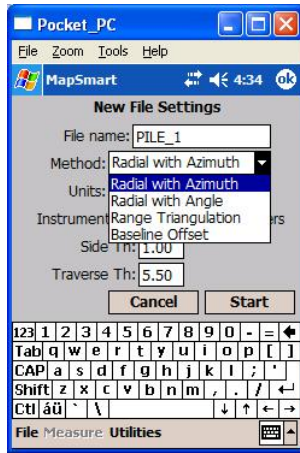
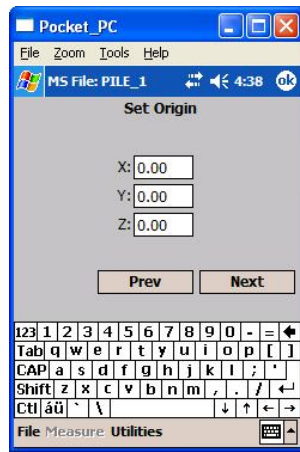


TruPulse 360 MapSmart Stockpile

Quick Start Guide

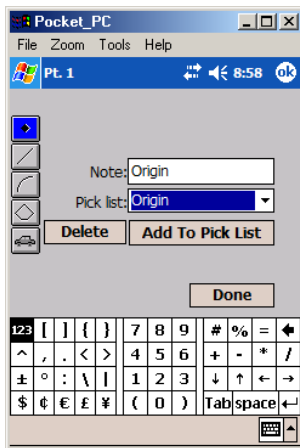


1. Start a New file and choose the Radial with Azimuth method. Select Units and specify IH, Side TH=0.0, Trav TH, then tap Start.

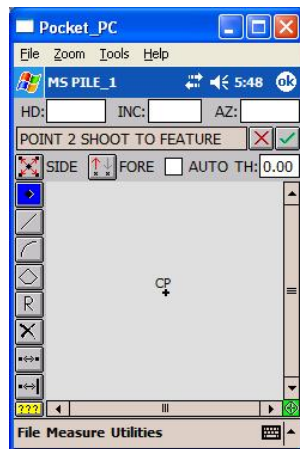


2. Set Origin Coordinates and tap Next. Remember to set Declination if necessary.

*Note: make sure you perform a compass calibration on the TruPulse 360 and that you keep objects that may interfere with a compass away from the unit while measuring. Also do not occupy any spots around the pile that may be too close to machinery and other metal objects.



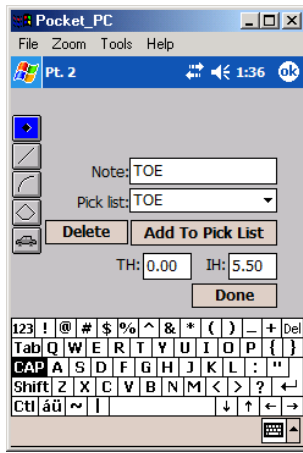
3. Classify the Origin as a Point feature type and accept the default note of 'Origin'. Tap Done.



4. You're now in the data collection screen. Tapping on the small yellow box at lower left labeled '???' will display the Help screens. These will describe the basic functions of all the icons.

5. Setup to take SIDE shots to the pile by setting TH = 0.00 and check the AUTO box. Make sure the Point icon is highlighted.

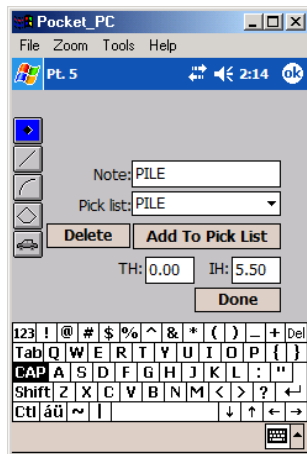
6. Take your first shot to the TOE of the pile. A sound will emit when the shot comes in and the raw data fields: HD, INC & AZ will fill in with data briefly.



7. When Auto is checked, the Note screen will come after the first shot. Specify these shots as TOE (tap Add to Pick List) and tap Done.

8. Continue taking shots to the toe of the pile. They will be automatically stored and you will see them pop up on your map.

*Note: if the pile rests up against a wall, take shots at this interface and code them with a unique Note, like PTOE.

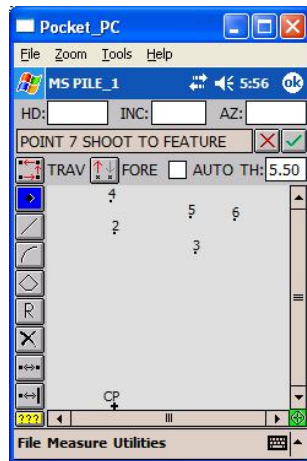


9. When you're done with shots to the toe, uncheck AUTO and take your first shot to the pile.

10. The Note screen will pop up and you'll now enter PILE (tap Add to Pick List). Tap Done when finished.

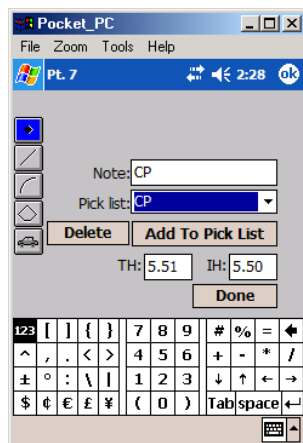
11. Check AUTO again and take all your shots to the pile from this location.

*Note: if there is an interface between layers of material with different densities that you would like to account for, take an extra shot at this point and give it a unique Note, like Layer.

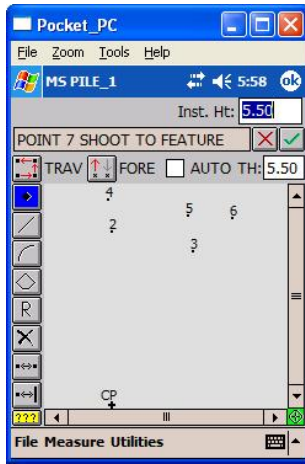


12. When done and ready to move the instrument, uncheck AUTO and tap the SIDE button which will change to say TRAV. Set your target up at the next location and measure the TH value and enter it in here.

13. Take the TRAV shot to the next instrument location.

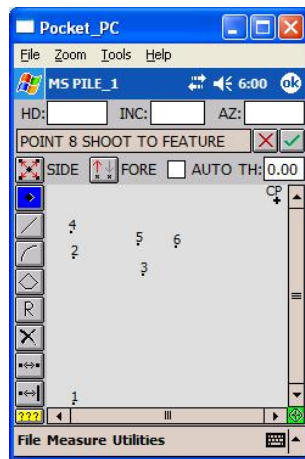


14. The Note screen will come up. Enter CP for this shot and tap Add. Tap Done when finished.



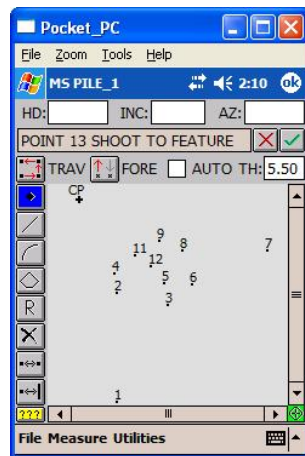
15. Move the TruPulse 360 to the next location, making sure you mark pt. 1 somehow so you can shoot there again later.

16. Verify the value for IH is correct and tap the green check mark.



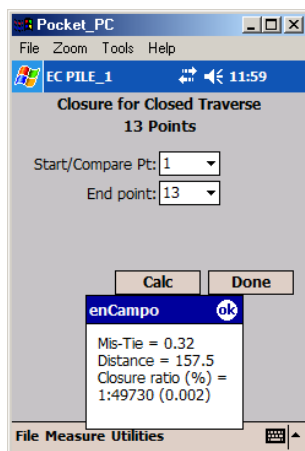
17. Now tap the TRAV button which will change it back to SIDE. Make sure the TH = 0.00. You will see that your new location is labeled CP and you're ready for your shots to the pile from this location.

18. Follow the same procedure as above for measuring to the Toe and Pile from this location. Use the AUTO function to save similar point types & notes. You can select Notes from your Pick List.



19. When you're done with shots to pile from your last instrument point, tap SIDE to show TRAV again and setup a target back on pt.1. Enter the correct TH and take the shot. Enter a Note for this point called TIE SHOT.

20. Check your work by choosing Measure / Calculations / Closure / Closed Traverse.



21. Your Start/Compare Pt should be # 1 (your Origin) and the End point will be the Tie Shot you just measured to.

22. Tap the Calc button and the results will display. Closure Ratios > 1:100 are acceptable. Tap OK on the small window and the Done button when finished.

23. Choose File / Save As..., select Spreadsheet (*.csv) format (or other) from the list and tap Write File. Tap Done when finished.