



# Underground Magnetics



**BORE-LOG V3.4**

**USER GUIDE**



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## Introduction

Underground Magnetism UMmaps application uses any Android device to let you easily record and share bore-log data while using your Mag series locating system. Cloud-based storage is secure and easy to access. Anyone with authorization can view data while drilling is in progress. Data may also be stored on the device and uploaded once Wifi or cell service is available. All Mag series locators are capable of sharing data with the UMmaps app.

GPS data can be recorded as well using UMmaps GPS module sold separately.

## Safety Instructions

Always operate your Umag locating system properly to obtain the most accurate data. Contact Underground Magnetism customer service for assistance.

Underground Magnetism does not guarantee the accuracy of the HDD data that is recorded. Review of data is required to assure data is correctly recorded. Confidentiality of passwords are the responsibility of the owner.



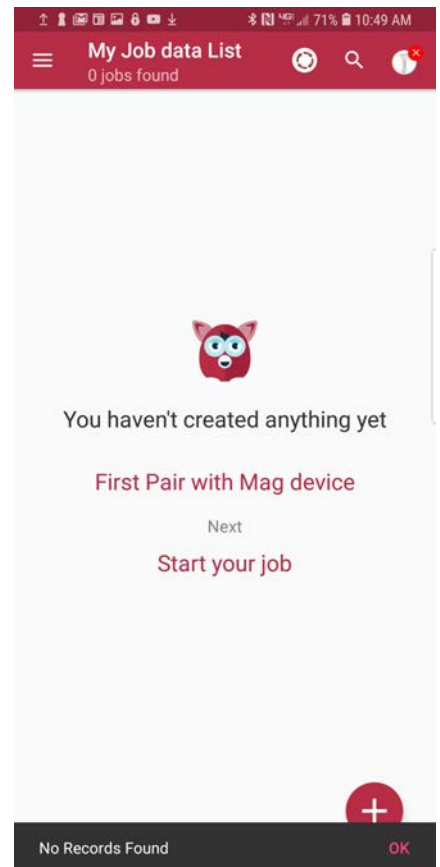
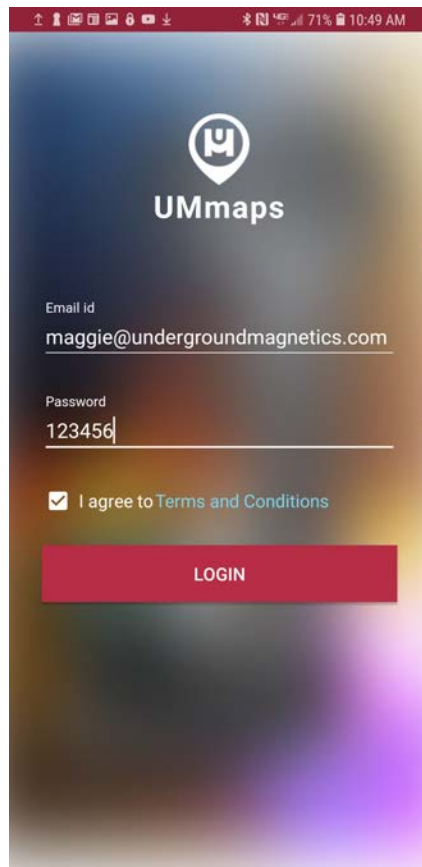
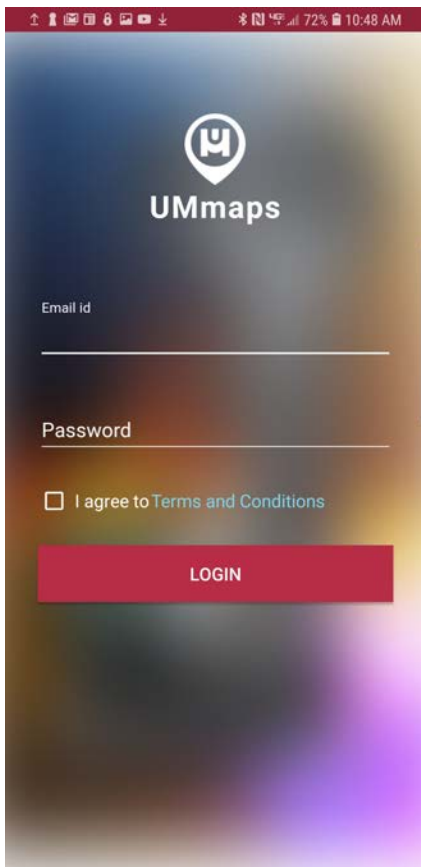
## Log In

Log in to the UMmaps app using the email ID and password you created when you registered your account.

### (Note)

Once your account is registered, it can take up to 24 hours before it is approved by administration.

Once the account is approved and you are logged in, you'll see "My Job Data List". If you haven't recorded any jobs, you will see a screen asking you to create one. Any jobs previously recorded will be listed.

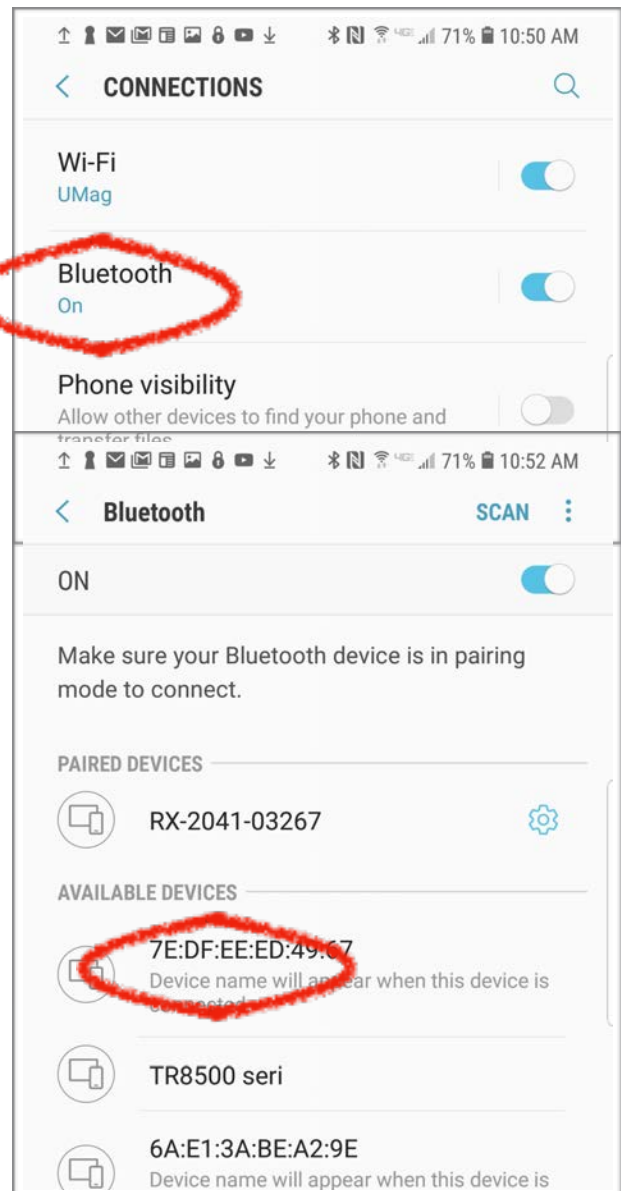
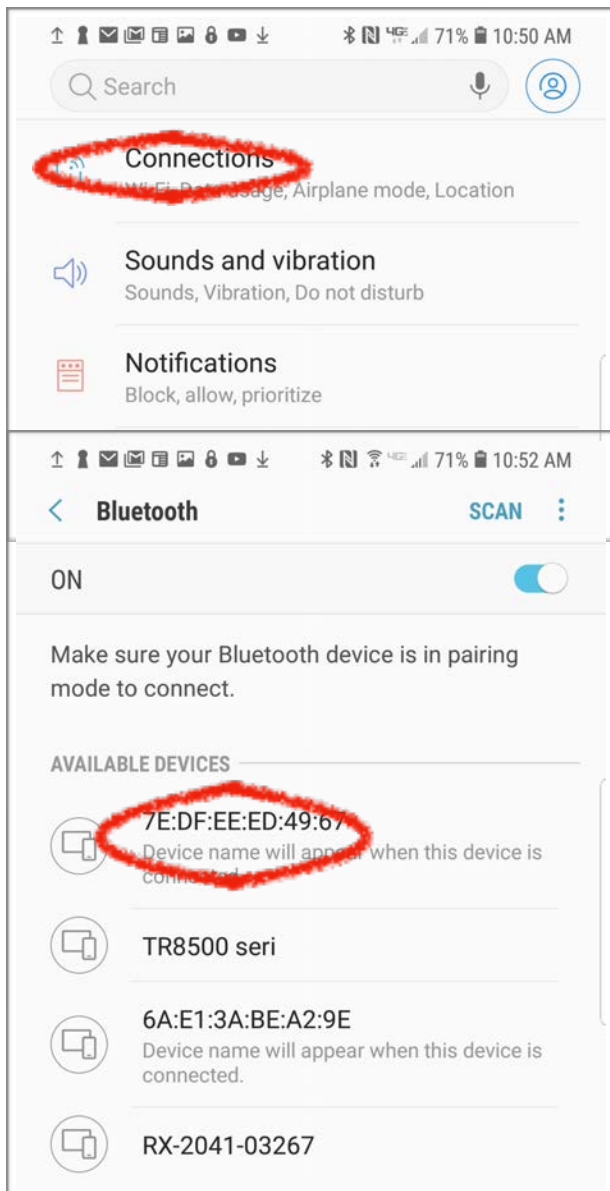




## Connect your device

To connect the Android device to your Umag locating system: first, make sure your Umag receiver is on and receiving data from your transmitter, go to Settings on your device, choose connections and then tap on Bluetooth. Look for a device that starts with “RX”, this will be your locator serial number. Choose this and wait for the device to pair.

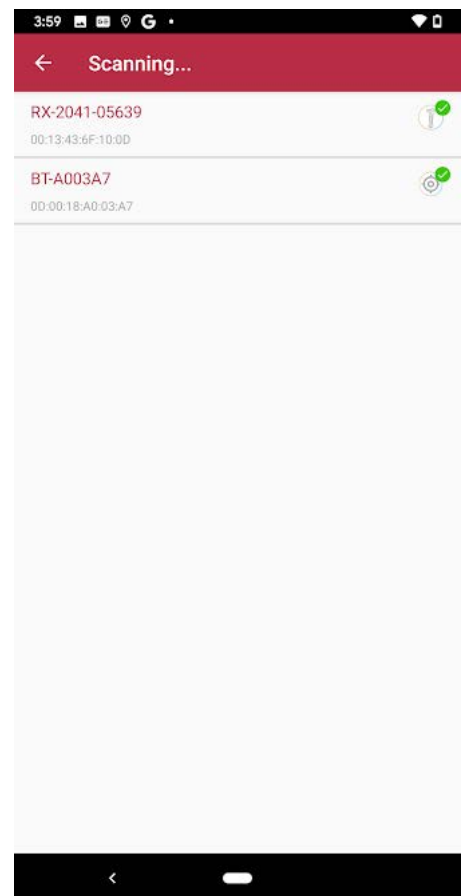
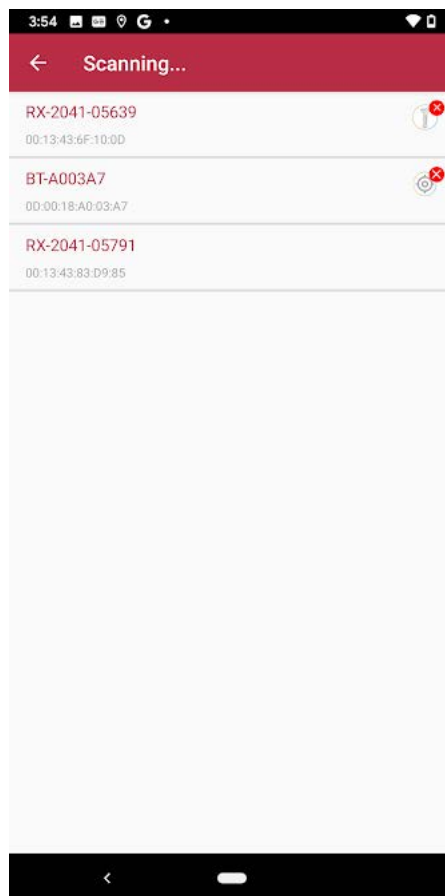
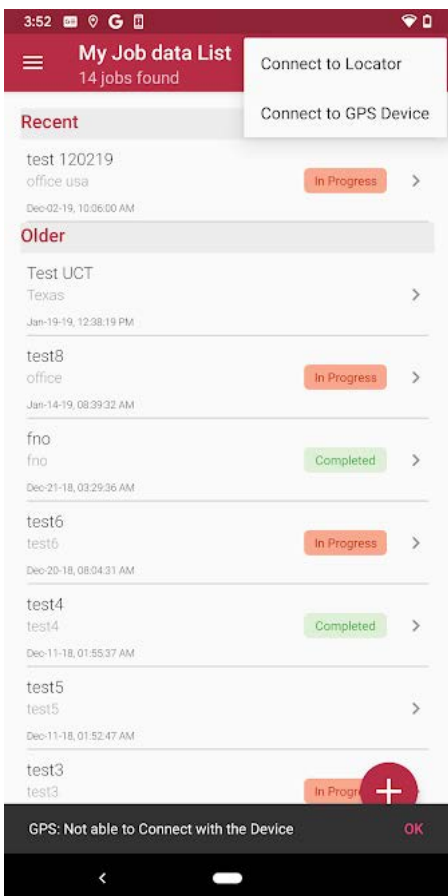
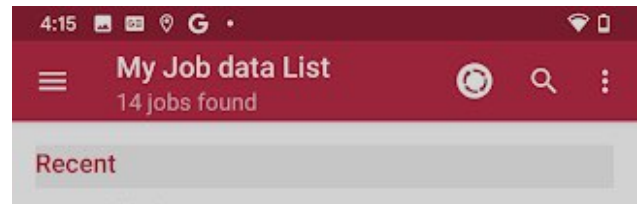
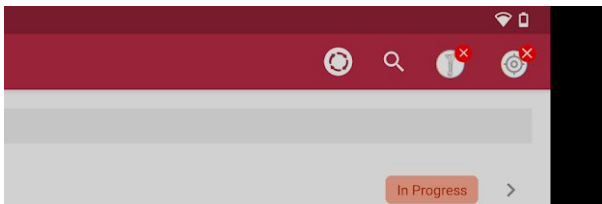
**(Note)** If you have paired with another locator, please unpair before pairing to the new receiver. If you're using the UMaps GPS Module,





## Connect locator to UMmaps App

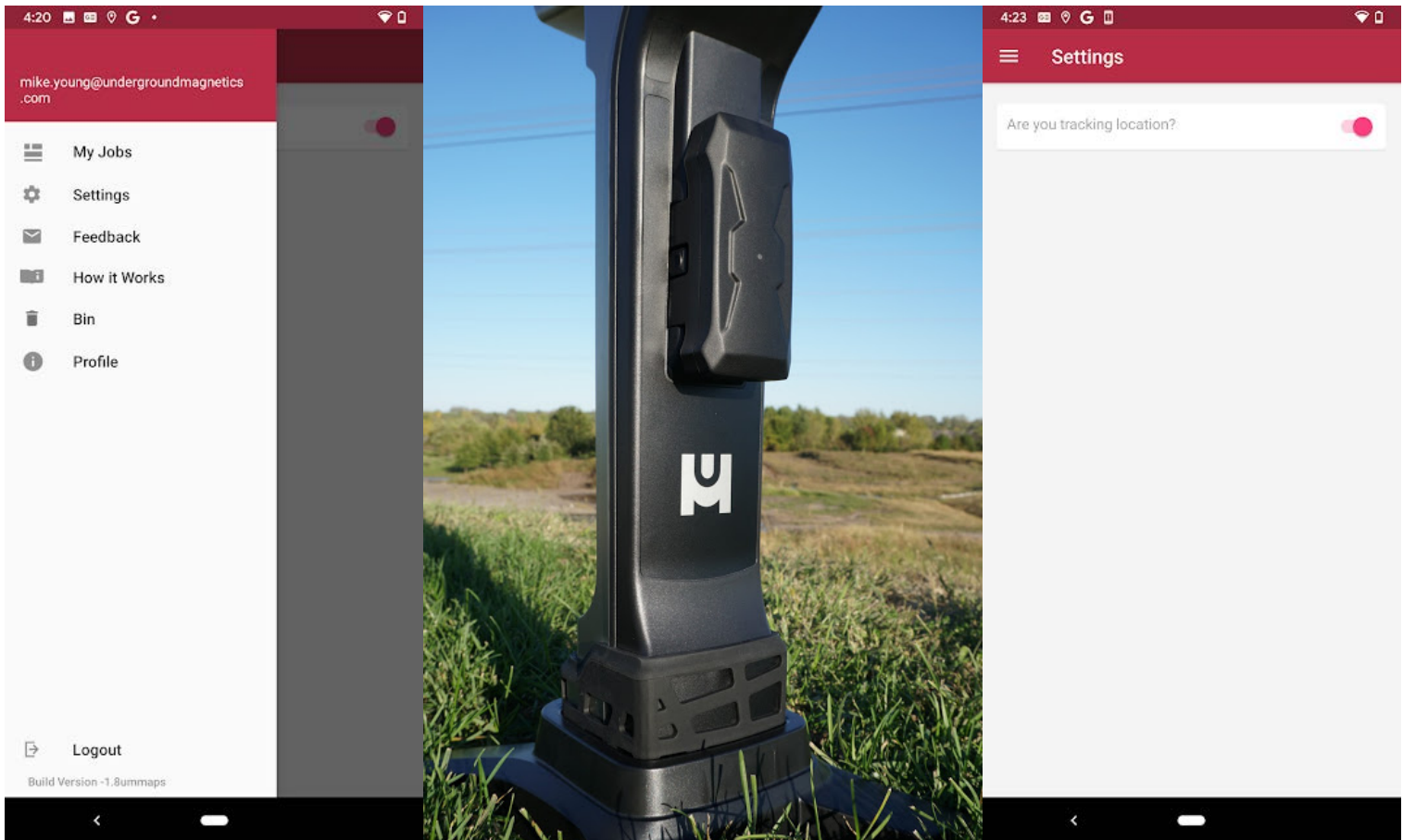
To connect your locator to the UMmaps App, open your app and log in. Depending on the device you are using, in the upper right hand corner of your screen you will see either three dots or the Bluetooth icon with a red X indicating that the Bluetooth is not connected. If you are using the UMmaps GPS Module you will see this icon as well. Tap on the icon and look for your receiver serial number, tap that and once your Umag receiver is connected, you will see a green check mark. Your receiver is now connected to the app.





## Set GPS Preferences

UMmaps is capable of providing GPS data from our GPS Module pictured below. To set the GPS preference in the app, from the jobs page tap the drop down menu in the upper left hand corner and tap on Settings. To enable Google map view, select tracking location. Turn tracking off if not using GPS Module. The GPS Module will give accuracy up to 3'. Note: For more accurate GPS data, Underground Magnetics offers a precision GPS version which requires an additional base station. Contact your dealer or UM for more details.

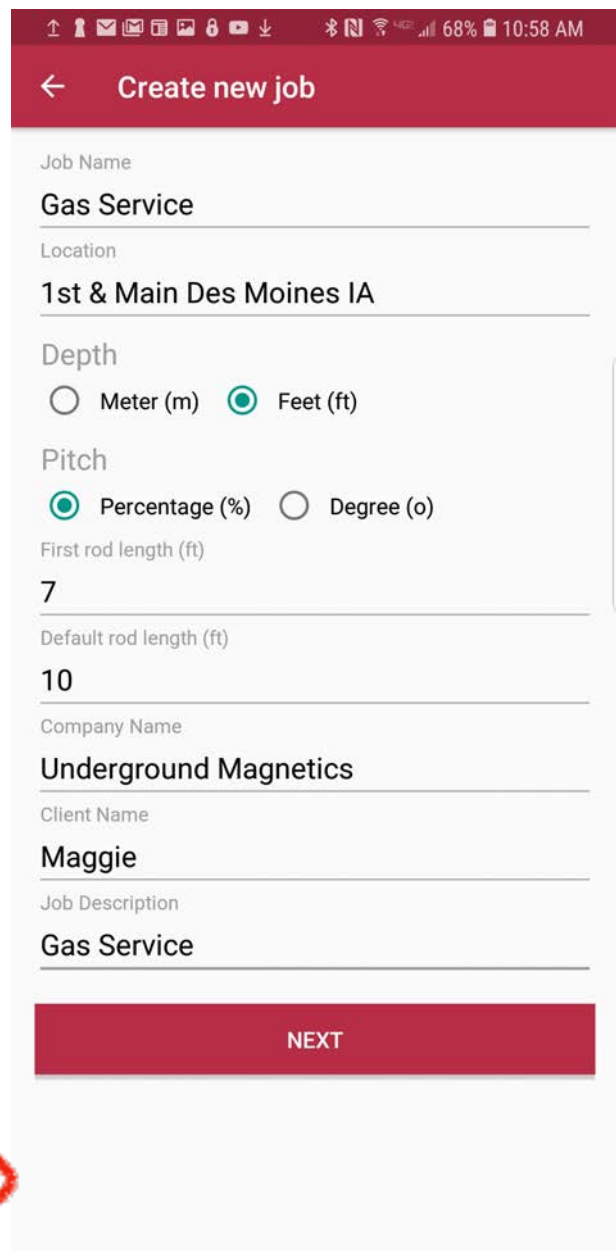
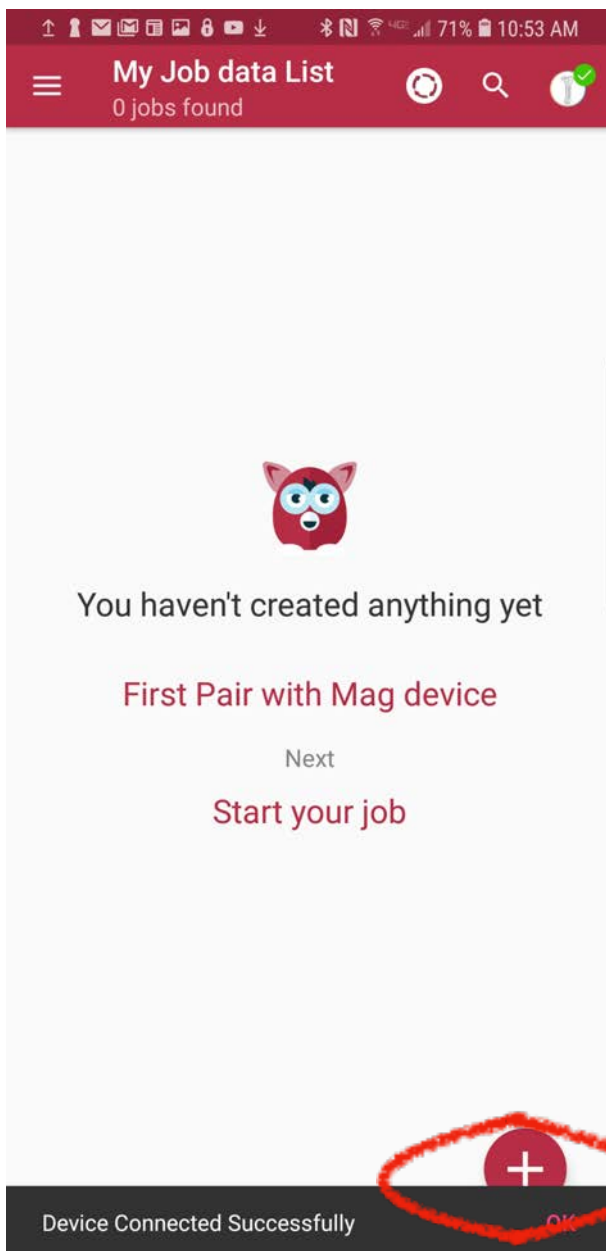






## Create a Job

To create a job, tap the + symbol at the bottom right. Fill in all the data and choose your depth and pitch preference. The first rod length is the distance left on the first drill rod after the housing is half way in the ground. **(Note)** For most drills with 10 ft drill pipe, the remaining length on the first rod is approximately 7 ft. For the most accurate data, measure from the center of the break-out wrenches back to the drive-chuck. Default rod length is the length of your drill pipe.





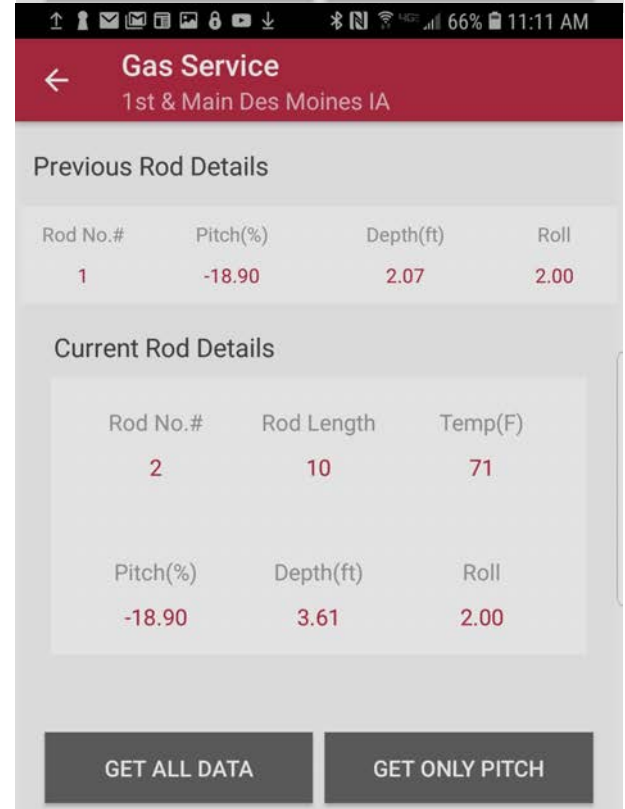
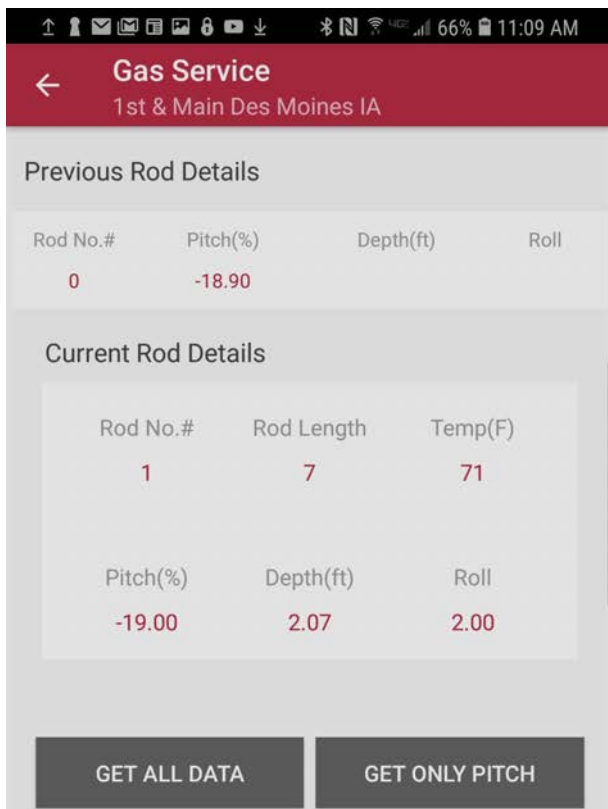
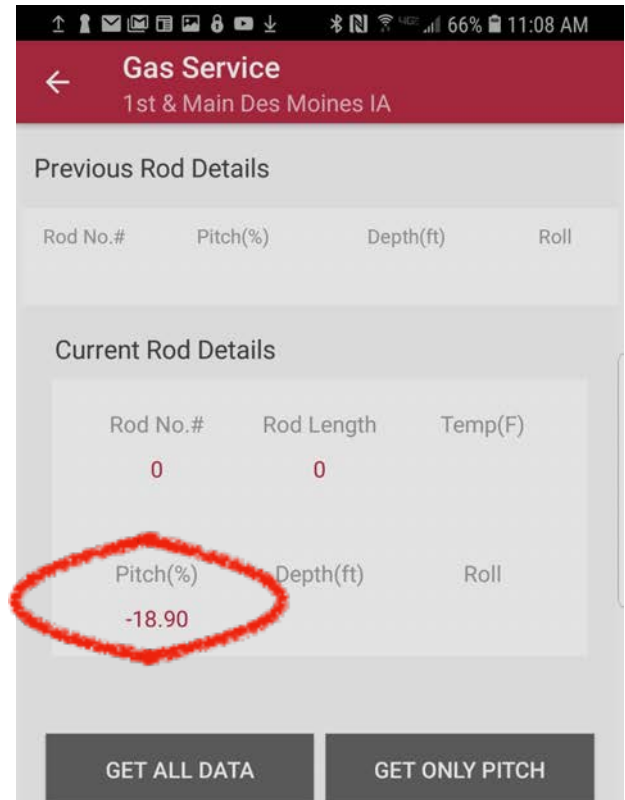


## Record Data

To record data, make sure you are receiving data from the locator. If you don't see pitch data on Rod 0, go back and reconnect Bluetooth until pitch is displayed.

Rod 0 will be taken when the transmitter is halfway in the ground. Record pitch only for Rod 0.

Drill the first rod the rest of the way and locate the center of the head, record Rod 1 by pressing "Get All Data". Repeat this process throughout the bore. **(Note) If you are unable to record data over the head, record**





## Edit Data

At any time during the boring process, you may edit any rod that was recorded. Press the back arrow to see your RodWise View. Press any pencil icon to make edits and then press **OK**.

To delete the last rod, simply click the **X** on the last rod recorded. If you need to pull back several rods, make note of the number of rods and delete those rods by pressing the **X**. Start recording again by pressing **Add New Rod**.

To continue recording, press the **Add New Rod**.

The screenshots show the 'Gas Service' app interface. The main screen displays a table of recorded rods with columns for Rod#, Pitch(%), Depth(ft), Temp(F), and Roll. A red circle highlights the pencil icon for editing a rod. Another red circle highlights the 'X' icon for deleting a rod. A third red circle highlights the 'OK' button in the 'Edit Rodwise Details' dialog box.

Rod#	Pitch(%)	Depth(ft)	Temp(F)	Roll
15	17.50	1.21	71	1.50
14	17.50	2.26	71	1.50
13	8.00	3.51	71	1.00
12	8.00	4.49	71	1.00
11	0.70	5.64	71	0.50
10	0.70	5.68	71	0.50
9	0.60	5.64	71	0.50
8	0.70	5.68	71	0.50

**Edit Rodwise Details**

Pitch  
8.00

Depth  
4.49

Temp  
71

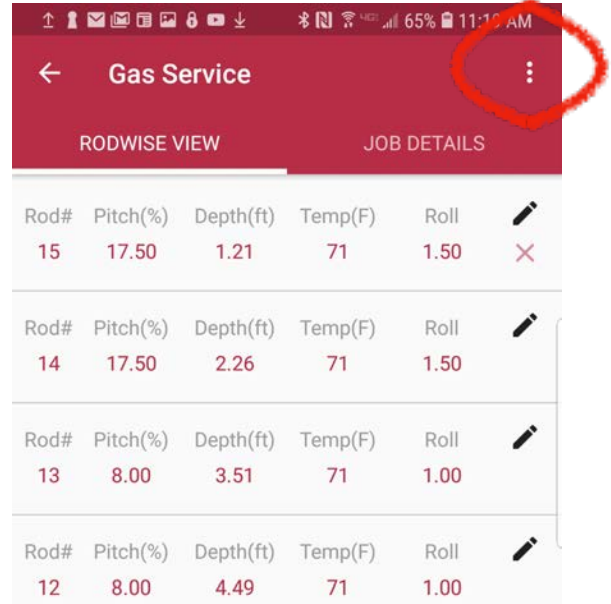
Roll  
1.00

CANCEL OK



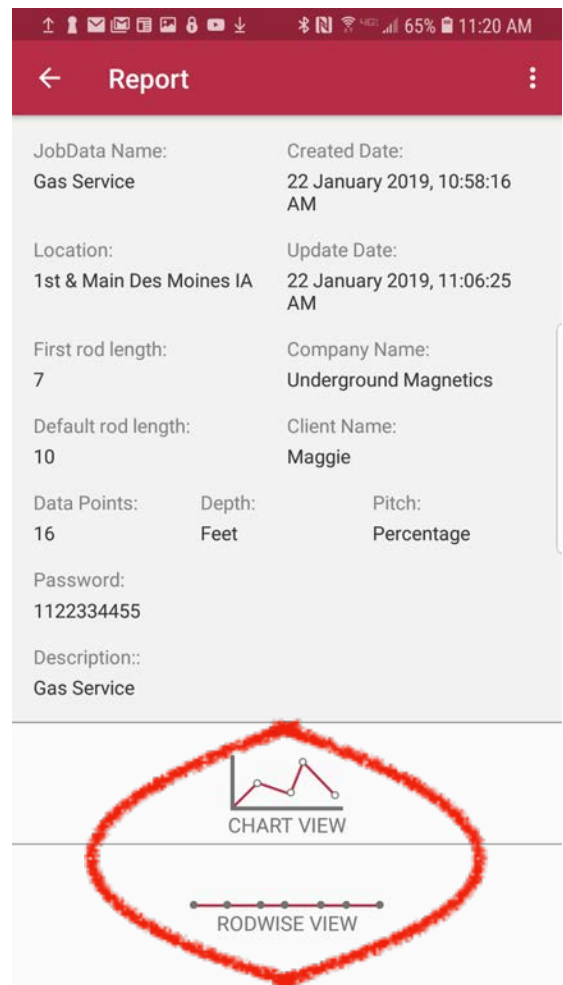
## Generate a Report

To generate a report, from the RodWise View, tap the drop down dots in the upper right hand corner of the screen and tap "Generate Report". You will see the report screen and now you're able to view the Chart View and RodWise data in report format. Tap on Chart View or RodWise to view data. (Page 10)



Rod#	Pitch(%)	Depth(ft)	Temp(F)	Roll	
12	8.00	4.49	71	1.00	
11	0.70	5.64	71	0.50	
10	0.70	5.68	71	0.50	
9	0.70	5.68	71	0.50	

- Save
- Generate Report
- Delete





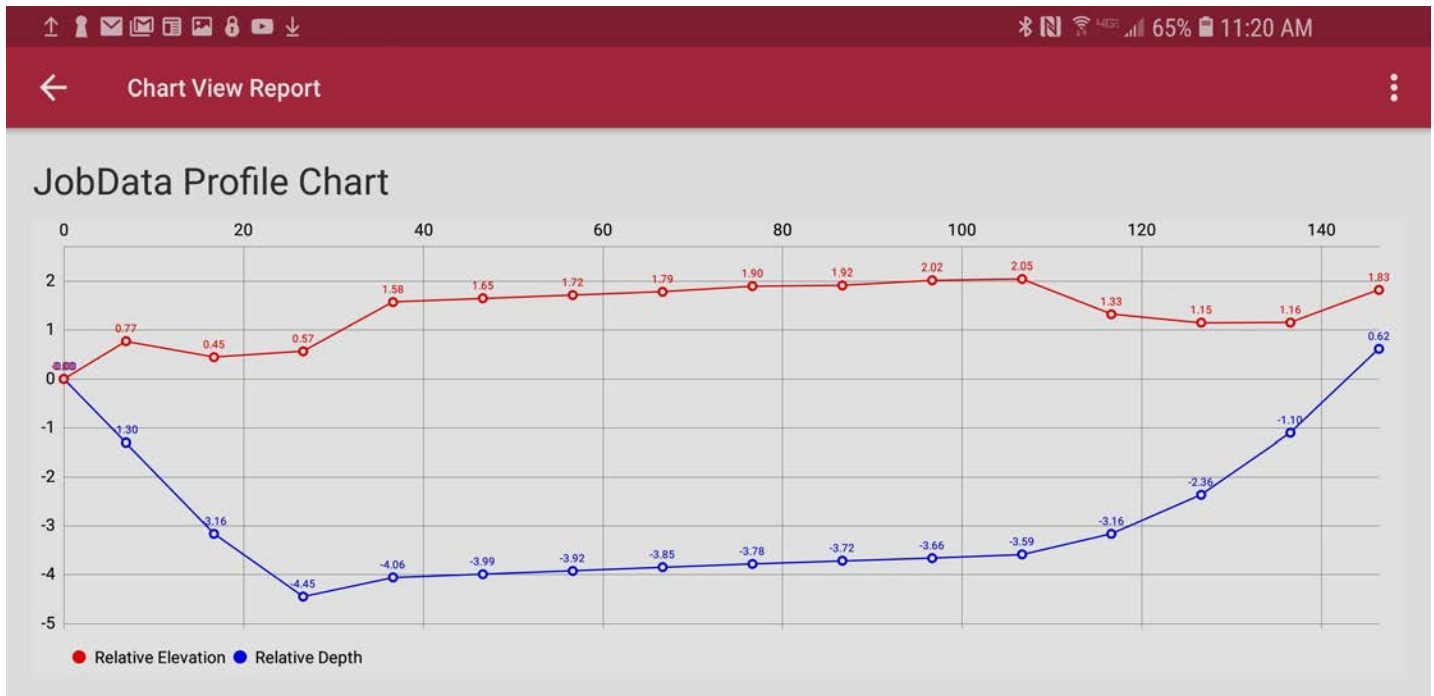
# View RodWise Data

↑ 🔔 📧 📁 📷 🔒 📺 ↓ 📶 📶 📶 📶 65% 11:21 AM

← Rodwise View Report

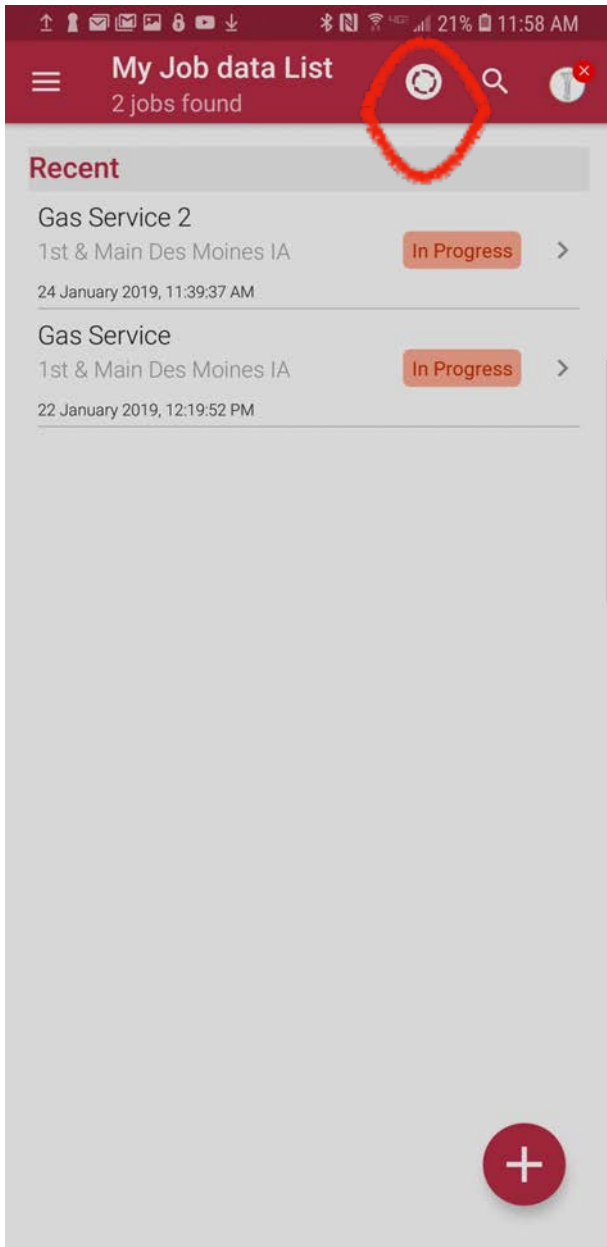
### Rodwise Data Points

Rod no.	Rod len.	Bore len.	X-Dist.	Avg. Pitch(%)	Rel. Depth	Depth(ft)	Rel. Elev.	Date
0	0	0.00	0.00	-18.90	-0.00		0	22 Jan 19, 11:08:23 AM
1	7	7.00	6.88	-18.90	-1.30	-2.07	0.77	22 Jan 19, 11:08:49 AM
2	10	17.00	16.71	-18.95	-3.16	-3.61	0.45	22 Jan 19, 11:10:58 AM
3	10	27.00	26.63	-13.05	-4.45	-5.02	0.57	22 Jan 19, 11:11:19 AM
4	10	37.00	36.62	3.90	-4.06	-5.64	1.58	22 Jan 19, 11:14:10 AM





## Offline Data Sync



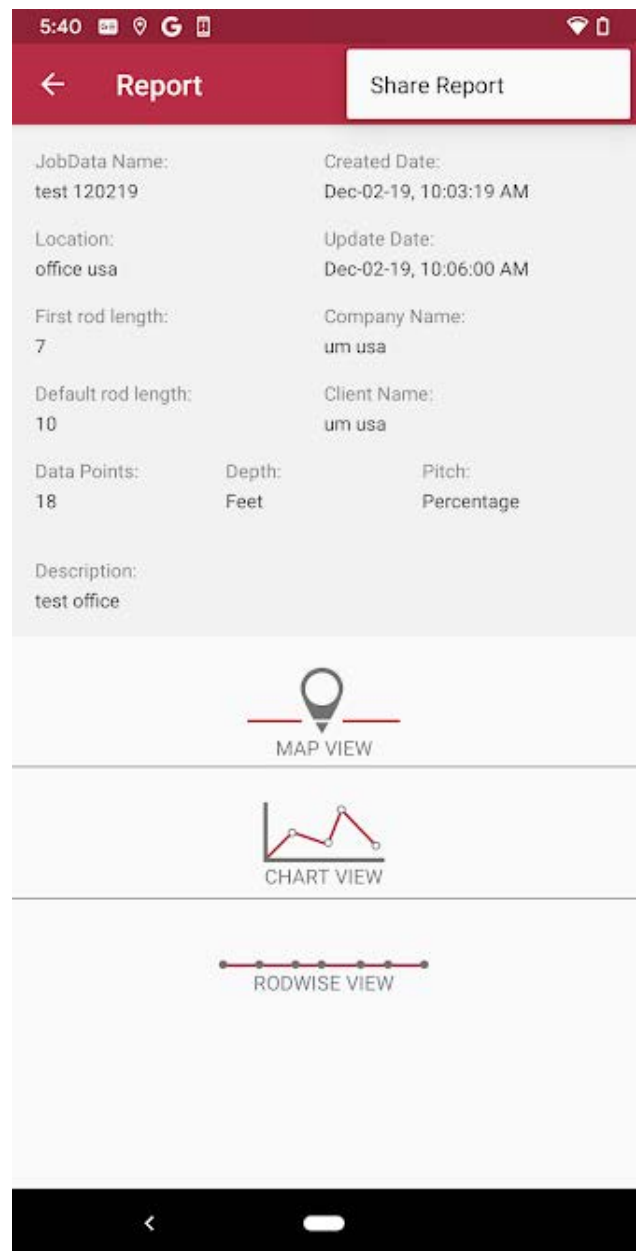
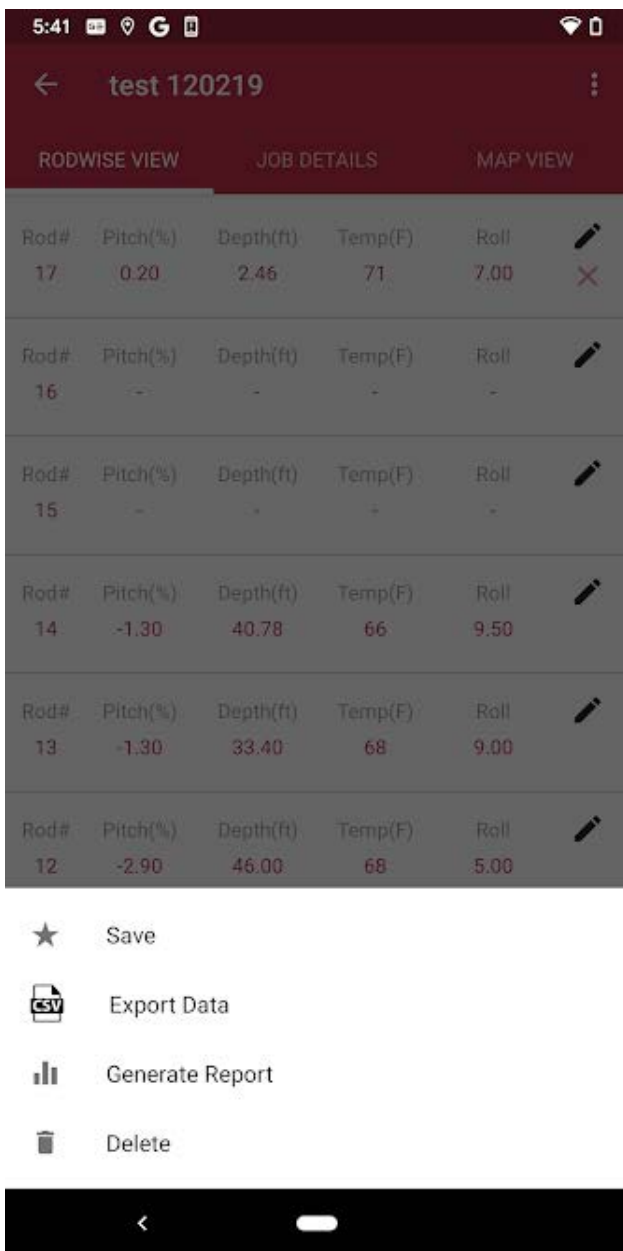
UMmaps will record data and store that data offline in the device if Wifi or cell service is not available. Once an internet connection is available, you will need to sync the data stored in the device to view it on the UMmaps website.

To sync data from your device, make sure you have wifi service, tap on the sync icon at the top of the jobs list screen. Your data will now be available for viewing online.



## Share Report in PDF or CSV Format

To share a report in PDF or CSV format, tap on the drop down menu upper right corner. For PDF sharing, tap Generate Report then tap drop down menu and press Share Report. To share a CSV formatted report, tap Export Data.

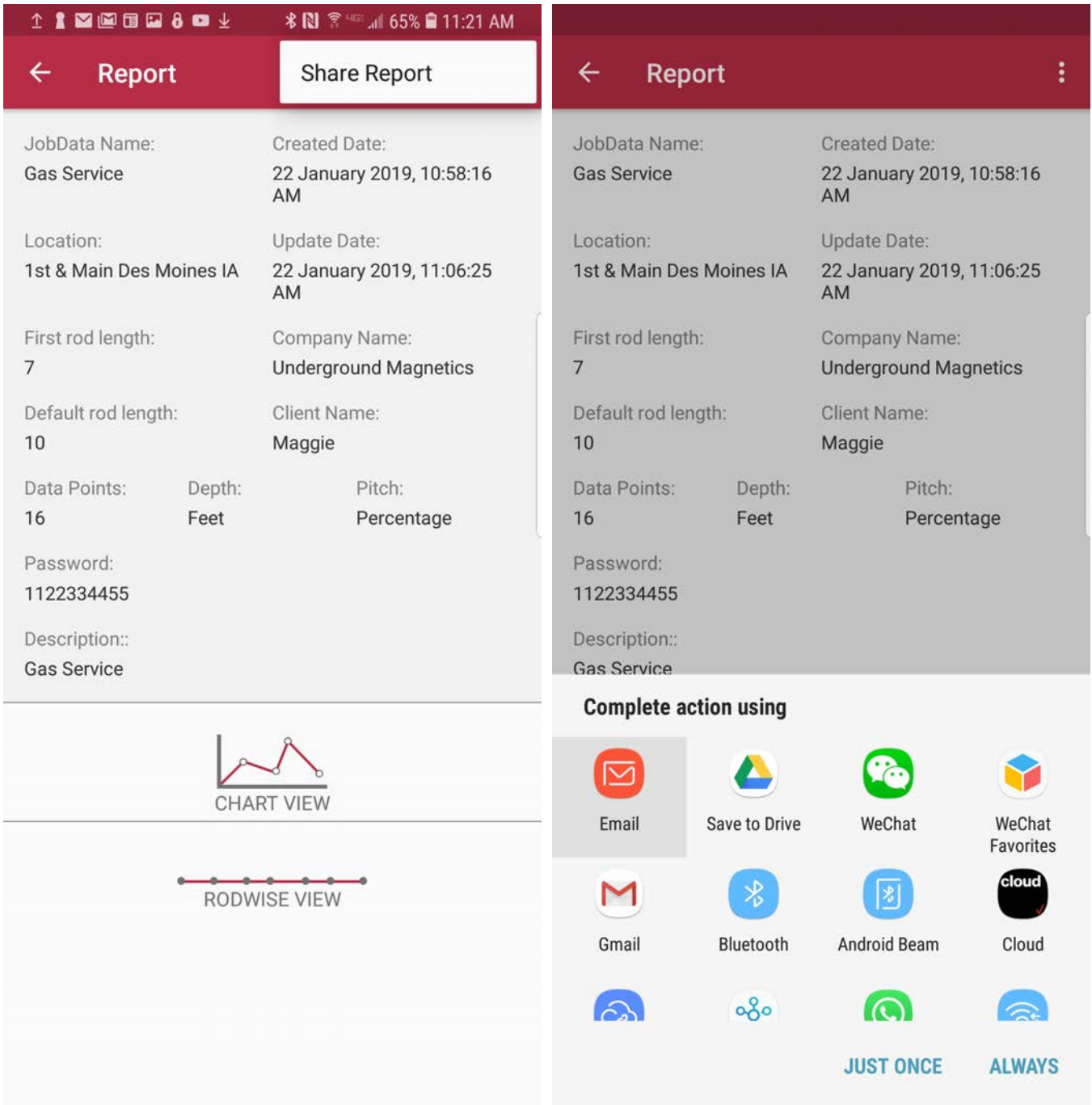






## Share Report PDF

In the report screen, tap the drop down dots in the upper right hand corner and press “Share Report”. Select which format to send the report.







## View Realtime Data in the Cloud

During the logging process, if the device being used has internet capability, any authorized user may login to the UMaps website and view data in realtime. Open UMaps at [www.ummags.com](http://www.ummags.com) and login. You will see the jobs in progress. Tap on View and the data recorded will be available. Refresh your screen to update data.

Realtime Bore log data using Mag locators

It's a more complete process that leverages technology and information to give you clear bore log data, simple to use, and faster reporting for more productive jobs.

Download app

Simple Login view the jobs

maggie@undergroundmagnetics.com

.....

Login

Forgot Password

Mobile Bore Recording App

Underground Magnetics UMaps app works with your Android™ mobile device or tablet, allowing you to record rod by rod information such as roll, pitch, depth, temperature. UMaps eliminates the manual recording of bore log data. Through UMaps website owner can view the drill job from his computer by logging into the website from home or office in

Borelog Job List

Search by Job Name

Job Name	Location	Company Name	Client Name	Date & Time	Status	Action
Gas Service	1st & Main Des Moines IA	Underground Magnetics	Maggie	Jan 22nd 2019, 12:19:52 pm	In Progress	View

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## Save Jobs

To save a completed job, tap on the drop down dots in the upper right hand corner of the screen and tap “Save”. The job will be saved and will now show completed. All data from jobs in progress will be available to record additional data and editing until saved. No data is lost unless the delete button is selected

Rod#	Pitch(%)	Depth(ft)	Temp(F)	Roll
15	17.50	1.21	71	1.50
14	17.50	2.26	71	1.50
13	8.00	3.51	71	1.00
12	8.00	4.49	71	1.00
11	0.70	5.64	71	0.50
10	0.70	5.68	71	0.50

My Job data List  
1 jobs found

Recent

Gas Service  
1st & Main Des Moines IA  
22 January 2019, 11:33:44 AM

Completed