


## Log While Drilling





Electronic Data Storage for HDD Bores

- Create electronic data with a walkover locating system
- Includes the ability to log bore profile, existing service location, specific job site features, and gps position
- View, edit, upload from multiple devices / platforms
- Produce professional 'as built' documentation in pdf form to share with clients

The most versatile locating system on the market



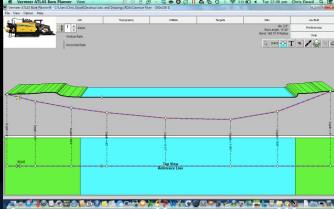
## Multiple Applications


- Monitor data live during the HDD Pilot Bore
- Transfer data to a PC for editing
- Transfer data to a Mobile Device for instant access
- Store data in the Cloud

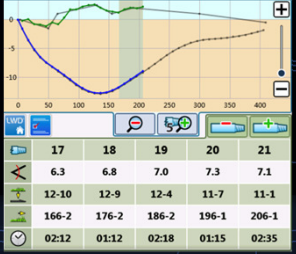
## Log While Drilling

- Traditionally there has always been electronic pre bore planning to guide the drill from entry to exit
- Walkover locating systems have had integrated logging capabilities for years
- The industry has accepted manual logs for many years.
- Ease of use, ease of data transfer, and accurate bore positioning now make LWD more accessible.



## Real Time information during the bore





	17	18	19	20	21
	6.3	6.8	7.0	7.3	7.1
	12-10	12-9	12-4	11-7	11-1
	166-2	176-2	186-2	196-1	206-1
	02:12	01:12	02:18	01:15	02:35

## Log While Drilling



- As the operator is working, the live bore hole data is displayed on the screen
- This is done with a few simple commands on the display screen
- Has the ability to incorporate a pre bore plan, showing the desired profile, and existing utilities.
- Shows all relevant information
  - Tool location, depth and distance
  - Jobsite topography
  - Pitch and depth
  - Tool angle and inclination
  - Time per rod

## Log While Drilling

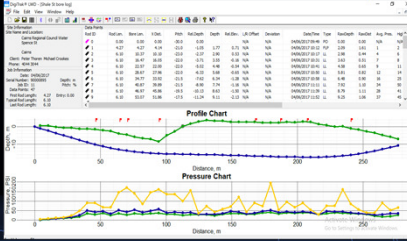


- LWD Stores the data provided by the F5 Receiver
- User has a simple Interface in order to log required information
- Transferred to a PC via Bluetooth
  - Jobsite specific features can be added, roads, rail, river etc....
  - Where it can be edited, shared and stored



## Log While Drilling

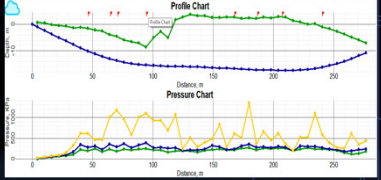
- Dedicated SW Suite to download, view, edit and share data
- File automatically generated to view gps position of bore in Google Earth
- Data store on local computer, or in the cloud for ease of access.



## Log While Drilling

### Electronic Data Storage for HDD Bores

- With no additional work during the bore, the operator can produce professional reports
- Data provided includes
  - Drill Head Depth and pitch
  - Bore length
  - Jobsite Topography
  - Bore gps location
  - Bore Hole fluid pressure
  - Record POI's along the way



### LWD iGPS

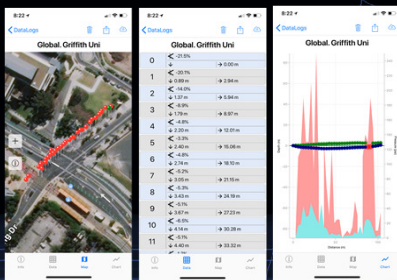


### LWD iGPS



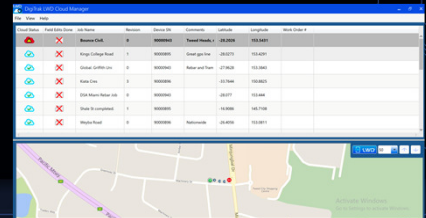
- Using the Google Platform, easily see multiple bore locations, zoom in rod by rod, or see the entire project
- Share data with clients immediately at completion of Pilot Bore
- Can be viewed on multiple platforms

### LWD Mobile App



- Transfer Data directly to mobile device
- Edit, then upload to the Cloud
- Historical records stored in your pocket

### LWD Cloud Manager



- Mobile device data stored here
- Accepts files from multiple devices
- Accessible from anywhere

# Log While Drilling

Multiple Applications



- Four applications to keep Drill Data always at your fingertips
- Manage multiple rigs from one location
- Share professional reports with clients