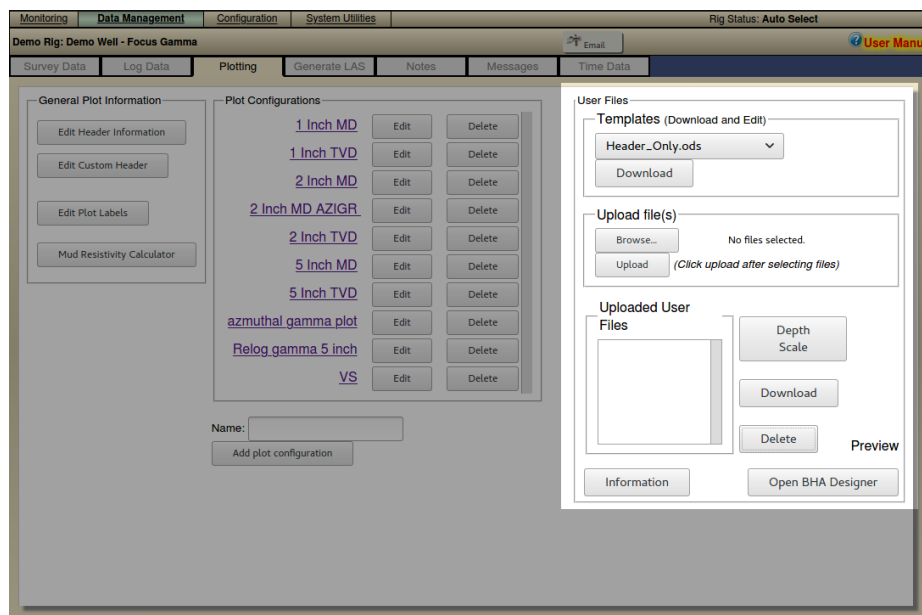


Custom Headers

Building custom headers for well plots allows the user to incorporate their own style and uniqueness. It works by merging multiple PDF files into a single presentation. The steps to generate a custom header are:

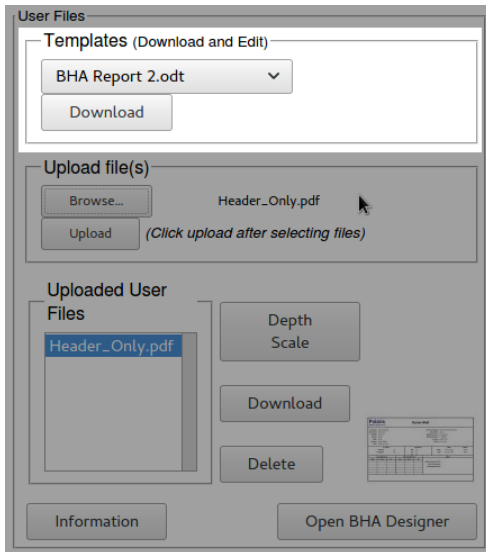
- Create a document using any standard office application. Templates are provided for a quick start in creating a custom header
- Convert the document to PDF and store it in the Polaris database
- Configure Polaris to insert a depth scale on the PDF header at a defined position
- Configure each plot to merge the custom header with the plot tracks below



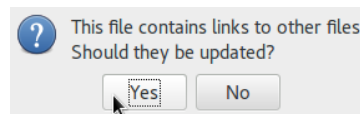
The following example illustrates how to generate a custom header

Template Files

These files are provided as examples to use in designing a custom plot header using a Spreadsheet application. The templates were built using Apache Open Office (LibreOffice in Ubuntu) and are stored in a standard Open Document format. Some templates provide database access for well information to be updated automatically.



To use a template download it to your Desktop then double-click on the file to open in LibreOffice.



LibreOffice will ask ***“This file contains links to other files. Should they be updated?”***

- Answering “yes” will allow the template to access the database and fill in the well information.
- Answer “no” if you wish to enter the well information manually.

Be aware that the well information can only be read if the file is opened on the same computer as the Polaris database. Otherwise it will remain blank.

A B C D E F G H I J K L M N O P Q R S T U V W																										
1																										
2	Polaris Guidance Systems, LLC													Demo Well												
3	Company: Demo Company													Survey Company: Polaris Guidance Systems												
4	Well name: Demo Well													Job Number: Job #1												
5	API/UWI: 123-456													MWD Operator 1: R Gonzalez												
6	County: Harris													MWD Operator 2: T Hopeful												
7	State: Texas													Location: south of I10												
8	Country: United States													Rig Id: Demo Rig												
9	Field: South ranch six																									
10																										
11																										
12																										
13	Location													Elevation												
14	Latitude: 32													KB: 62												
15	Longitude: 102													DF: 62												
16														GL: 55												
17	Casing Record													Borehole Record												
18	Size													Other												
19	From													Depth measured from:												
20	To													Max Temperature:												
21														Log measurements:												
22																										
23																										
24																										
25																										
26																										
27																										

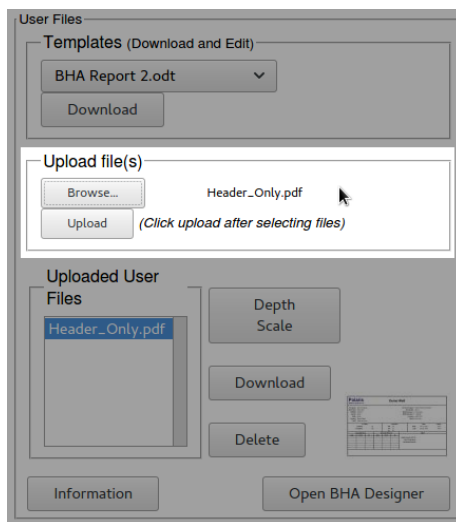
Modify the example templates as needed including any company logos that can be drag-and-dropped into place.

When completed use the File Menu and select **“Export as PDF...”** to save the PDF file to your Desktop.

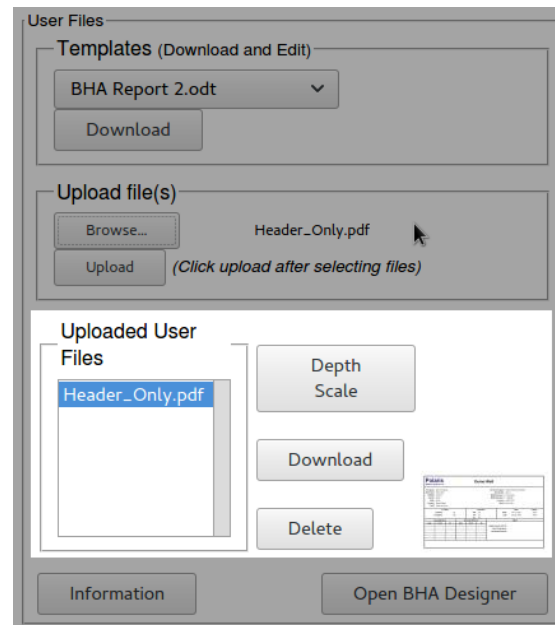
Uploaded user files

Files can be uploaded and stored on the Polaris system. Any files that are uploaded to the system are backed up with the database.

Our next step is to click the “**Browse**” button and select the PDF file created from the LibreOffice Spreadsheet. Click the “**Upload**” button to store the PDF file in the Polaris system.



Once the file is uploaded it will show up in the “**Uploaded User Files**” list.

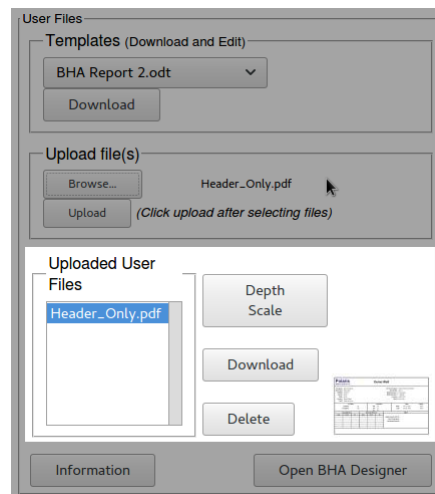


Depth Scale

The header used for each plot is usually the same but the “Depth Scale” for every plot is different.

The next step is to configure where the Depth Scale will be placed on each PDF header that is generated. The system will determine which scale to print. (ex: MD 1:100 or TVD 5:100)

Select the PDF file in the **Uploaded user files** list then click the “**Depth Scale**” button to open the placement editor.



Click anywhere on the image below to set a new position for the depth scale

Rotate Page

Rotate Scale

Save Position

Delete Position

Close

Polaris
Guidance Systems, LLC

Company: Demo Company
Well name: Demo Well
API#W: 123-456
County: Harris
State: Texas
Country: United States
Field: South ranch six

Demo Well

Survey Company: Polaris Guidance Systems
Job Number: job #1
MWD Operator 1: R Gonzalez
MWD Operator 2: T Hopelul
Location: south of L10
Rig Id: Demo Rig

TVD
5":100'

Location			Elevation			Date		Depth
Latitude:	32		KB:	62		Start:	Jan 1, 2020	1300
Longitude:	102		DF:	62		End:	Jan 20, 2020	2406
			GL:	55				

Casing Record			Borehole Record			Other	
Size	From	To	Size	From	To		
						Depth measured from:	
						Max Temperature:	
						Log measurements:	

Click anywhere on the image to place an example depth scale image.

Optionally the page and/or the scale placement can be rotated.

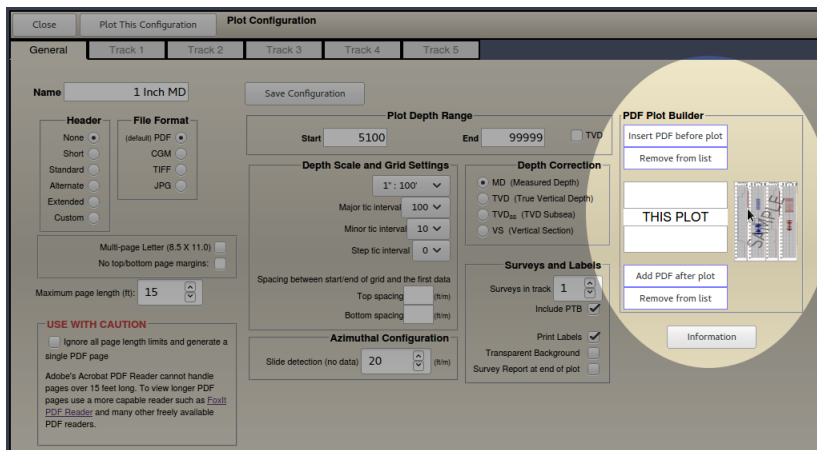
After placing the depth scale click “**Save Position**” so that each time this file is printed the appropriate depth scale will be inserted at that

position.

The position for the Depth Scale of each file is stored permanently in the database so that each time that a file by that name is uploaded it will remember it’s depth scale position. There is no need to re-define the position each time the same file is uploaded.

Plot Configurations

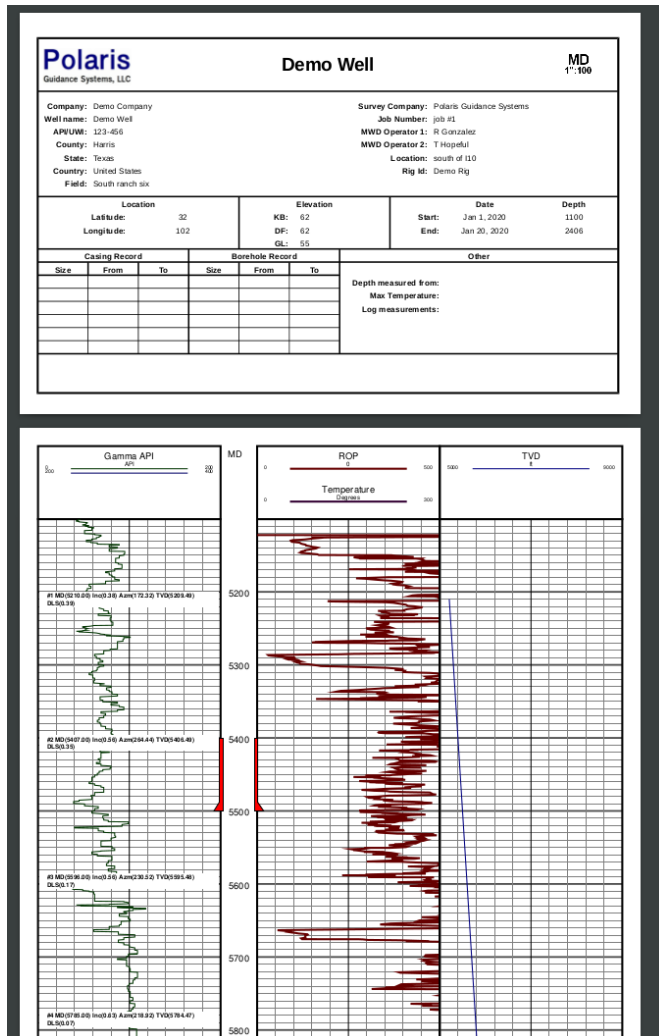
The last step is to setup the plot configuration to merge the new PDF header on to the plotted tracks. This feature allows multiple PDF files to be merged together. Each PDF file can be placed either before or after the plot creating a single concatenated PDF file.



For this we will be working with the “PDF Plot Builder” section.

- Begin by making sure that the “**Header**” column on the far left is set to “**None**” to make space for the new PDF header.
- Click “**Insert PDF before plot**” button and select the PDF header file that was previously uploaded.
- Click “**Plot This Configuration**” button to view the results:

Plot Results



This example shows a custom PDF header file with the depth scale placed in the upper right side of the document. The log is then merged below this header when plotted.

Custom headers and other presentation documents can be created using any office software then converted to PDF and merged together for complete plot customization.

The example templates includes links to the database for auto-filling each well information cell.

Pay close attention to page size and create user defined paper sizes to avoid gaps between files.

[All files are backed up and restored with the database so each header PDF file is preserved.](#)

Templates

Here are screen shots of the various templates available:

Polaris Geomatic Systems, LLC						Demo Well
Company: Demo Company Well name: Demo Well API/UWI: County: State: Country: Job Number:			Company: Demo Company Well name: Demo Well Rig id: APU/M: County: State: Country: Field: Location: Survey Company: Survey Company Job Number: MWD Operator 1: MWD Operator 2:			
Log Measurements: Depth measured from:			Maximum temperature:			
Location Latitude: Longitude:		Elevation KB: DF: GL:	Start: End:		Date	Depth
Casing Record			Borehole Record			
Size	From	To		Size	From	To

This company provides it's best efforts to provide its customers with accurate information and interpretations in company well services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

Demo Well			
Company: Demo Company Well name: Demo Well Rig Id: APILUWI: County: State: Country: Field:			
Location: Survey Company: Survey Company Job Number: MWD Operator 1: MWD Operator 2:			
Log Measurements: Depth measured from:	Maximum temperature:		
Location	Elevation	Date	Depth
Latitude:	KB:	Start:	
Longitude:	DF:	End:	
	GL:		
Casing Record	Borehole Record		
Size	From	To	Size
			From
			To
This company provides it's best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.			

Polaris Guidance Systems, LLC		Demo Well				
Company: Demo Company Well name: Demo Well API/UWI: County: State: Country: Field:		Survey Company: Survey Company Job Number: MWD Operator 1: MWD Operator 2: Location: Rig Id:				
Location Latitude: Longitude:	Elevation KB: DF: GL:	Date Start: End: Depth				
Casing Record			Borehole Record	Other		
Size	From	To	Size	From	To	Depth measured from: Max Temperature: Log measurements:

[illegible]