TLC 2D PROFILING SOFTWARE

Running on Pocket PC2003
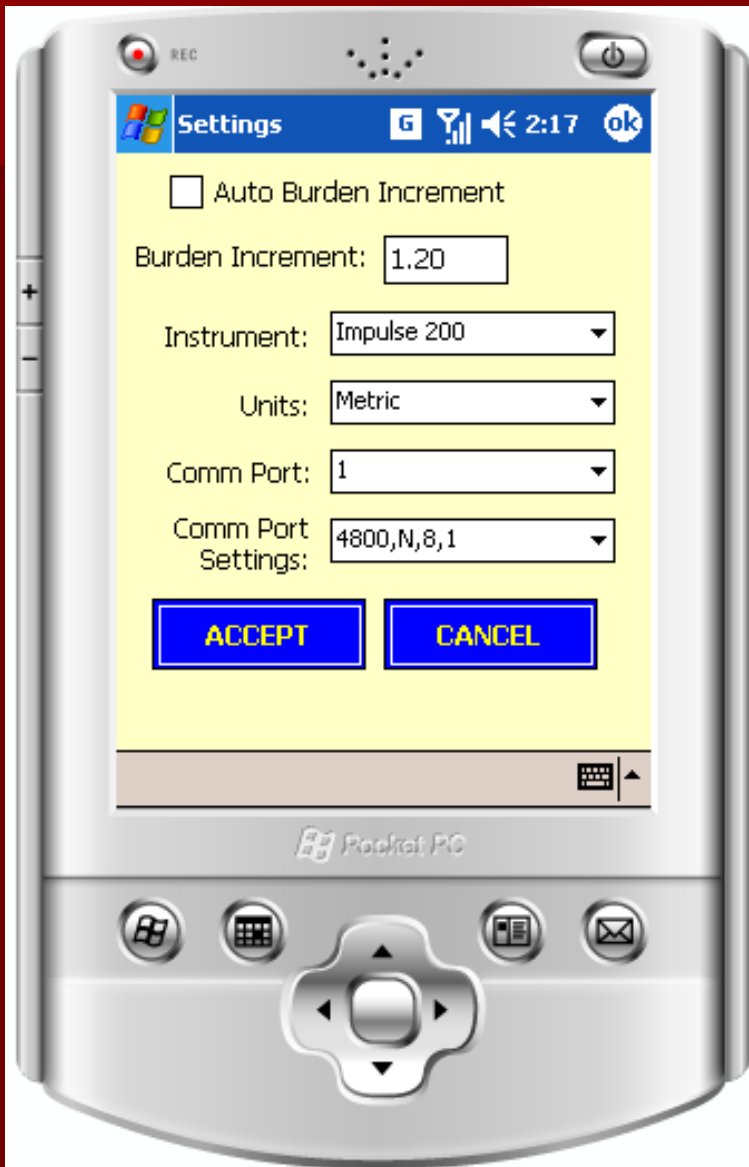Windows Mobile 5

Windows CE Devices

TLC2D PROFILE APPLICATION – MAIN SCREEN
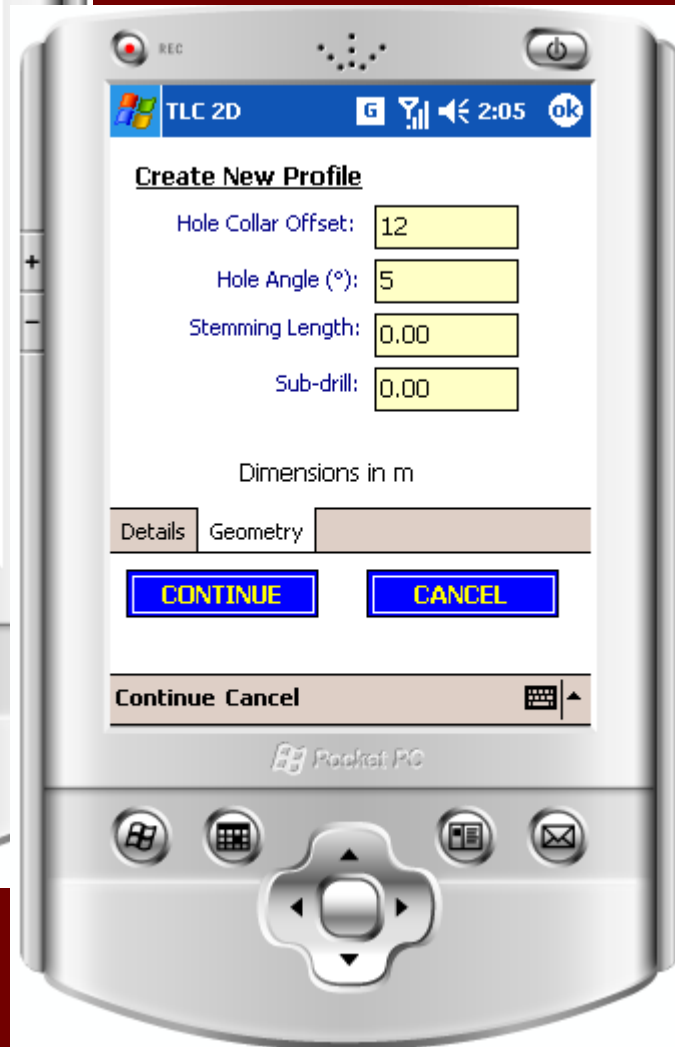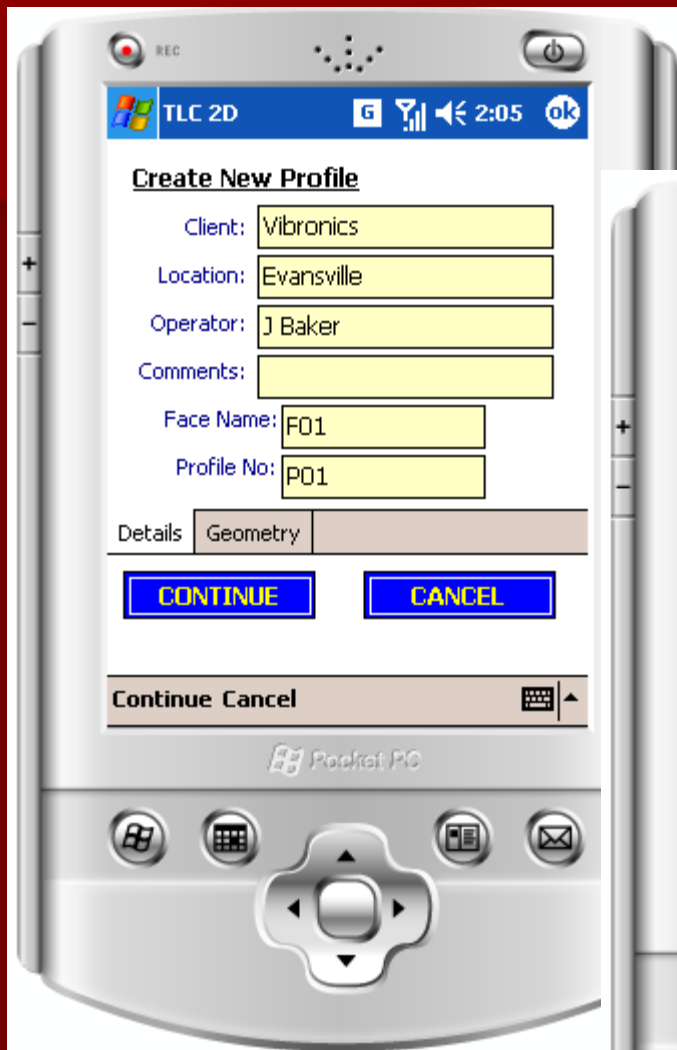
Settings…

- Supports different lasers:
  - Impulse 200
  - Laser Atlanta
  - Burden Ace 300, Quarryman II
- Automatic conversion between metric and imperial units
- Burden calculation parameters
- Serial Communications parameters (including bluetooth serial ports)

Creating (Surveying) A New Profile

- Define client
- Define Face and Profile
- Borehole offset
- Borehole Angle
- Stemming
- Sub-Drill

Typical Measurements to be carried out:

To target placed on borehole collar

To Crest

pole

Additional Measurements

To Toe
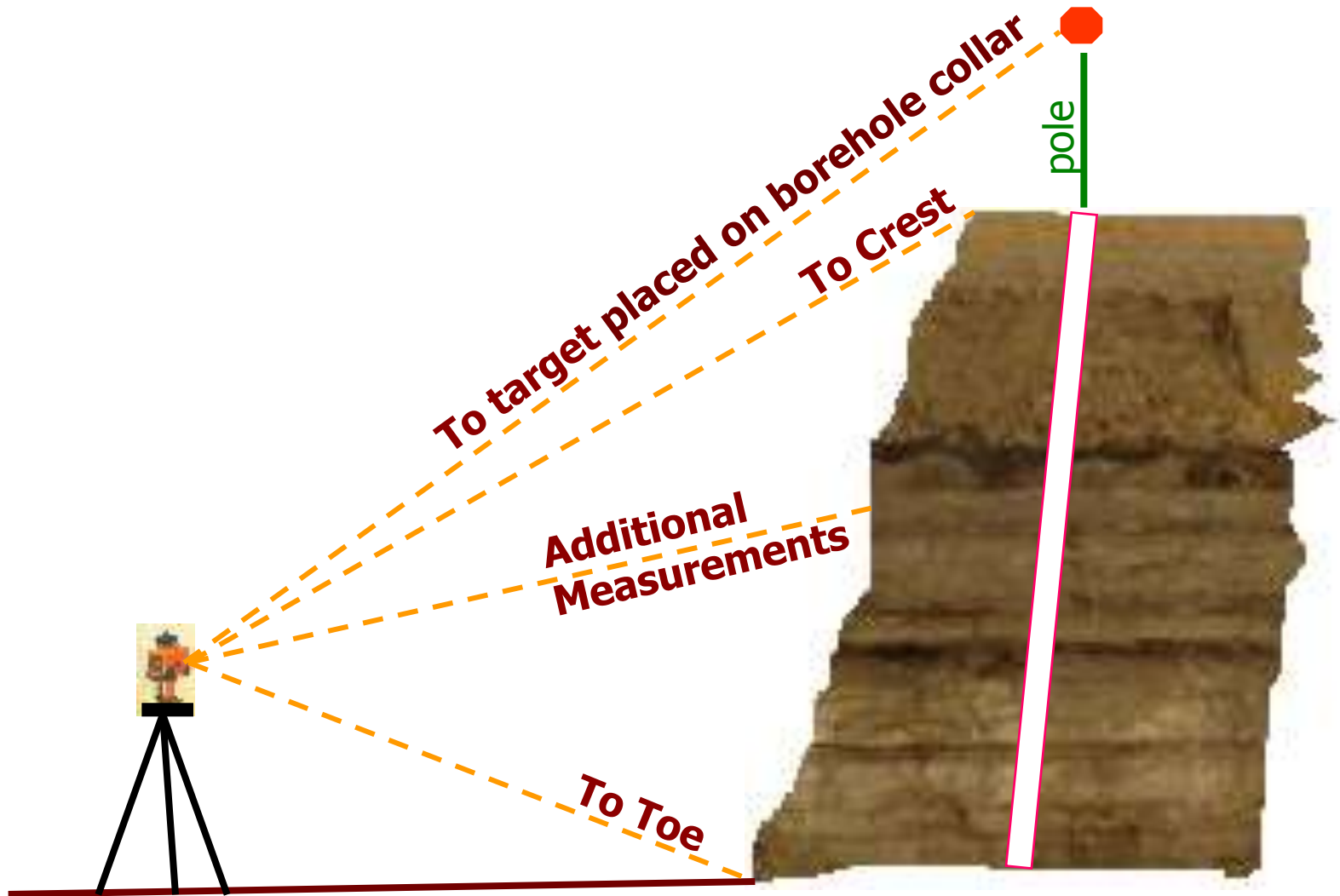
Shoot CREST Observation…

**Repeat measurement until satisfied. Then press CONTINUE**

Shoot TOE Observation…

**Repeat measurement until satisfied. Then press CONTINUE**

Shoot Borehole Collar

- This option can be used to determine the position of the borehole on the profile, and thus determine the horizontal collar offest.

- If the user does not want to shoot the borehole collar, just press continue and the value that was entered initially will be used
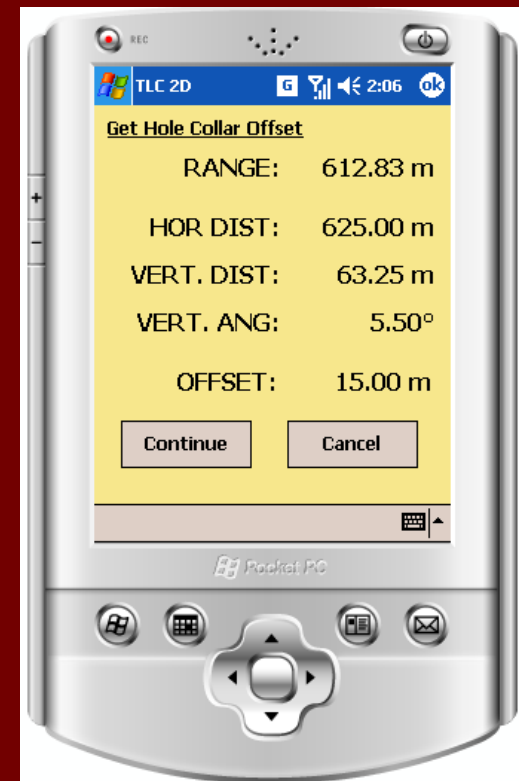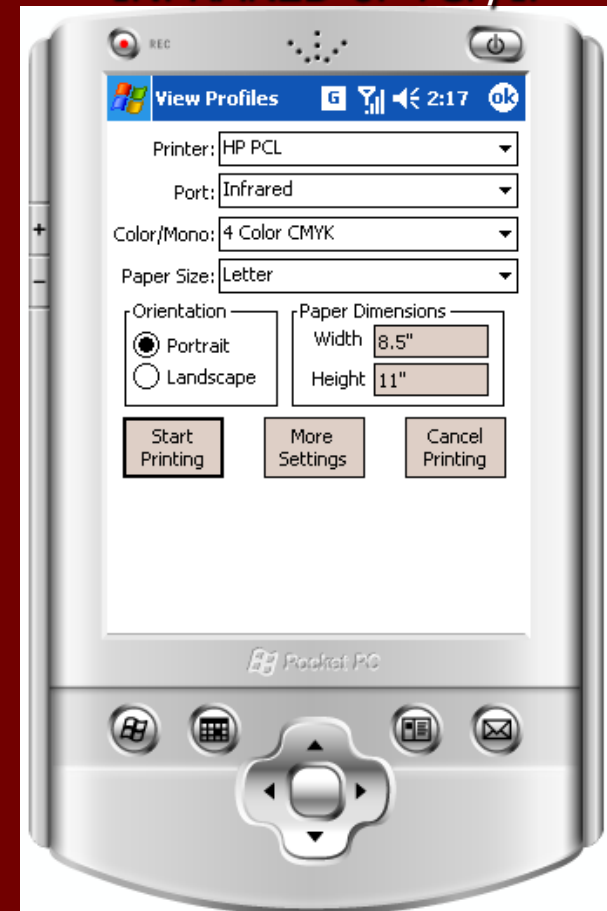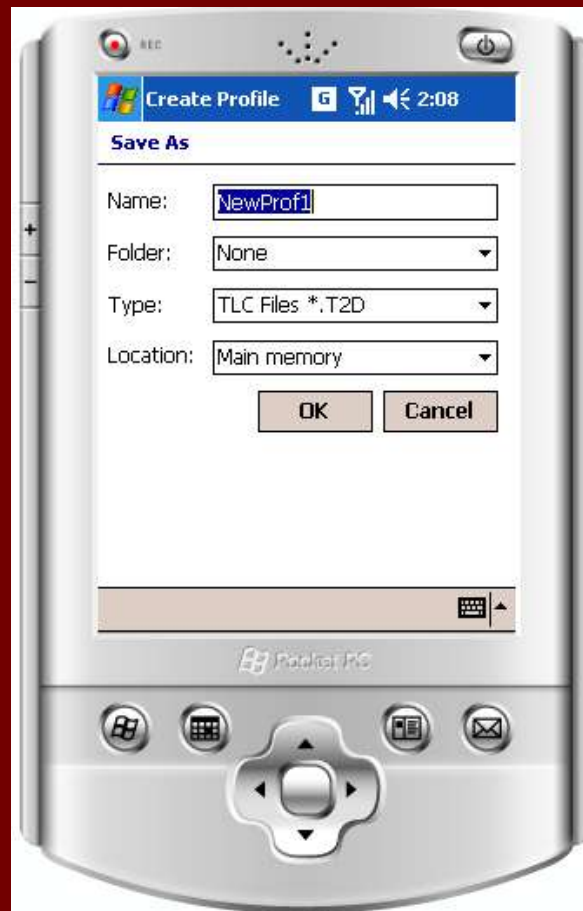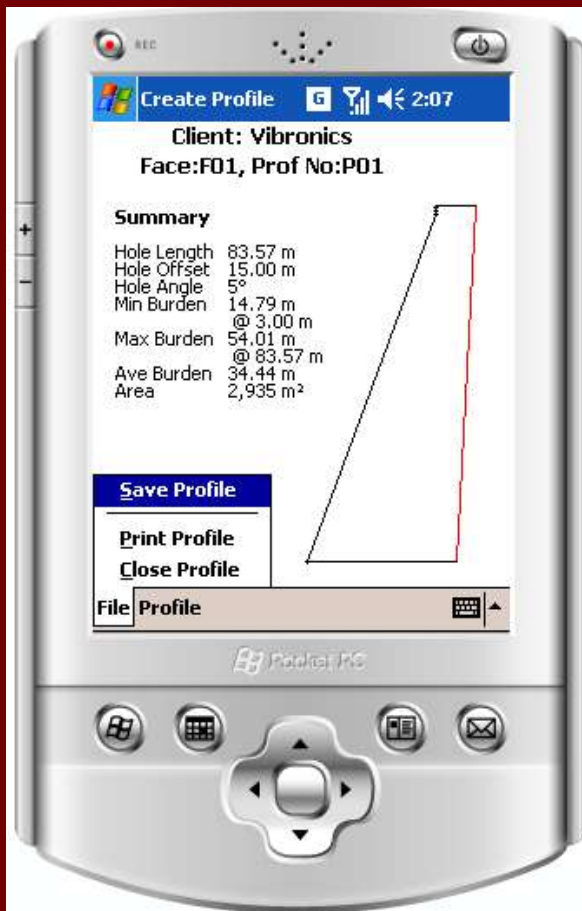
Shoot Observations on FACE…
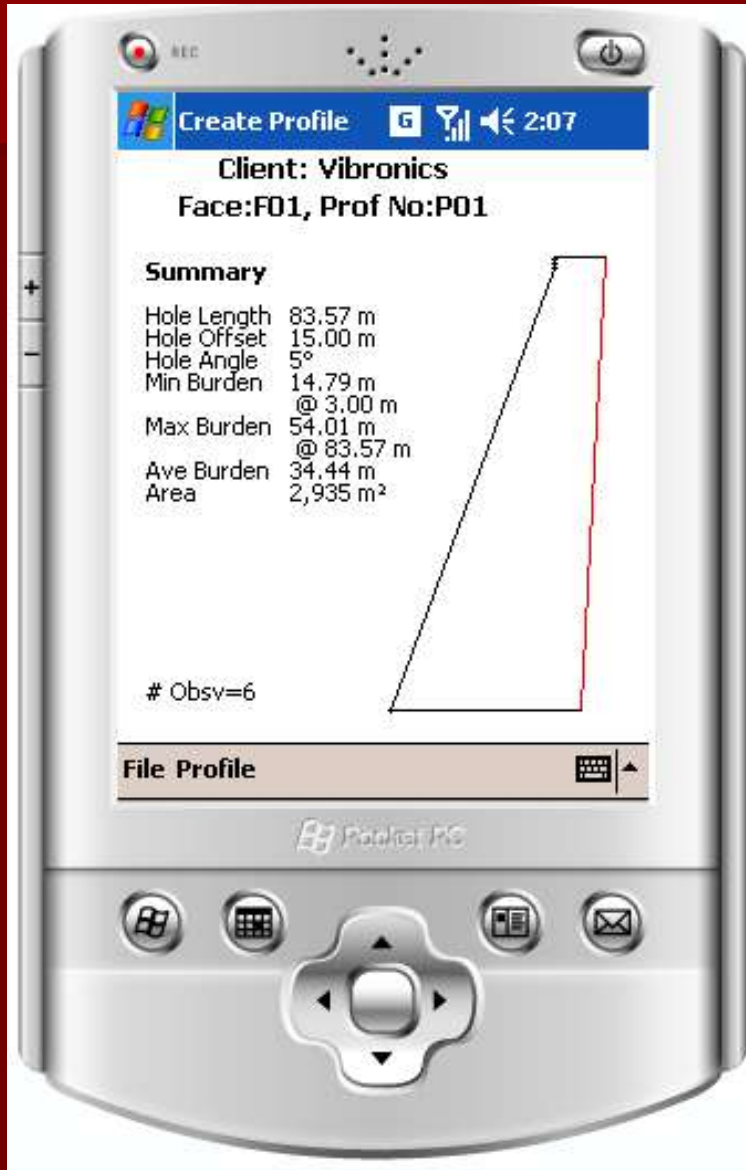
- Data points are automatically sorted according to elevation
- New toe and/or crest values automatically calculated
- Burden data calculated according to burden depth increment
- Profile area calculated
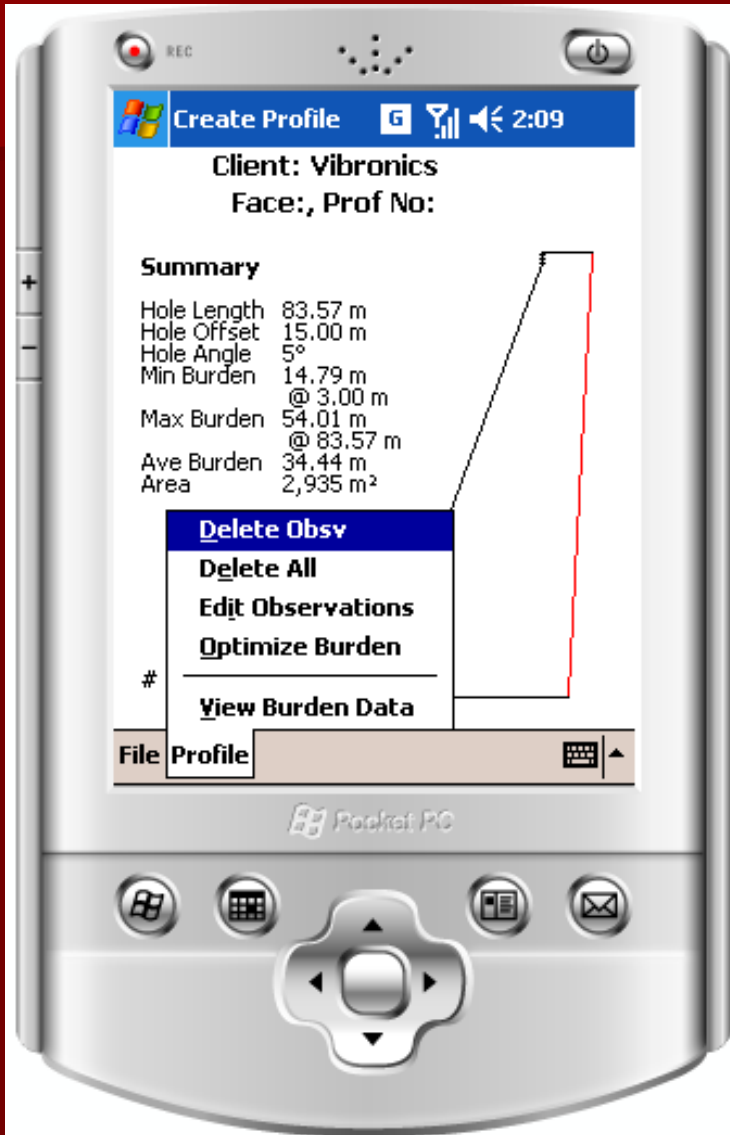
Options on CREATE function..

- SAVE PROFILE
- PRINT PROFILE

- Stored as ASCII File with extension *.T2D
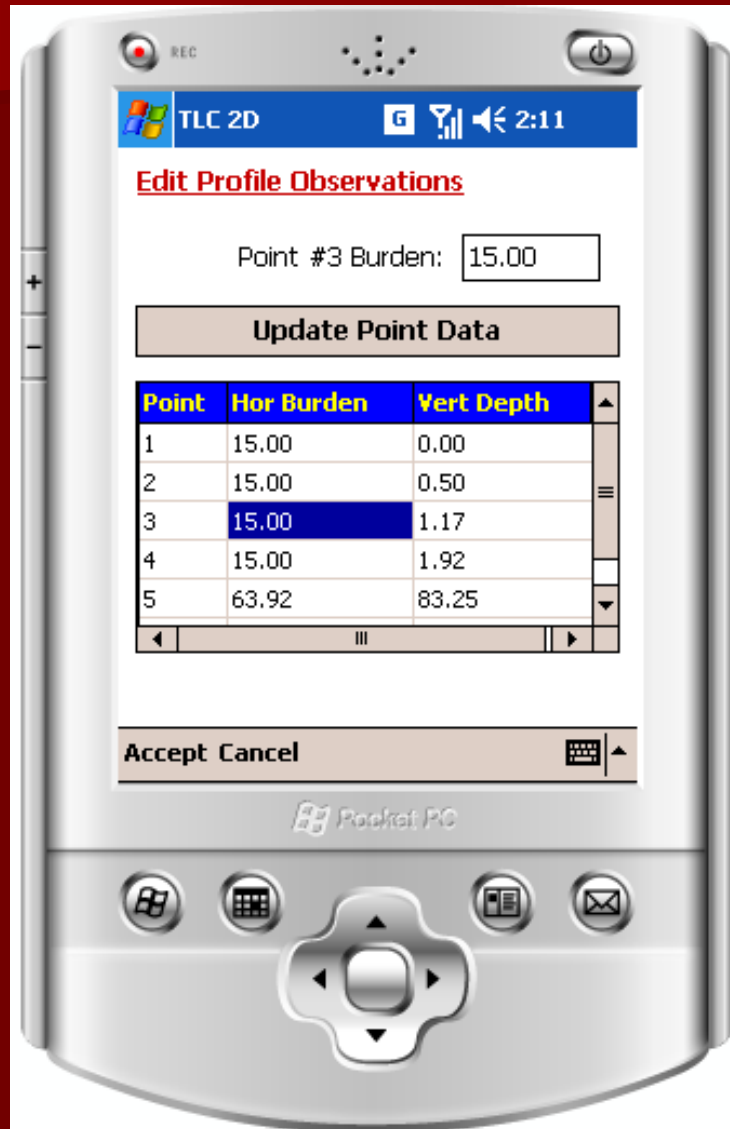
- Printer support via BLUETOOTH, INFRARED or TCP/IP

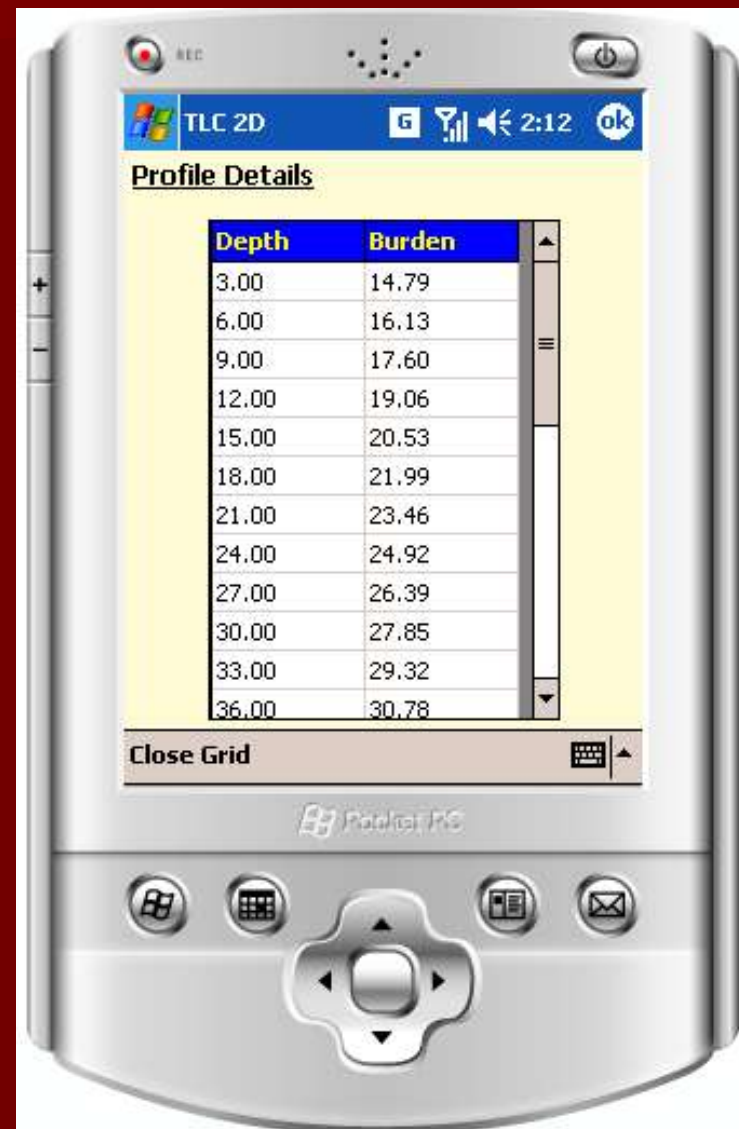# Options on CREATE function (cont…)

- Delete Observation(s)
- Edit observations
- Optimize burden
- View burden data at specified depths

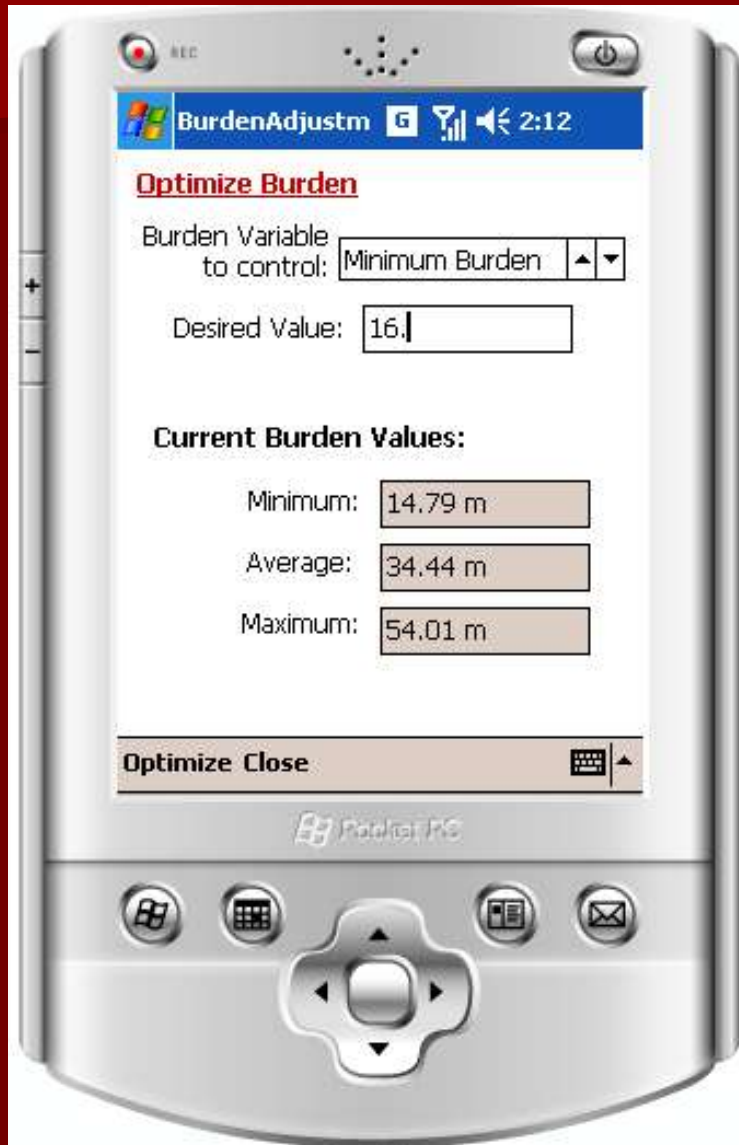# Options on CREATE function (cont...)

- Edit Observations
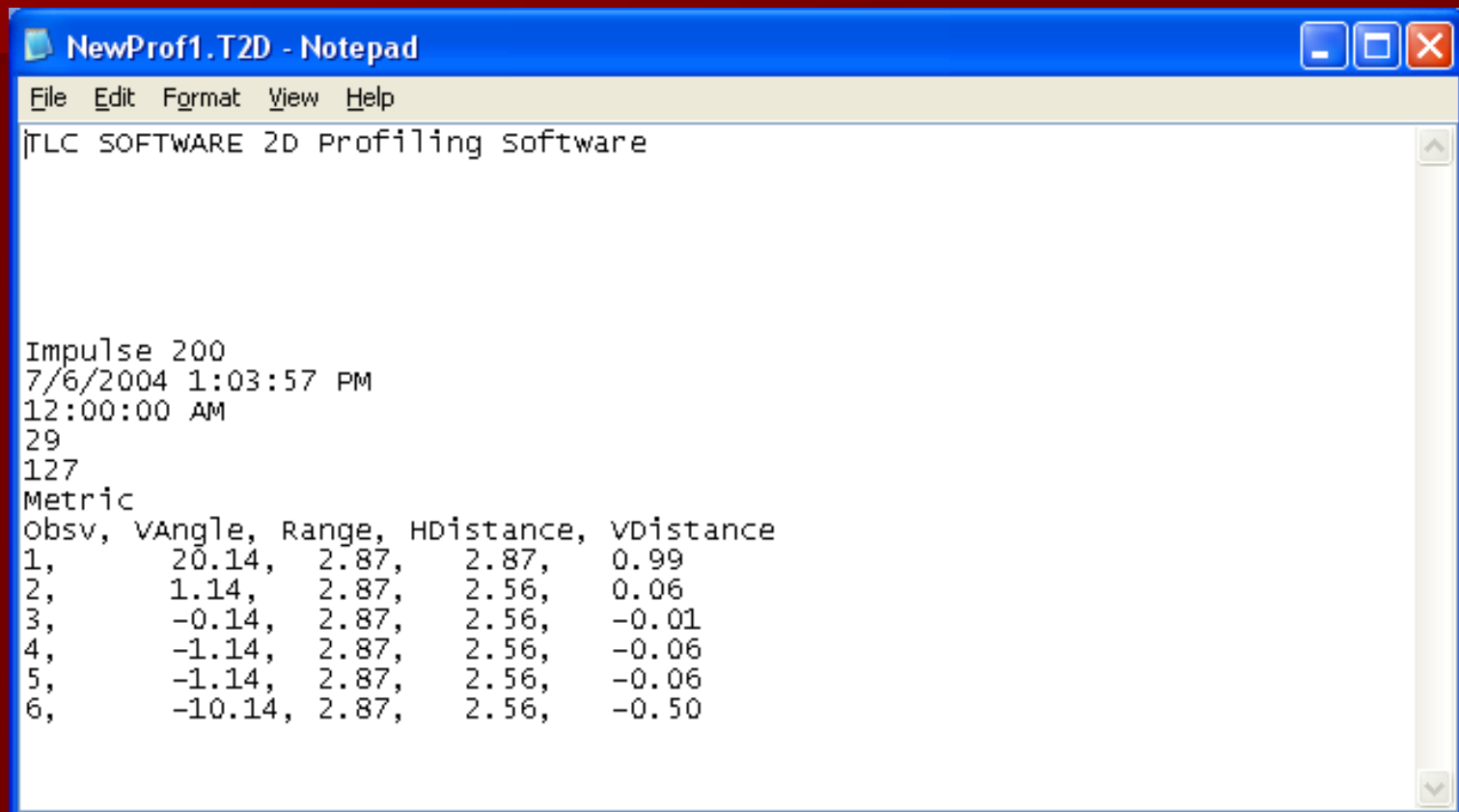

- View Burden Table

Optimize Profile

- Calculates position of borehole collar according required parameter:
- Minimum burden
- Average burden
- Maximum burden

Loading Stored Profiles...

- Profiles are stored with extension (*.T2D)
- File format is ASCII

T2D File Format


```
NewProf1.T2D - Notepad

File  Edit  Format  View  Help

TLC SOFTWARE 2D Profiling Software




Impulse 200
7/6/2004 1:03:57 PM
12:00:00 AM
29
127
Metric
Obsv, VAngle, Range, HDistance, VDistance
1,      20.14,  2.87,    2.87,    0.99
2,       1.14,  2.87,    2.56,    0.06
3,      -0.14,  2.87,    2.56,   -0.01
4,      -1.14,  2.87,    2.56,   -0.06
5,      -1.14,  2.87,    2.56,   -0.06
6,     -10.14,  2.87,    2.56,   -0.50
```
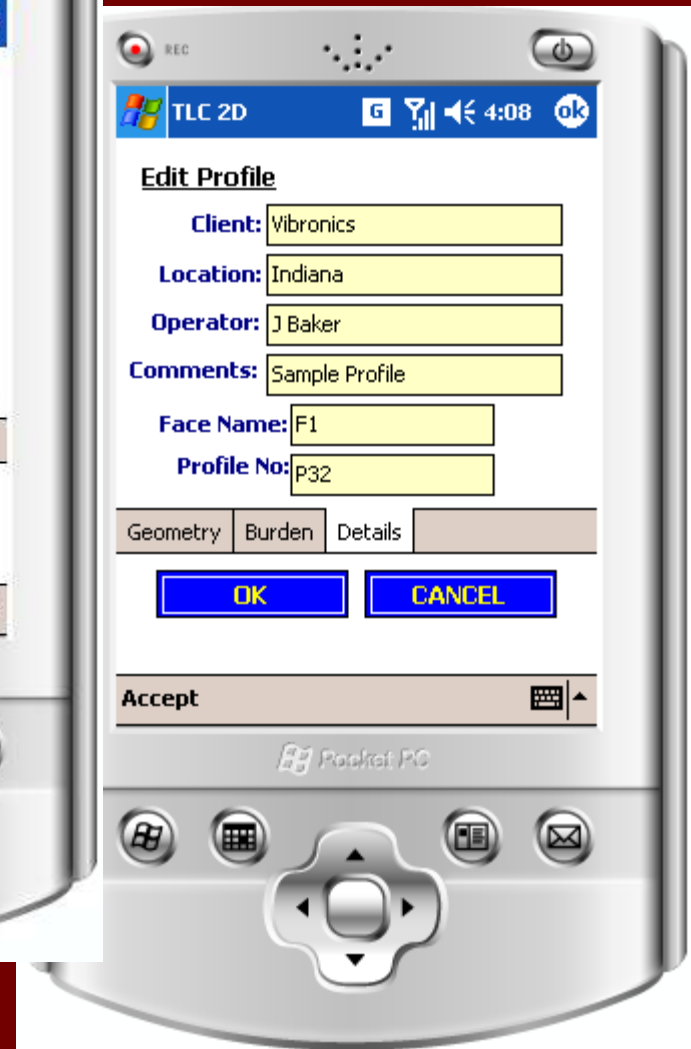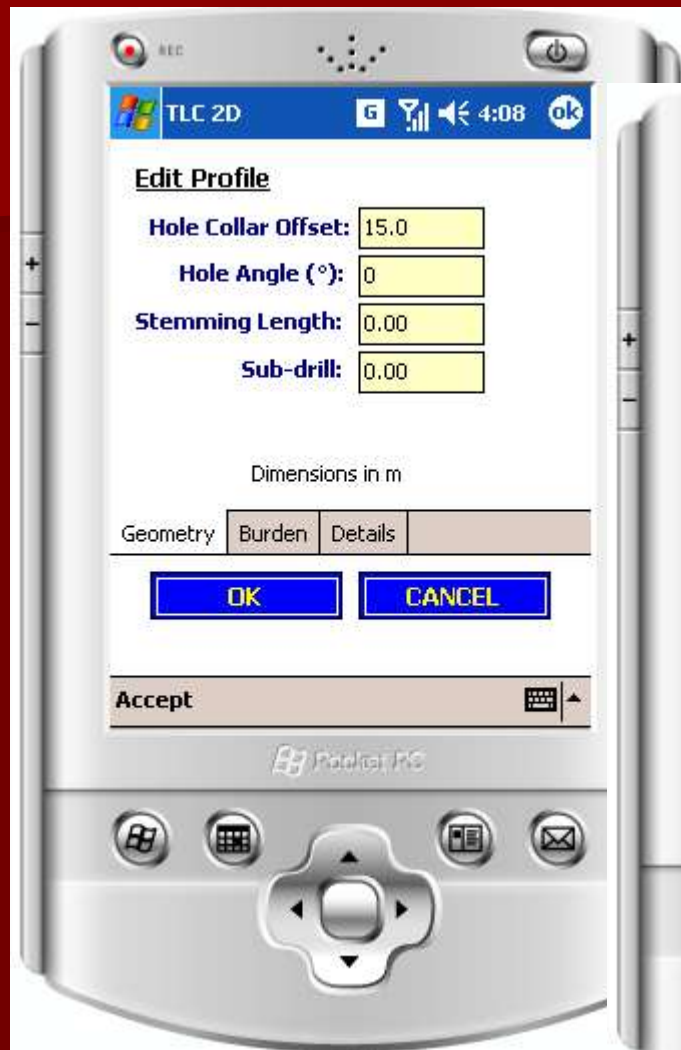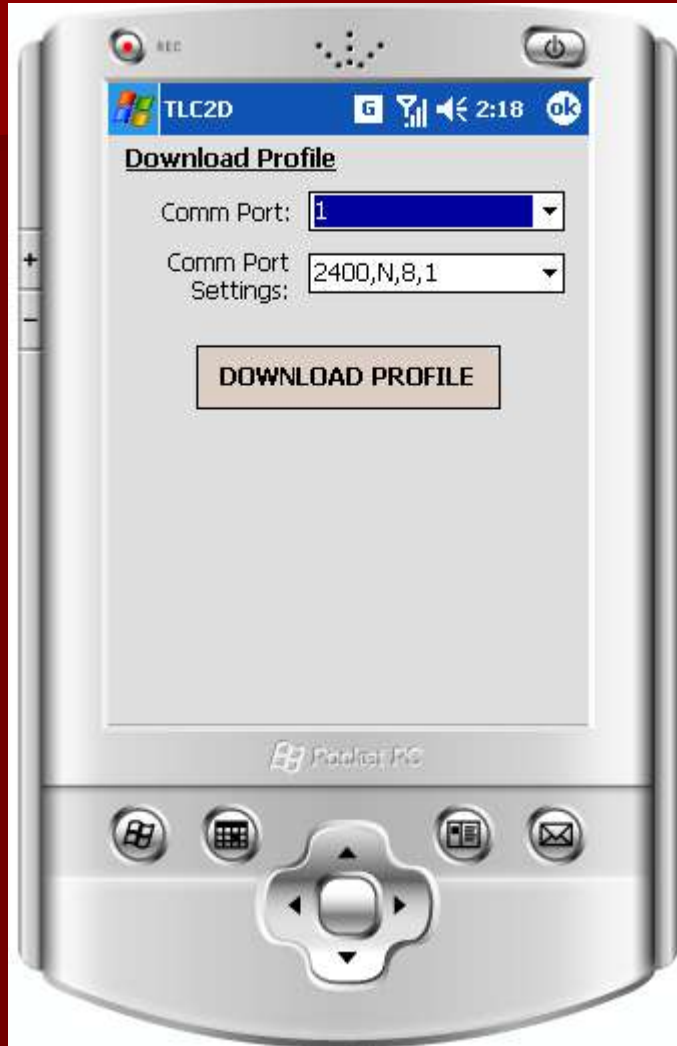
Viewing Profiles...
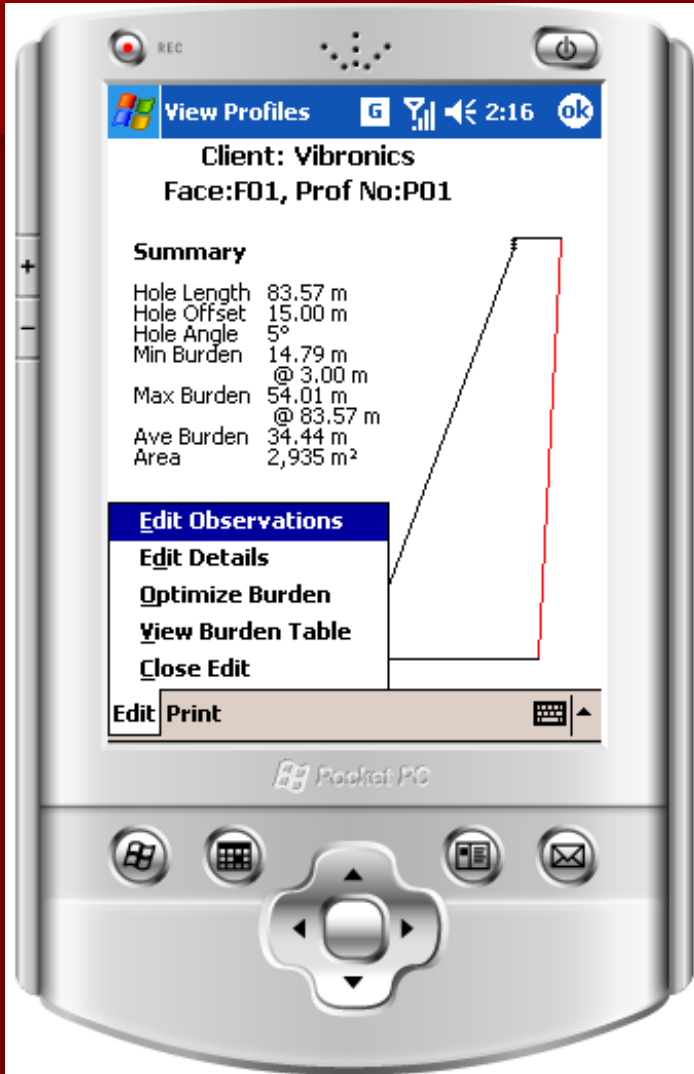
- Edit profile details
- All other features available during the creation process are available from the viewing option.
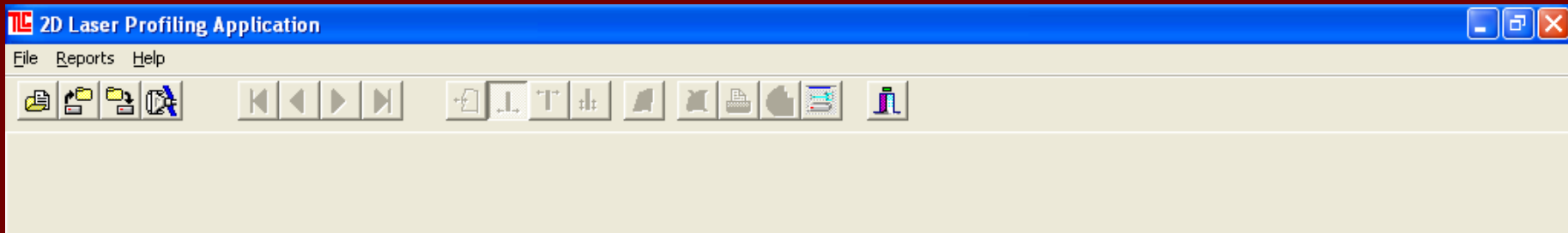
Editing Profile Properties...

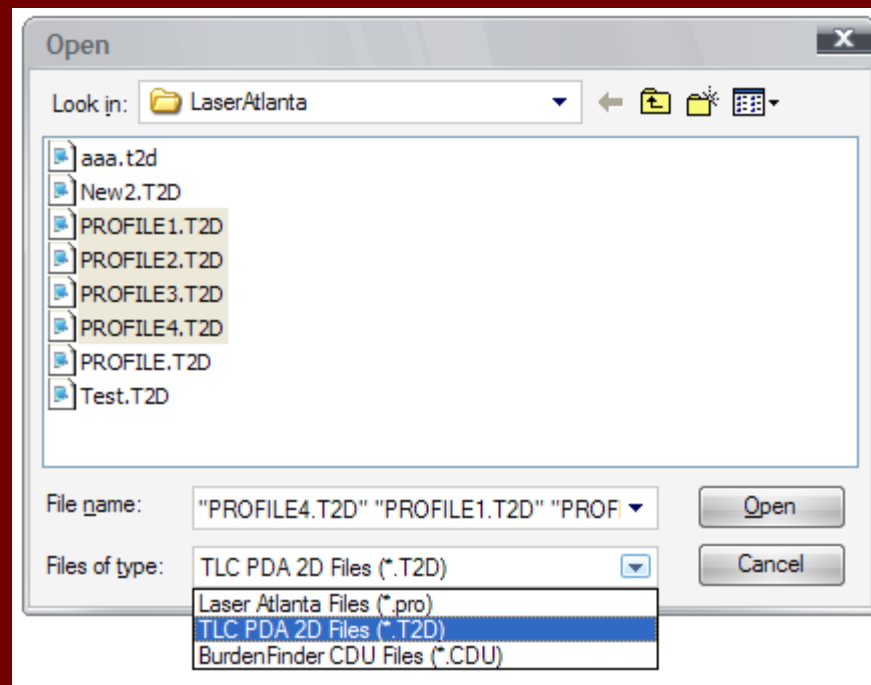# Downloading Profile to PC...

WINPROF 2D

- Windows based application
- Ability to interface to different lasers and data formats
- Collect profile data for editing, viewing and printing

WINPROF 2D

- Read files from Laser Atlanta, TLC PDA, MDL BurdenAce, BurdenFinder

WINPROF 2D – Profile Details

WINPROF 2D – Profile Display
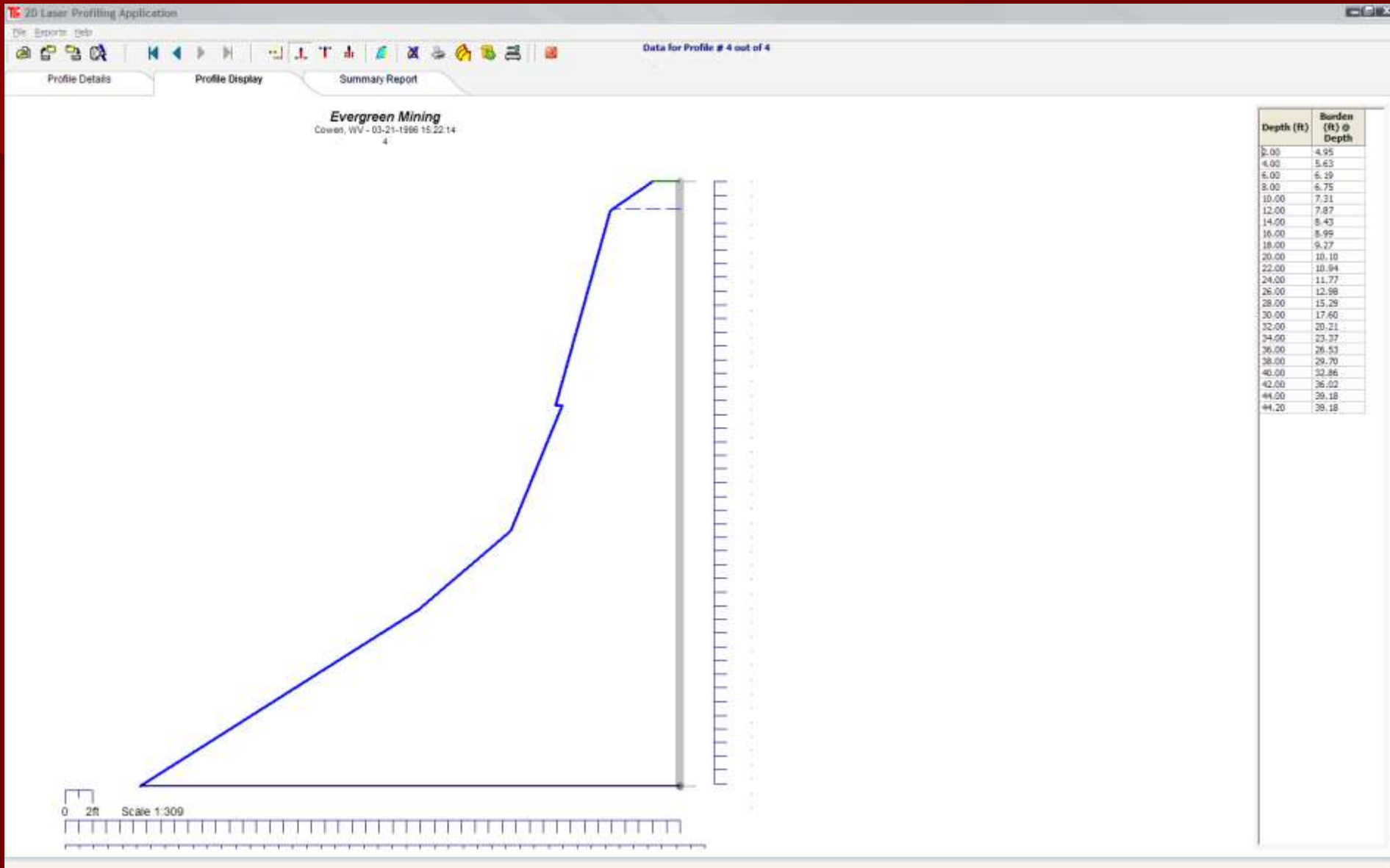
WINPROF 2D – Profile Editing

- Profile data can be edited directly:

Customer	Evergreen Mining		Borehole Collar Offset	12.0	ft
Location	Cowen, WV		Borehole Angle (°)	28.50	°
Date of Survey	03-21-1996 21:03		Borehole Depth	89.4	ft
Operator	Jason Ryan		Floor Slope (°)	0.00	°
Comments	Shot to Upper Kattaning		Profile Area	997.8	ft²
Face Name	001		Minimum Burden	4.1	ft
Profile Number	003		Maximum Burden	18.4	ft
Instrument Type	Advantage		Average Burden	11.2	ft

Recalculate

- Graphic tools can be used to modify the borehole position and profile details
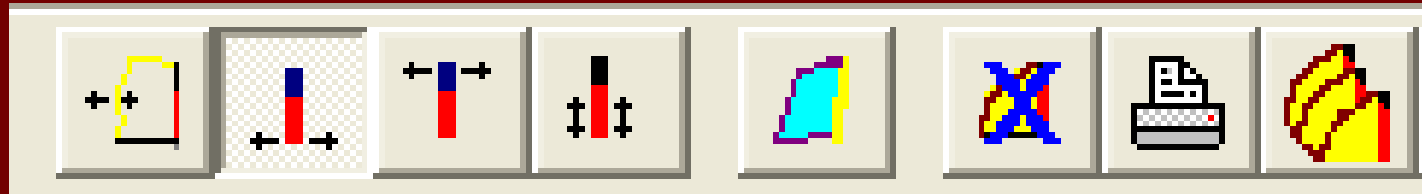
WINPROF 2D
MULTIPLE PROFILES

- Stores multiple profiles – facilitates grouping of information for a face

- Automatic printing of more than one profile

Summary Report

2D Laser Profiling Application
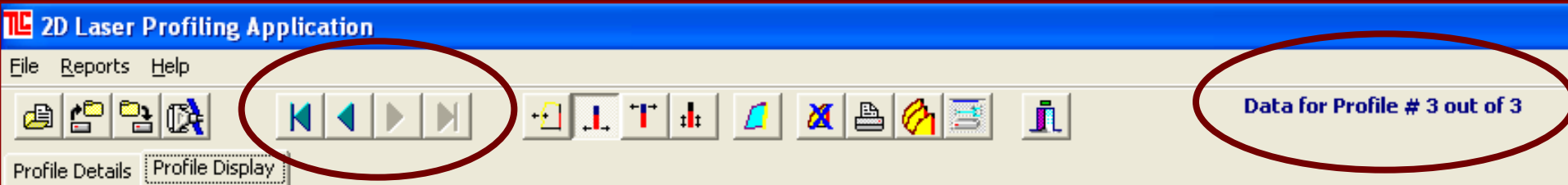
File   Reports   Help

Data for Profile # 4 out of 4

Profile Details | **Profile Display** | **Summary Report**

Profile No	Borehole Depth ft	Borehole Angle °	Offset from Crest ft	Minimum Burden ft	Maximum Burden ft	Average Burden ft	Profile Area ft²	Profile Volume
005	46.7	0.0	0.0	0.9	20.4	10.6	480.7	
002	83.3	0.0	0.0	9.6	45.2	33.6	2720.8	
003	89.4	28.5	12.0	4.1	18.4	11.2	997.8	
004	44.3	0.0	0.0	2.8	37.1	15.0	585.7	

Contact Details:

- **TLC ENGINEERING SOLUTIONS (Johannesburg, South Africa)**
  - Luis Valentim, Terry Cousins
  - sales@tlc.co.za or luis@tlc.co.za
  - www.tlc.co.za
  - Tel:+27 11 4633860

- **Vibronics (Evansville, Indiana, USA)**
  - John Wiegand, Jeff Baker
  - sales@vibronics.com or jbaker@vibronics.com
  - www.vibronics.com
  - Tel: (812) 853 2300