

# ***DigiTRAK***<sup>®</sup>

## **Series Display**

# **AURORA**<sup>™</sup>

## **LWD Live**

## **App User Guide**

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## Introduction

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The LWD Live app for Aurora provides a real-time bore profile on your Aurora touchscreen display. LWD Live lets you plot rod-by-rod detail of your bore as it happens, capturing rod number, pitch, depth, surface distance, and even time for every rod drilled. It even calculates and plots the relationship between drill head and topography. By clearly showing the bore path as it is created, it helps you make better drilling decisions.

LWD Live will store every bore you set it to monitor (within the limitations of onboard memory).

If the features and screens described in this document do not match those on your Aurora, consult your operator's manual for directions on how to connect to a Wi-Fi network and update your display software.

## Startup

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Tap the **LWD Live** icon in the Applications tab of your Aurora display to load the app, then tap the identical icon in the taskbar to get started.

At the splash screen, choose whether to continue (open) a bore, delete a bore, or start a new bore.



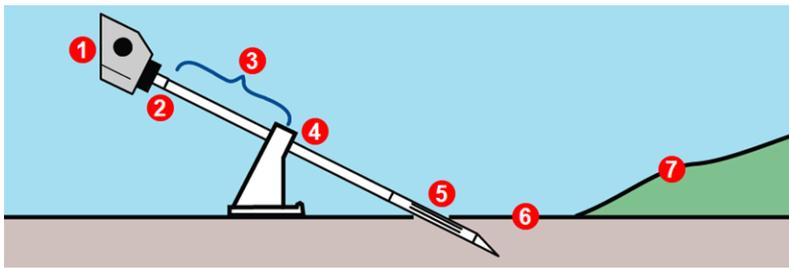
1. Continue (or open) a bore
2. Delete bore
3. New bore

To continue (open) or delete a bore, tap the respective icon, select the bore, and tap **OK**. To start a new bore, continue with the next section.

## New Bore

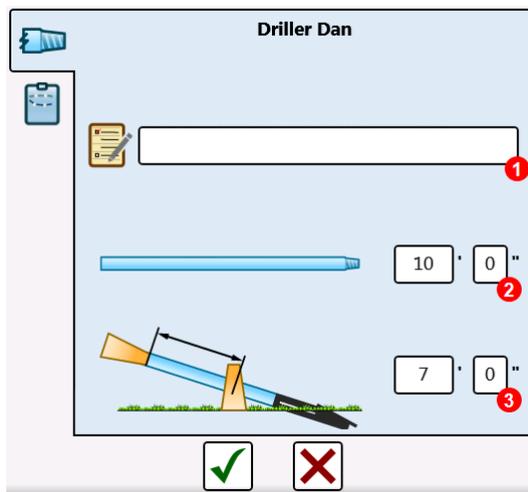
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1. At the splash screen, tap **New Bore** .
2. Tap in the **File Name** field, enter a file name, and tap **OK**.
3. Position the drill head for the first data point with the housing slots halfway in the ground.



- 1. Drill
- 2. Top of rod
- 3. 1st rod length
- 4. Vice
- 5. Slots in housing halfway in ground
- 6. Zero elevation reference line
- 7. Surface of ground

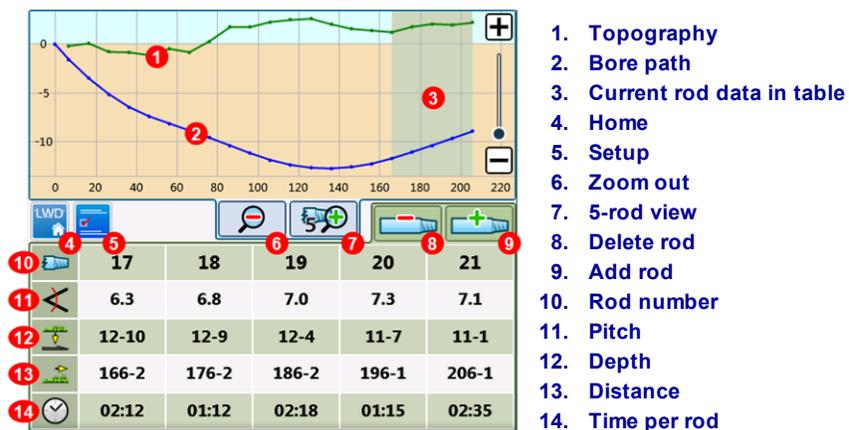
4. At the Bore Setup screen, enter optional notes , edit the rod length and remaining rod length values, and tap  to continue (or  to cancel). To import a BoreAssist bore plan, see page 4.



- 1. Notes
- 2. Rod length
- 3. Remaining rod length

You can edit this information later by tapping **Setup**  on the Main screen.

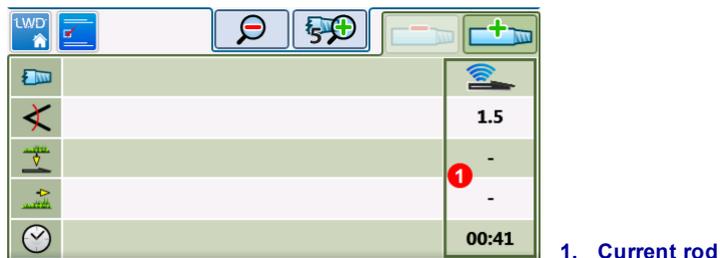
## Main Screen



1. Topography
2. Bore path
3. Current rod data in table
4. Home
5. Setup
6. Zoom out
7. 5-rod view
8. Delete rod
9. Add rod
10. Rod number
11. Pitch
12. Depth
13. Distance
14. Time per rod

Note the shaded area in this graph of a completed bore. This indicates the five rods currently displayed in the table below it. Swipe the table left or right to see those rods on the graph. Use a two-finger pinch or expand drag motion on the graph to zoom in or out. Or, use the plus and minus keys at the right edge of the screen to zoom in or out incrementally. To set the graph to display the five rods currently visible in the table, tap **5-Rod View**.

Upon starting a new bore, the table will be blank except for the current rod, which displays at the right side. The only transmitter data displayed for the first rod is pitch.

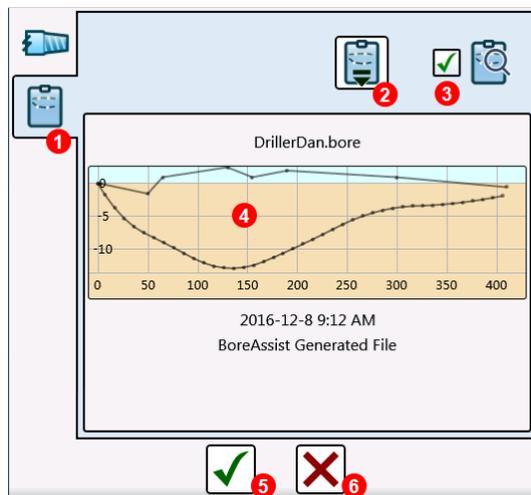


1. Current rod

## Importing from BoreAssist

If you are using the Vermeer BoreAssist bore planning application, you can import a bore plan into LWD Live and monitor the progress against the plan. To import:

1. Tap **Plan**  to open the import tab.
2. Tap **Import** , select the appropriate .bore file from the list, and tap **OK**.
3. When the preview of the bore plan displays (shown below), tap  to accept or  to cancel. To temporarily hide the bore plan and its data, tap **Setup**  on the Main screen and clear the check box beside the **Show/Hide**  icon.



Vermeer BoreAssist Import Tab

While you begin drilling, the path of your actual bore (blue) and calculated terrain (green) will overlay the gray bore plan:



Main Screen with BoreAssist Plan

## Add a Rod

1. Log your first data point (Rod 0) by tapping **Add Rod** .
2. For Rod 0, only pitch is available and no changes may be made at this screen. Tap  to continue. The app logs the first data point and displays transmitter data for the current rod.

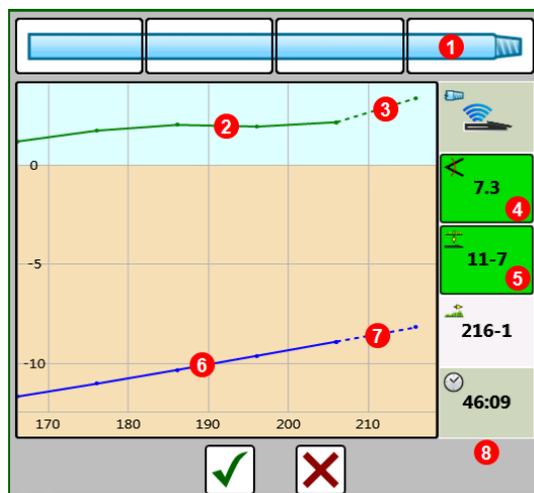
	0	
	-0.2	-0.2
	-	10-0
	0-0	7-0
	14:07	10:38

1. Rod 0
2. Current rod

3. When the first rod has been drilled and located and all data in the **Current Rod** column is present, tap **Add Rod**  to log the first complete rod (Rod 1).
4. Often, no changes are necessary on this screen; simply tap  to log the rod. Optionally:
  - To log a partial rod, tap one of the four rod icons at the top of the screen to set a  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , or restore to a full rod.
  - If the data in the column on the right appears inaccurate, you may wish to request another depth reading from the receiver.
  - If data is obviously inaccurate but cannot be corrected, perhaps due to obstacles or interference, you can log a blank rod by tapping the green pitch button so it turns orange. This also deactivates the depth button below it. This will result in a blank point on both the topography and bore graphs.
  - To remove only the depth reading, tap the green depth button. This results in a blank topography point on the graph.



It is never recommended to drill without good data.

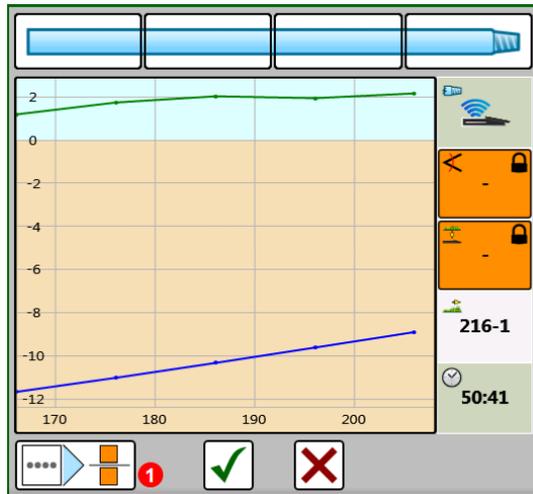


1. Partial rod options
2. Logged topography
3. Projected topography
4. Pitch
5. Depth
6. Logged bore
7. Projected bore
8. Current rod data to be logged

5. After each subsequent rod has been drilled and located, tap **Add Rod** , and  to log it.
6. The last rod is often a partial rod. Choose the appropriate partial rod as discussed above before tapping .

## Using Recent Data

The pitch and depth buttons will remain green for ten seconds after the depth reading was taken. After this time, these buttons turn orange, indicating the depth and pitch values are no longer current.



1. Recent Data

If you still wish to use the most recent receiver data, tap **Recent Data**  to refresh the pitch and depth values with the most recent data (causing them to turn green), then  to log the rod.

## Delete a Rod

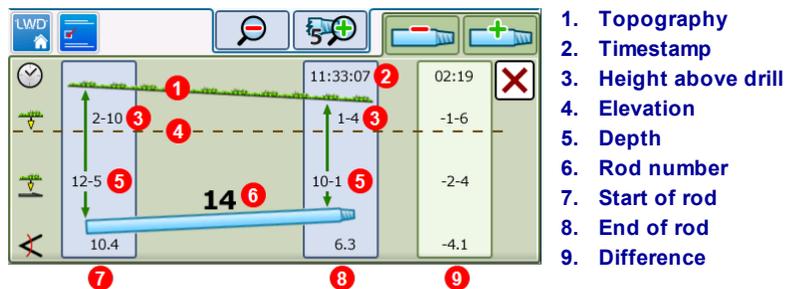
To delete the most recent rod, simply tap **Delete Rod** , then  to confirm. The delete rod data remains visible for reference until the next data point is logged.

## View Rod Detail

Tap on any column of rod data in the table to see detail for that rod.

Data collected at the start and end of the current rod is shown in the light blue columns at either end of the rod image. The differences between these starting and ending values display in the tan column at the right.

Swipe left or right to view detail for the adjacent rod. Tap  to return to the five-rod table.



Don't forget to register your Aurora display at [access.DigiTrak.com](https://access.DigiTrak.com) to stay informed about important updates to your display and apps.

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— End of User Guide —