5 Heading Editor

The Heading Editor allows the log heading information to be added to a blank heading of pre-existing format. There are several different versions of default headings that can be produced using Warrior. The Heading Editor may be started from several different locations including its icon in the Warrior program group, the Acquisition module under the Edit -> Heading, and Interactive Plot under Edit -> Log Heading.



FIG: 5.1 Heading Editor in Warrior Program Group

Sa Warrior Logging Syst	em		
File Service Action	Edit	Monitor	
Service: None		Tool String	
Database:		Variables	
Realtime Acquisition N		Heading	
		Master Log Format	
		Plot Job	
		Sensors	
		Calibrations	
		Filters	
		Tool Configuration	•
		Device Configuration	•
		Correlation Curves	

FIG: 5.2 Select Heading from Acquisition -> Edit



FIG: 5.3 Select Heading from Interactive Plot -> Edit

Headings are saved within, and retrieved from Warrior databases. Headings generated during a logging operation, are normally saved in the same database as the log data for that job. When the Heading Editor is started, a blank heading appears. Headings can be filled out at any time during the job and saved. If the heading is only partially completed, it can be saved and reopened at later time and remaining information entered. It should then be saved again.

Varrior Heading	ditor						
File Font	Cuitor						
The Long		-					
	Company						
	company						
	Well						
듣							
ē	Field						
	County						
	County						
	State				Country		
	Location:			API # :			Other Service
		SEC	TWP	R	GE		Flavation
	Dermonent D	ature .			Florettee		Elevation
È.	Permanent D	atum			Elevation		K.B.
ag ≕ ⊐ tr al	Log Measure	d From					D.F.
Ste Fie Ke	Drilling Meas	ured Fr	om				G.L.
Date							
Run Number							
Depth Driller							
Depth Logger							
Bottom Logged Inter	val						
Top Log Interval							
Open Hole Size							
Type Fluid							
Density / Viscosity							
Max. Recorded Tem	р.						
Estimated Cement 1	ор						
Time Well Ready							
Time Logger on Bott	om						
Equipment Number						-	
Location Decended Du						-	
Witnessed By		-				+	
Por Dor	ehole Record	1			Tubing P	ecord	
Run Number B	it From		To	Size	Weight	From	To
- tarrianiber D				0.20	roigit		10
Casing Record	Size		Wgt	Ft	Тор		Bottom
Surface String							
Prot. String							
Production String							
Liner							

FIG: 5.4 Blank Heading (STDCased)

The default heading format is set from the Warrior Control panel – Plot page. In addition the heading format may be changed for the current heading by clicking on File -> Select Format in the Heading Editor.

Varrior System Control Panel	
General Acquisition Plot Hot Keys/Shortouts Licenses Depth/Tension	run/_plots_/_headings_/head
Gridine setup Printer setup	File Font
Options Monitor USB port while printing - if timeout then ask to try other ports.	New
Wat this long on USB printing to see if print job 10 started ok (seconds).	Open
Deriguit you cannot print. Default heading	Save
Stdcased hdg Browse	Save As
Service company Scientific Data Systems, Inc.	Select Format
	Selectronnation
	Print
	Watermark
	Evit
ОК	EXIL

FIG: 5.5 Selecting heading format

From the Heading Editor **File** menu, either a new heading can be created or a pre-existing heading may be selected for editing. In addition, the actual format of the header may be selected from the predefined formats in the system by using **Select Format...** Once a heading has been selected, particular fields may be chosen for editing by using the **TAB** key, or by pointing with the mouse to move around the heading. When a field has been selected, a dialog box appears, and the appropriate information may be entered.

ſ	Edit Heading Field		— X
	Log Title		
		*	OK
			Cancel
		Ŧ	
	Warning This field accepts multiple lines.		
	Pressing <enter> while the flashing cursor is in the text box will force a line-break.</enter>		

FIG: 5.6 Heading Data Field for the Log Title

Headings are saved within and retrieved from Warrior databases. Headings generated during a logging operation are normally saved alongside the log data for that job.

The description of the text to be typed in the field normally appears above the dialog entry, and the cursor is positioned for immediate text entry. When the text entry is complete, hit Enter to close the dialog window and move to the next field. Alternatively move to the OK button by using the TAB key or the mouse, and then hit Enter or click with the mouse. Then either hit the Enter key to open the next dialog window or click with the mouse to move to and open a new dialog window.

Edit Heading Field	×
Run #1 Info: Date	ОК
Aug. 20, 2012	Cancel

FIG: 5.7 Enter single line of information

Fields which have multiple lines are completed using a slightly different dialog box as shown in Fig. 5.8. Use the TAB key or the mouse to move to the text entry box and enter the required text. Pressing the Enter key while in the text field will add a new line of text.

Edit Heading Fie	eld	×
Log Title		
	GAMMA RAY CCL LOG	Cancel
	Warning This field accepts multiple lines. Pressing <enter> while the flashing cursor is in the text box will force a line-break.</enter>	

FIG: 5.8 Multiple line Entry - Click in field to Type Log Name



Do not hit Enter within the text entry box unless you wish to move to a new line within the current field, as for example, if multiple lines of text were to be entered in the Comments field.

When the text is complete use the TAB or mouse to move to the OK button and exit the dialog box as normal.

The User can Save the heading by clicking File -> Save. It may be necessary to select a database file to save the heading into. If so be sure to select the database where you will be recording log passes.

N	Arrior Heading Editor
File	Font
	New
	Open
	Save
	Save As
	Select Format
	Print
	Watermark
	Exit

FIG: 5.9 Saving Heading

If no heading has been saved in the database, the software will use heading1 as the default heading name. Normally if you are only going to be plotting one log, the default need not be changed. The default name can be changed by backspacing out the "heading1" or highlighting the "heading1" and replacing it by typing.

	×
C:\ProgramData\Warrior\Data\8-21-2012.db	
/field/well/run/_plots_/_headings_/heading1	
*	
	<u>D</u> atabase
	ОК
▼ 4	Cancel
	C:\ProgramData\Warrior\Data\8-21-2012.db /field/well/run/_plots_/_headings_/heading1

FIG: 5.10 Saving Heading - heading1 as default name

Heading		×
Current Database	C:\ProgramData\Warrior\Data\Aug-21-2012.db	
Current Dataset	field/well/run/_plots_/_headings_/ <u>heading1</u>	
	A	
Heading		×
Heading Current Database	C:\ProgramData\Warrior\Data\Aug-21-2012.db	×
Heading Current Database Current Dataset	C:\ProgramData\Wamior\Data\Aug-21-2012.db /field/well/run/_plots_/_headings_/Bond	×

FIG: 5.11 Saving Heading – changing heading name

To save the modified heading under a different name use **Save As** from the **File** menu and enter a new name for the heading. The original heading will remain in the system under the original name. .11 Type the new Heading name File

5.1 Heading Logo

The logo accepts formats *.lgo, .*.wmf, *.emf, *.bmp, *.jpg. The file must be in Warrior\Config. In a Warrior standard heading, it should have the ratio 1 high by 2 wide to keep the proportionality with respect the original one.

To change or remove the Logo, just Mouse Left click on Logo Box.

	Headi	ng Editor					
File							
-	– LI	Mouse EFT CLI	СК				
Edit Logo Chan		Remo	/e	Cancel	State		
	Lor	cation:		API	CIUIC	p	ther Services
Company Well Field County	Perm 월 Log 장 Drilli	SE nanent Datu Measured F ing Measure	C TWI um rom d From	P RG	E Bevation		Elevation C.B. J.F. 3.L.
Date Due Mumber		-+				_	
Penth Driller							
Depth Logger				_		-	
Bottom Logge	d Interva	a l				-	
Top Log Interv	al						
Open Hole Siz-	e			_			
Type Fluid				_			
Density / Msc	osity Tomo						
Max. recorder	d lemp.	-+		-+			
Time Well Rez	adv					+	
Time Logger o	n Bottorr						
Equipment Nu	mber	· ·					
Location	E					4	
Recorded by							
Witnessed by	Borehold	Record			Tubing	Pecond	
Run Number	Bit	Erom	To	Size	19/eight	From	То
					1		
	_		—		-	Ē	
	<u> </u>		<u> </u>	<u> </u>	+	└──	-
Caring Record						<u> </u>	_
• • • • • • • • • • • • • • • • • • •		Size	10/0	+/Ft	Top		9ottom
Surface String	Ŧ	Size	WG	t/Ft	Top		Bottom
Surface String Prot. String		Size		tt/Ft	Top	\pm	Bottom
Surface String Prot. String Production Stri	ng	Size		t/Ft	Тор		Bottom

FIG: 5.12 Edit Logo

Favorites	-					-	
Desktop Downloads Dropbox Recent Places Warrior Data Warrior Config	E	Temp HDG	BAKER HUGHES Baker hughes logo JPG	BAKER HUGHES BH_Logo.bmp	BAKER HUGHES BH2.bmp	Your Company Logo.jpg	NEW LOGO.j
☐ Libraries ☐ Documents ↓ Music ☐ Pictures ₩ Videos		phoenix 044.JPG	Sondex.jpg	Sondexc.jpg	Test logo.jpg	Yours2.lgo	
Computer So (C:) DATA (E:)							
11 items							

FIG: 5.13 Select the new Logo

5.2 Heading File Creation

Warrior creates headings by reading a text file that has a .hdg extension. The contents of these files can be viewed by using Windows Notepad. There are several different heading styles that are supplied with the Warrior software (stdcased, stdopen, and greytest). The purpose of this document is to supply the information need for the user to write his own .hdg text files.

The first two lines of the file define the physical size of the heading in inches as plotted. The width of the heading is the length of the plot from the plotter. The height is the width of the heading, with 8.25 being the standard API log width.

Width 10 Height 8.25

You must define panels to make the separate sections of the heading. Pictures, text, text edit fields, and panels may then be placed in the panels. Two pairs of x,y coordinates define the location of a panel as a percentage (0 to 100) of the current panel. The contents of the panel are enclosed in curly brackets.

Panel x1, y1, x2, y2 {

Panel Contents

}

The Border statement defines the thickness of the panel edge. The larger the integer N, the thicker the border will become.

Border N

The Font statement defines the font size of any text that is printed within a panel. The larger the integer N, the larger the font size.

Font N

Both the Font and the Border statement control the effects of the panel that they are in and all panels that are included in that panel, unless the included panel contains Font or Border statements, which are then used for that panel and any panels that it might include.

A picture may be placed within a panel. The location of the picture is defined by two sets of x and y coordinates as a percentage of the current panel. The name of the picture must be declared under the heading section of Warrior.ini.

Picture x1, y1, x2, y2 {NAME}

Text may be placed within a panel. The location of the text is defined by two sets of x and y coordinates as a percentage of the current panel. Previous font statements determine the size of the text. The orientation of the text is determined by a four-letter code - OTHV. The O is the orientation of the text, the T is the type of text, the H is the horizontal centering, and the V is the vertical centering. Text strings that are larger than the area specified may have unpredictable results. They might be truncated or extend outside of the defined area. Multiple line text will automatically wrap at a word boundary if the text exceeds the area length.

- O H Horizontal Text
 - V Vertical Text
- T S Single line of Text
 - M Multiple line of text
- H L Left justify for horizontal text, Bottom justify for vertical text
- C Center Text horizontally
- V T Top justify for horizontal text, Left justify for vertical text
 - C Center Text vertically

TextOTHV x1, y1, x2, y2 "TEXT"

An editable field may be placed within a panel. The location of the field is defined by two sets of x and y coordinates as a percentage of the current panel. Previous font statements determine the size of the text. The orientation of the text is determined by the same four-letter code - OTHV that is used with text. A hint name for the field is enclosed within curly brackets. A hint line is then added (normally at the end of the file) that will give a hint text to the user when he clicks on the field.

EditOTHV 0,0,100,100 {Hint Name} hint "Hint Text" {Hint Name} _____

The following examples are the only commands that are in *.HDG and *.WLB files for headings and well log banners.

Width 10 Height 8.25 Panel x1, y1, x2, y2 {Panel Contents} Border N Font N FontfaceN "style" Picture x1, y1, x2, y2 {NAME} TextOTHV x1, y1, x2, y2 "TEXT" EditOTHV 0,0,100,100 {Hint Name} hint "Hint Text" {Hint Name} Comments

5.3 Headings LOG Banners File Creations

In addition to heading files (*.HDG), well log banners (*.WLB) use the same form of text file but when printed, the orientation is rotated 90 degrees. Thus a heading has a height of 8.25 inches and a banner has a width of 8.25 inches.

Pipe Tally Tables (*.WRF) also use a similar format with some variance. The mode of entering user information is quite different.

Comments may be placed anywhere in the file. Comments normally have // as the first two printable characters on a line.

5.4 Pipe Tally Tables

Pipe Tally Tables have a few additional commands and the mode that Edit text commands gets their data is different. The edit text fields are pre-defined rather than defined by the Hint Command and are filled from editing the heading information of the pipe tally table, editing the grading of the settings, and from processing the log. The predefined fields are as follows:

{CONAME} – Company Name from Edit – Heading Information {WELLNAME} – Well Name from Edit – Heading Information {FLDNAME} – Field Name from Edit – Heading Information {COUNTY} – County from Edit – Heading Information {STATE} – State from Edit – Heading Information {DATE} – Date from Edit – Heading Information {COMMENT} – Comments from Edit – Heading Information {RANGE1} through {RANGE6} – Maximum of six grading ranges from editing Settings - Grading {SYMBOL1} through {SYMBOL6} – Maximum of six grading ranges from editing Settings - Grading {GRADECNT1} through {GRADECNT6} - Count of the number of joints of that grading acquired from Scan Minimum Wall Log {RWBC LVAL} - Bar Chart Left Value from RWBC LEFT of Warrior.ini {RWVC RVAL} – Bar Chart Right Value from RWBC RIGHT of Warrior.ini {RWUNIT} – Units of curve from Scan Minimum Wall Log {NOX} – Number of Joint X from Scan Minimum Wall Log

{DEPX} - Top Depth of Joint X from Scan Minimum Wall Log
{LENX} - Length of Joint X from Scan Minimum Wall Log
{RWX} - Remaining Wall of Joint X from Scan Minimum Wall Log
{PLXX} - Percentage Loss of Joint X from Scan Minimum Wall Log
{PLFX} - Percentage Left of Joint X (100-PLXX)
{RWBCX} - Remaining Wall Bar Code of Joint X for Bar Charts
{GRX} - Grade Symbol of Joint X from Range and Symbols above and scan
There are three addition command that are used to create *.WRF pipe tally tables.

They are as follows:

Repcount N

This line must be in the first 512 characters of the WRF file (normally place just after the Width and Height commands). It is a count of the number of joints to be shown on each sheet as the file is printed.

barchart x1,y1,x2,y2 {RWCBZ}

Charts bar code for Joint **Z** on RWBC_left to RWBC_right Scale

editHSCCB 0,0,100,100 {GRZ}

Prints Grade symbol for Joint **Z** horizontal centered both vertically and horizontally on a colored background. The color of the background is defined in Warrior.ini [Heading] section. BkColorMap=grade1,{color1},grade2,{color2}, etc.

Where grade {x} is the symbol for a grade and color {x} is R, G, B set