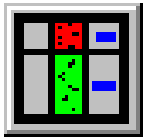


# User's Guide for the program *BOHR*



Draws soil layers according to German specification code DIN 4023.

Version 9.3

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## 1 An overview of the Program *BOHR*

*BOHR* is used to edit and display graphically the boring logs (boring layers, soil material and water table). The drawing of the boring logs can be displayed first on the screen, and then can be sent to the printer or plotter. The program draws the soil layers by different symbols according to the German specification code DIN 4023.

The drawings, if desired, can be saved as WMF-format files. In which can be exported to other Windows applications to prepare reports, slide presentations, or add further information.

## 2 Description of the Program *BOHR*

*BOHR* is a 32-bit, graphical software product that operates under Microsoft Windows XP / Vista / 7 / 8. The common „what you see is what you get“ of Windows applications makes it easy to learn how to use *BOHR*, especially if you are already familiar with the Windows environment.

Table 1 shows a list of data groups which *BOHR* program recognize. When the data is setting, we must choose one of the three groups

Table 1 Name of Data groups

Group
A Main data files
B <i>BOHR</i> files (*.BOR)
C Project data files

Table 2 gives a list of files, which are read or created by the program *BOHR*.

Table 2 Names and contents of files

### A Main data files

Filename	Contents
FIRMA	2 line texts contain header information
STEU	Default directory for files that are saved by <i>BOHR</i>
UNITS	System of units
PREFEREN.DAT	default preferences

---

**B** *BOHR* files

Filename	Contents
LINEFORM.BOR	Line formats
FONT.BOR	Font data
LEGENDE.BOR	Legend data
PAINT.BOR	Fill color data
PLOTPAR.BOR	Plot parameters
NODISPLA.BOR	Data of display values
ORDINATE.BOR	Max. width data

**C** Project data files

Filename	Contents
*. AUF	3 line texts to identify the project
*. BOH	Soil properties
*. PAR	Drawing setting

Note: The asterisk (\*) matches any filename with the specified extension.

The next paragraphs 3 to 12 describe the purpose and function of each *BOHR* command.

### 3 Starting the Program *BOHR*

Start *BOHR* by clicking on the program icon in the Windows "Start"-Menu. The introduction screen, Figure 1, appears.

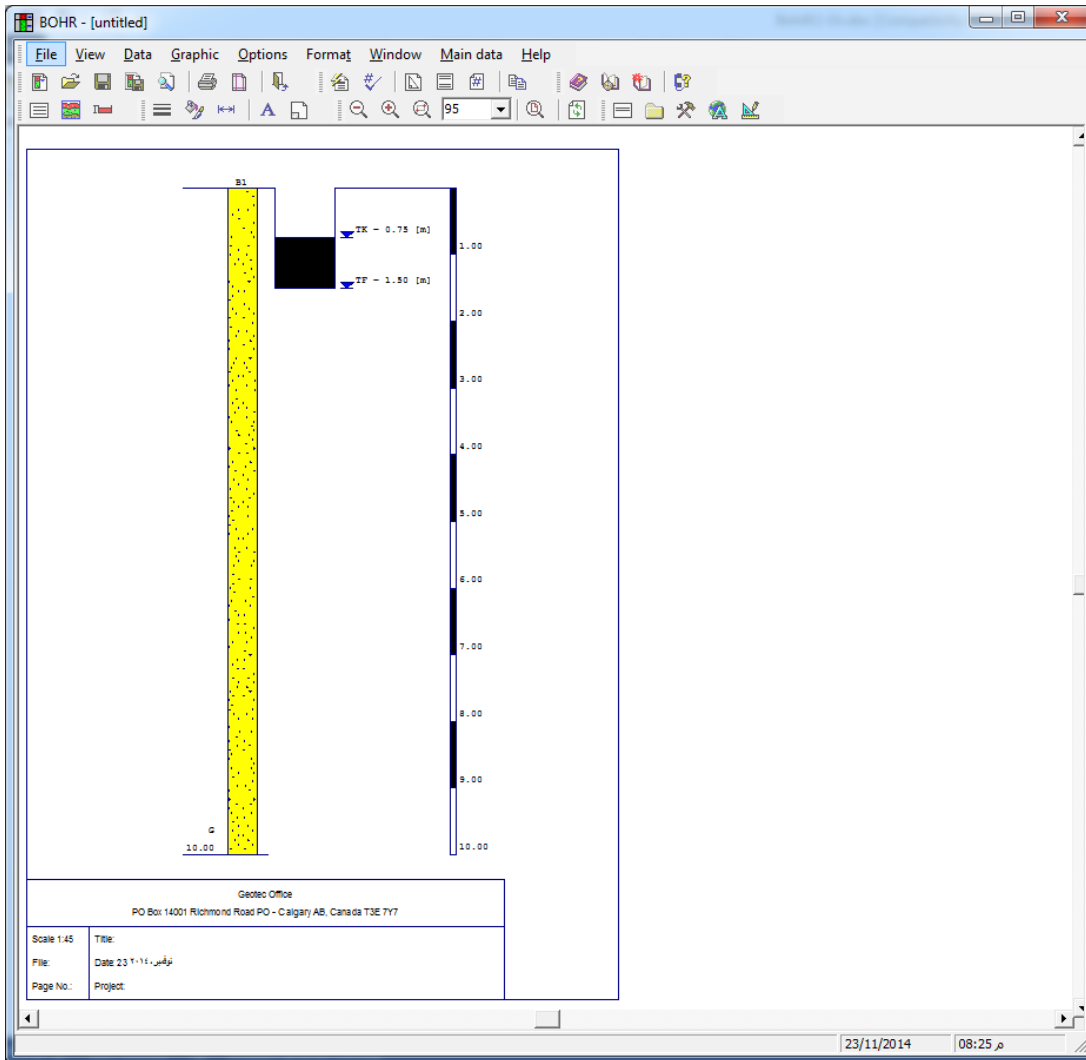


Figure 1 The introduction screen of the program *BOHR*

The menu head of Figure 1 contains the following nine commands:

- File
- View
- Data
- Graphic
- Options
- Format
- Main data
- Window
- Help

After clicking one of the nine menu commands, another sub-commands or options become available. The seven menu commands and their sub-commands are presented and described in the following paragraphs 4 to 13.

## 4 File Menu

The File Menu commands are:

- New
- Open
- Save
- Save as
- Make WMF-File
- File list
- Print
- Page setup
- Files 1, 2, 3, 4
- Exit

### 4.1 File Menu—"New" command

By the "New" command the current project is closed, if one is loaded, and a new project is initialized for starting a new boring definition.

### 4.2 File Menu—"Open" command

By the "Open" command the current project is closed, if one is loaded, and an existing project is opened. Figure 2 shows the "Open" Dialog box used to open a specified project.

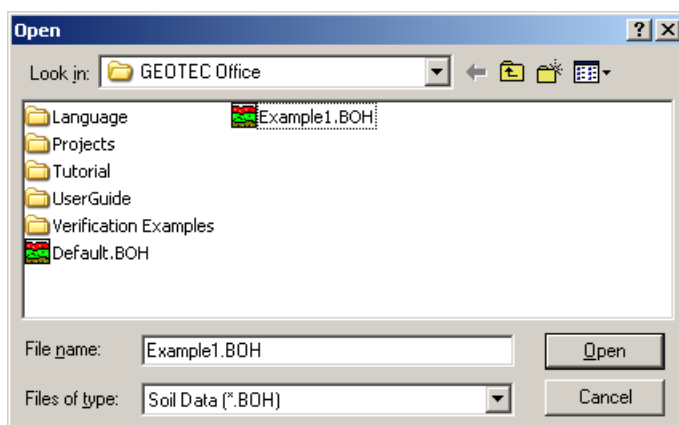


Figure 2 "Open" Dialog box

Note: The "BOHR File Open" Dialog box, Figure 2, is a common dialog used by many other Windows applications. To get help on using the Dialog box see your Windows documentation.

### 4.3 File Menu—"Save" command

By the "Save" command, the current project can be saved under the available name.

### 4.4 File Menu—"Save as" command

By the "Save as" command, the current project is saved under a new file name. Figure 3 shows the "Save as" Dialog box used to save the project.

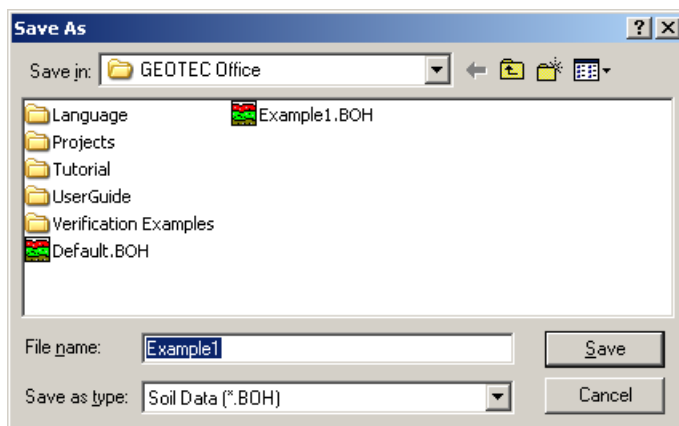


Figure 3 "Save as" Dialog box

#### Note:

The "BOHR Save as" Dialog box, Figure 3, is a common dialog used by many other Windows applications. To get help on using the Dialog box see your Windows documentation.

### 4.5 File Menu—"Make WMF-File" command

By the "Make WMF-File" command, the drawing can be saved in a format that can be read by other programs. This feature allows you to include your drawing in reports and presentations and to enhance the drawing using other drawing or CAD software packages. The drawing can be exported in the Windows Metafile (WMF) format.

Figure 4 shows the "Save as" Dialog box used to export the drawing with the filename you wish to give the exported file, including extension and the directory in which to save the file. If the file name already exists, you may select to overwrite the existing file.



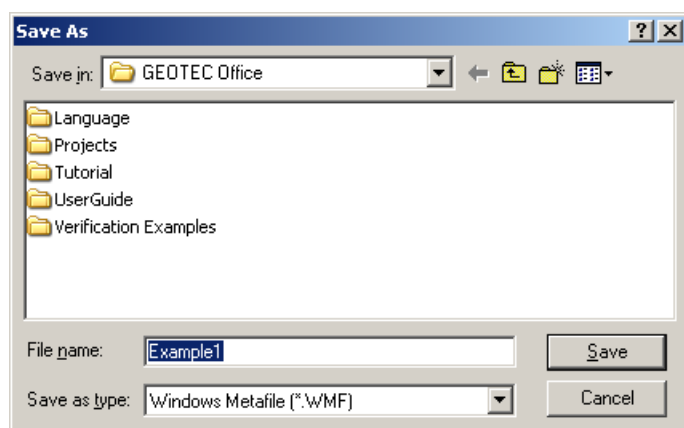


Figure 4 "Save as" Dialog box

Note: The "BOHR File Save as" Dialog box (Figure 4) is a common dialog used by many other Windows applications. To get help on using the Dialog box see your Windows documentation.

#### 4.6 File Menu – "File list" command

By the "File list" command, the user can delete projects, intermediate results, final results or print file list of projects, Figure 5. It is possible to sort *BOHR*-files according to project identification data (file name, title, date and project)

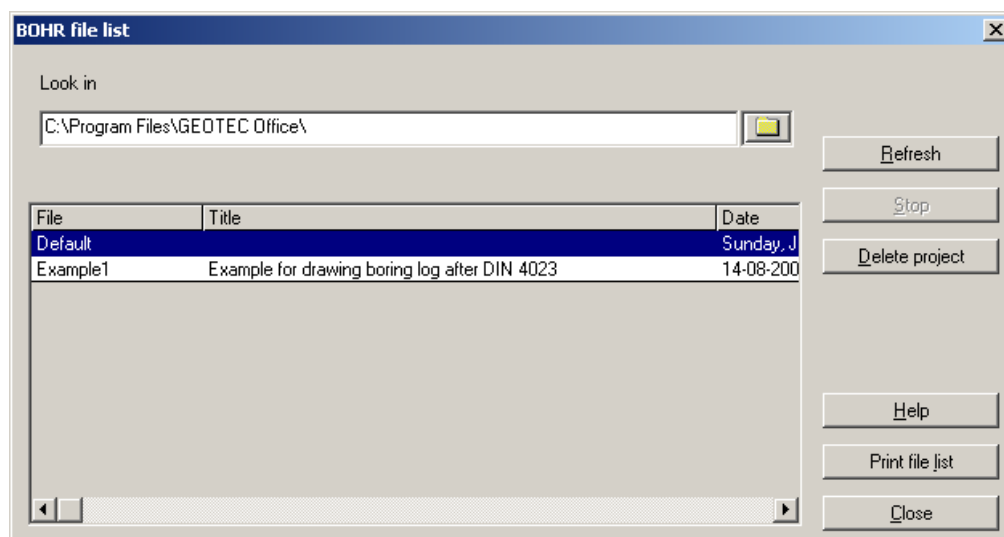


Figure 5 "BOHR File list" Dialog box

**Note:**

Deleted files by *BOHR* go to the recycled pin.

#### 4.7 File Menu—"Print" command

By the "Print" command, data and results can be graphically plotted or printed. Only the objects currently displayed on the drawing are printed. Figure 6 shows the "Print" Dialog box. The printer group box contains controls for selecting the printer and changing its properties. Use the "Name" Combo box to select the printer and use the "Properties" Button to set printer settings. The number of printing copies can be defined in the "Copies" Input box, Figure 6. For more information about printer settings, see your Windows documentation. Printing jobs can be canceled from Windows. For more information on canceling print jobs, see your Windows documentation.

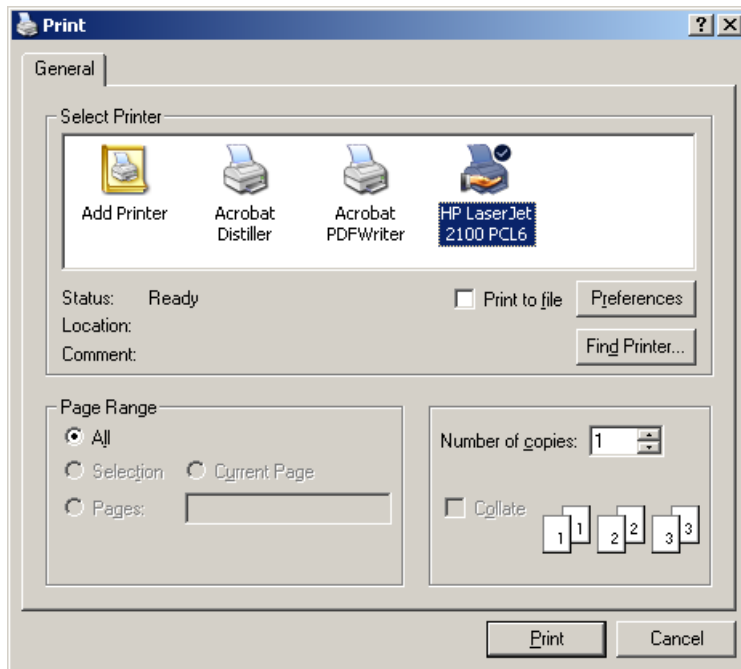


Figure 6 "Print" Input box

#### 4.8 File Menu—"Page setup" command

By the "Page setup" command, the standard "Page setup" Dialog box can be displayed with options to specify the printer, page orientation, paper size, and paper source, as well as other printing options. Figure 7 shows the "Page setup" Dialog box.

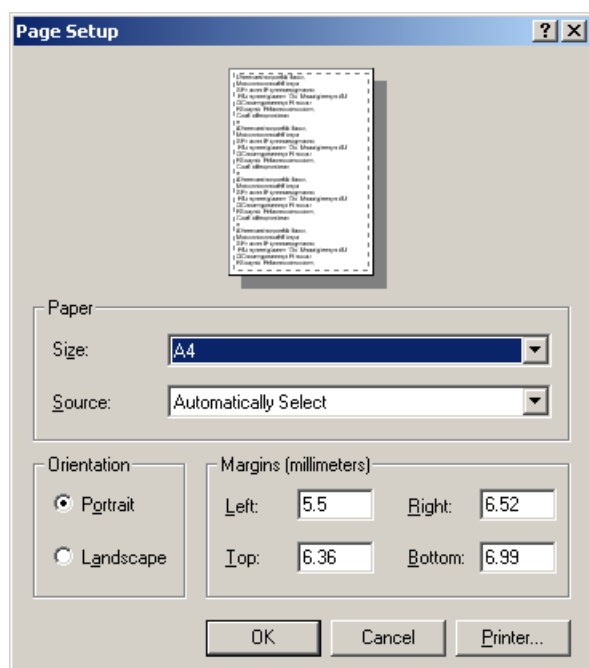


Figure 7 "Page setup" Dialog box

**Note:**

The "*BOHR* Page setup" Dialog box (Figure 7) is a common dialog used by many other Windows applications. To get help on using the Dialog box see your Windows documentation.

#### 4.9 File Menu—"Files 1, 2, 3, 4" command

By the "Files 1, 2, 3, 4" command, the user can open one of the last four defined projects.

#### 4.10 File Menu—"Exit" command

By the "Exit" command, the current project is closed and the Program *BOHR* is quitted, Figure 8.

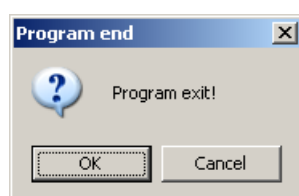


Figure 8 "Exit" Message box

## 5 View Menu

The View Menu commands are:

- Status bar
- Tool bars

### 5.1 View Menu—"Status bar" command

The "Status bar" command displays a status bar on the screen down. The status bar displays information about the progress of the current operation.

### 5.2 View Menu—"Tool bars" command

The "Tool bars" command displays tool bars located just below the menu head. Tool bars contain icons of program menus.

## 6 Data Menu

The Data Menu is the main menu, which are used to define the boring.

The Data Menu commands are:

- Project identification
- Soil data
- Foundation properties

### 6.1 Data Menu—"Project identification" command

By The "Project identification" command, the information to identify the problem can be specified, Figure 9. This information is required for printing and plotting the data and results. As shown in Figure 9, the date can be defined from the computer calendar.

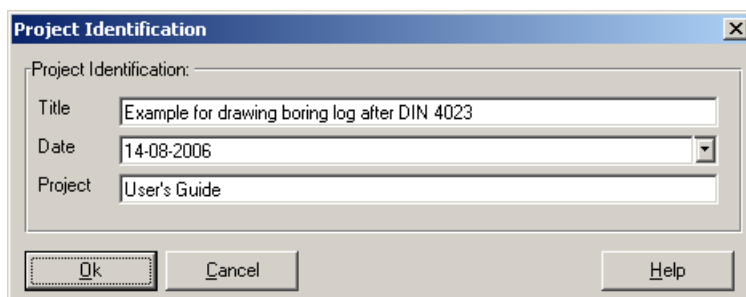


Figure 9 "Project identification" Dialog box

### 6.2 Data Menu—"Soil Data" command

By The "Soil Data" command, the information to draw the soil layers by different symbols according to the German specification code DIN 4023 can be specified.

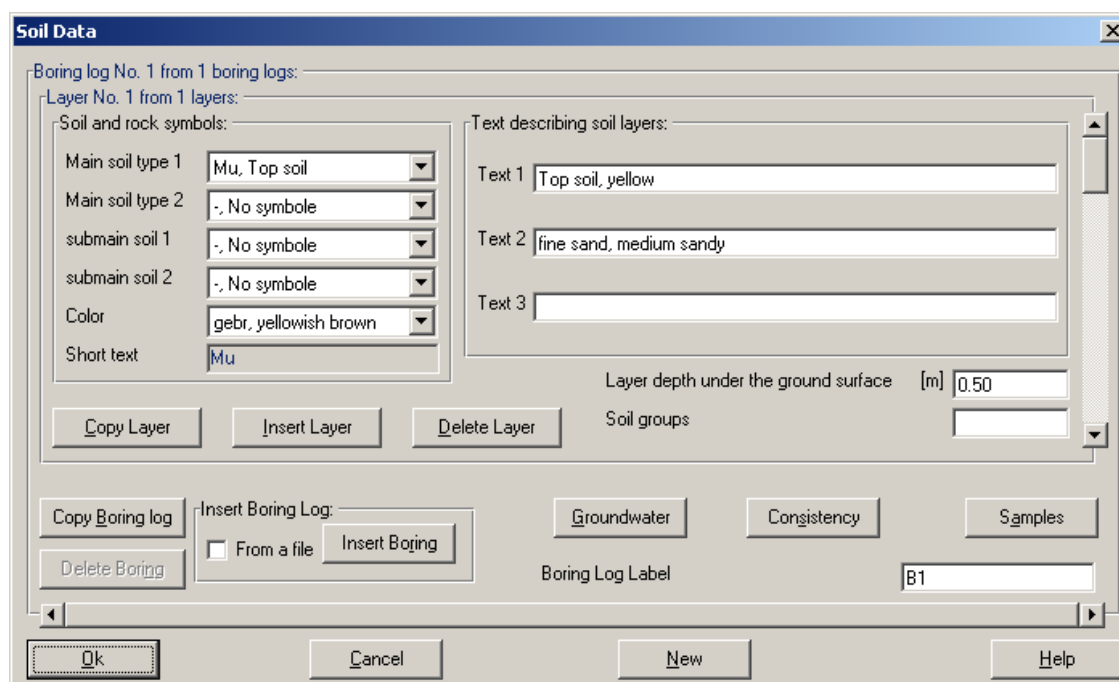


Figure 10 "Soil Data" Dialog box

Figure 10 shows the "Soil Data" dialog box which contains the following:

### Layer data Frame box

Define the soil art, color, depth and description of each layer.

### Groundwater

"Groundwater" Dialog box Defines the groundwater level, measurement date and description of the boring log, Figure 11.

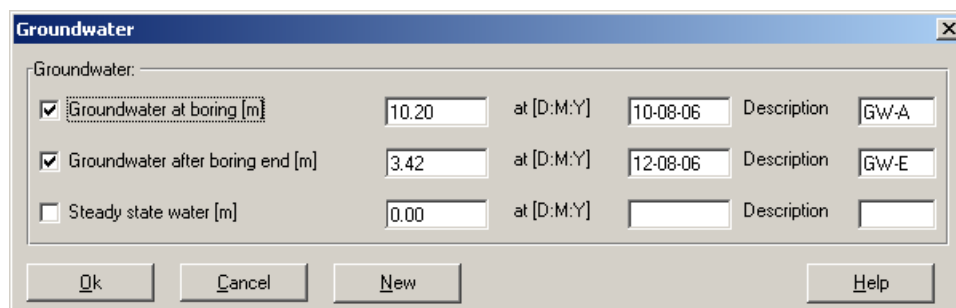


Figure 11 "Groundwater" Dialog box

## Consistency

Figure 12 displays the "Consistency" dialog box which Defines the consistencies of boring logs.

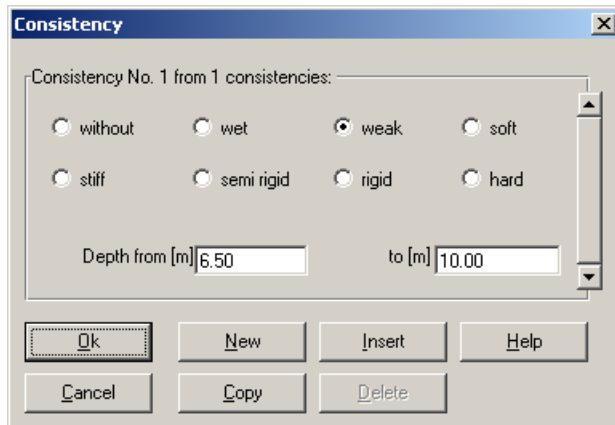


Figure 12 "Consistency" Dialog box

## Samples

To define the core and special samples of boring logs, use the "Samples" dialog box as shown in Figure 13.

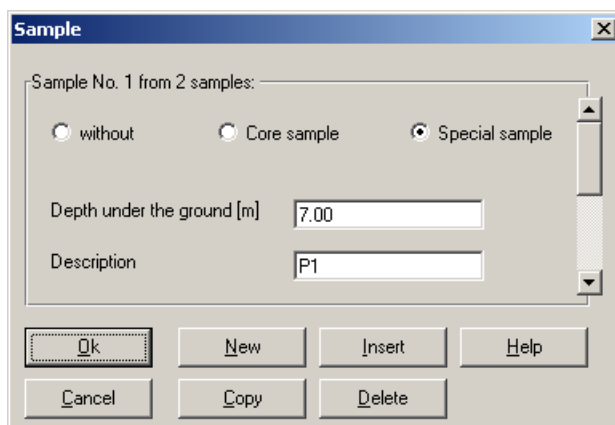


Figure 13 "Samples" Dialog box

Also, Copy, Insert and Delete commands for both soil layer and boring log are available. Further more, boring logs can be inserted from a file by selecting the "From file" check box in the "Boring insert" Frame box.

### 6.3 Data Menu—" Foundation Properties" command

By The "Foundation Properties" command, the foundation thickness and depth under ground surface can be defined, Figure 14.

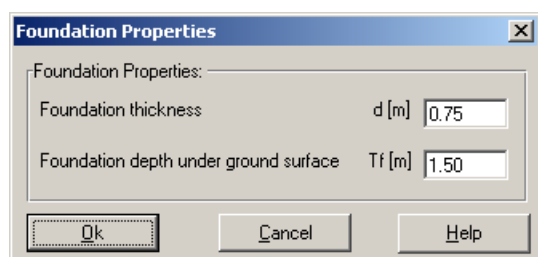


Figure 14 "Foundation Properties" Dialog box

## 7 Graphic Menu

The graphic menu is the main menu, which used to display the specified drawing with the setting given by options, format and window menus.

The Graphic Menu command is:

- Boring logs

### 7.1 Graphic Menu–"Boring logs" command

By "Boring logs" command, the boring logs (boring layers, soil material and water table) can be displayed.

When "Boring logs" command is chosen, if there is more than one boring log, the selection Dialog box shown in Figure 15 appears. In this Dialog box, select the boring logs to draw, then click "Ok" Button. Figure 16 shows, as an example, a group of boring logs.

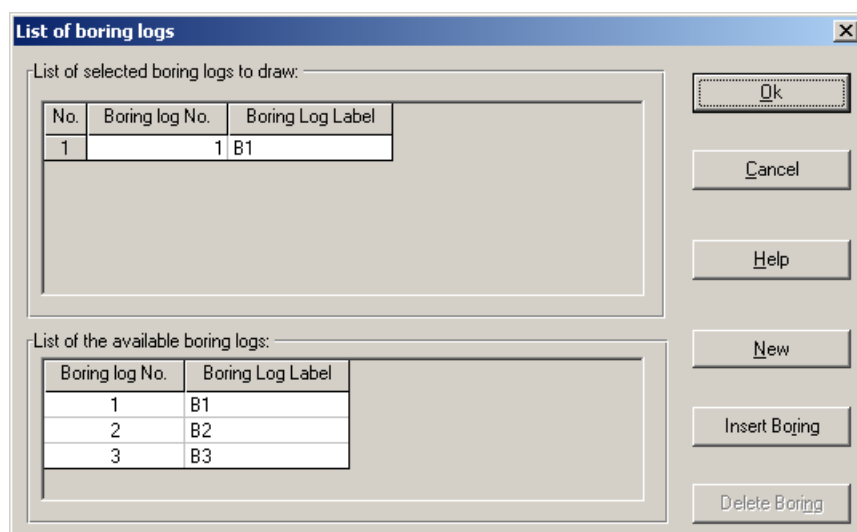


Figure 15 "List of borings" Dialog box

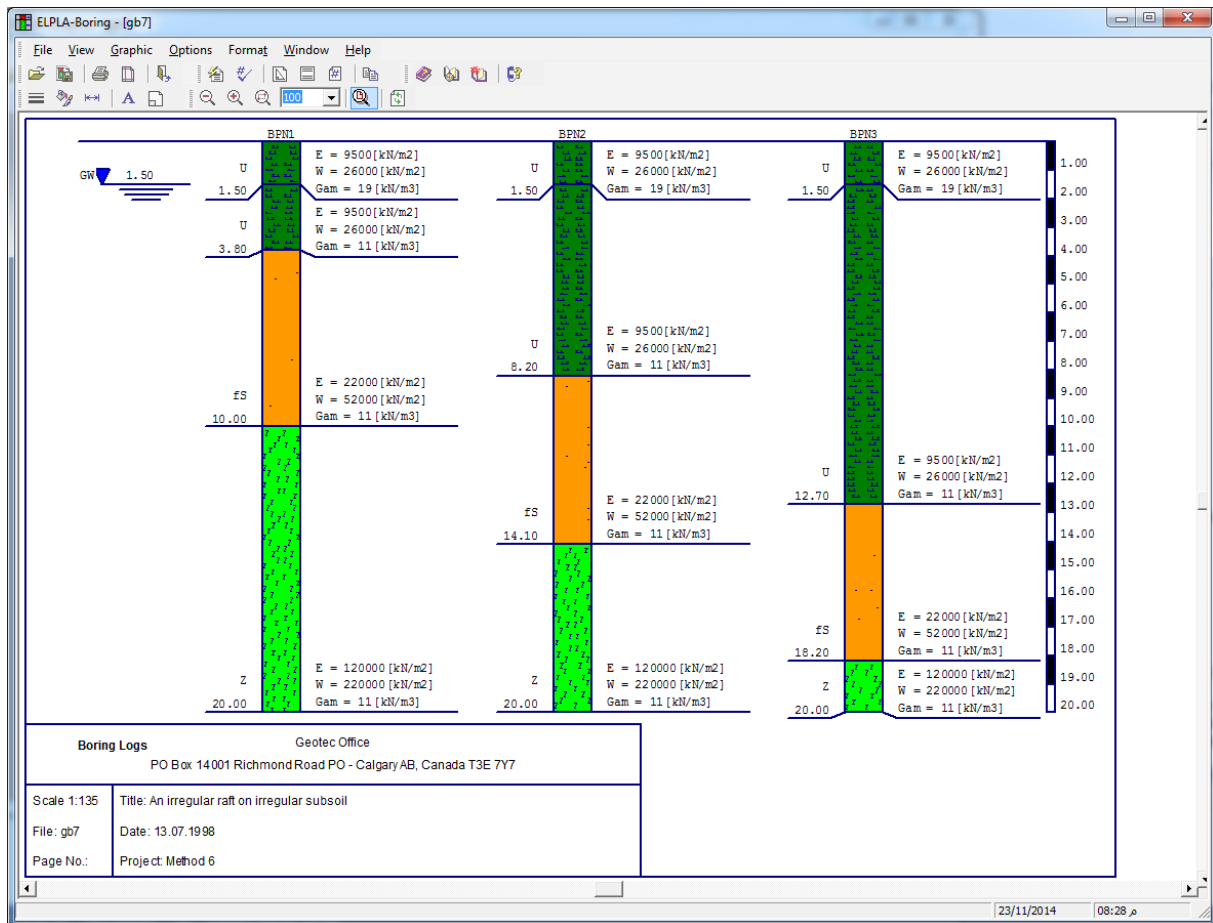


Figure 16 Borings with multi-layers with different soil material

## 8 Options Menu

The Options menu has the following commands:

- Plot parameters
- Display values
- Scale
- Title
- Page No.
- Copy

### 8.1 Options Menu—"Plot parameters" command

Plot parameters may be set as default values by the program, or be fully specified by the user. By the "Plot parameters" command, the following plot parameters can be specified, Figure 17:

- Page with a frame
- Color soil layers
- Draw the water table
- Simple drawing of boring logs
- Color foundation



- Draw foundation
- Draw the measurement bar

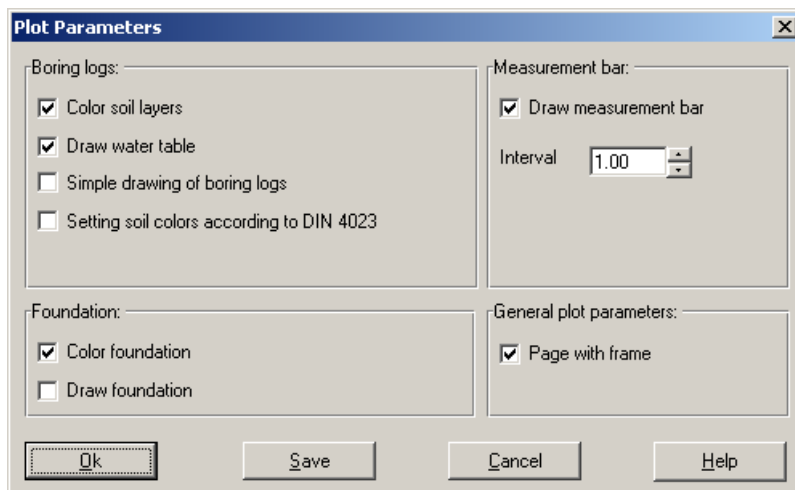


Figure 17 "Plot parameters" Dialog box

## 8.2 Options Menu—"Display values" command

By the "Display values" command, the values of the following items can be displayed, if desired, on the drawing, Figure 18:

- Boring log label
- Layer description
- Layer depth
- Display text of soil symbols
- Measurement bar
- Foundation
- Water level

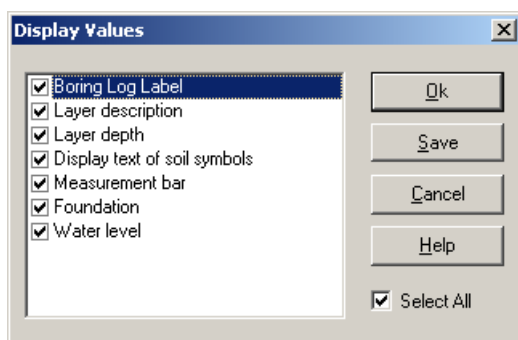


Figure 18 "Display values" Dialog box

### 8.3 Options Menu—"Scale" command

By the "Scale" command, the scale of the drawing can be defined as shown in Figure 19. The defaulted value for the scale factor is chosen to pass the active printer-paper format.

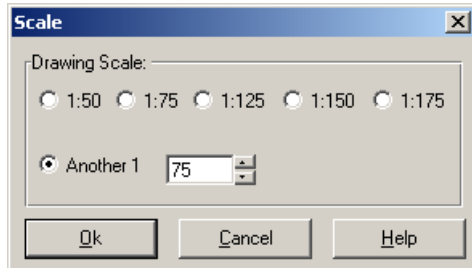


Figure 19 "Scale" Dialog box

### 8.4 Options Menu—"Title" command

By the "Title" command the text data (two line texts above the drawing and two line texts under the drawing) can be defined, Figure 20.

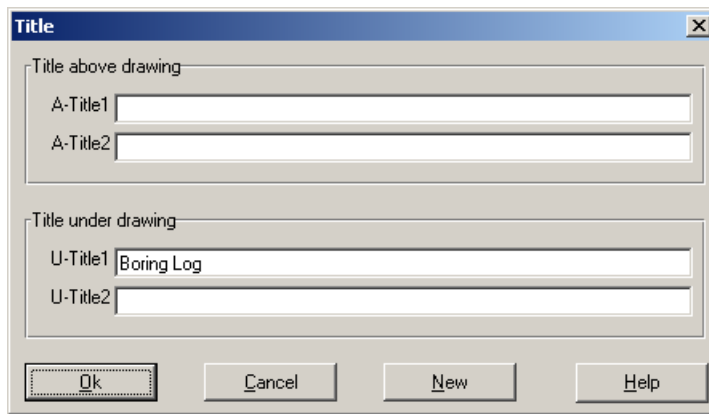


Figure 20 "Title" Dialog box

### 8.5 Options Menu—"Page No." command

By the "Page No. " command, the page No. can be defined, Figure 21.

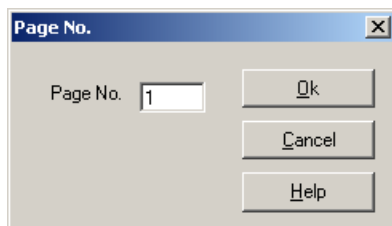


Figure 21 "Page No. " Dialog box

## **8.6 Options Menu—"Copy" command**

By the "Copy" command, the current drawing can be copied in Metafile-Format to Clipboard. Then, it can be inserted directly to other Windows programs such as Word, WordPerfect and AutoCAD.

## **9 Format Menu**

The Format menu has the following commands:

- Line formats
- Fill color
- Max. width
- Font
- Legend

### **9.1 Format Menu—"Line formats" command**

By the "Line formats" command, the color, style and thickness of drawing lines can be defined, Figure 22. The way a line is drawn depends on the setting of the color and style properties. There are available 15 different colors and 5 styles for line formats.

The following list shows the available lines, which can be formatted:

- Identification box
- Page Boundary
- Boring boundary
- Soil layer levels
- Soil symbols
- Groundwater
- Foundation
- Measurement bar
- Consistency
- Soil groups
- Core sample
- Special sample

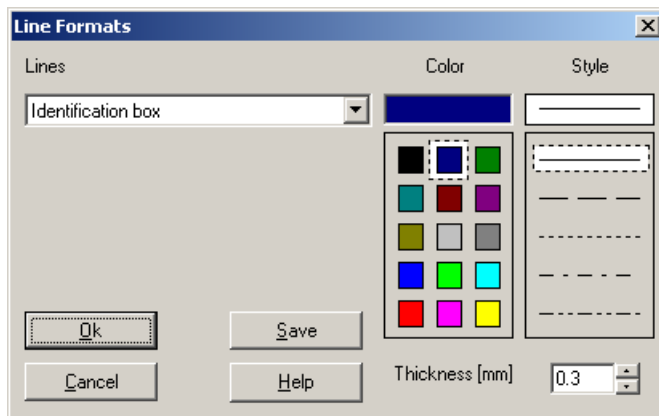


Figure 22 "Line formats" Dialog box

## 9.2 Format Menu—"Fill color" command

By the "Fill color" command, the fill color of drawing can be defined, Figure 23. The following list shows the available items, which can be filled with a specified color:

- Groundwater
- Foundation
- Measurement bar
- Special sample

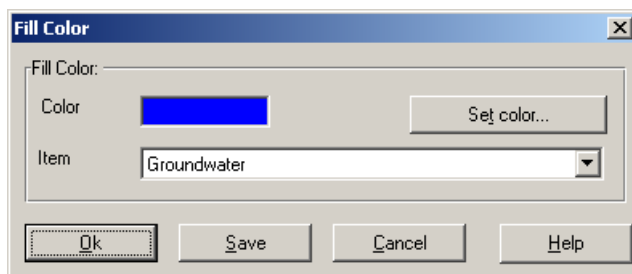


Figure 23 "Fill color" Dialog box

## 9.3 Format Menu—"Max. width" command

By "Max. width", the maximum width for the drawing can be defined, Figure 24.

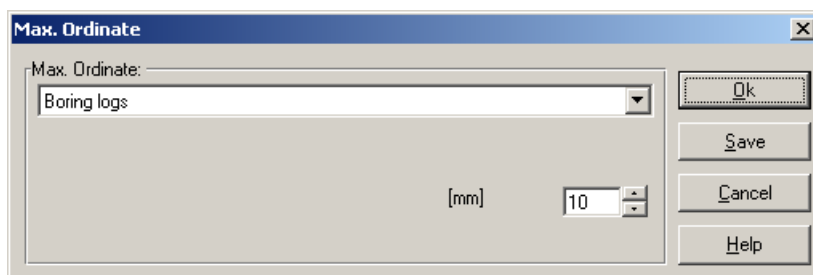


Figure 24 "Max. width" Dialog box

## 9.4 Format Menu—"Font" command

By the "Font" command, the font size (Figure 25) and font type (Figure 26) for the drawing can be defined.

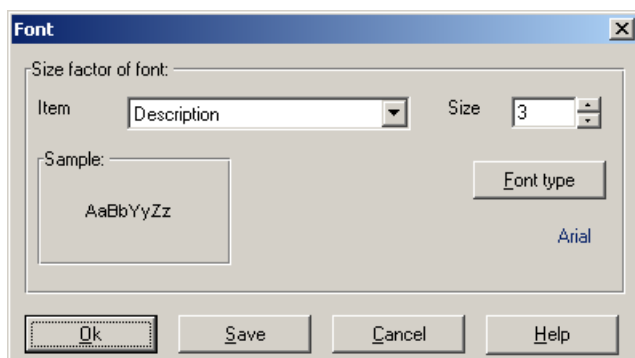


Figure 25 "Font size" Dialog box

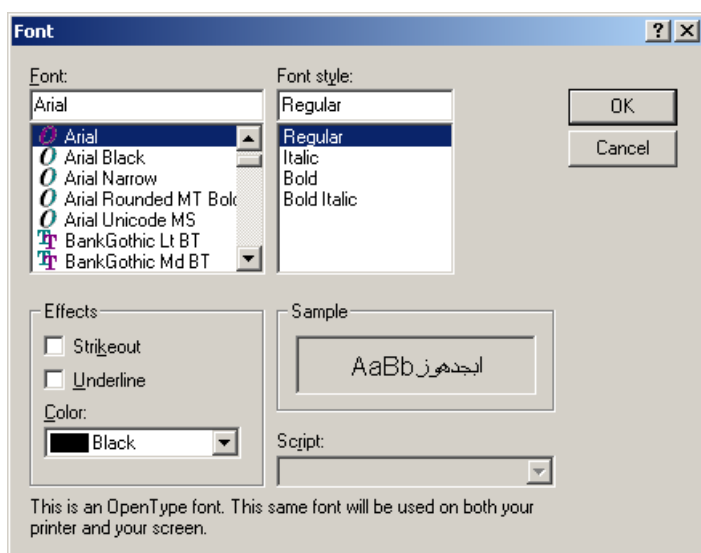


Figure 26 "Font type" Dialog box

Note: The "BOHR Font" Dialog box Figure 26 is a common dialog used by many other Windows applications. To get help on using the Dialog box see your Windows documentation.

## 9.5 Format Menu—"Legend" command

By the "Legend" command, the height and width of legends can be specified as shown in Figure 27.

**Display legend:**

In the "Display legend" Group box, check the legend that you wish to display.

**Legend size:**

In the "Legend size" Group box, the height and width of the legend can be defined.

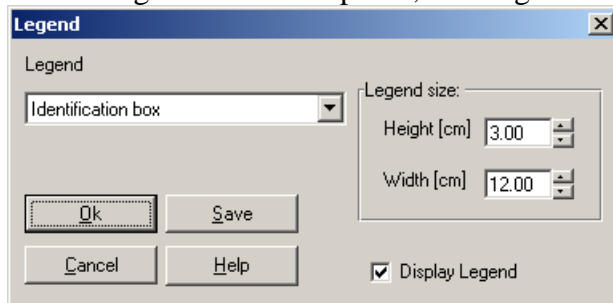


Figure 27 "Legend" Dialog box

## 10 Window Menu

The Window menu has the following commands:

- Zoom in
- Zoom out
- Zoom window
- Zoom %
- Original size

### 10.1 Window Menu—"Zoom in" command

By the "Zoom in" command, the size of the drawing on the screen can be reduced.

### 10.2 Window Menu—"Zoom out" command

By the "Zoom out" command, the size of the drawing on the screen can be increased.

### 10.3 Window Menu—"Zoom window" command

By the "Zoom window" command, the size of the drawing on a specified area can be increased.

### 10.4 Window Menu—"Zoom %" command

When you choose "Zoom %" command, the following Dialog box appears, Figure 28.

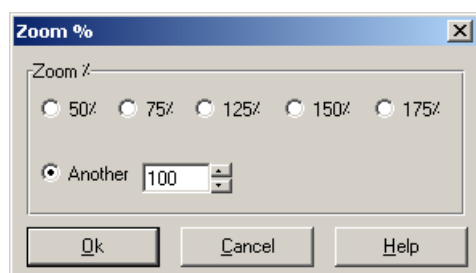


Figure 28 "Zoom %" Dialog box

By the "Zoom %" command, the size of drawing on the screen can be specified. Choosing "Zoom %" allows you to increase or decrease the size at which the drawing is displayed. Choosing 100% displays the drawing at its original size. Clicking on the percentage, changes the drawing size to the specified percentage. The drawing can be displayed at any size by typing the desired percentage in the specified Edit box.

The percentage must be a positive number greater than zero. The maximum percentage allowed is a function of the working page size, units, and scale. Windows NT allows you to specify a much larger zoom percentage than Windows 95. If you specify a zoom percentage that is too large, an error message will appear.

### 10.5 Window Menu—"Original size" command

The commands "Zoom in", "Zoom out" and "Zoom %" can change the size of drawing on the screen. The drawing can be display in its original size again using the "Original size" command.

## 11 Main Data Menu

The Main Data menu has the following commands:

- Firm header
- Directory of data
- Preferences
- Language settings
- System of units

### 11.1 Main Data—"Firm header" command

The "Firm header" is two line texts giving information about your firm, company, institute or office, Figure 29. This information is printed at the identification box.

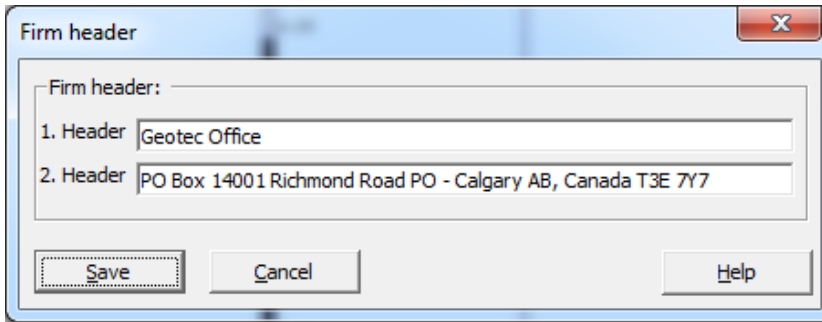


Figure 29 "Firm header" dialog box

### 11.2 Main Data—"Directory of data" command

In the dialog box of Figure 30, specify which directory is used as default directory for files that are saved or opened by *BOHR*.

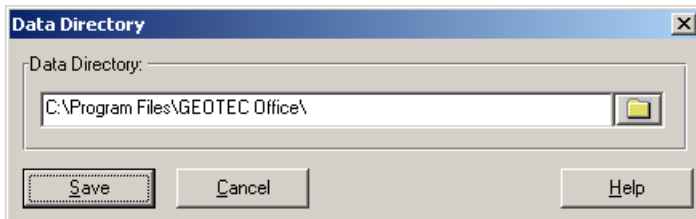


Figure 30 "Directory of data" dialog box

### 11.3 Main Data—"Preferences" command

In the dialog box of Figure 31, define the preferences of the program follows:

#### Number formats

You can choose how the numbers of results and data are printed.

The following examples describe the number formats:

Number = 5459.3472

Format "0.000" gives 5459.347

Format "0.00" gives 5459.35

Format "0.0" gives 5459.4

Format "0" gives 5459

Format "00E+00" gives 55E+02 (Exponential format)

#### Default Soil Data

Specify which file is used as default soil data for new files that created by *BOHR*.



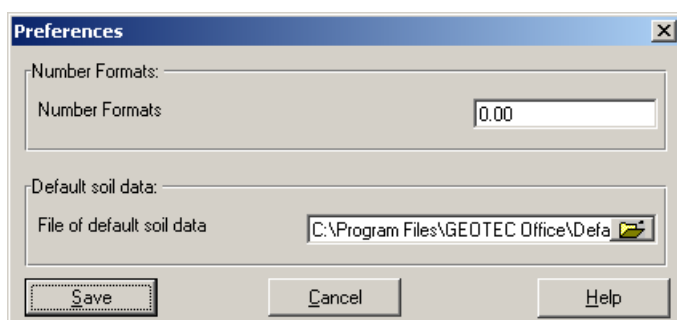


Figure 31 "Preferences" dialog box

#### 11.4 Main Data—"Language Settings" command

By the "Language Settings" command, you can change the language of the menus and dialog boxes used in the GEOTEC Office applications (Figure 32). After selecting a new language, you must quit and restart any Office applications you are currently using. Also you can change the language of the Help system used in the GEOTEC Office applications. Three languages are available; English, German and Arabic.

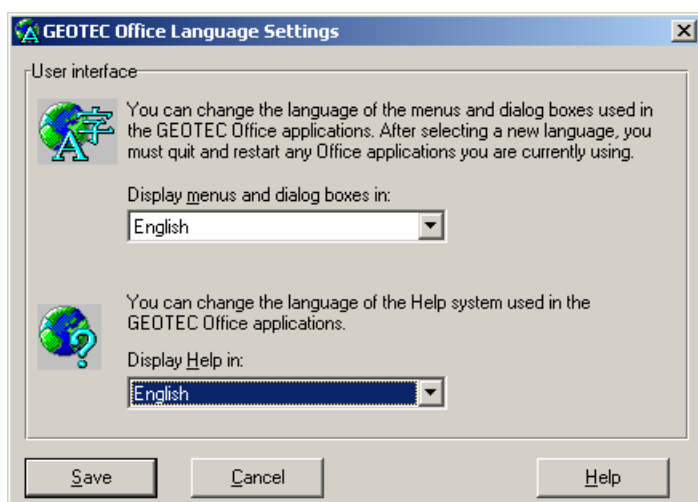


Figure 32 "Language settings" dialog box

#### 11.5 Main Data—"System of unit" command

By the "System of unit" command, Different unit systems such as SI-system or English-system can be set without changing the real value of any previously defined data, Figure 33.

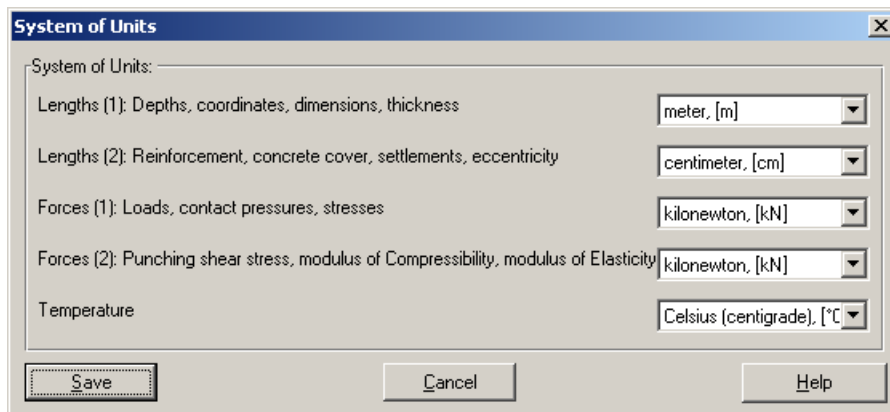


Figure 33 "System of units" dialog box

## 12 Help Menu

The Help Menu commands are:

- Contents
- Short description of *BOHR*
- New in *BOHR*
- About *BOHR*

### 12.1 Help Menu—"Contents" command

The "Contents" command displays a help file in HTML-Format contains the complete *BOHR* User's Guide, Figure 34.

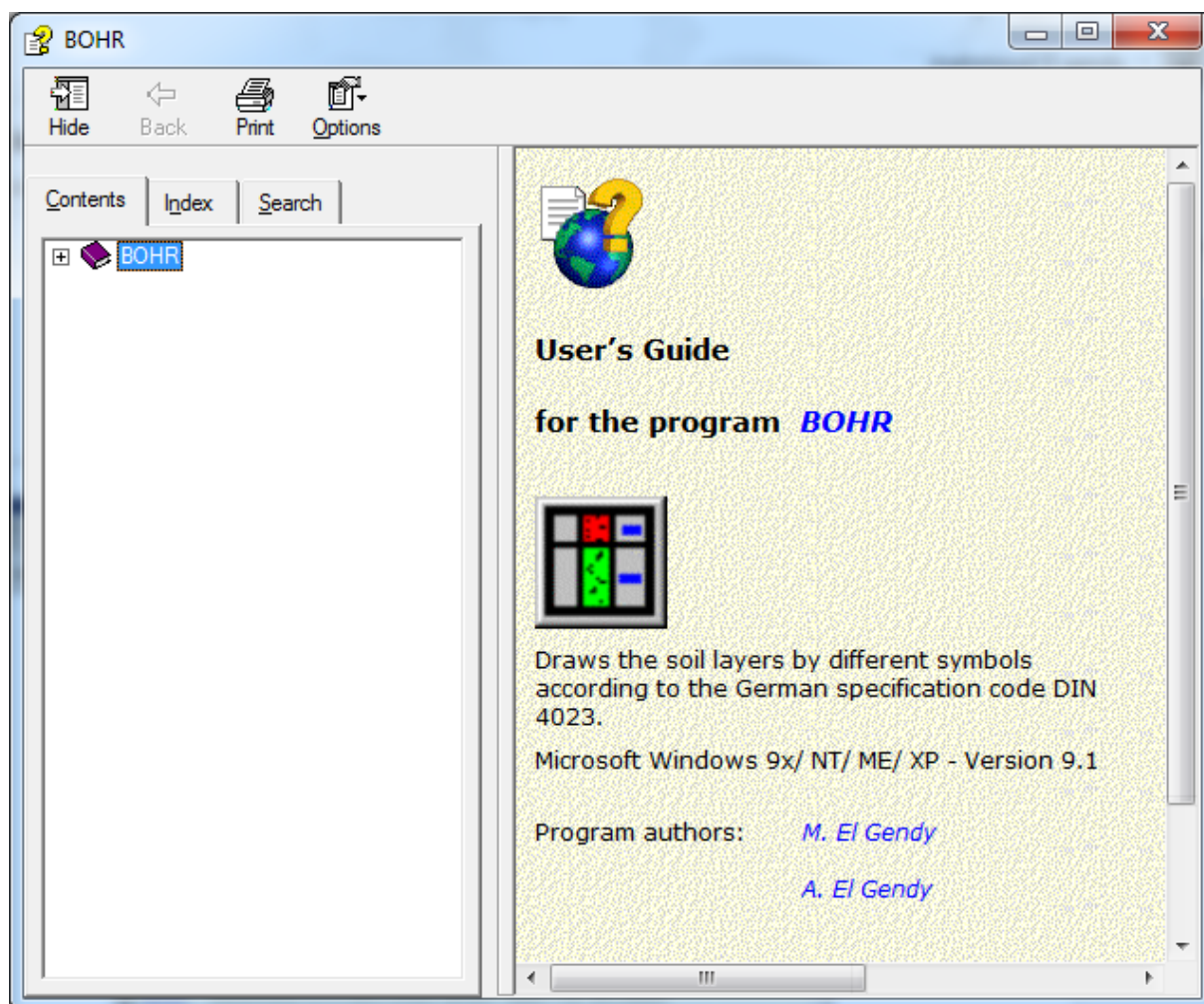


Figure 34 Menu "Contents"

### 12.2 Help Menu—"Short description of *BOHR*" command

The "Short description of *BOHR*" command, gives a short description of the program *BOHR* package.

### 12.3 Help Menu—"New in *BOHR*" command

The "New in *BOHR*" command summarizes the new features and enhancements in *BOHR* version 9.0 over the previous versions.

### 12.4 Help Menu—"About *BOHR*" command

Clicking the command "About *BOHR*", displays the information form of the program *BOHR* as shown in Figure 35, which gives information about program *BOHR*.

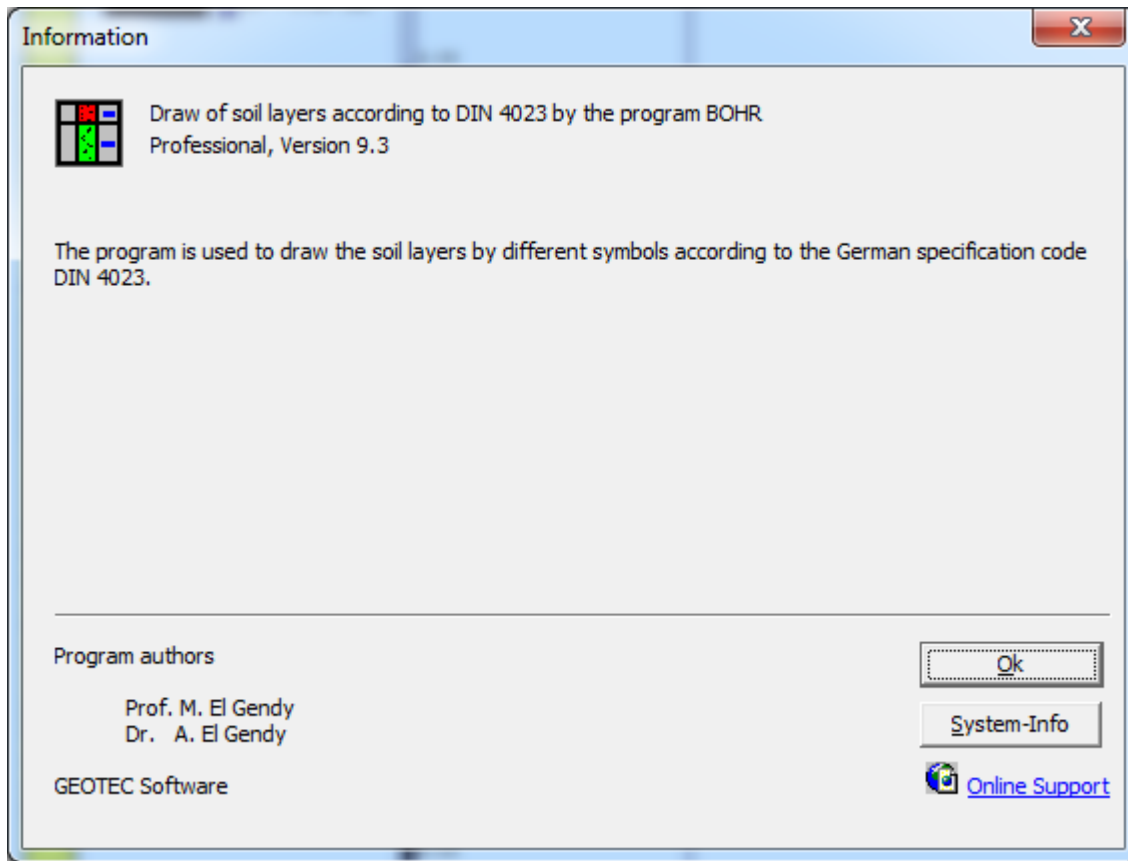


Figure 35 Information form of program *BOHR*

## 13 Tips and Tricks

### 13.1 Keyboard

The user can obtain all menu titles and commands also through Shortcut keys. The action of the Shortcut keys is listed in Table 3 to Table 12:

Table 3 Shortcut keys of menu head

Shortcut keys	Action
[Alt+f]	Calling menu head "File"
[Alt+v]	Calling menu head "View"
[Alt+d]	Calling menu head "Data"
[Alt+g]	Calling menu head "Graphic"
[Alt+o]	Calling menu head "Options"
[Alt+t]	Calling menu head "Format"
[Alt+w]	Calling menu head "Window"
[Alt+m]	Calling menu head "Main Data"
[Alt+h]	Calling menu head "Help"

Table 4 Shortcut keys of File-Command

Shortcut keys	Action
[Ctrl +n] or [Alt+f] then [n]	Calling command "New"
[Ctrl +o] or [Alt+f] then [o]	Calling command "Open"
[Ctrl +s] or [Alt+f] then [s]	Calling command "Save"
[Alt+f] then [a]	Calling command "Save As"
[Alt+f] then [w]	Calling command "Make WMF-File"
[Alt+f] then [l]	Calling command "File List"
[Ctrl +p] or [Alt+f] then [p]	Calling command "Print"
[Alt+f] then [u]	Calling command "Page setup"
[Alt+f] then [1]	Calling the first project from the last four defined projects
[Alt+f] then [2]	Calling the second project from the last four defined projects
[Alt+f] then [3]	Calling the third project from the last four defined projects
[Alt+f] then [4]	Calling the fourth project from the last four defined projects
[Ctrl+q] or [Alt+f] then [x]	Calling command "Exit"

Table 5 Shortcut keys of View-Command

Shortcut keys	Action
[Alt+v] then [b]	Calling command "Status Bar"
[Alt+v] then [t]	Calling command "Toolbars"
[Alt+v] then [t], then [f]	Calling command "Toolbars-File"
[Alt+v] then [t], then [d]	Calling command "Toolbars-Data"
[Alt+v] then [t], then [o]	Calling command "Toolbars-Options"
[Alt+v] then [t], then [t]	Calling command "Toolbars-Format"
[Alt+v] then [t], then [w]	Calling command "Toolbars-Window"
[Alt+v] then [t], then [m]	Calling command "Toolbars-Main Data"
[Alt+v] then [t], then [h]	Calling command "Toolbars-Help"
[Alt+v] then [t], then [r]	Calling command "Reset Toolbar"

Table 6 Shortcut keys of Data-Command

Shortcut keys	Action
[Alt+d] then [p]	Calling command "Project Identification"
[Alt+d] then [s]	Calling command "Soil Data"
[Alt+d] then [a]	Calling command "Foundation Properties"

Table 7 Shortcut keys of Graphic-Command

Shortcut keys	Action
[Alt+g] then [o]	Calling command "Boring Logs "

Table 8 Shortcut keys of Options-Command

Shortcut keys	Action
[Alt+o] then [l]	Calling command "Plot Parameters"
[Alt+o] then [d]	Calling command "Display Values"
[Alt+o] then [s]	Calling command "Scale"
[Alt+o] then [t]	Calling command "Title"
[Alt+o] then [p]	Calling command "Page No."
[Alt+o] then [c]	Calling command "Copy"

Table 9 Shortcut keys of Format-Command

Shortcut keys	Action
[Alt+t] then [l]	Calling command "Line Formats"
[Alt+t] then [i]	Calling command "Fill Color"
[Alt+t] then [x]	Calling command "Max. Width"
[Alt+t] then [f]	Calling command "Font"
[Alt+t] then [d]	Calling command "Legend"

Table 10 Shortcut keys of Window-Command

Shortcut keys	Action
[Alt+w] then [i]	Calling command "Zoom In"
[Alt+w] then [o]	Calling command "Zoom Out"
[Alt+w] then [w]	Calling command "Zoom Window"
[Alt+w] then [z]	Calling command "Zoom %"
[Alt+w] then [r]	Calling command "Original Size"

Table 11 Shortcut keys of Main Data –Command

Shortcut keys	Action
[Alt+m] then [f]	Calling command "Firm Header"
[Alt+m] then [d]	Calling command "Data Directory"
[Alt+m] then [p]	Calling command "Preferences"
[Alt+m] then [l]	Calling command "Language Settings"
[Alt+m] then [s]	Calling command "System of Units"

Table 12 Shortcut keys of Help-Command

Shortcut keys	Action
[Alt+h] then [c]	Calling command "Contents"
[Alt+h] then [s]	Calling command "New in <i>BOHR</i> "
[Alt+h] then [n]	Calling command "Short Description of <i>BOHR</i> "
[Alt+h] then [a]	Calling command "About <i>BOHR</i> "



## 13.2 Mouse

- By double-clicking the left mouse Button on a specified screen position, the user can obtain the almost menu of the program.
- By double-clicking on the legend, firm header, title or project identification, the corresponding menu appears
- By double-clicking on the scale in the identification box, the "Scale"-Menu appears.
- By double-clicking on the file name in the identification box, the "Open"-Menu appears.
- By double-clicking on the page No. in the identification box, the "Page No."-Menu appears.
- By double-clicking on a layer of the soil, the "Soil and rock symbols" Menu appears (Figure 36).

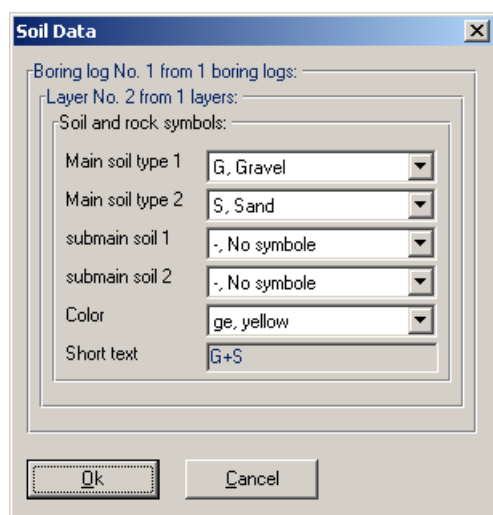


Figure 36 "Soil and rock symbols" Menu

- By double-clicking on a layer depth No., the "Layer depth under the ground surface" Menu appears (Figure 37).

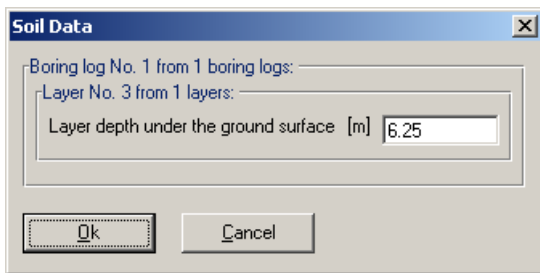


Figure 37 "Layer depth under the ground surface" Menu

- By double-clicking on the depth of steady state water, the "Depth of steady state water" Menu appears (Figure 38).

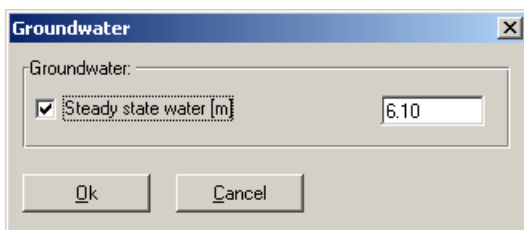


Figure 38 "Depth of steady state water" Menu

- By double-clicking on the depth of groundwater after boring, the "Depth of groundwater after boring end" Menu appears (Figure 39).

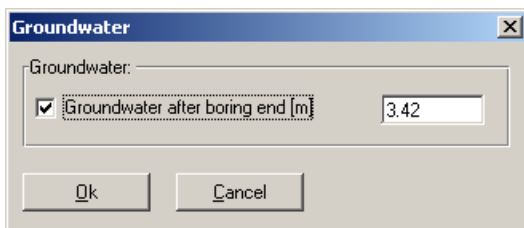


Figure 39 "Depth of groundwater after boring end" Menu

- By double-clicking on the depth of groundwater at boring, the "Depth of groundwater at boring" Menu appears (Figure 40).

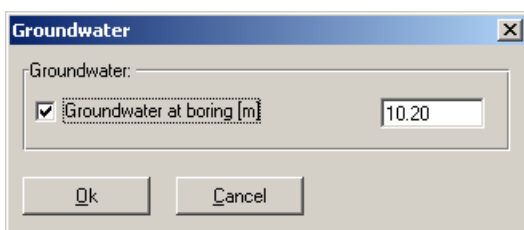


Figure 40 "Depth of groundwater at boring" Menu

- By double-clicking on the consistency, the "Consistency" Menu appears (Figure 41).

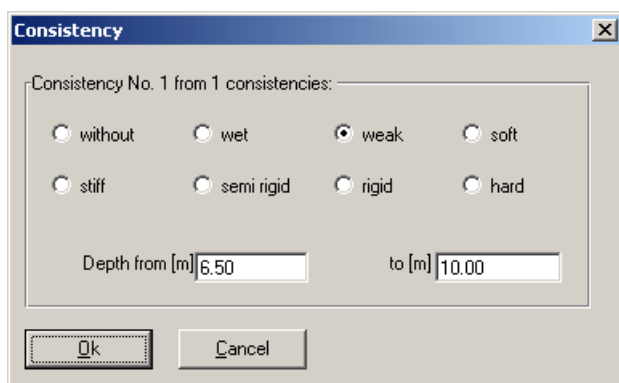


Figure 41 "Consistency" Menu

- By double-clicking on the depth of a sample, the "Depth of sample under ground surface" Menu appears (Figure 42).

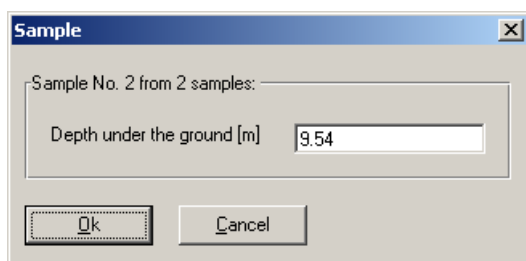


Figure 42 "Depth of sample under ground surface" Menu

- By double-clicking on a sample, the "Samples" Menu appears (Figure 43).

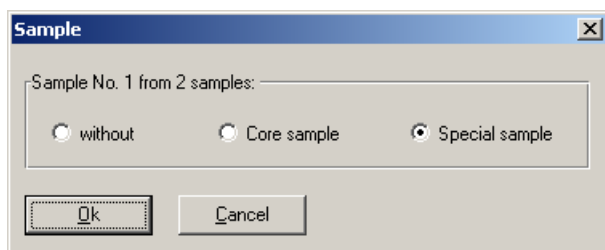


Figure 43 "Samples" Menu

- By double-clicking on the measurement bar, the "Measurement bar" Menu appears (Figure 44).

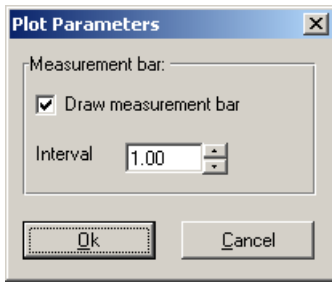


Figure 44 "Measurement bar" Menu

- By clicking the right mouse Button at any position on the screen, the user can also obtain the Pop-up- Options-Menu (Figure 45).

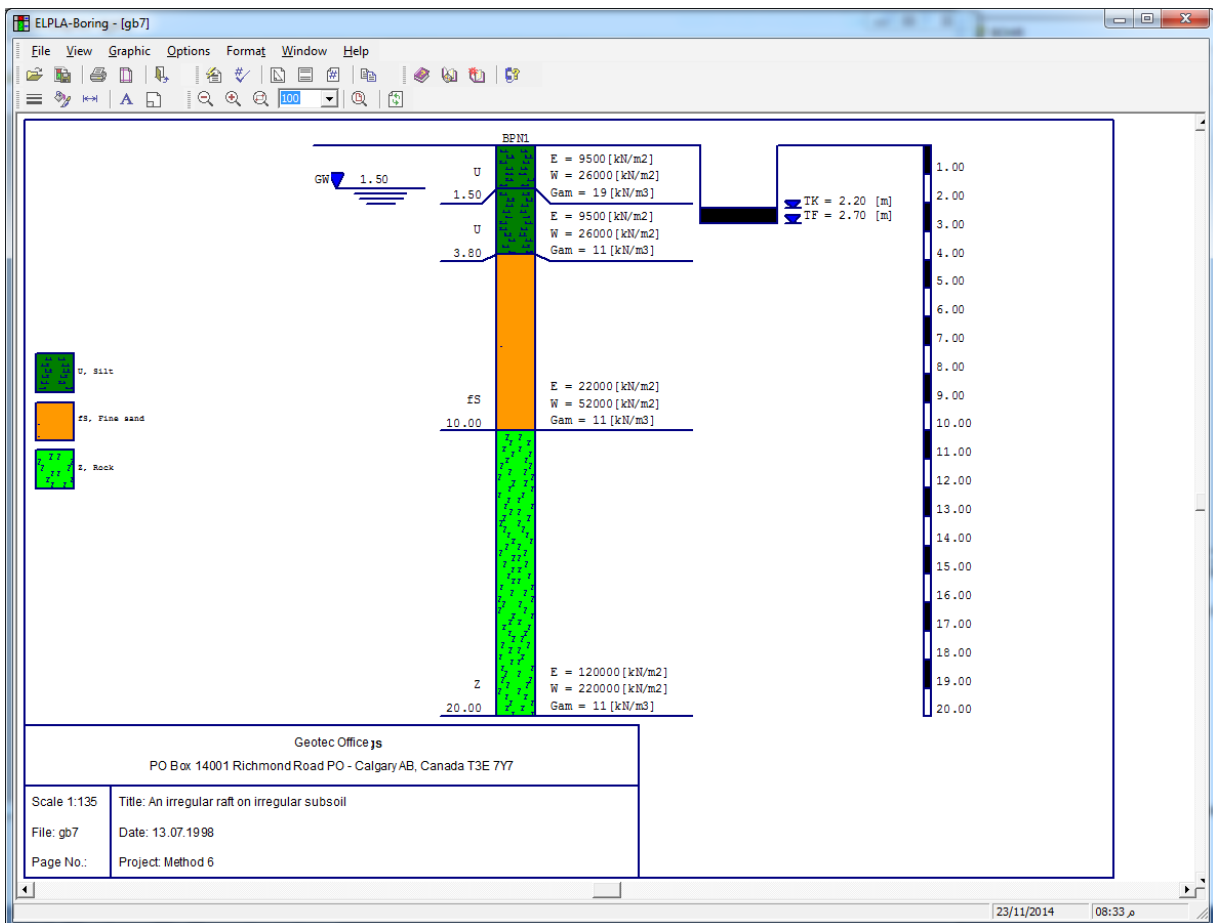


Figure 45 Menu "Pop-up-Options"

## 14 Samples for graphical drawings using the program BOHR

BOHR draws the soil layers by different symbols, where the same layers are presented with the same symbols for easy identification. For drawing the boring logs, the main symbols of German specification code are considered in the program BOHR. It is possible to draw a total number of 46 soil and rock arts in boring logs according to German Standard DIN 4023.

Samples for symbols of soil layers according to German Standard DIN 4023 are present in page P1 while page P2 shows simple graphical presentation of boring (Table 13).

#### 14.1 Graphical drawings of boring logs

Table 13 Boring logs

Presentation	Page
Boring log according to DIN 4023	P1
Simple presentation of boring log	P2

#### 15 Reference

- [1] DIN 4023, März 1984  
Baugrund- und Wasserbohrungen. Zeichnerische Darstellung der Ergebnisse  
Beuth-Verlag, Berlin 1984

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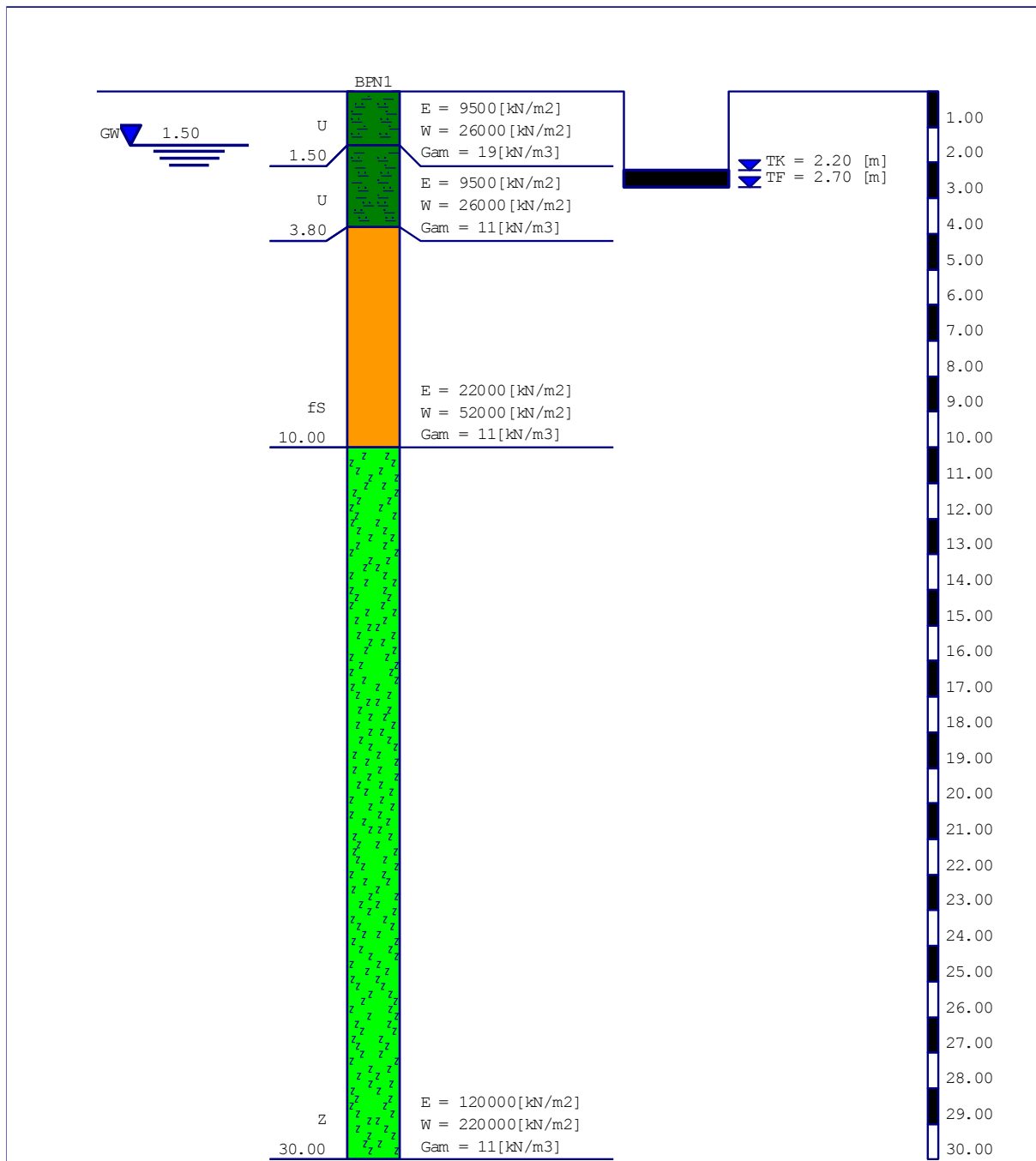
---

**W**
 Window ..... 7  
 WMF-File ..... 8, 9
 

---

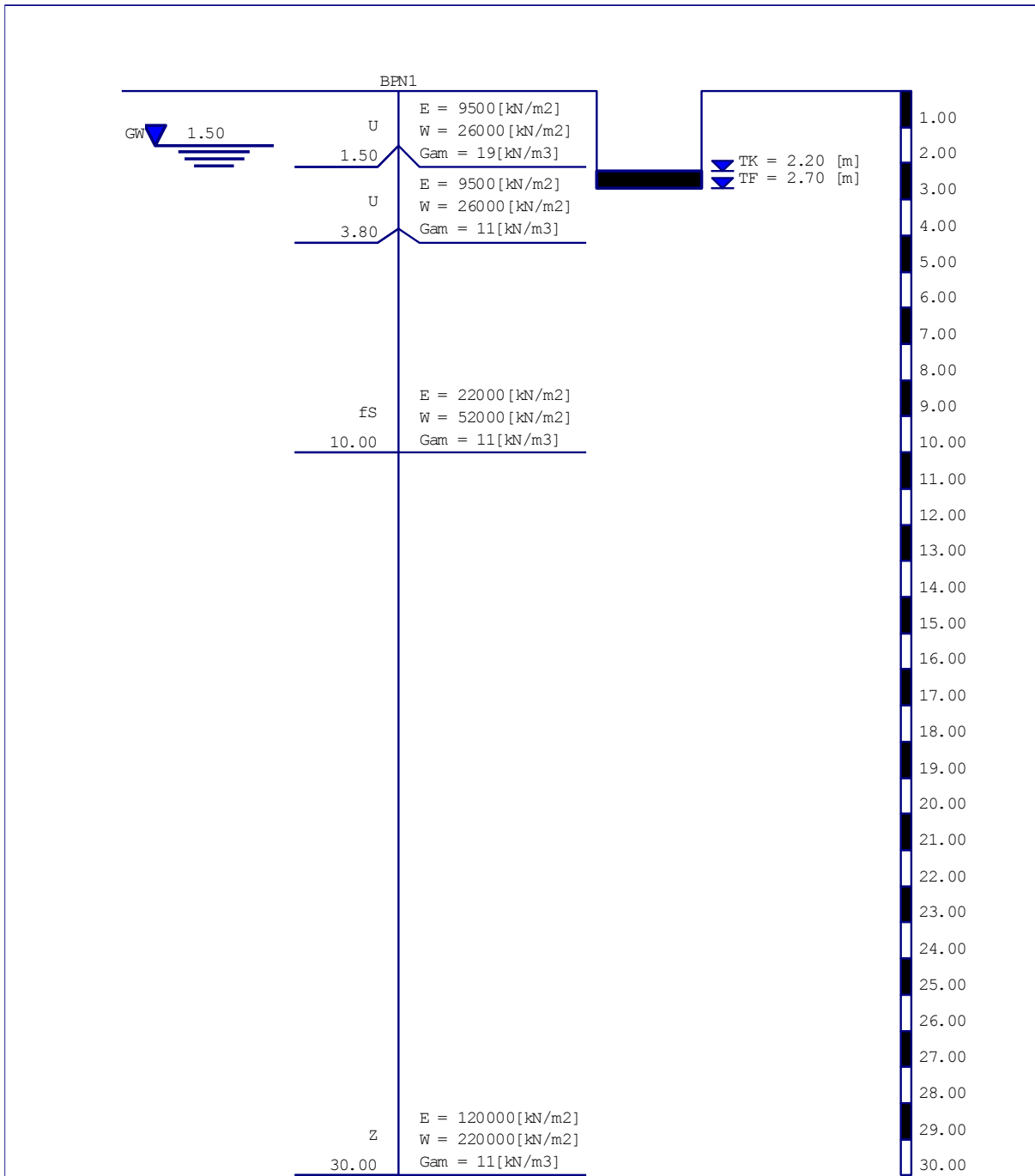
**Z**
 Zoom % ..... 27  
 Zoom in ..... 27  
 Zoom out ..... 27  
 Zoom window ..... 27
 

---



**Boring Logs**

<p>Geotec Office PO Box 14001 Richmond Road PO - Calgary AB, Canada T3E 7Y7</p>	
Scale 1:140	Title: An irregular raft on irregular subsoil
File: gb7	Date: 13.07.1998
Page No.:	Project: Method 6



**Boring Logs**

<p>Geotec Office PO Box 14001 Richmond Road PO - Calgary AB, Canada T3E 7Y7</p>	
Scale 1:140	Title: An irregular raft on irregular subsoil
File: gb7	Date: 13.07.1998
Page No.:	Project: Method 6



# Part B

## New features and enhancements in the program *BOHR*



Draws soil layers according to German specification code DIN 4023.

Version 9.3

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## New features and enhancements

### 1 Preface

The program *BOHR* is a part of the program group GEOTEC that was developed firstly under the operating system MS-DOS and then it was revised for the operating system MS Windows 95 in order to use possibilities of the user interface offered in it. The program runs also under Windows XP / Vista / 7 / 8.

The most important enhancements in *BOHR* of versions 9.1 are explained in next paragraphs.

### 2 Enhancements in *BOHR* 9.1 (MUI)

#### 2.1 GEOTEC Office Applications with Multilingual User Interface

The new English-language versions of GEOTEC Office applications with Multilingual User Interface (MUI) are now available. The Multilingual User Interface Pack is a set of language XML resource files that can be added to the English version of GEOTEC Office applications. MUI Pack allows the user interface language to be changed according to preferences of individual users to one of the available supported languages. MUI Pack provides a single version of GEOTEC Office applications to which users can add one or more MUI Packs providing local user interface and help files. Now, three languages are already available in *BOHR* 9.1; English, German and Arabic.

The major benefits of the new MUI Pack are:

- Allows user interface switching between languages
- Easy to update with new languages
- Language-specific updates do not affect all languages
- Languages are XML based resources that make it easier to users to add their own languages.

#### 2.2 GEOTEC Office Language Settings

Now the user can define the language of the user interface and help system used in GEOTEC Office applications. To select or change GEOTEC Office language setting, start “GEOTEC Office Language Settings” tool by clicking on the program icon in the Windows *Start-Menu* > *GEOTEC Office* > *GEOTEC Office Tools*. The language-setting tool (Figure B-1) appears.

- In the “Display menus and dialog boxes in” list box, user can change the language of the menus and dialog boxes used in the GEOTEC Office applications. After selecting a new language, the user must quit and restart any Office applications he is currently using.

- In the “Display Help in” list box, the user can change the language of the Help system used in the GEOTEC Office applications.

## BOHR New features

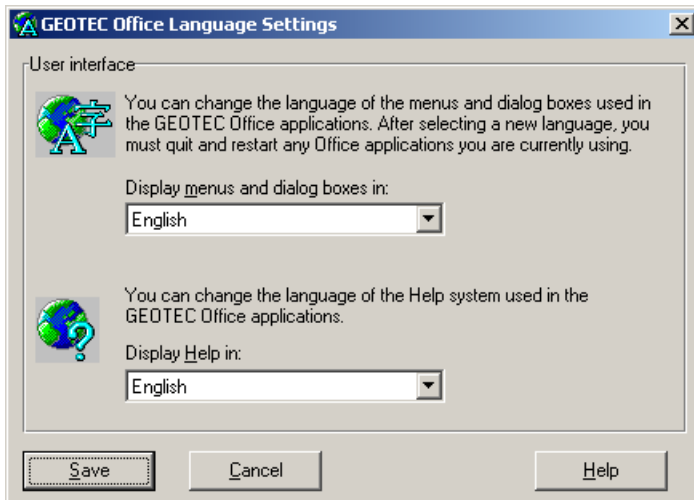


Figure B-1 "GEOTEC Office Language Settings" Tools

### 2.3 Unit systems

Different unit systems such as SI-system or English-system can be set in GEOTEC Office applications without changing the real value of any previously defined data, Figure B-2.

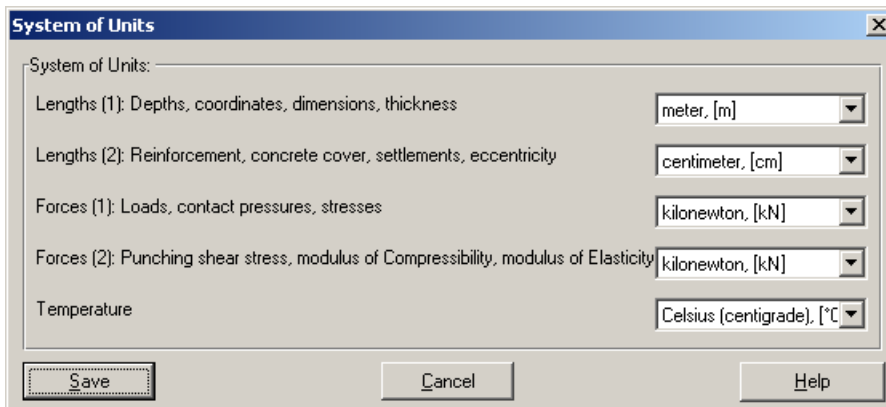


Figure B-2 Menu "Setting unit system"