

DrillSoft

WELL DRILLING PRESENTATION SOFTWARE

DrillSoft

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DrillSoft

Welcome to **DrillSoft**, your presentation software that enhances your well drilling business. When **DrillSoft** is used correctly, it will enable your clients to understand the mysteries that have often lead to misunderstanding in the water well drilling industry. Through the use of a pictorial representation of their well, clients should have a greater understanding of the strata through which their well was drilled and the setup of their pump.

Investigation and Piezometer wells are also included in the software enabling you to provide accurate and meaningful data to those clients.

Regional Authorities are finding the presentation to be very accurate and precise for updating their records.

NZ Patent Applied for.

Installing DrillSoft

DrillSoft is supplied on a CD. To install **DrillSoft** insert the CD into the CD ROM drive of your computer.

Click on the Start button (normally on the lower right hand corner of your PC). The Start Menu will appear.

Click Run on the Start Menu and type **D:setup.exe** where D: is the drive letter of your CD ROM drive.

Follow the on screen instructions. It is **strongly** recommended that you choose the default installation folder (directory) of C:\DrillSoft for this installation.

If you do not know the drive letter of your CD ROM drive, double click on the My Computer Icon to open it. The drive letters of all your drives will be displayed including your CD ROM. It will have a picture of a drive bay and a CD to guide you.

Once installed, the following procedure is used to start **DrillSoft**.

Click on the Start menu

Click on Programs

Find **DrillSoft** and click on it.

Starting DrillSoft

DrillSoft is supplied in a trial mode until payment is received and cleared. The trial mode will allow it to be used for 10 times in trial mode before a registration password must be entered. The trial mode is a fully working version. It will lock, however, after 10 uses (each time the software starts is counted as a use) until a valid password is entered.

After installing **DrillSoft**, it is recommended you complete the registration form and fax it to K S Consultancy Ltd so that a password is created and returned to you (either by fax or Email). The registration form will look like the form shown below.



The image shows a screenshot of a Windows-style window titled "Registration Form". The window has a blue title bar and a white background. At the top, the text "DrillSoft Registration Form" is displayed in a large, bold, blue font. Below this, there is a section of text in blue: "Fax to K S Consultancy Ltd 64 03 5469284 to receive your Registration Password". A note in blue text follows: "Note: Registration Password is not faxed back until appropriate payment has been received and cleared". The main area of the form contains several input fields arranged in two columns. The left column includes fields for "Your Name:", "Your Company:", "Address Line1", "Address Line2", and "Password:". The right column includes fields for "Address Line3", "Country", "Telephone", "Fax", and "EMail". At the bottom of the window, there are four buttons: "Run in Demo Mode", "Print Registration Form", "OK", and "Cancel".

To Register

All panels other than the password should be completed. Click on the **Print Registration Form** button to print your form. Fax it to KS Consultancy Ltd 64 (03) 546-9284. Upon receipt of the form, a check will be made to ensure that your payment has been cleared. Once cleared your password will be faxed or Emailed back to you.

You should start **DrillSoft** and type the password into the password panel. Then click OK to start **DrillSoft**. The password form should not appear again.

Initial Setup of DrillSoft

The first time you start **DrillSoft** the following form will appear:

The screenshot shows a Windows-style application window titled "DrillSoft". The menu bar includes "File", "Edit", "View", "Insert", "Format", "Records", "Tools", "Window", and "Help". The toolbar contains various icons for file operations and editing. The main window displays a form titled "Register Your Company" with a sub-header "Register Your Company Details". The form has a yellow background and contains the following fields and controls:

- Company Name**: A single-line text input field.
- Address**: A two-line text input field.
- City**: A single-line text input field.
- Post Code**: A single-line text input field.
- Country**: A single-line text input field.
- Telephone**: A single-line text input field.
- Fax**: A single-line text input field.
- E-Mail**: A single-line text input field.
- Prof. Body you belong to:**: A single-line text input field.
- OK**: A button located to the right of the City field.

A text box provides instructions for the telephone field: "When entering your telephone and fax numbers, make sure you include your international and area STD codes. ie 64 (03) 546-9284".

At the bottom of the window, there is a status bar with the text "Name of Your Company" and a "NUM" indicator.

Fill the panels following the instructions below:

Company Name Enter your company name in the manner you want it to appear on the top of all your print outs. Once this is set you cannot change it without assistance from the DrillSoft team.

Address Enter your Company's address. This data is not used by **DrillSoft** at present but will be used in future modules. You have two lines and a line for your City or Major Town.

Post Code Enter your postal code.

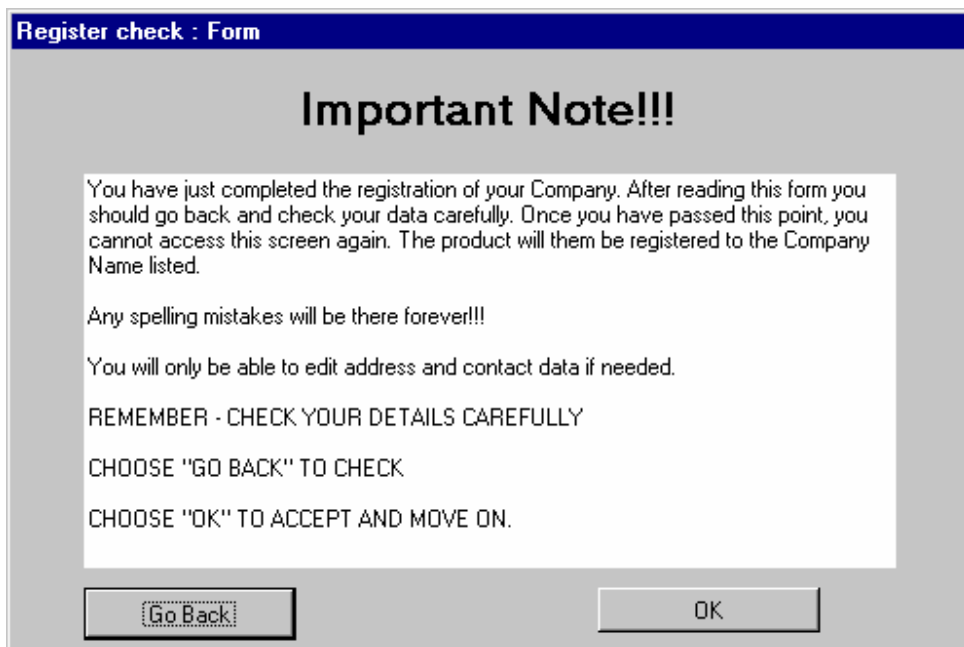
Country Enter your Country

Telephone Enter your telephone number. An input mask will assist you as you tab into this field. You need to enter your 2 digit country code, a two digit area code and your telephone number.

- Fax** Enter your fax number. Use the same format as your telephone number.
- Email** Enter your Email address (if you have one).
- Prof. Body...** Enter the accepted abbreviation for the professional drillers body you belong to. If you belong and indicate it, all reports will state "Member of"

Check you data carefully.

Once completed, click on **OK** to accept this data. You will then be given a last chance to review and change your data. Pay special attention to your company name. This is the one piece of data you cannot change at a later stage.



The screenshot shows a window titled "Register check : Form" with a grey background. At the top, the title bar is blue with white text. The main content area is white and contains the following text:

Important Note!!!

You have just completed the registration of your Company. After reading this form you should go back and check your data carefully. Once you have passed this point, you cannot access this screen again. The product will then be registered to the Company Name listed.

Any spelling mistakes will be there forever!!!

You will only be able to edit address and contact data if needed.

REMEMBER - CHECK YOUR DETAILS CAREFULLY

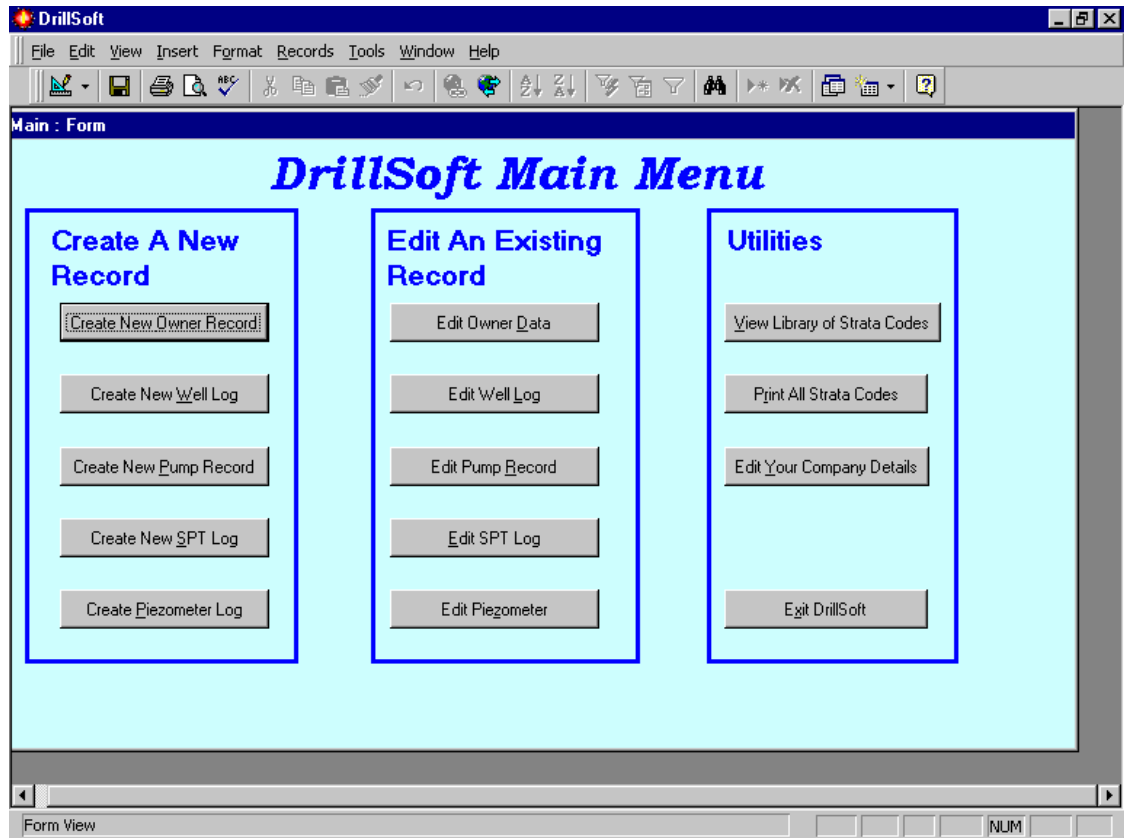
CHOOSE "GO BACK" TO CHECK

CHOOSE "OK" TO ACCEPT AND MOVE ON.

At the bottom of the window, there are two buttons: "Go Back" on the left and "OK" on the right.

When you are presented with this form, decide whether to go back and change any details by clicking on **Go Back** or accepting them by clicking **OK**.

DrillSoft Menu



This is the **DrillSoft** menu. All activities can be accessed from this menu.

The menu is divided into three sections: Create A New Record; Edit An Existing Record; and Utilities.

The Create a New Record is used to create a record (a well log is a record). Once created, any changes are made through the edit screens. You cannot access an existing record through the create screens.

There are five entry or edit screens: Owners; Well Logs; Pump Records; SPT Investigation and Sample) Logs and Piezometer Logs. All wells must have an owner. Owners may own many wells but a well can only have one owner.

To enter any of the screens shown on the menu either click on the appropriate button or hold down the Alt button and press the underlined letter on that button (while still holding down the Alt button).

To close **DrillSoft**, click on the **Exit DrillSoft** button.

Create Owners

The screenshot shows a software window titled "DrillSoft" with a menu bar (File, Edit, View, Insert, Format, Records, Tools, Window, Help) and a toolbar. The main window is titled "Entry Form - Owners : Form" and contains a form titled "Well Owner Entry". The form has a light green background and contains the following fields:

- Well Owner: [Text Input]
- Contact Person's First Name: [Text Input] (with a tooltip: "First name of owner or company contact")
- Contact Person's Surname: [Text Input]
- Postal Address: [Text Input]
- Street or Road Address: [Text Input]
- City or Town: [Text Input]
- Telephone: [Text Input]
- Mobile: [Text Input]
- Fax: [Text Input]
- EMail: [Text Input]

At the bottom of the form, there is a status bar showing "Record: 1 of 1" and a field labeled "Owner of Well" with a "NUM" button.

To enter a new owner you can use the Create New Owner button on the main menu or double click in the owner's field of the well log entry form to open this form.

Complete the fields as follows:

- Well Owner** Enter the well owner's name, as you want it to appear on your logs
- Contact Person...** Enter the contact person's first name
- Contact Last N...** Enter the contact person's last name.
- Postal Address** Enter the postal address for the owner. This can also be used for the contact person's address.
- Street Address** Enter the street address of the owner.

Telephone Enter the telephone number of the owner. You will required to enter a two digit area code and a seven digit telephone number.

Fax Enter the owner's Fax number. Use the same format as the telephone number.

Mobile Enter the owner's mobile number. This will require the three digit service number and a six or seven digit mobile number.

Email Enter the owner's Email address if known.

Editing An Owner Record

The screenshot shows a software window titled "DrillSoft" with a menu bar (File, Edit, View, Insert, Format, Records, Tools, Window, Help) and a toolbar. The main window is titled "Edit Owner Record : Form" and contains a form titled "Edit Well Owner". The form has a light green background and includes the following fields:

- A dropdown menu: "Which Well Owner do you wish to Edit?"
- A text field: "Well Owner:"
- A text field: "Contact Person's First Name:" with a tooltip that says "First name of owner or company contact".
- Two columns of address fields:
 - Left column: "Postal Contact Details" with fields for "Postal Address:" and "City or Town:".
 - Right column: "Street or Road Address" with fields for "Address:" and "City or Town:".
- Text fields for "Telephone:", "Mobile:", "Fax:", and "EMail:".

At the bottom of the window, there is a "Form View" tab and a "NUM" button.

This form is almost the same as the one used to Create An Owner Record.

The difference being the selection box at the top of the form. Click on the downward pointing arrow at the right of the box to see a list of owners. Type the first few letters of their name into the box and the records will scroll through to find the first one that matches your typing.

Once you can see the owner you wish to edit, click on their name to select them. The screen will then fill with the details of that owner. Tab (progress through the fields by pressing the tab button) to the field(s) you wish to edit and alter the data accordingly.

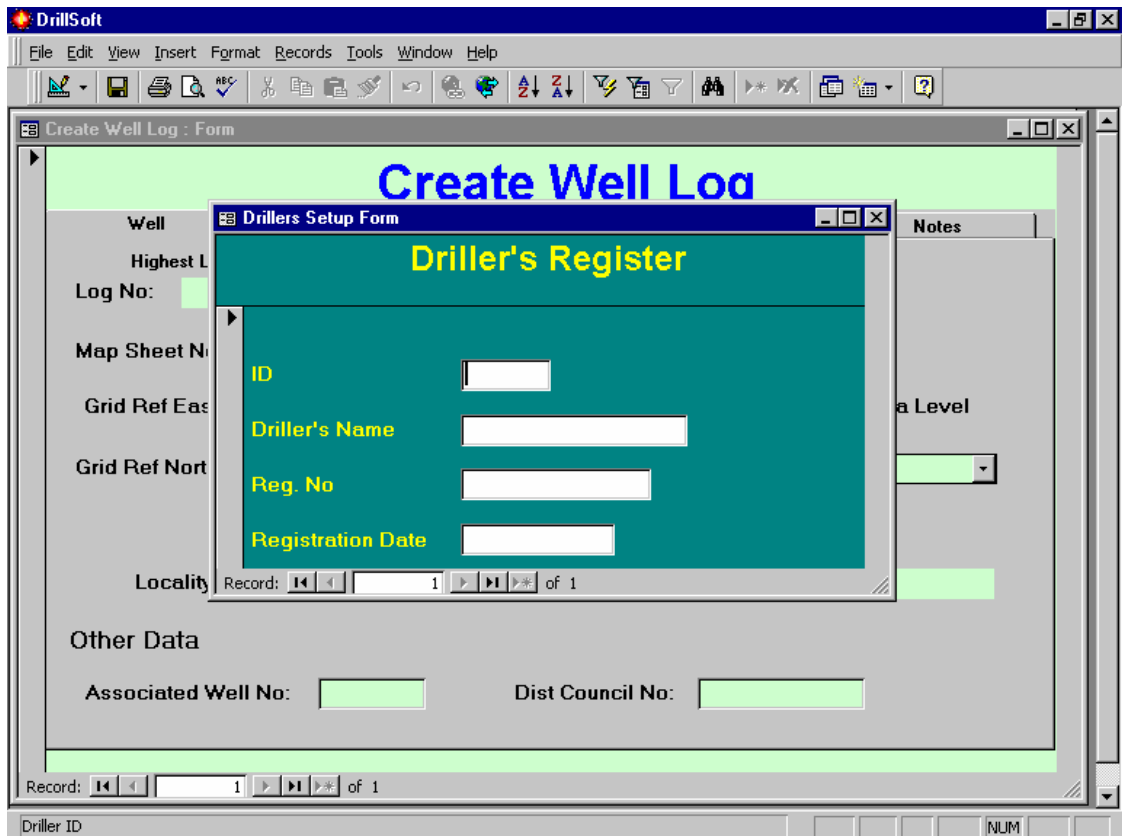
Create A New Well Log

The screenshot shows the 'Create Well Log' form in the DrillSoft application. The form is titled 'Create Well Log' and is divided into several sections: 'Well', 'Strata', 'Specifications', 'Screen Details', and 'Notes'. The 'Well' section includes fields for 'Highest Log No Used', 'Log No', 'Map Sheet No', 'Grid Ref East', and 'Grid Ref North'. The 'Specifications' section includes 'Driller', 'Drilling Date', 'Altitude', 'Well Owner', and 'Log Type'. The 'Screen Details' section includes 'Locality'. The 'Notes' section includes 'Other Data', 'Associated Well No', and 'Dist Council No'. The form is currently blank, with most fields containing the number '0' or '0.00'. The 'Driller' field is a dropdown menu. The 'Well Owner' field is also a dropdown menu. The 'Log Type' field is a dropdown menu. The 'Locality' field is a text input field. The 'Other Data' section is currently empty. The form is displayed in a window titled 'Create Well Log : Form' within the DrillSoft application. The application has a menu bar with 'File', 'Edit', 'View', 'Insert', 'Format', 'Records', 'Tools', 'Window', and 'Help'. The toolbar contains various icons for file operations, editing, and navigation. The status bar at the bottom shows 'Record: 1 of 1' and 'NUM'.

To enter a new Well Log, click on the Create New Well Log button or Press Alt+W. The form above will open. The first time you use this form, the **Highest Log No Used** field will be blank. After you have finished your first log, it will always tell you the highest number you have used for your Well Logs.

Log No Enter your log number. You can use one decimal place after the log number for closely associated wells (up to 9).

Driller Select your driller name from the selection box. If the driller's name does not appear and you wish to add him/her to the list, double click in the driller box to call up the Create Driller form. The form will appear as shown below. Complete the driller details and close the form. The driller's name will now appear in the selection box.



- Map Sheet No** Enter the map sheet number that relates to the area the well is being drilled in.
- Grid Ref East** Enter the Grid Reference East for the well.
- Grid Ref North** Enter the Grid Reference North for the well.
- Drilling Date** Enter the date that drilling started for this well. Use the format dd/mm/yyyy. **DrillSoft** will place the separators in the date – you only have to type the numbers. Make sure you enter the four digits for the year (you don't want crashes in the year 2000).
- Altitude** Enter the altitude of the well above sea level (in metres).
- Well Owner** Select the well owner's name from the selection box. If the owner's name is not in the list, double click in the box to create before continuing.
- Log Type** Select the log type from the list. The well must either be a water well, an investigation and sample well (SPT), or a

Piezometer. A well can be converted from one type to another if needed.

Locality This field can be used to describe how to find the well if directions are necessary.

Associated Well... Enter an associated well number if needed.

Dist Council No Enter the number issued by the Regional Authority (if any) for this well.

Once all the above data is entered click on the **Strata** tab to move to the next entry form.

The screenshot shows a Microsoft Access window titled "Create Well Log : Form". The form has a green header with the title "Create Well Log" in blue. Below the header are five tabs: "Well", "Strata", "Specifications", "Screen Details", and "Notes". The "Strata" tab is selected. The form contains a table with the following columns: "Depth From Surface", "Strata Thickness (m)", "ROP", "Static Level", and "Strata". The first row of data shows "0.00" for Depth From Surface, "0.00" for Strata Thickness (m), "0.00" for ROP, and "0.00" for Static Level. The Strata column has a dropdown menu. At the bottom of the form, there are record navigation controls showing "Record: 1 of 1".

Depth From Surface	Strata Thickness (m)	ROP	Static Level	Strata
0.00	0.00	0.00	0.00	

This form is used to enter details of the strata for this well.

Depth From Surface Enter the depth from the surface that this strata stops at.

Strata Thickness Enter the thickness of this strata.

ROP Enter the rate of penetration through this strata (if you wish).

Static level Enter the static Level of water (if applicable). **DrillSoft** will enter a 0 if no data is entered – (minus) for above ground.

Strata Select a strata description from the selection list for this strata. If you need additional strata, contact Cec Woodford (see contact details at back of manual) to arrange.

Repeat this process until all strata details are entered.

When complete click on the **Specifications** tab to move to the next form.

Well	Strata	Specifications	Screen Details	Notes
Casing above ground (mm):		Casing Diameter (mm):	0	
Casing Length (m):	0.00	Leader (m):	0.00	
Sump (m):	0.00	Finished Static Water Level:	0.00	
Draw Down (m):	0.00	Hours Pumping:	0.00	
Flow Rate (cubic mph):	0.00	Depth (m):	0.00	
Top of Screen Leader (m):	0.00	Top Of Screen (m):	0.00	
Screen NB Diameter (mm):	0	Total Screen Length (m):	0.00	
Bottom Of Screen (m):	0.00	Step Test By:		

Casing above ground Enter the height above the ground of the well casing. Record in millimetres.

Casing Diameter Enter the casing diameter in millimeters.

Casing Length Enter the casing length in metres (will allow 2 decimal places)

Leader Enter the depth to the top of the Leader in metres.

- Sump** Enter the length of the well sump in metres.
- Finished Static Water Level** Enter the depth to the finished static water level in metres.
- Draw Down** Enter the depth of draw down in metres.
- Hours Pumping** Enter the number of hours pumping (allows decimal places of hours).
- Flow Rate** Enter the flow rate in cubic metres per hour.
- Depth** Enter the depth of the well in metres.
- Top of Screen Leader** Enter the depth to the top of the screen leader in metres.
- Top of Screen** Enter the depth to the top of the screens in metres.
- Screen NB Diameter** Enter the nominal bore diameter of the screen in millimetres.
- Total Screen Length** Enter the total length of all screens in metres.
- Bottom of Screen** Enter the depth to the bottom of the screen in metres.
- Step Test By** Enter the name of the person undertaking the step test.

When complete click on the **Screen Details** tab to move to the next form.

This form is used to enter details of the screens in the same manner as the strata details.

Screen No Enter a screen number. Start numbering at 1 and use consecutive numbers.

Screen Type Enter the description of the screen type.

From Enter the depth that this screen starts from in metres.

To Enter the depth to the bottom of this screen in metres.

Slot Size Enter the slot size of this screen in millimeters.

Length Enter the length of this screen in metres.

Repeat the above process for each screen until all screens have been entered.

Click on the **Notes** tab to move to the next form.

Microsoft Access

File Edit View Insert Format Records Tools Window Help

Create Well Log : Form

Create Well Log

Well Strata Specifications Screen Details Notes

Preview This Log Print This Log

Remarks - Including notes on cores and samples taken:

Remarks

Record: 1 of 1

Remarks NUM

This form is used to record any notes you wish to keep regarding this well. These notes will be printed on the Well Log.

You can view the finished log on screen by clicking once on the **Preview This Log** button. You will have to use the scroll bars and navigation buttons to move around the log and to move from page to page.

When you are happy with the log you can print it by clicking on the **Print This Log** button.

Editing a Well Log

The screenshot shows the Microsoft Access interface for editing a well log. The window title is "Microsoft Access" and the active form is titled "Edit Well Log : Form". The menu bar includes File, Edit, View, Insert, Format, Records, Tools, Window, and Help. The toolbar contains various icons for file operations and data manipulation. The form itself has a light green background and a title "Edit Well Log" in large blue text. To the right of the title is a dropdown menu labeled "Which Well Log do You Wish to Edit?". Below the dropdown is a table with five columns: "Well", "Strata", "Specifications", "Screen Details", and "Notes". The table is currently empty. At the bottom of the form, there is a record navigation bar with the text "Record: 1 of 1" and several navigation icons. The status bar at the bottom of the window shows "Form View" and a "NUM" button.

To edit a well log, click on the **Edit Well Log** button. The above form will open. Select a well log from the selection box (only water wells will be displayed). When you select the required log the form will open with the data entered.

Choose the correct tab form and edit the data as needed.

The edit form uses data in the same manner as the create well log forms.

Create Pump Record

To create a new pump record, click on the **Create New Pump Record** button or press Alt+P together. The following form will open:

The screenshot shows the Microsoft Access application window with the 'Create Pump Record' form open. The form has a title bar 'Create Pump Record : Form' and a menu bar with 'File', 'Edit', 'View', 'Insert', 'Format', 'Records', 'Tools', 'Window', and 'Help'. Below the menu bar is a toolbar with various icons. The form itself has a title 'Create Pump Record' in large blue text. Below the title are four tabs: 'Well & Screen', 'Pump Specifications', 'Motor Specifications', and 'Installation'. The 'Pump Specifications' tab is selected. The form contains several input fields: 'Well Number' (a dropdown menu), 'Pump Installer' (a text box), 'Date of Installation' (a date picker), 'New/Serviced' (a text box with the prompt 'Enter N or S'), 'Well Depth (m)' (a text box with the value '0.00'), 'Depth to top of Leader (m)' (a text box with the value '0.00'), and 'Well Screen Diameter (mm)' (a text box with the value '0'). The form is displayed in 'Form View' within a Microsoft Access window.

Well Number

You must have entered a well before you can record it's pump details. Select the well number from the selection box.

Pump Installer

Enter the name of the pump installer.

Date of Installation

Enter the date of the pump installation. Use the format dd/mm/yyyy. Note: **DrillSoft** takes care of the formatting.

New/Serviced

Enter N or S to indicate whether the pump was new or serviced.

Well Depth

Enter the well depth in metres.

Depth to Top of Leader

Enter the depth to the top of the Leader in metres.

Well Screen Diameter Enter the well screen diameter in millimetres.

When complete click on the **Pump Specifications** tab to move to the next form.

DrillSoft

File Edit View Insert Format Records Tools Window Help

Create Pump Record : Form

Create Pump Record

Well & Screen Pump Specifications Motor Specifications Installation

Make: Model:

N R Valve: Non Return Valve No 2:

Pump Serial No: Diameter (mm): NB Size:

Specified Duty: Cubic mph at: Meters Head.

On Probe Level(m): Off Probe Level:

Length of Pump (m): Length of Intake (mm):

Record: of 1

Make of Pump NUM

Make Enter the make of pump.

Model Enter the model of pump.

NR Valve Enter the depth in metres to the normal Non Return Valve

Non Return Valve No 2 Enter the depth in metres to a second Non Return Valve if fitted.

Pump Serial No Enter the pump serial number if applicable.

Diameter Enter the diameter of the pump in millimetres

NB Size Enter the nominal bore size for the pump in millimetres.

- Specified Duty** Enter the pump's specified duty in cubic metres per hour.
- Metres Head.** Enter the metres of head that the specified duty for the pump relates to.
- On Probe Level** Enter the depth to the On Probe in metres.
- Off Probe Level** Enter the depth to the Off Probe in metres.
- Length of Pump** Enter the length of the pump in metres.
- Length of Intake** Enter the length of the pump intake in millimetres.

Once all data is entered click on the **Motor Specifications** tab to move to the next form.

The screenshot shows the 'Create Pump Record' form in the DrillSoft application. The form is divided into four tabs: 'Well & Screen', 'Pump Specifications', 'Motor Specifications', and 'Installation'. The 'Motor Specifications' tab is currently selected, displaying the following fields:

- HP/KW:
- Volts (240/400):
- Phase (1/3):
- Amp Rating:
- Working Amp Draw:
- D.O.L./STAR (D/S):
- Motor Dia (mm):
- Length (m):
- NB Size (mm):
- Well test - Y/N:
- Cmph:
- Head (m):

The 'Pump Specifications' tab is also visible, showing fields for Specified Duty and Metres Head. The 'Well & Screen' tab shows fields for On Probe Level and Off Probe Level. The 'Installation' tab shows fields for Length of Pump and Length of Intake. The form is titled 'Create Pump Record' and has a menu bar with File, Edit, View, Insert, Format, Records, Tools, Window, and Help. A status bar at the bottom shows 'Record: 1 of 1' and 'HP/KW Rating of pump'.

Enter the motor specifications as follows:

HP/KW Enter the HP or KW rating of the motor.

Volts	Enter the voltage of the pump (240 or 400).
Phase	Enter whether 1 or 3 phase motor.
Amp Rating	Enter the amperage rating of the motor.
Working Amp Draw	Enter the working amperage drawn by the motor.
DOL/STAR	Enter D or S to indicate DOL or Star.
Motor Dia	Enter the motor diameter in millimetres.
Length	Enter the length of the motor in millimetres.
NB Size	Enter the nominal bore size for the motor in millimetres
Well test	Enter Y or N to indicate whether a well test was done.
Cmph	Enter the cubic metres per hour that the pump test produced.
Head	Enter the metres of head that the pump test was undertaken at.

When complete, click on the **Installation** tab to move to the next form.

DrillSoft

File Edit View Insert Format Records Tools Window Help

Create Pump Record : Form

Create Pump Record

Well & Screen Pump Specifications Motor Specifications Installation

Pump Handling Pipe (m): 0.00 BSP(mm): 0.00 Preview This Pump Record

Riser pipe dia (mm): 0 No. of lengths: 0 Total (m): 0.00

Top of pump (m): 0.00 Top of intake (m): 0.00 Bottom of motor: 0.00

Other comments:

Record: 1 of 1

Pump Handling Pipe NUM

Pump Handling Pipe Enter the length of the pump handling pipe in metres.

BSP Enter the BSP size in millimetres.

Riser Pipe Dia Enter the diameter of the riser pipe in millimeters.

Total Length Enter the total length of the riser pipe in metres.

Top of Pump Enter the depth to the top of the pump in metres.

Top of Intake Enter the depth to the top of the intake in metres.

Bottom of Motor Enter the depth to the bottom of the motor in metres.

Other Comments Record any other comments here.

To preview your pump log click once on the **Preview This Pump Record** button. The pump record will be displayed on the screen. Use the scroll bars to move around the preview.

Use the **Print This Pump Log** button to print a copy of this pump log.

Edit A Pump Record

The screenshot displays the DrillSoft application interface. The main window is titled "Edit Pump Record : Form". It features a menu bar with options: File, Edit, View, Insert, Format, Records, Tools, Window, and Help. Below the menu bar is a toolbar with various icons for file operations and editing. The main content area is titled "Edit Pump Record" and includes a dropdown menu labeled "Which Pump Record do you wish to edit?". Below this are four tabs: "Well & Screen", "Pump Specifications", "Motor Specifications", and "Installation". The "Pump Specifications" tab is currently selected. At the bottom of the form, there is a "Record:" field with navigation buttons and a status bar showing "Form View" and "NUM".

To edit a pump record click on the **Edit Pump Record** button or press Alt+R to open the form above. Use the selection box to choose a pump record for editing. When you select the record you need the form will open with the data entered. Move to the correct form and edit the data as required.

Create A SPT Log (Investigation and Sample Log)

To create a SPT log click on the **Create SPT Log** or press Alt+S to open the form below.

DrillSoft

File Edit View Insert Format Records Tools Window Help

Create SPT Log : Form

Create Std Penetration Test Log

Well | **Strata** | Sample Data | Specifications | Screen Data | Notes

Highest Log No Used:

Log No: Driller:

Map Sheet No: Drilling Date:

Grid Ref East: Altitude: Metres above Sea Level

Grid Ref North: Well Owner:

Log Type:

Locality:

Other Data

Associated Well No: Dist Council No:

Record: of 1

Waimea Drilling Company Log Number

This first form is the same as that found in the **Create Well Log** form. For instructions as to how to complete this form refer to that section of the manual.

Note that SPT Log have a well type of I.

Once you have entered your data into this form click on the **Strata** tab to open the form on the next page.

Microsoft Access
File Edit View Insert Format Records Tools Window Help

Create SPT Log : Form

Create Std Penetration Test Log

Well Strata **Sample Data** Specifications Screen Data Notes

STANDARD PENTRATION TEST									
Depth From Surface	Strata Thickness	R.O.P.	Static Level	Strata	Depth Of Casing (m)	RESULTS - NUMBER OF BLOWS FOR			
						150mm	75mm	75mm	75mm
0.00	0.00	0	0.00		0.00				

Record: 1 of 1

Depth from surface of well

This form is similar to the Strata form of the Well Log. It gathers, however, some additional data.

- Depth From Surface** Enter the depth from the surface of this strata in metres.
- Strata Thickness** Enter the thickness of this strata in metres.
- ROP** Enter the rate of Penetration (if you wish)
- Static Level** Enter the Static Level in metres of the water found in this strata.
- Strata** Select the strata description from the selection box. Contact Cec Woodford (see contact details at end of this manual) if you have need of further strata.
- Depth of Casing** Enter the depth of the casing in metres.
- Results** Enter the number of blows to penetrate the first 150mm, the next 75mm, the next 75mm, the next 75 mm, and the final 75 mm (as applicable).

Repeat the above process for all strata.

When complete click on the **Sample Data** to move to the next form.

The screenshot shows the 'Create SPT Log : Form' window in DrillSoft. The main title is 'Create Std Penetration Test Log'. The window has a menu bar (File, Edit, View, Insert, Format, Records, Tools, Window, Help) and a toolbar. The 'Sample Data' tab is selected, displaying a table with the following data:

Sample Type	Taken From	To	Casing Depth [m]	% Recovery
	0.00	0.00	0.00	0.00

Below the table, there are record navigation controls: 'Record: [Previous] [Next] 1 of 1'. At the bottom of the window, there is a 'Sample Type' input field and a 'NUM' button.

Sample Type

Enter sample description

Taken From

Enter depth sample taken from in metres.

To

Enter depth sample taken to in metres.

Casing Depth

Enter casing depth in metres

% Recovery

Enter the percentage recovery of the sample

Once complete, click on the **Specifications** form to move to the next form. The **Specifications** form is essentially the same as the one in the Well Log. For assistance in completing it, refer to that section of the manual. The screen data and Notes forms are also the same as those contained in the Well Log section.

Editing SPT logs follows the same procedure as other types of Logs.

Create Piezometer

Click on the **Create Piezometer** button or press Alt+C to open the form below.

Create Piezometer

Well | Strata | Specifications | Screen Details | **Piezometer** | Notes

Highest Log No Used:

Log No: Driller:

Map Sheet No: Drilling Date:

Grid Ref East: Altitude: Metres above Sea Level

Grid Ref North: Well Owner:

Log Type:

Locality:

Other Data

Associated Well No: Dist Council No:

Record: 1 of 1

Waimea Drilling Company Log Number Microsoft Word - DrillSoft.doc

This form is the same as used in the Well Log section. See that section for assistance in completing this form.

The **Strata**, **Specifications** and **Screen Details** forms are also the same as the Well Log.

When those forms are complete click on the **Piezometer** tab to open the form on the following page.

DrillSoft

File Edit View Insert Format Records Tools Window Help

Create Piezometer Log : Form

Create Piezometer

Well	Strata	Specifications	Screen Details	Piezometer	Notes
		Piezometer Above Ground (mm):		Steel Pipe Below Ground (m):	
		(mm) Dia Steel Pipe With Locking Cap:		Static Water Level:	
		Depth of Concrete:		Dia of PVC Pipe (mm):	
		Depth of Gravel:		Top of Screen:	
		Depth of Cement:		Bottom of Screen:	
		Depth of Benotite:		Sump Depth:	
		Depth of Gravel Pack:		Total Depth:	

Record: 1 of 1

Height above Ground of Piezometer

- Piezometer above Ground** Enter the height in millimetres that the piezometer is above the ground.
- Dia Steel Pipe with ...** Enter the diameter in millimeters of the steel pipe with locking cap.
- Depth of Concrete** Enter the depth in meters of concrete.
- Depth of Gravel** Enter the depth in metres of gravel.
- Depth of Cement** Enter the depth in metres of cement.
- Depth of Benotite** Enter the depth in metres of Benotite.
- Depth of Gravel Pack** Enter the depth in metres of the gravel pack.
- Steel Pipe below Ground** Enter the depth below the ground in metres of the steel pipe.
- Static Water Level** Enter the depth of the static water level.

Dia of PVC Pipe	Enter the diameter of the PVC pipe.
Top of Screen	Enter the depth in metres to the top of the screen.
Bottom of Screen	Enter the depth in metres to the bottom of the screen.
Sump Depth	Enter the length of the sump in metres.
Total Depth	Enter the total depth of the Piezometer in metres.

Once completed, finish the log using the notes form and preview and print as described in the well log.

View the Library of Strata Codes

Click on the button **View Library of Strata Codes** to view the library. You can use the scroll bars and navigation buttons to move around the library.

Print All Strata Codes

Click on the button **Print All Strata Codes** to print a fresh library of all codes if you wish to look at them all at once, or pin them up on the wall.

Edit Company Details

You can use this form to edit your company details. Note: you cannot alter your company name.

Closing DrillSoft

Click on the button **Exit DrillSoft** to close the system.

System Maintenance

Your system tables needs regular maintenance. You will find three maintenance options in the **DrillSoft** start menu. Depending on the frequency of use you should click on each of these somewhere between once a week and once a month. During each maintenance run you will get a message that the database was successfully repaired. Click on OK to continue.

Contact Details

DrillSoft Team

For user help, strata codes and drilling related inquiries

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Note: A service charge may be applied to assistance provided.