

Importing Non-Standard LAS Data into RockWorks

12/7/22/JPR

Introduction

If the RockWorks Log ASCII Standard (LAS) data import program isn't working properly it may mean that the LAS file was created by a program that does not conform to the strict LAS format. Rather than wasting time trying to fix the LAS file, this document provides a "work-around" for importing the relevant data for LAS files as well as other ASCII files that contain row-and-column data.

Step 1: Edit the File Using Notepad

- Load the file into the Windows Notepad program.
- Delete all of the header and footer information except for the row-and-column data (Figure 1).

```
1) Exp2d.las - Notepad
File Edit Format View Help
~Version Information
VERS. 1.00: LOG ASCII STANDARD - VERSION 1.0
WRAP. NO: ONE LINE PER DEPTH STEP
#Written by Robertson Logging WLLAS V2.01 September 95
#Author Jonathan Wilkins, RGL
~Well Information
#Mnem.Unit Data Type Information
#-----
STRT.M 1422.50:
STOP.M 39.50:
STEP.M -0.50:
NULL. -999.25:
COMP. COMPANY:
WELL. WELL:
FLD. FIELD:
LOC. LOCATION:
PROV. PROVINCE:
SRVC. SERVICE COMPANY:
DATE. LOG DATE: 03/12/02
UWI. UNIQUE WELL ID:
~Curve Information
#Mnem.Unit API Code Information
#-----
DEPT.M 1 DEPTH
NGAM.CPS
CALX.MM
CALY.MM
RES.OHMM
LONG.OHMM
SHRT.OHMM
~ASCII Log Data
DEPTH(M) NGAM(CPS) CALX(MM) CALY(MM) RES(OHMM) LONG(OHMM)
1422.29 -999.25 76.22 15.97 -999.25 -999.25 925.36
1421.79 -999.25 137.21 42.57 -999.25 141.17 915.72
1421.29 -999.25 296.52 279.17 -999.25 779.59 517.52
1420.79 -999.25 300.73 294.08 9.67 759.52 474.10
1420.29 3.58 299.06 290.90 15.70 729.01 461.96
1419.79 16.67 298.41 293.57 16.44 727.39 458.05

44.29 10.95 501.80 496.70 -999.25 216.04
43.79 15.15 501.66 497.00 -999.25 109.24
43.29 16.42 501.60 496.55 -999.25 314.45
42.79 14.87 501.45 496.27 -999.25 150.86
42.29 23.74 501.25 496.08 -999.25 209.28
41.78 20.11 93.61 25.14 -999.25 67.19 1
41.28 13.15 -469.33 -625.32 -999.25 10.1
40.78 14.59 -469.33 -625.32 -999.25 10.1
40.28 22.39 -469.33 -625.32 -999.25 10.1
39.78 22.11 -469.33 -625.32 -999.25 10.1
39.28 21.82 -469.33 -625.32 -999.25 10.1
# *** End of Log Output *****
```

Figure 1

- Save the file with a new name (e.g., Temp.txt).

Step 2: Import the Edited File into Excel

- Open Excel, select the first cell in the first column, and select the *Data / Get External Data / From Text* tool to load the Temp.txt file (Figure 2).

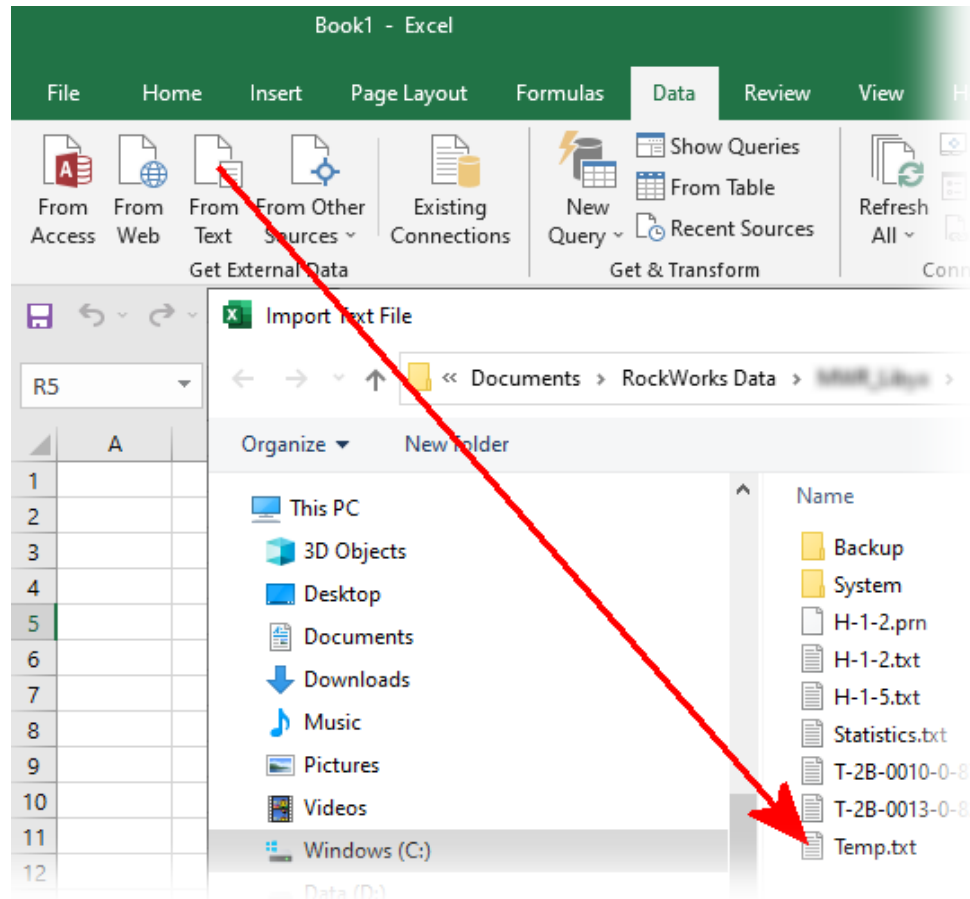


Figure 2

- Make sure that the *Delimited* option is checked within the next menu and select the *Next* option (Figure 3).

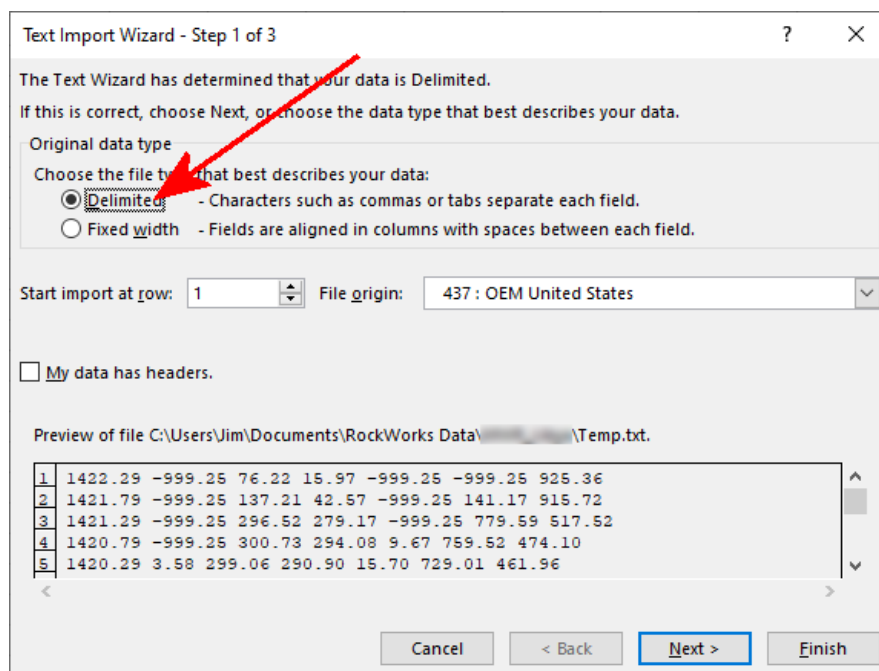


Figure 3

- Check the *Tab* and *Space* options within the next menu. (Figure 4). Notice how the data is now grouped into columns within the *Data preview* window. If the data is not properly grouped into columns, you may need to determine what the proper column delimiter is by pressing the *Back* button and examining the text within the *Preview of ...* window and specifying the correct *Delimiter*. Once everything looks correct, select the *Next* option.

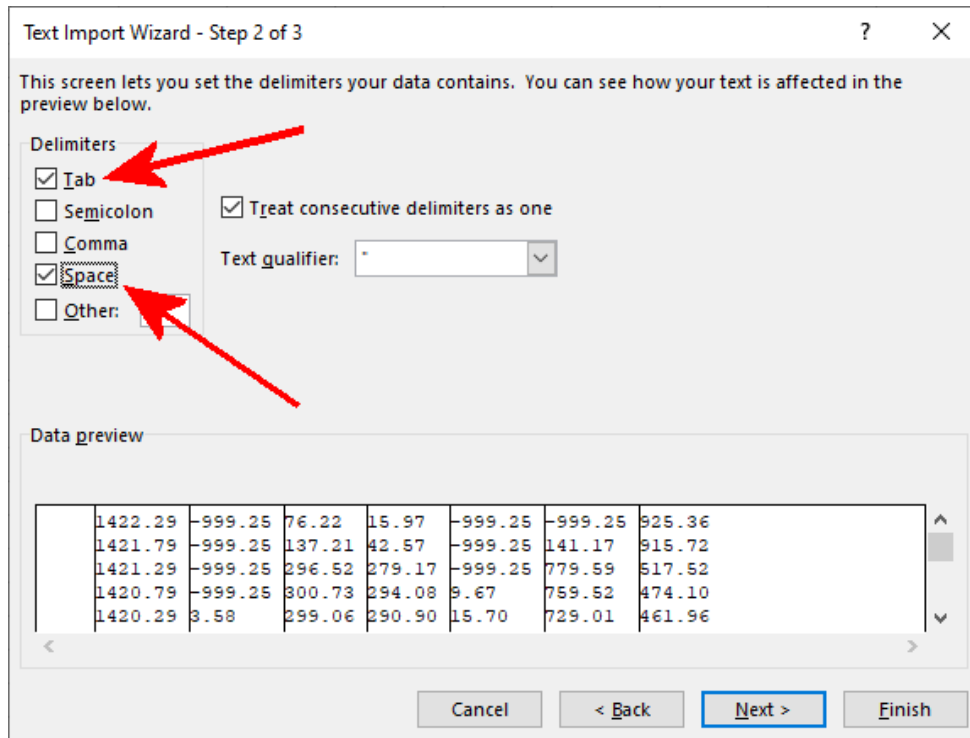


Figure 4

- Select the *General* option within the next menu and click on the *Finish* option (Figure 5) and click on the *OK* button within the next menu.

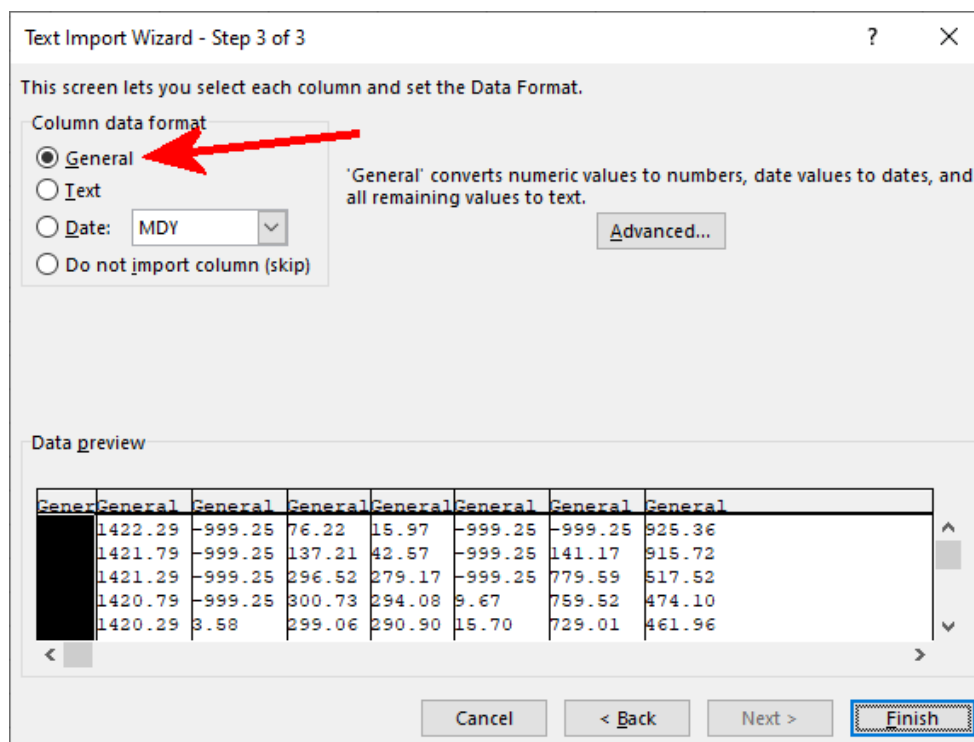


Figure 5

Step 3: Create Desired P-Data Tracks Within RockWorks

- Select the *RockWorks / Borehole Operations P-Data / P-Data Types Table* option (Figure 6), and enter the titles for any tracks that you want to import that are not already listed within the table.

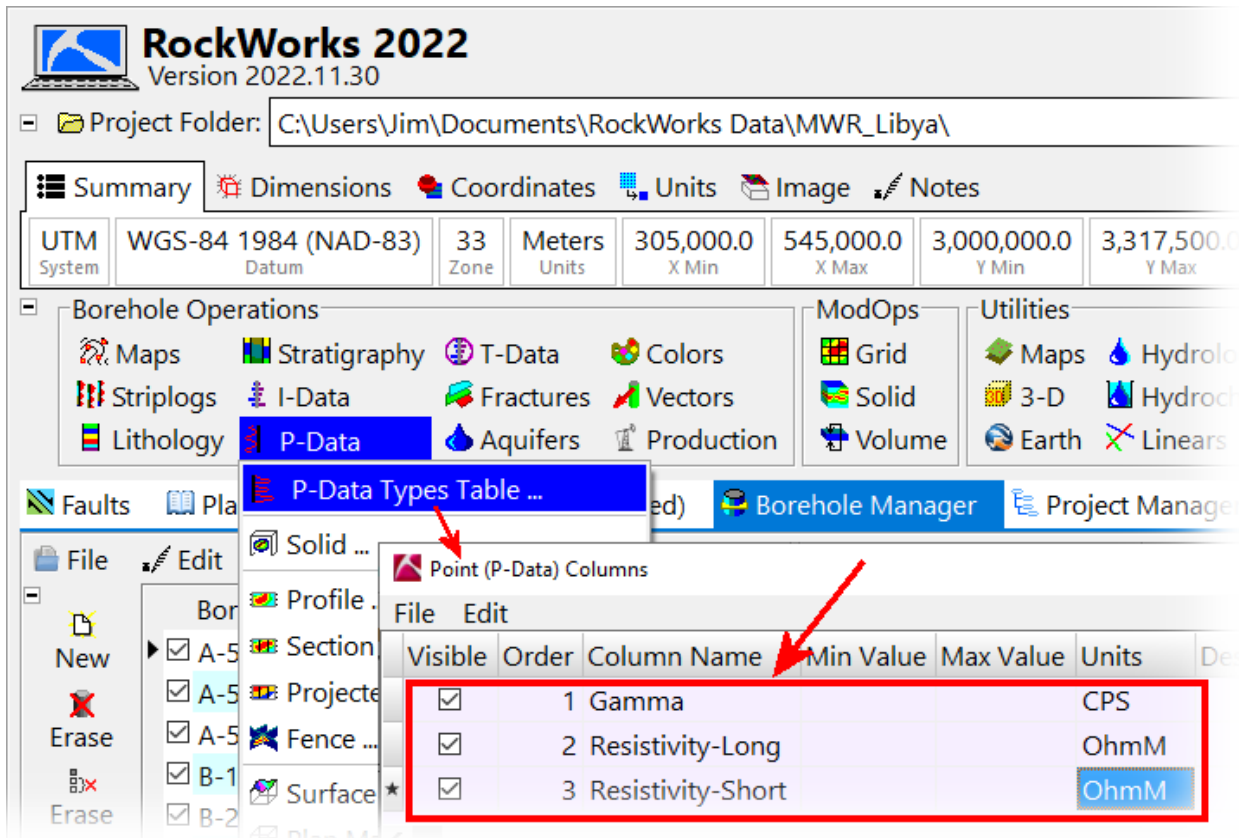


Figure 6

Step 4: Copy Data from Excel to RockWorks

- Within the RockWorks Borehole Manager, open the P-Data tab for the well that the data will be copied into and select the Datasheet option (Figure 7).

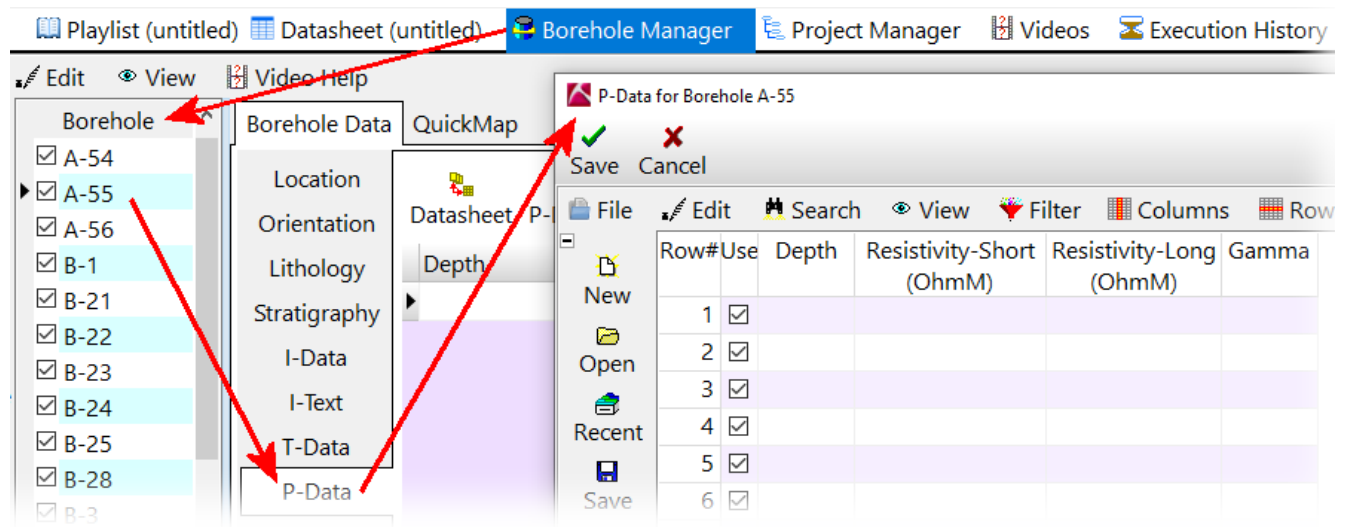


Figure 7

- Starting with the Depth column, copy and paste the appropriate columns of data from the Excel spreadsheet to the appropriate columns within the P-Data Datasheet (Figure 8).

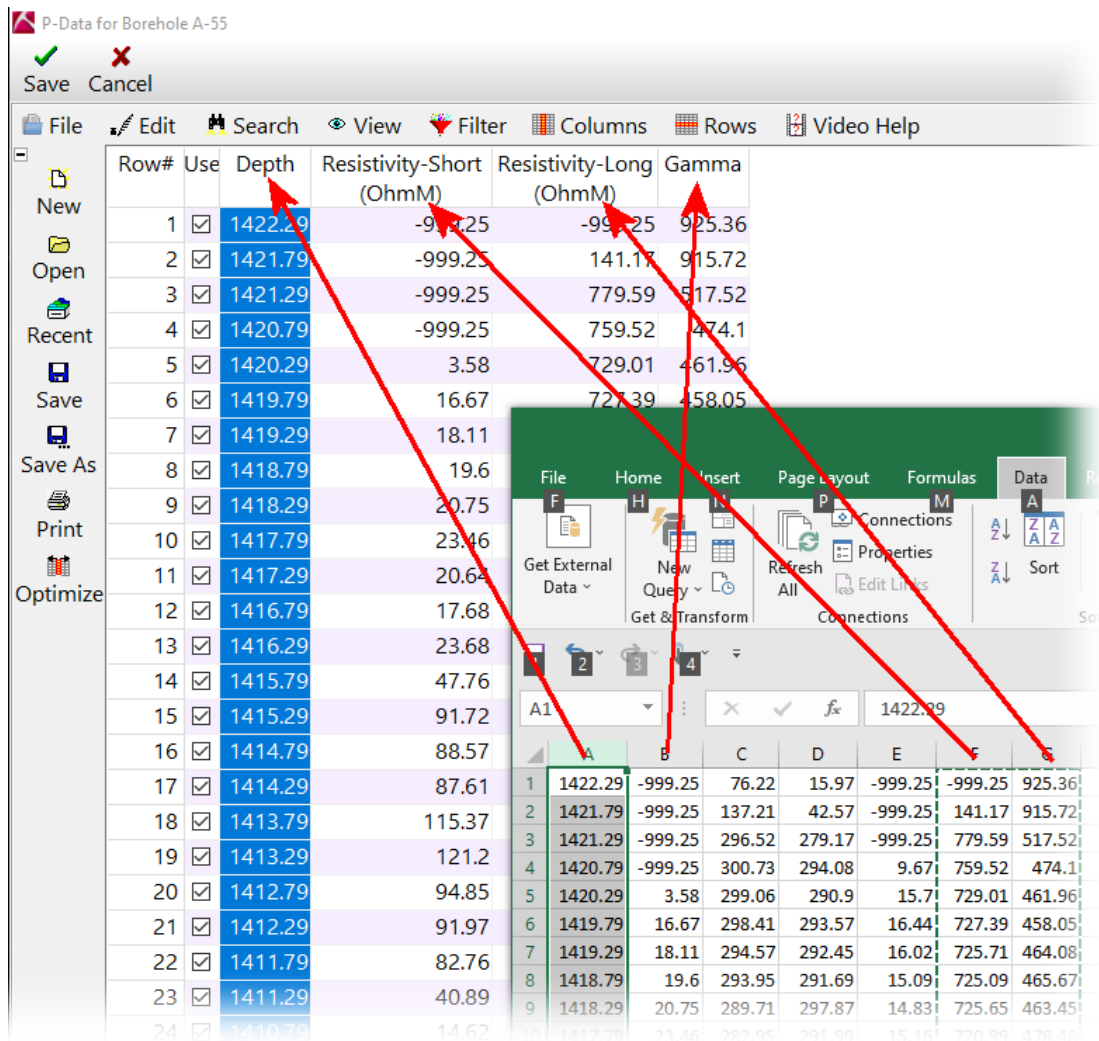


Figure 8

- If the import includes values that represent “no data” (Figure 9), they can either be (1) manually deleted within the datasheet, automatically replaced with the *Datasheet / Search / Find & Replace* tool (Figure 10), or filtered when creating diagrams and interpolating diagrams.

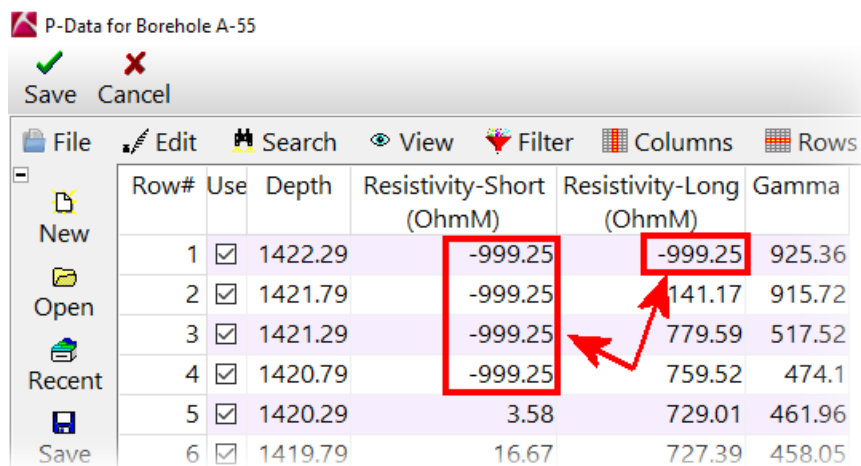


Figure 9

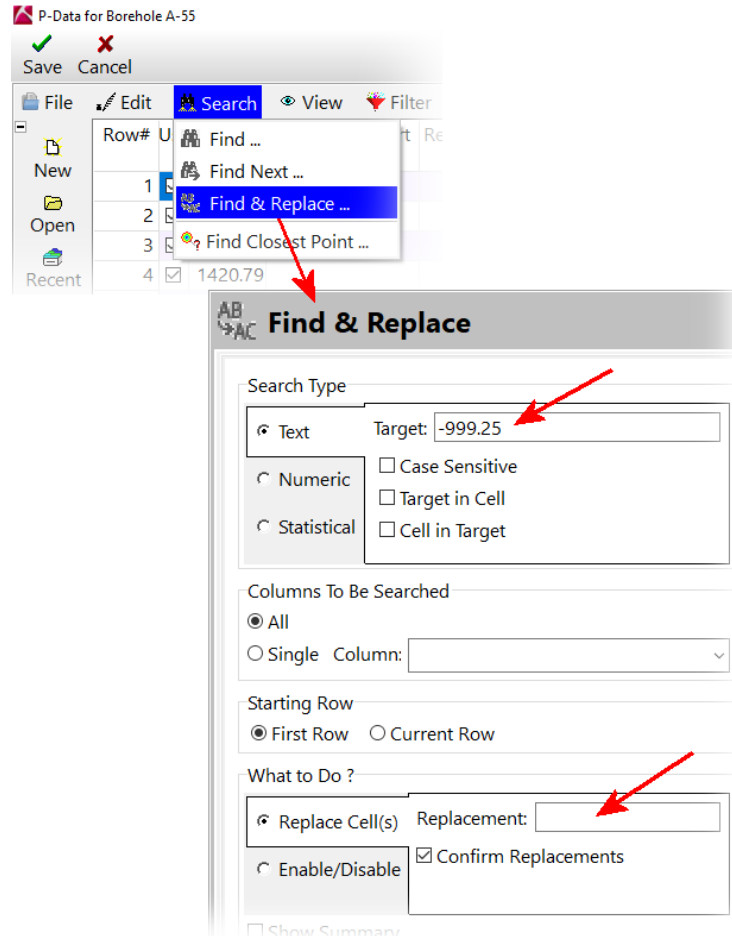


Figure 10

- Once the Datasheet has been saved, all of the data will be sorted by depth into the P-Data table within the Borehole Manager Database.

Step 5. Adjusting the Borehole Depths

- As new borehole P-Data is added to the database, the TDs for the boreholes can be automatically adjusted by selecting the *Borehole Manager / Edit / Adjust TDs* (Figure 11).

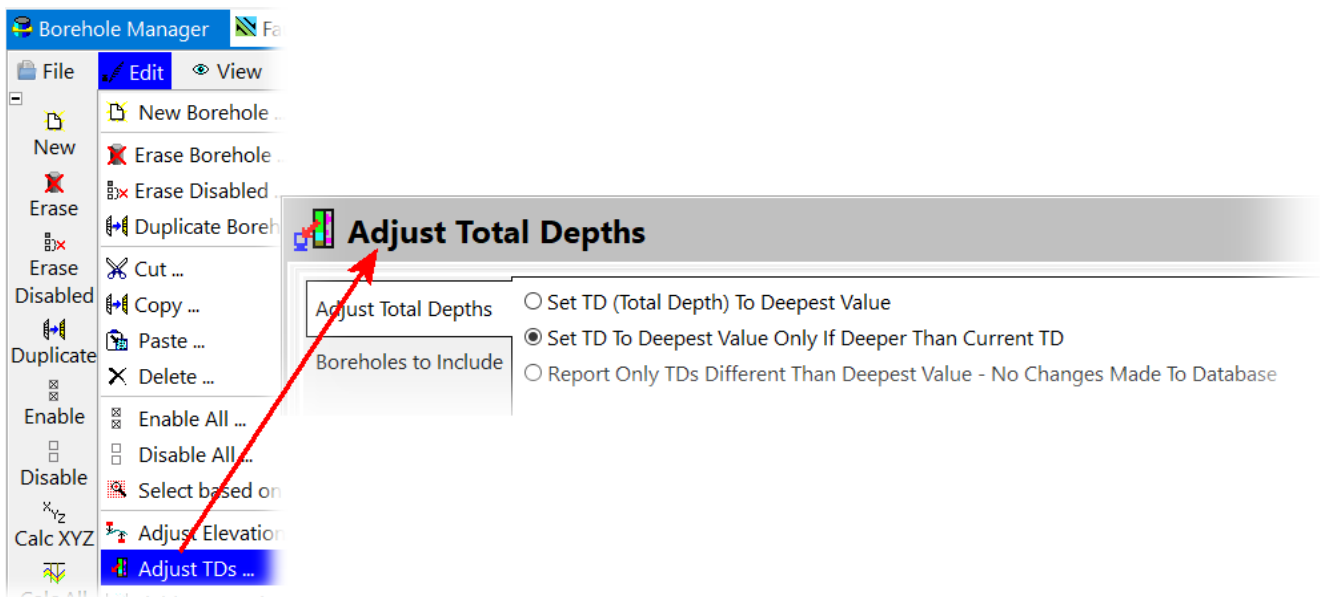


Figure 11