its realisation is based entirely on your needs and requirements as an HDD contractor. Your continued input to the further development of this product is invaluable.

## Local Portal Environment

Recent projects have highlighted the need for a local portal environment, this comes into play when the drilling is taking place in a remote environment where no Cell service is available. The prodata system has built in a mini portal which records, stores and displays data in a very similar way to the main portal, with the same user functionality.

In order for personel on a drill site to be able to access the local portal they will need to plug a computer into the supplied ethernet cable hook up.

Using the web browser simply enter the following IP address: 192.168.7.1:4000

The user will then be asked for the user name and password information which is supplied at installation.

The portal environment is as mentioned very similar in functionality to the main portal with only minor differences. This document should suffice to help guide you through what we hope to be an intuitive layout after having first read this document.

## **Steering Tool Information**

The latest addition to the ProData set of parameters to be recorded is that of the steering tool. Prime Horizontal is primarily concerned with Paratrack steering tools which include the Pressure Gravity Tool (PGT). Should this system be in use at the same time as prodata, it is a simple matter of turning on the WITS output in the P2 software (refer to P2 manual) and connecting the computer to the supplied serial connection.

ProData automatically records the raw downhole data when it sees that steering data or the correct format WITS data (in the event of other steering tools) is present.