

Importing Individual LAS Files into RockWorks

12/8/22/JPR

Step 1. Select the *Borehole Operations / P-Data / P-Data Types Table* option (Figure 1) and add the appropriate *Column Names*.

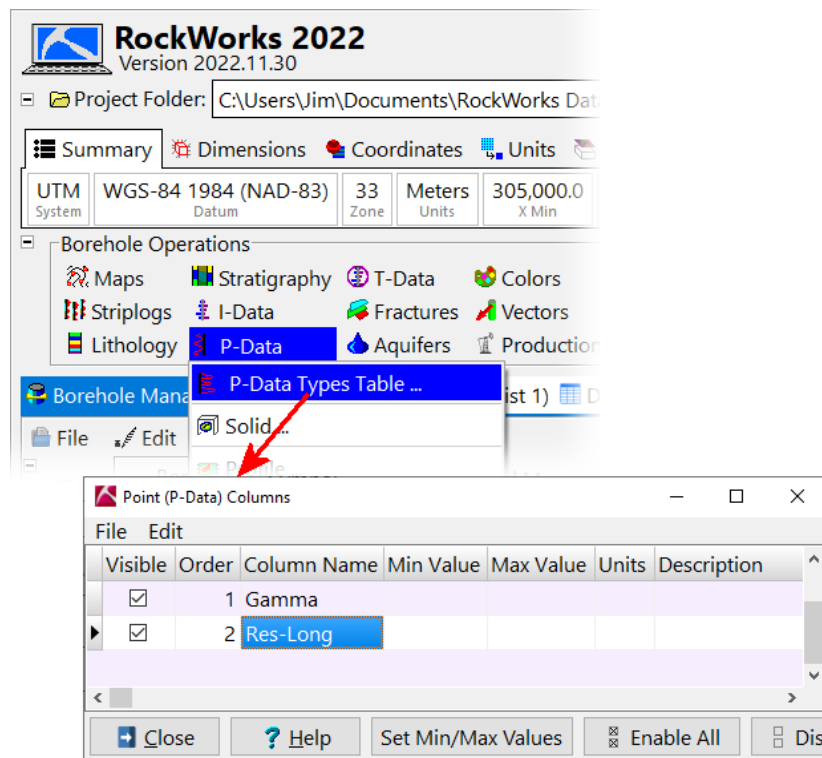


Figure 1

Step 2. Activate the *Borehole Manager / File / Import / LAS / One File* program (Figure 2).

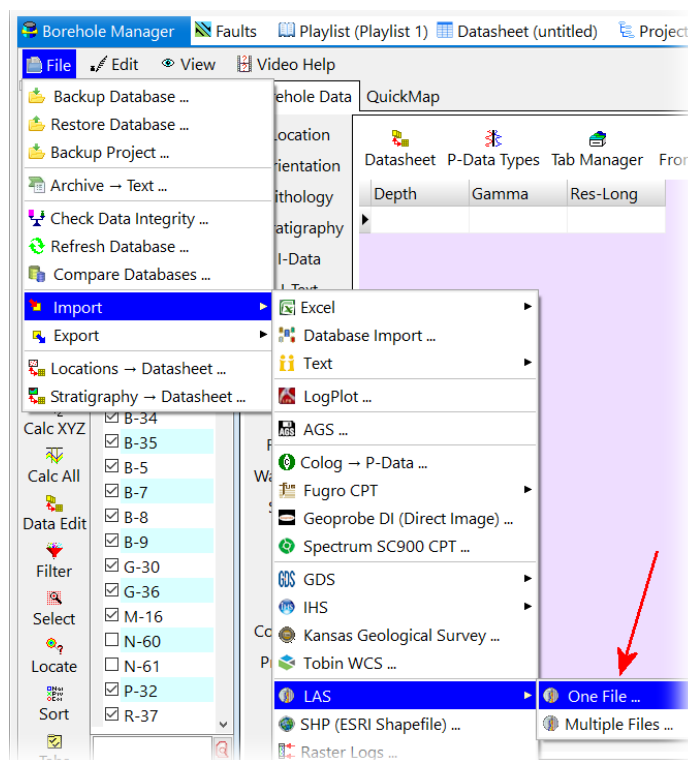


Figure 2

Step 3. Enter the name of the LAS Version 2 file to be imported and the program will attempt to make a “best guess” at how to should map the LAS fields to the RockWorks fields (Figure 3). In this example, the LAS “STOP DEPTH” field will be copied to the RockWorks “Total Depth” field and the “WELL” field will be copied to the RockWorks “Borehole Name” field. These mappings may be overridden, but in this example, the program guessed correctly.

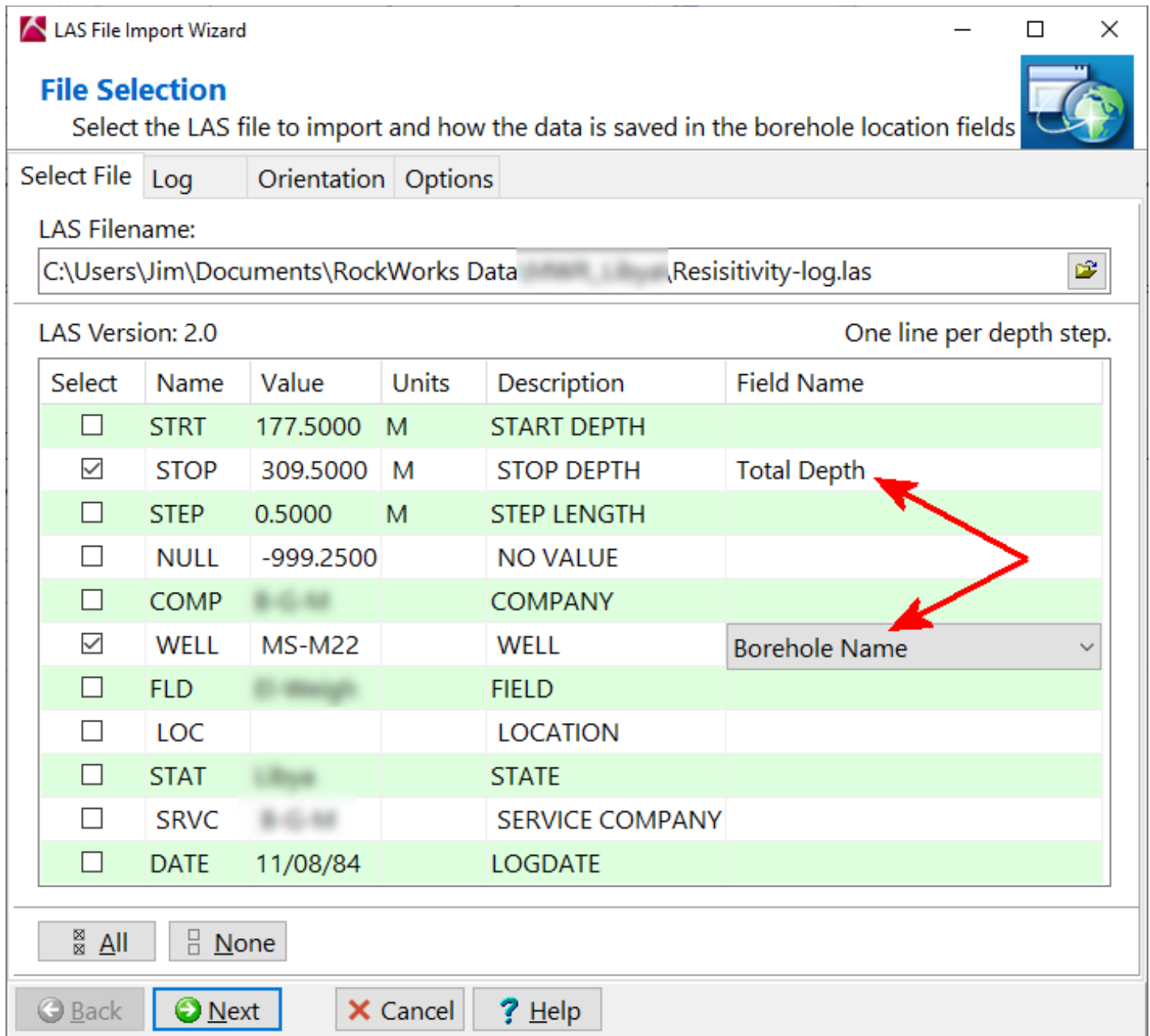


Figure 3

Step 4. Click the Next button and the program will display the data tracks within the LAS file (Figure 4). The checkboxes along the left side of this list determine which tracks will be imported into the RockWorks database. The Field Name is used to designate the track within the RockWorks database in which the data will be stored.

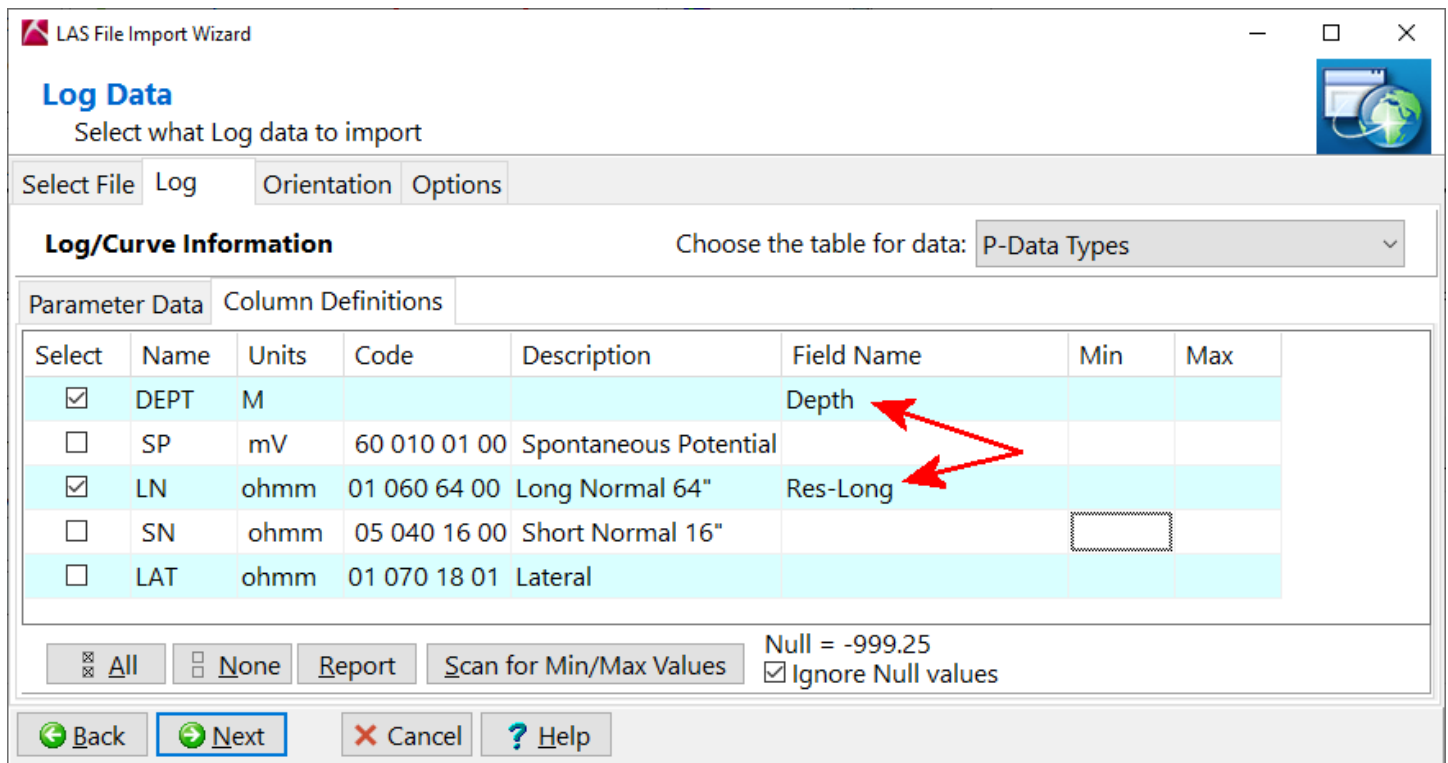


Figure 4

In this example;

- The LAS DEPT data will be copied to the RockWorks P-Data Depth column.

Always include the Depth column when importing LAS data.

- The LAS LN (Log Normal 64") data will be copied to the RockWorks P-Data Res-Long column.

Other columns of data could be copied at the same time by checking the boxes and specifying the destination Field Name, but for this exercise, only the Long Normal resistivity data will be imported.

Step 5. Click the Next button and the Orientation page will be displayed. If the LAS file contains borehole survey data it will be displayed for subsequent import into the RockWorks Orientation table.

Step 6. Click the Next button and the final Import Options menu will be displayed.

- If the displayed LAS Borehole Name does exist within the RockWorks database, a new well will be created along with the LAS Easting, Northing, Elevation and Total Depth data using the LAS Borehole Name (Figure 5).

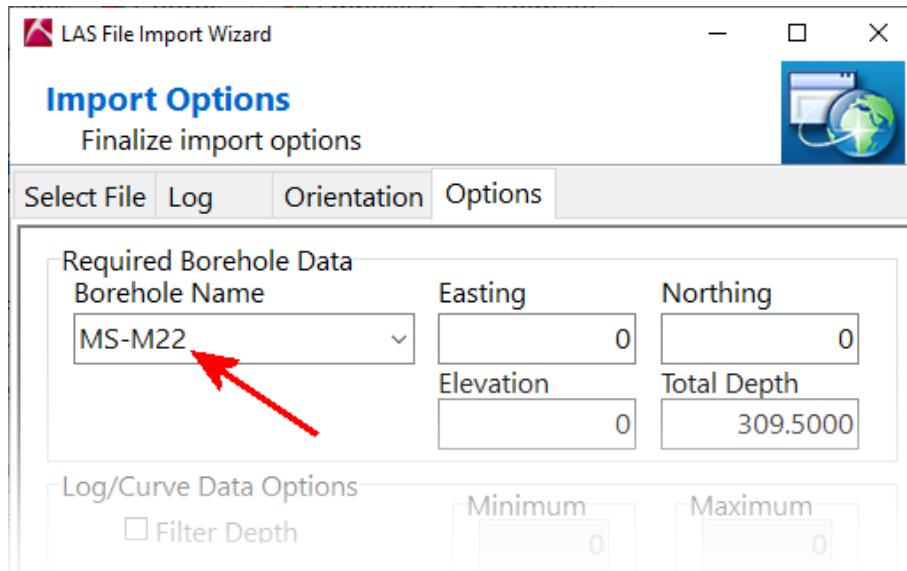


Figure 5

Note: If a new borehole is added and it does not contain coordinates, it is the user's responsibility to manually add those coordinates to the RockWorks Location tab.

- If the LAS data is to be copied to a well that already exists within the RockWorks database, the pull-down tab within the Borehole Name field may be used to select the destination borehole (Figure 6) in which case the program will display the Easting, Northing, Elevation, and Total Depth for the borehole that already exists within the RockWorks database.

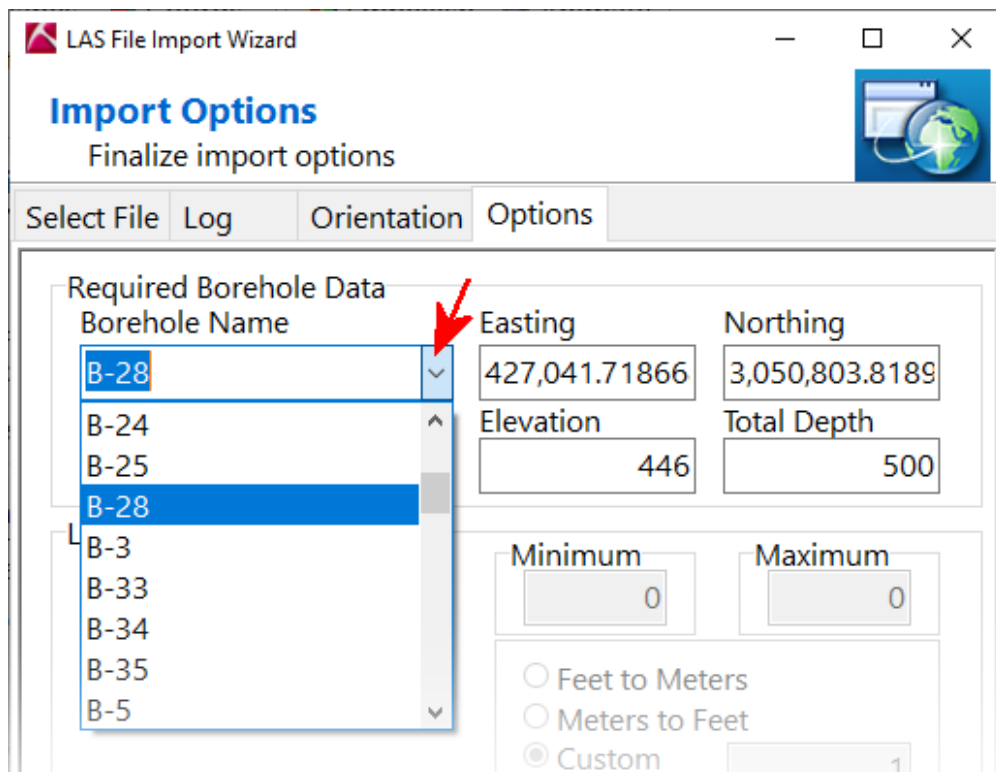


Figure 6

Step 7. Click the Next option. If the LAS data is being copied to a borehole that already exists within the RockWorks database, the program will suggest, by default, that a new borehole be created with a “_1” extension (Figure 7).

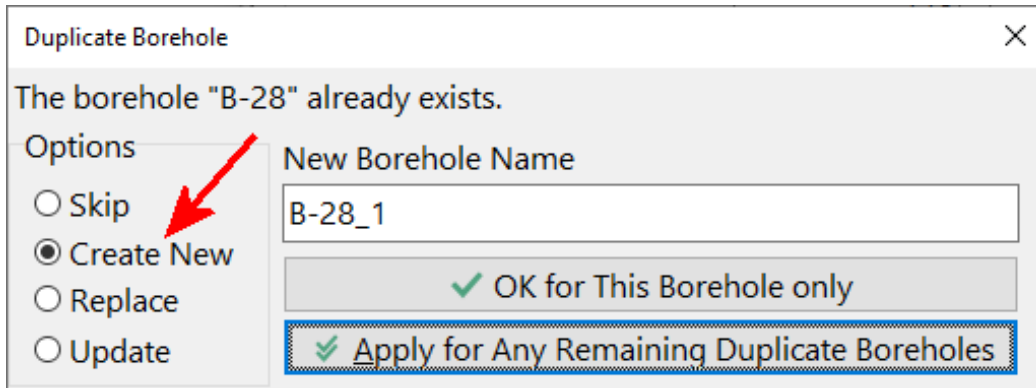


Figure 7

If, on the other hand, the LAS data is to be copied into the RockWorks P-Data for an existing borehole, the *Replace* or *Update* options should be selected;

- The **Replace** option (Figure 8) will delete any existing P-Data for the designated track within the designated borehole before copying the LAS data.

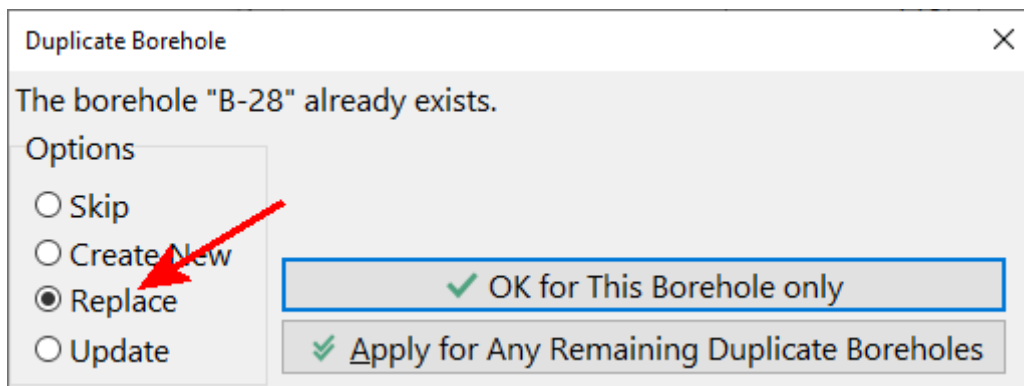


Figure 8

- The **Update** option will add the LAS data to any P-Data for the designated track within the designated borehole. This option should only be used when the LAS file contains data for a different depth interval than what is already stored within the RockWorks database.

Step 8. Check the RockWorks database to make sure that the data was copied into the correct data track for the correct borehole.

```

DPPH.                8:    pH
RM .ohms             2.2:  Rm
EMT .F               76:  Rm Meas. Temp.
RMF .ohms            2:   Rmf
MFT .F               76:  Rmf Meas. Temp.
BHT .C               30.5: BHT.
LUN .                LOG NUMBER: Logging Unit Number
ENGI.                I. NUMBER: Recorded By
DGBY.                NAME:    Digitized By
~OTHER INFORMATION
# Specificatoins      SP          Short Normal 16"
# Speed MTS/Min      10          10
# Scale /Div         10 mv/cm    10 ohm/m
~A DEPTH             SP          LN          SN          LAT
177.5000            97.8750    0.0630     -0.1890    -0.0630
178.0000            97.8750    0.4777     0.3858     0.1890
178.5000            97.4400    1.5700     1.0370     0.3630
179.0000            62.8810    3.1010     2.4000     1.4810
179.5000            -21.5108   5.0567     3.9477     1.6989
180.0000            -36.3750   5.6610     3.7230     1.8530
180.5000            -27.1250   5.7550     3.5120     2.0110
181.0000            -25.4810   5.7500     3.7210     2.2090
181.5000            -33.0898   5.7510     3.7193     2.3307
182.0000            -37.0210   5.7510     3.8560     2.3200

```

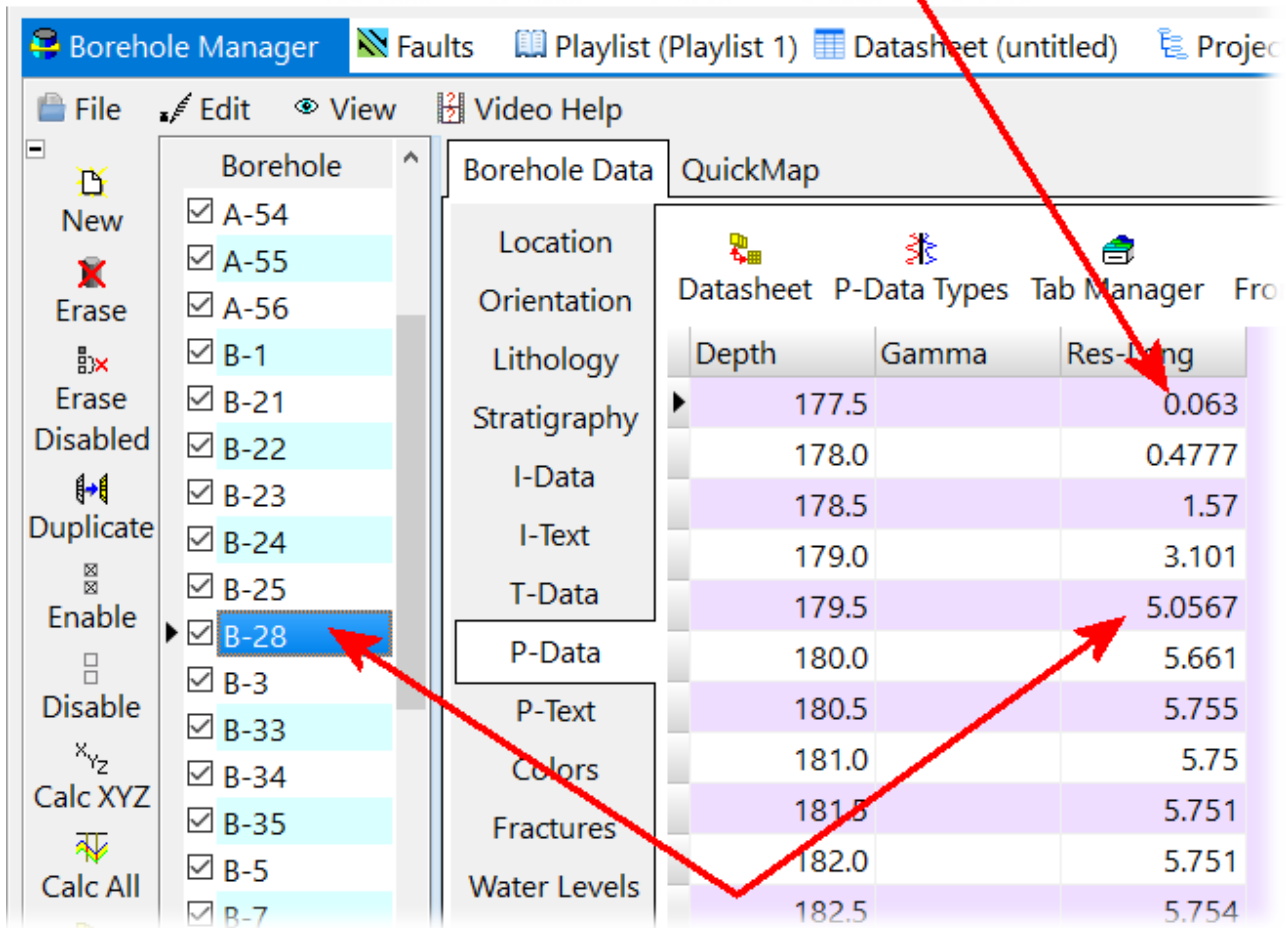


Figure 9

Additional documentation about the RockWorks LAS import can be found at [Import Individual LAS Files \(rockware.com\)](http://rockware.com) and [Import Multiple LAS Files \(rockware.com\)](http://rockware.com).