

2018 Office Viewer Manual



The Intelligent Geological Software Solution

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Introduction

Power*Log / Core & Curve[™] (Petrographical Office and Wellsite Evaluation and Reporting) is a chip sample and core logging program that utilizes single-entry data capturing to produce geological striplogs and corelogs. The geological data is entered into the system through the use of intuitive data entry forms to ensure standardization of data. This data is stored in an RDBMS(Relational Database Management System) to allow data manipulation using SQL (Structured Query Language) access tools.

Power*Log & Curve™ Software consists of Four (4) Main Sections:

- 1. A log editor module that allows you to change the striplogs to suit your needs and preferences.
- 2. A data transfer module.
- 3. Report printing modules.
- 4. An on-line help system that is designed to familiarize you with the commands and functions available in Power*Log / Core & Curve[™] and lead you through many of the processes involved in creating logs.

Starting Power*Log & Curve™...



1. Double click on the Power*Log and / or Curve™ waver 2018 viewer 2018 icon. This brings you into the Power*Log and / or Curve™ program. The first window to appear will be the Security

window with the registration and copyright information. **Click** on the **DK button** to acknowledge the window. A Connect Database window will immediately appear. See the "Connect" section, later in this User Manual to learn more about how to connect to a database.

Connect Database	Connect Database		
Databases:	Databases:		
PGEOLOGY 2018 IMPERIAL VW (Microsoft Acce	PGEOLOGY 2018 IMPERIAL VW (Microsoft Acces		
PGEOLOGY 2018 METRIC VW (Microsoft Acces	PGEOLOGY 2018 METRIC VW (Microsoft Acces		
User ID: pgeology Connect	User ID: pgeology Connect		
Password: XXXXXXXX Cancel	Password: ****** Cancel		

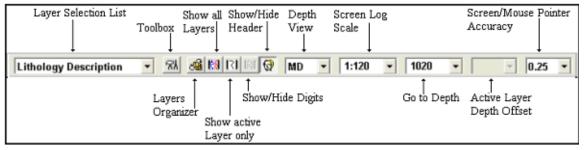
- Highlight the PGEOLOGY 2018 METRIC VW or PGEOLOGY 2018 IMPERIAL VW (Microsoft Access Driver [*.mdb]) database by clicking on it once, if it is not already highlighted. The choice for metric would be logging in Meters and Imperial would be logging in feet and inches.
- Move your mouse pointer to the User ID data field and click once to activate a flashing cursor in the User ID field. Then, type pgeology in the User ID field. Press the Tab key on the keyboard.

- 4. Type **pgeology** in the **Password** field and then **click** on the **Connect button**. The program will now load various dictionaries and will activate an **Open Log** window.
- 5. Scroll through the well list and Click on a well and then Double click on a log to open a log. You are now in the Power*Log or Curve[™] viewer environment.

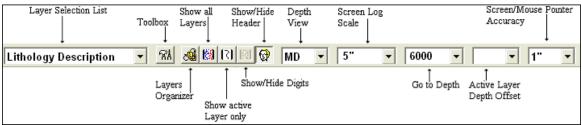
Accessing the On-line Help System in Power*Log & Curve™:

You can make use of the context sensitive help by pressing the F1 key when you are in a dialog box. A pertinent help file will appear, opened to the topic relevant to the dialog box you are in.

The Selection Bar...



Metric Version of the Selection Bar



Imperial Version of theSelection Bar Using USA style Inches Screen Scale

Layer Selection List		Show/Hide Header	Depth View ↓	Screen Log Scale		Screen/Mouse Pointer Accuracy
Lithology Description	- RI 🤬 🛤	য় 🔯 🔂	MD 💌	1:500 - 1	1020 💌	· 1". •
		↑ Show/Hi v active r only	de Digits	G	∫ o to Depth	1 Active Layer Depth Offset

Imperial Version of the Selection Bar Using the Ratio Scales selected in the System Options for Screen Scale

The Status Bar...

For Help, press F1 paeology UPDATE KB: 567.6

The **Status Bar** displays system status messages and any error message (associated with a field entry), in the far left corner. The KB elevation is displayed in the lower right corner of the **Status Bar**.

The Four (4) Main On-line Help System Categories:

Commands - Descriptions of each menu command within Power*Log / Core & Curve™. **Toolbar** - Shortcuts to common commands are explained.

Database Table Operations - Commands or functions related to the Database Table are described.



Quick Reference Guide - The portion of the On-line Help System that quickly refers you to some of the more commonly performed tasks

File Menu

Connect

File	
Connect	
Disconnect	
Open Close	Ctrl+O
Import Log / Well.	
Print Log Print Setup	Ctrl+P
Exit	

Connects Power*Log & Curve™ to a database.

To access the **Connect Database** window, click on **Connect**, under the **File menu** selection.

Databases	\$	
		VW (Microsoft Acce ,
PGEOLO	GY 2018 METRIC V	W (Microsoft Acces
User ID:	pgeology	Connect
Password:	*****	Cancel

Connecting to a Database

- 1. When this window is displayed, Highlight the **PGEOLOGY 2018 METRIC VW {Microsoft Access Driver)*.mdb)]** database.
- 2. Enter your **User ID** and **Password** in their respective fields (your default User ID and Passwords are both "**pgeology**").
- 3. **Click** on the **Connect button** to complete the connection.

Disconnect

Disconnects Power*Log & Curve ™ from a database.

Open

Opens an existing log

File	
Connect	
Disconnect	
Open Close	Ctrl+0
Import Log / Wel	l
Print Log Print Setup	Ctrl+P
Exit	



				Open	Well ?
File		Most Recently Opened Logs V ABC Oil Anywhere 12-25 Normal Prese H PowerSteer Example 3 H PowerSteer Example 2.	ntation	Search Wells by Field or DLS/NTS Field Note: Wildcards : % = any range, _ = single character	
Connect Disconnect		Well Name ABC HZ Blueroad a-18-D 94-A-13 ST ABC Oil Anywhere 12:25	UWI 200A006D094A1302 ABC 0il 12-25	Spud Date Dec 31, 2012 Feb 25, 2015	Choose field to search UUVI Enter Search String
Open Close Import Log / W	Ctrl+O /ell	TM Anybody Dil Sands TM Anyone Enchant TM Core Log 1 TM Core Log 2 TM Core Log 3 TM Core Log 4 TM Gas Log 4	Anybody Dil Sands 100041001416w/400 Core Log 1 Core Log 2 Core Log 3 Core Log 4 Gas Log	Jan 15, 2007 Sep 12, 1996 Jan 30, 2013 Mar 11, 2009	DLS (Dominion Land Survey System) Survey System Loc. Ex. LSD. Sec. Township Range E/W Mer. 0/A E.S.
Print Log Print Setup Exit	Ctrl+P	i Hoizontal Log 1 Hoizontal Log 2 Olisands 2 Olisands 3 H Dowar Stear Feamola	Horz Log Horz Log 1 Horizontal Log 2 202020202020 303030303030 PowerSteer Evemple	Jun 12, 2009 Aug 4, 2009	NTS (National Topographic Series System) Survey System Loc. Ex. 1/4 Unit Block P. Quad L. Quad Sixteenth E.S.
		Available Logs V ABC DB Anywhere 12:25 Normal Proce V ABC DI Anywhere 12:25 TVD Present V Gamma Ray Log		,	Search G By Field C By DLS/NTS Clear Query

- 1. Locate the well you wish to open either by querying or scrolling through the Well List portion of the window and **Click** on the **Well Name** so it becomes highlighted, and the logs available for that well will appear in the **Log List** portion of the window.
- 2. Click on the log name you want to open. It will become highlighted.
- 3. Click on the **button** and the selected log will open accordingly. Please keep in mind that **Power*Log & Curve™** allows you to have <u>multiple</u> logs open at once.

The **Recent Logs** portion of the window indicates the last 10 logs / wells opened. You may wish to select one of these rather than looking through the well list. Also if you are reopening the last well used it is already highlighted in the Recent Logs list and can be reopened easily by clicking

on the Open button or by

button or by depressing your enter key on your keypad.

<u>Note</u>: Logs with the letter "V" in front of their names are <u>Vertical</u> logs, and can only be used within **Power*Log™**. Likewise, Logs with the letter "H" in front of their names are <u>Horizontal</u> logs, and can only be used within **Power*Curve™**. We have now shown only the Vertical Logs available in Power*Log and will only show the Horizontal Logs in Power*Curve. This is an ini setting and can be changed in the pgeology.ini file in the installed folder.

How to Sort the Well List

(Well Name, UWI, Spud Date, Total Depth, Field, Pool, Hole Direction, Province/State, License #) 1. Select **Open**, under the **File** menu selection, to activate the **Open Log** window.

/ ABC Oil Anywhere 12-25 Normal Prese H PowerSteer Example 3 H PowerSteer Example 2 H UZ PowerSteer Example 2	ntation		~	- Field Note: Wildcards : % = any range, _ = single characte Choose field to search
Well Name	UWI	Spud Date	^	Uwi 👻
ABC H2 Blueroad a 18:0 94:4-13 ST M3BC DI Arwynere 12:25 Arwybody Di Sands Arwybody Arwybody Di Sands Arwybody A	2010A006D094A1302 ABC 011225 Anybody 01 Sands 10004100141001416W400 Core Log 1 Core Log 2 Core Log 3 Core Log 3 Core Log 3 Core Log 4 Gas Log 1 Horizontal Log 2 20202020200 Double Core Sands	Dec 31, 2012 Feb 25, 2015 Jan 15, 2007 Sep 12, 1996 Jan 30, 2013 Mar 11, 2009 Jun 12, 2009 Aug 4, 2009 Fab 15, 2016	~	Enter Search String DLS (Dominion Land Survey System) Survey System Loc. Ex. LSD Sec. Township Range EAW Mer. D/A E.S. NTS (National Topographic Series System) Survey System Loc. Ex. 1/4 Unit Block P. Quad L. Quad. Sixteenth E.S.
vailable Logs / ABC 0il Answhere 12-25 Normal Prese	antin			Search 🕞 By Field C By DLS/NTS Clear Query

2. The default sorting in the Open Log window is on Well Name. If you wish to sort on any other criteria, you simply have to **click on its heading indicator** at the top of the Well List. By doing so, you will sort the window with respect to that criterion. The Example above is sorted

by spud date in ascending order. If you click on the heading indicator again it will reverse the order as shown in the example below with Spud date in descending order.

ABC Oil Anywhere 12:25 Normal Prese PowerSteer Example 3 PowerSteer Example 2	ntation		<	Feach Wells by Field or DLS/NTS Field Note: Wildcards : % = any range, _ = single charact Choose field to search
Vel Name PowerSteer Example 2 PowerSteer Example 3 PowerSteer Example 3 1 Tutorial Zore Log 1 Tutorial Zore Log 1 Tutorial Vel Core Log 2 ARE Hz Blueroad a-18:D 94:A-13 ST Horizont Log 1 Gas Log Anybody Di Sands	UWI PowerSteer Exampl PowerSteer Example 100141901223/v500 ABC 011225 100143206323/v500 Core Log 2 2004006009441302 Horizortal Log 2 Horizortal Log 2 Horizortal Log 2 Anybody 01 Sands	Spud Date May 26, 2016* May 26, 2016* Feb 15, 2016 Jan 15, 2016 Sep 12, 2015 Jan 32, 2015 Jan 32, 2015 Jan 32, 2013 Jan 32, 2013 Dec 31, 2012 Aug 4, 2009 Jun 12, 2009 Jun 12, 2009 Jan 15, 2007 Jan 15, 2007		UVI Enter Search String ULS (Dominion Land Survey System) Survey System Loc. Ex. LSD Sec. Township Range E/W Mer. 0/A E.S. NTS (National Topographic Series System) Survey System Loc. Ex. 1/4 Unit Block. P. Quad. Louad. Sixteenth E.S.
∬Anyone Enchant IIVTO H7 KAYBOBS 16:3:59:19 (vailable Logs (ABC 0] Anywhere 12:25 Normal Prese	100041001415w/400 100160305919w/500	Sep 12, 1996	~	System CBC EX 1/4 Of the Block P. dual L dual Sweethin E.

How to Query the Well List (By String Search)

1. Select Open, under the File menu selection, to activate the Open Log window.

	Most Recently Opened Logs			Search Wells by Field or DLS/NTS	
	H PowerSteer Example 3	V ABC 01 Anywhere 1225 Normal Presentation H PowerSteer Example 2 H 20 V ABC 01 Anywhere 12 V V V V V V V V V V V V V V V V V V			ards : % = any range, _ = single character
	Well Name ABC HZ Blueroad a 18-D 94-A-13 S ABC Oil Anywhere 12-25	UWI 6T 2004006D0944130 ABC 0il 12:25	Spud Date 2 Dec 31, 2012 Feb 25, 2015	Choose field to search WELL_NAME	Enter Search String ABC
hoose field to search				DLS (Dominion Land Survey System Survey System Loc. Ex. LSD Sec. Town	m)
PUD_DATE RILL_TOTAL_DEPTH ELD DOL_DIRECTION ROVINCE_STATE CENSE	<		>	NTS (National Topographic Series Survey System Loc. Ex. 1/4 Unit Block	
	Available Logs			Search (By Field	C By DLS/NTS Clear Query
	V ABC Oil Anywhere 12:25 Normal Pro V ABC Oil Anywhere 12:25 TVD Press V Gamma Ray Log			Open	Cancel

- Choose the field to search criteria by clicking on the drop arrow in the search portion of the window. This will activate a drop list and click on your selection. You have many field strings to search with. Then type in your search criteria in the Enter String field. The example shown above is any Well Name with ABC in it anywhere.
- 3. You can **choose a search type** in the drop box beside the Search string you have type or selected. The default is **like** so if in this case the ANY can be anywhere in the well name.
- 4. **Click** on the **Search button**. This will redo the Well List with those Well Names that meet the specific criteria. The search results are shown below.
- 5. **Click** on the **Clear Query** button to refresh the list with all the Wells in the database.



How to Query the Well List (DLS or NTS Survey System)

1. Select Open, under the File menu selection, to activate the Open Log window.

			Open V	Vell ?
	Most Recently Opened Logs V ABC Oil Anywhere 12-25 Normal F H PowerSteer Example 3	Presentation	Search Wells by Field or DLS/NTS	
	H PowerSteer Example 2		Choose field to search	
	Well Name	UWI	Spud Date	UWI 🚽
	Anyone Enchant	100041001416W400	Sep 12, 1996	Enter Search String
Township Bange E/W Mer. 0/A E.S. 14 16 W 4				DLS (Dominion Land Survey System) Survey System Loc. Ex. LSD Sec. Township Range E/W Mer. 0/A E.S.
	<		3	NTS (National Topographic Series System) Survey System Loc. Ex. 1/4 Unit Block P. Quad L. Quad Sixteenth E.S.
	Available Logs V. Anyone Enchant Composite			Search C By Field @ By DLS/NTS Clear Query
	V Anyone Enchant Composite V Wireline and Lithology Log V Wireline Log Only			Open Cancel

- 2. Type in the fields to search by utilizing either the DLS or NTS Survey system that was used to create the <u>UWI. The example shown above is Township 14 Range 16 and the 4th Meridian</u>
- 3. Click on the Search button. This will redo the Well List with those Well Names that meet the specific criteria. The search results are shown below.
- 4. Click on the Clear Query button to refresh the list with all the Wells in the database.

Close

1.00		
C	onnect	
D	isconnect	
С	pen	Ctrl+O
C	lose	
I	mport Log / Well	
P	rint Log	Ctrl+P
Ρ	rint Setup	
E	xit	

Closes the currently active log

Click on **Close**, under the **File** menu selection, to close the current or active well.

You can also close a document by clicking once on the icon located at the top right of the document window.

Import Log/Well

Allows you to import a PowerSuite Export file (*.exp) into your database 2018 Viewer will only accept Version's 11, 12, 2015, 2016 and 2018 Export files.

1. Select Import Log / Well, under the File menu selection.

		Files		Go to Expo
		Time of Export File Name All	None	
Ionnect Disconnect		2016/08/18 15:17 c \exported wells\metric\abc horizontal.exp Not Open C.\Exported Wells\Metric\ABC HZ Blueroad a 18-D 34		Delete File:
O pen Ilose	Ctrl+O	Not Open C:\Exported Wells/Metric/ABC HZ Kaybobs 12:22:59: Not Open C:\Exported Wells/Metric/ABC Oil Anywhere 12:25 No Not Open C:\Exported Wells/Metric/ABC Oil Anywhere 12:25 TV Not Open C:\Exported Wells/Metric/ABC Oil Anywhere 12:25 VS	mal P D Pre	Exclude File
mport Log / Well.		Not Open C:\Exported Wells\Metric\Anybodies Oil Sands Log 2 e Not Open C:\Exported Wells\Metric\Anybodies Oil Sands Log exp	жp	Start Impor
Print Log Print Setup	Ctrl+P	File Header: Time of Export: 2016/08/18 15:17		
Exit		Product: POWER*SUITE Version: 2016.0.2.0 Description: horz Log: ABC Horizontal Well Name: ABC Oil Anywhere 12-25 U/WI: ABC Oil 12-25 App Ver. 2016.0.0.5 Storage Units: Metric [EXPORT OPTIONS] Log Configuration: Yes Entire Well: Yes Today's Interval: No 0.00 to 0.00 Morning Report: Interval:		
		Interval Data:	¥	Exit

Importing a Log/Well...

1. Click on the **Files...** button to browse through your drives/directories for the file(s) you wish to import. Note that files available for importing will have an **.EXP** file extension. Any of the files that you select will then be added to the **File** list. Please make sure that the files you wish to import are highlighted (selected), in the list prior to importing.

Note: In situations where numerous **Export** files are all being imported at once, **click** on the **All button** to highlight all of the **Export** files displayed in the **Import** window.

2. If any of the files are encrypted, a window will appear, stating that the file format is not

recognized (if the files are not encrypted, proceed to **Step 5**). **Click** on the **button** in this window and a **Password** box will then appear with the filename and an empty field for you to enter the correct **Password** into.

- 3. Type in the **Password**, using <u>UPPERCASE</u> letters only.
- 4. After entering the **Password**, **click** on the **button** to decrypt the file and place it in the **File** list with the file's contents displayed in the **File Header** list field.
- 5. The Import Log/Well window will now be displayed with the details of the file(s) to be

imported. Select/highlight the file(s) to be imported. Use the **button** to select all of the

files or use the **button** to select none of the files. Note that you can select or turnoff individual files by simply clicking on them with your mouse.

	Note: The	xclude Files b	utton will remove the selected/highlighted files from the import list,			
	but will not de					
	recoverable.	nigninghted in	es from their directory. Once deleted, these files will no longer be			
6.	Click on the	Start Import	button to activate the following system message, " Do you really			
0.		want to IMPORT the highlighted files?"				
7.	Click on the	<u>Y</u> es	button to proceed with the import.			
	Note: If you o	lick on the "	Yes" button, and the file you are importing contains the information			
	from an Entir	e Well , the f	ollowing system message will be activated, "About to IMPORT			
			information associated with this well in the database will be			
	OVERWRITT	EN. Continu	Je?"			
8.	Click on the	<u>Y</u> es	button.			
9.	Upon comple	tion of the im	port, the following system message will then be activated, "Data			
	has been im	ported succ	essfully."			
10.	Click on the	OK	button to confirm the successful import of the data.			
_	• • •					
PI	rint Log					

Prints all or part of your log/well along with the Title page, legends, individualized cores and formation tops on a continuous or single sheet basis

1. Under the **File** menu selection, **click** on **Print Log** to activate the **Print Log** window shown below:

Note: The Title bar and all depths associated with the Print Log window are defaulted to the Depth View that Power*Log is in at the time of the activation of the Print Log window.

	Print [View Mode: MD]	
File Connect	Printer: Adobe PDF Title Page/Legend/Tops/Surveys	Page Margin: 0.25
Disconnect	Page Orientation:	🔽 Page Overlap
Open Ctrl+O Close Import Log / Well Print Log Ctrl+P	Options ✓ Strip Log Title Page ✓ AER UWI Format ✓ Core Log Title Page ✓ Core Log Title Page Alt ✓ Bore Hole Log Title Page ✓ TRIVISON color.BI ✓ Azimuth	ew C Default efined
Print Setup		ection
Exit	Multi Vi Location Map C:\POWERSUITE_2018\LOGO\location map.bmp Title Page Remarks Striplog printed @ 1:240 Core Location to both the big to 2 140	Auto C Auto C Color C Mono Interval per Page
	Core Logs printed on tail of striplog @ 1:48	51.82
	Scale: 240 V Header V Footer	Log Width: 10.50 "
	None User-defined Interval Today Section (0.00 to 0.00) Well Section (140.00 to 525.00) Lithology Section (0.00 to 1047.00)	
	User-defined Interval: 140 to 526	Print
	Cores Scale: 48 V Header V Footer	Printer Setup
	580.00 - 598.00 -2 Mar 6, 2015 1000.00 - 1012.00 -1 Mar 7, 2015	Help
	Formation Tops Print Quality: 300 ■ Blank First Page	Exit
drop box field and the Ti	gal landscape Select the appropriate paper itle Page, Legend, and Formation Tops will a	orientation from this
Page Orientation: I ^{le} drop box field and the Ti to the selected orientation	gal landscape Select the appropriate paper itle Page, Legend, and Formation Tops will a on. There are four (4) types of paper orientation	orientation from this
Page Orientation: le drop box field and the Ti to the selected orientation portrait or landscape a te: The letter or legal land <u>NOT</u> override the paper erefore, you must also mo	gal landscape Select the appropriate paper itle Page, Legend, and Formation Tops will a on. There are four (4) types of paper orientation ind legal portrait or landscape settings. dscape or portrait settings selected from within orientation settings selected in the printer's Propodify the paper orientation settings in your print	orientation from this utomatically conform to choose from: le the Print Log windo operties window.
Page Orientation: le drop box field and the Ti to the selected orientation portrait or landscape a te: The letter or legal land <u>NOT</u> override the paper erefore, you must also mo dow to letter or legal land v Strip Log Title Page Active of the Title Page.	Print Quality: 300 Image: Blank First Page gal landscape Select the appropriate paper itle Page, Legend, and Formation Tops will a on. There are four (4) types of paper orientation ind legal portrait or landscape settings. dscape or portrait settings selected from within orientation settings selected in the printer's Preparent odify the paper orientation settings in your print dscape. vate this check box vate this check box	orientation from this iutomatically conform to choose from: le the Print Log windo operties window. er's Properties full Wellsight Versio
Page Orientation: le drop box field and the Ti to the selected orientation portrait or landscape a te : The letter or legal land NOT override the paper erefore, you must also mo idow to letter or legal land ✓ Strip Log Title Page of the Title Page. ✓ EUB UWI Format If you a format should be selected	gal landscape Select the appropriate paper itle Page, Legend, and Formation Tops will a on. There are four (4) types of paper orientation ind legal portrait or landscape settings. dscape or portrait settings selected from within orientation settings selected in the printer's Probability the paper orientation settings in your print dscape. vate this check box vate this check box if you wish to printout a are printing the Striplog Title page and you are ed.	orientation from this automatically conform to choose from: le the Print Log windo operties window. er's Properties full Wellsight Versio in Alberta the EUB
Page Drientation: ¹ e drop box field and the Ti to the selected orientation portrait or landscape a te: The letter or legal land <u>NOT</u> override the paper erefore, you must also mo adow to letter or legal land ✓ Strip Log Title Page Active of the Title Page. ✓ EUB UWI Format If you a format should be selected Core Log Title Page Active of the Core Log Title Page	Print Quality: 300 Image: Blank First Page gal landscape Select the appropriate paper itle Page, Legend, and Formation Tops will a on. There are four (4) types of paper orientation and legal portrait or landscape settings. dscape or portrait settings selected from within orientation settings selected in the printer's Propodify the paper orientation settings in your print dscape. vate this check box vate this check box wate this check box wate this check box vate this check box wate this check box vate this check box	orientation from this automatically conform to choose from: left the Print Log windo operties window. er's Properties full Wellsight Versio in Alberta the EUB n abbreviated versio
Page Orientation: le drop box field and the Ti to the selected orientation portrait or landscape a te: The letter or legal land <u>NOT</u> override the paper erefore, you must also mo ndow to letter or legal land ✓ Strip Log Title Page Active of the Title Page. ✓ EUB UWI Format If you a format should be selected Core Log Title Page Active of the Core Log Title Page Sample Log Title Page Active of the Core Log Title Page Active Cores Log Title Page Active of the Core Log Title Page Active of the Core Log Title Page Active of the Core Log Title Page Active Cores Log T	Print Quality: 300 Image: Blank First Page gal landscape Select the appropriate paper itle Page, Legend, and Formation Tops will a on. There are four (4) types of paper orientation and legal portrait or landscape settings. dscape or portrait settings selected from within orientation settings selected in the printer's Properties odify the paper orientation settings in your print dscape. vate this check box vate this check box wate this check box if you wish to printout a ge. ctivate this check box if you wish to printout a ge. ctivate this check box if you wish to printout a ge. ctivate this check box if you wish to printout a ge. ctivate this check box if you wish to printout ge. ctivate this check box if you wish to printout	orientation from this jutomatically conform to choose from: le the Print Log wind operties window. er's Properties full Wellsight Versio in Alberta the EUB n abbreviated versio an abbreviated
Page Orientation: le drop box field and the Ti to the selected orientation portrait or landscape a te: The letter or legal land I <u>NOT</u> override the paper erefore, you must also mo ndow to letter or legal land ✓ Strip Log Title Page Active of the Title Page. ✓ EUB UWI Format If you a format should be selected Core Log Title Page Active of the Core Log Title Page Version of the Core Log	gal landscape Select the appropriate paper itle Page, Legend, and Formation Tops will a in. There are four (4) types of paper orientation ind legal portrait or landscape settings. discape or portrait settings selected from within orientation settings selected in the printer's Probability the paper orientation settings in your print discape. vate this check box vate this check box wate this check box if you wish to printout a ge. ctivate this check box if you wish to printout a ge. ctivate this check box if you wish to printout a ge. ctivate this check box if you wish to printout a ge. ctivate this check box if you wish to printout a ge. ctivate this check box if you wish to printout	orientation from this jutomatically conform to choose from: lef the Print Log windo operties window. er's Properties full Wellsight Versio in Alberta the EUB n abbreviated versio an abbreviated

<u>Note</u>: Any bitmap image may be printed out as a logo. However, the bitmap image must be an equally sided square image, because **Power*Suite** will shrink or expand the image to fit the logo space on the **Title Page**. This bitmap should be placed in the **Powersuite_V9** logo directory.

9 V Location Map C:\POWERSUITE_2018\LOGO\location map.bmp Activ

✓ Location Map _____C. V OWENSON 22010 Location map tollow to cation map tollowing the title page, and then the user select a location

map from your computers drives by clicking on the and finding the file you want to print out as a location map.

<u>Note</u>: This must be a bitmap image file (*.bmp) if you want a location map to be printed out. Also, the bitmap image must be a square image, because **Power*Suite** will shrink or expand the image to fit the location map space following the **Title Page**. This bitmap can be placed anywhere as the file location is saved within the Power*Suite ini file.

- 10. Survey views **Plan View** Activate this check box **v**, if you wish to have the plan view (view of the well bore from surface) printed out in the striplog header as captured in the Survey View application.
- 11. Survey views ✓ User Defined Activate this check box ✓, if you wish to have the user defined view (view of the well bore as manipulated by the user) printed out in the striplog header as captured in the Survey View application.
- 12. Survey views ✓ Azimuth View Activate this check box ✓, if you wish to have the azimuth view (view of the well bore along the target azimuth) printed out in the striplog header as captured in the Survey View application.
- 13. Survey views **Cross Section** Activate this check box **✓**, if you wish to have the cross section view (view of the well bore at right angles to the target azimuth) printed out in the striplog header as captured in the Survey View application.
- 14. Survey views Multi Views Activate this check box, if you wish to have all the views printed out in the striplog header as captured in the Survey View application.
- 15. Legend Activate this check box , if you wish to have our entire legend printed out.
- 16. Use Dynamic Legend Activate this check box , if you wish to have the legend reflect only the symbols printed on the log or core portions of the printed intervals defined in the log and core portions of the print log window.
- 17. Type any pertinent comments into the **Title Page Remarks** field and they will be displayed accordingly on the **Strip Log Title Page only**.
- 18. Legend Activate this check box , if you wish to have our entire legend printed out.
- 19. Use Dynamic Legend Activate this check box ✓, if you wish to have the legend reflect only the symbols printed on the log or core portions of the printed intervals defined in the log and core portions of the print log window.

In the Log portion of the Print Log window

- 1. Log Scale: 240 Select or type in the Scale for the main log to be printed out at, in the Scale drop box field.
- 2. Freder Activate this check box red to have the track headers printed out with the main log.
- 3. Footer Activate this check box 🗹 to have the track footers printed out with the main log.
- 4. Core Accessories Activate this check box ^I to have the core accessories printed out on the main log.
- Highlight the main log printing options in the selection box. The user can select either None, User-defined Interval (requires that you manually enter the desired print interval depths), Today Section, Well Section, or Lithology Section.

	None	~	
	User-defined Interval		
	Today Section (234.00 to 345.00)		
	Well Section (200.00 to 1600.00)		
Į	Lithology Section (315 50 to 1593 50)	×	
	User-defined Interval: 200 to 1600		

<u>Note</u>: Today Section interval is derived from the From and To Depth values entered into the Today's Section portion of the Power*Log Data Transfer: Export window.

The **Well Section** interval is derived from the **Top** and **Base Depth** values entered into the **Print Sections** window under the **Edit** pull down menu. (see **Print Sections**).

The **Lithology Section** interval is derived from what has been drawn into the interpretive lithology track of the well that is being printed.

If user defined interval is chosen the user can select which depth type, either measured depth, true vertical depth or subsea level depth from the depth measurement drop box. The user must also type in the depth interval to be printed.

<u>Note</u>: The log itself must be displayed in whatever depth view you wish to print before you activate the print log window. To change the log to the desired format, refer to depth view under the view pull down menu.

In the Cores portion of the Print Log Window

- 1. If you are printing out a **Core** log on the tail of the striplog, select the **Cores** you wish to print by highlighting them.
- CoresScale: 120 Select or type in the Scale for the core log to be printed out at in the Scale drop box field.
- 3. Header Activate this check box I to have the track headers printed out with the core log.
- 4. Footer Activate this check box 🗹 to have the track footers printed out with the core log.

<u>Note</u>: A separate Header Information Box is automatically printed out with every Core and includes the Core Scale, Core Date, Core Number, Cored Interval, Amount Cut, Amount Recovered, and Percentage.

**A value must be entered into the Core Scale field in order to printout anything. **

5. **Formation Tops** Activate this check box **r** if you wish to printout **Formation Tops** and the **Formation Tops** will be included on a separate page at the end of the log printout.

Page Margin: 0.25 The page margin field is available, primarily, when you are printing to Adobe Acrobat writer. When a numerical value in inches is typed into this field it will initiate a top and left margin for the templates (Title Page, Legend and Formation Tops) as well as a left margin for the main log.

Fage Overlap Activate this check box ✓ if you are printing on single sheets. This will force the printer to include an additional 1/4 inch of the log at the top and bottom of each page, so that you can cut-and-paste pages manually, **if you so desire**.

Default Activating the default radio button 🖸 forces Power*Log / Core & Curve to use a raster

Print Methods Default Meta File or bitmap graphic printing method. This printing method is generally used with Laser printers but not exclusively so.

Meta File Activating the **Meta File** radio button **S** forces Power*Log / Core & Curve to use the **meta file technology printing method**. This printing

method was developed for the newer models of printers on the market today as well as using the Adobe Acrobat Distiller or pdf printing technology.

Auto Activating the Auto radio button is forces Power*Log / Core & Curve to use the settings from the printer driver to printout the log._____

Color Activating the Color radio button inforces Power*Log / Core & Curve to override the printer driver settings and consequently Power*Log / Core & Curve assumes that you are using a color printer.

Mono Activating the Mono radio button forces Power*Log / Core & Curve to override the printer driver settings and consequently **Power*Log / Core & Curve assumes** that you are using a monochrome (black and white) printer.



6. Click on the Printer Setup... button to activate the Print Setup window and confirm that the correct printer settings are in effect.

<u>Note</u>: If you are printing out logs in color, you must activate the **Diffusion** or **Error Diffusion** option normally found under **Graphics** in the **Properties** window for most printers.

- 7. Interval per page field indicates how many meters of log will fit on a page of selected paper size and orientation selected in the setup as well as what log scale you are printing at. This will help indicate to the user how many pages will be required by the print job.
- 8. Blank First Page Activate this check box if the user wishes to have a blank page before the logs starts. This could be useful if utilizing continuous paper when you want the title page oriented on the correct side of the prefolded paper.
- 9. When you are ready to print your log, click on the

button.

Print

<u>Note</u>: If you do **exit** from the **Print Log window**, you will be **asked if you wish to save the print settings. If you click on Yes**, the program will remember every setting that you made to the **Print Log** window and then will default to those settings the next time you enter the Print Log window

Print Setup

This command allows you to customize your printer options.

Click on Print Setup, under the File menu selection, to activate the Print Setup window shown below:

Connect Disconnect Open	Ctrl+0
Close	
oort Log / We	·II
]	Ctrl+P
:	

- 1. If you wish to use a printer other than the default printer, then select an available printer from the drop down menu.
- 2. Define the **Paper Orientation** by selecting either the **Portrait** or **Landscape** radio button **S**.
- 3. Select a Paper Size(generally Letter 8.5 x 11), and Source from the appropriate drop boxes.
- 4. To modify settings that are <u>specific</u> to the printer, **click** on the <u>Properties...</u> **button**.

<u>Note</u>: All reports are printed out in **Portrait**(Letter 8.5 x 11), however, logs may be printed in any format you wish.

5. If you are printing the log in <u>color</u>, then select **Diffusion** or **Error Diffusion**, under **Dithering**, via the **Graphics** tab from within the printer's **Properties** window. Conversely, if you are printing the log in <u>black & white</u>, then select **Coarse**, under **Dithering**, via the **Graphics** tab from within the printer's **Properties** window. Moreover, select **Print True Types as Graphics** via the **Fonts** tab from within the printer's **Properties** window, regardless of whether you are printing in black & white or color.

Exit

File	
Connect	
Disconnect	
Open	Ctrl+O
Close	
Import Log / Well	
Print Log	Ctrl+P
Print Setup	
Exit	

Closes current logs/wells, closes Power*Log / Curve / Core™, and returns to the Windows Desktop. Click on the Exit selection located under the File menu selection, to exit from Power*Log / Curve / Core applications. Shortcut:

Click on the Market Shown below, at the far right of the Title Bar

Edit Well

Lets you edit existing wells, and delete a well. The majority of this information is usually filled in at the start of a well, but should be updated with new information at the completion of a well.

The information associated with each well is entered into the **Well** window, along with the well's **UWI** (**Unique Well Identifier**). Note that each well and the information that it contains must be associated with a **UWI** (**Unique Well Identifier**) in order to distinguish it from the other wells residing within the **Power*Log / Core & Curve** database. However, the only way in which a well's information can then be displayed is by associating it with a log and then having that log open. **Click** on **Well**, under the **Edit** menu selection, to activate the **Well** window.

			Well				
Save Undo	New Del	First Prev ? N	lext Last Sh	orage Units: Metr	ic 💌	Original Uni	its: Metric
UWI	ABC Oil 12-25		Surf. Location	107.1			
Well Name	ABC Oil Anywher	e 12-25	Btm. Location	n 12-25-45-12 W4	М		
Operator:	ABC Oil Resource	es Ltd.	 Licensee:		the second se	License #: 12	424
Drilling Contractor:	Total Deepmess	35	Pool:	Lamba C Pool		Field: Anywh	here
County:					1		
The full sector of the sector	Alberta			0		Ground / C	ollar 21.1
Country:	Canada		Referen	KB: 24.9			ollar: 121.1 nge: 21.08
- Surface Coordinate	s			ISD. TO A		Cosing rid	inge. (*****
Latitude 0.12148	10°		N/S: 324	.23 meters North of	the South	boundary Of Se	ec. 23-45-12 W4M
Longitude 10.0577	'00°		E/W: 310	.12 meters East of	the West b	oundary Of Sec	: 23-45-12 W4M
Intermediate Casino	Point Coordinate:	8	11711				
Latitude		2	N/S:				
Longitude			- +/· E/W:				
Bottom hole Coordir	nates		200 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199				
).5 meters North of	original Su	face Location.	
Longitude 10.0577		= +/- E/W: 262.04 meters West of original Surface Location,					
UTM Surface Coord	dinates						
Northing: 23452.2	3		Easting: 312	24545.21			
Hole Direction: Ho	rizontal 💌	☐ Faulted	🔽 Deviated	Hole ID: 1	2-25-45-12	W4M	
Depths					Date	Time	Work Schedul
Drillers T.D. Drillers	s T.D. Drillers T.D.	Drillers T.D. Loggers T		Spud:	Feb 25, 2	016 22:15	Curves
(Tally) MD (Tally) 1037 395.83	TVD (Strap) MD	(Strap) TVD MD	TVD 394.06	T.D.:	Mar 7, 20	16 06:15	Mud Types
KB to Ground Cut	Fill	Plugback	Sidetrack	2,22274	Mar 10, 2		Dir. Surveys
3.8 1.5		300	305	ring riologio.		2.0000000000000000000000000000000000000	Det. Lith
			100	Well Status:	Potential Sephton (-
Water Depth	Reference: Mea	n Water Depl	h 12.5		Seption	51 WEII	Abstract

<u>Note</u>: The well window has been filled in to give you an idea of how to complete the different fields.

- 1. Change or add to the different fields by typing in the fields. Certain fields have restrictions to what data they accept. If an error occurs while saving refer to the status bar for instructions.
- 2. Click on the **button or press ALT-S** and the well data that you have just entered will be saved to the database.

<u>Note</u>: The **Well Name** field should be highlighted after you have clicked on the **Save** button or press ALT-S, as an indication of a properly saved record. Some of the fields in the **Edit Well** window have character restrictions or mandatory requirements. Consequently, if any of these restrictions have been violated or if any requirements have not been met, the offending field will be highlighted and the problem will be displayed on the **Status Bar**, at the lower left hand corner of your screen. Remember to save your work again, after the problem has been rectified.

3. If the record has been successfully saved, **click** on the **Exit button**, when prompted with the **Shortcut Options** system window.

Det. Lith Button:

1. The Detailed Lithology button allows you to add Detailed Lithology Groups. This is not applicable to the Office Viewer

Abstract Button

This button allows you to access the Well Abstract window, so that you may document an overview or maybe important facts regarding the well. This is not applicable to the Office Viewer.

Curve Button

The **button** activates the Digital Curve window and the user can edit the curve attributes as well as get at a secondary window to edit or view the curve scales. There are only two ways to change the Curve Attributes. One is through the Layer Configuration window and the other is Well Window and is located under the Edit pull down menu

How to Change the Digital Curve Attributes (Curve Units, Depth Units, Null Value and Remarks)

1. **Click** on the **Digital Curves button** in the lower right corner of the Well of the window. This will activate **Digital Curve** window. The user can also right click on an active curve layer and select the Edit Curve selection.

Digital Curve
Save Undo New Del First Prev ? Next Last Scale
Name Drill Rate
Units: min/m 💌
Depth Units: m
Null Value: -1
Remark:

- 2. The Default Curve name will be the curve name first in the Alphabet. The user can **click** on
 - the **button** to see a list of the curves associated with the primary well.
- 3. You can now rename, or **type** in, **new units**, change the **null value**, or add/change the **remarks**.
- 4. Click on the **button or press ALT-S.** The user can also change the curve scales by clicking on the **scale** button and editing the curve scales here.

How to Delete a Well

- 1. Click on the Edit menu selection and Click on Well to activate the Well window.
- 2. Click on the Well Name... button to activate the Well List window.

Edit	Well List	
Well	ABC H2: Blueroad:a:18:0 94:A:13:ST [200A006D094A1302] ABC H2: Blueroad:a:18:0 94:A:13:ST [200A006D094A1302] ABC Oil Anywhere 12:25 [ABC 0il 12:25] Anybody Oil Sands [Amybody 0il Sands] Core Log 1 [Core Log 2] [Core Log 2] Core Log 3 [Core Log 2] [Core Log 2] Core Log 4 [Gas Log] [Gas Log] Horizontal Log 2 [Horz Log 1] Horizontal Log 2] Oilsands 3 [3030303030] [OwerSteer Example 2] PowerSteer Example 3 [PowerSteer Example 3] [SV1 103:14:25-1:28 WPM 1103:142500128W100] SV1 103:14:25-1:28 WPM 1103:142500128W100] SV3:100:14:25-1:28 WPM 1103:142500128W100] SV3:102:14:25-1:28 WPM 1103:142500128W100] SV3:102:14:25-1:28 WPM 1103:142500128W100] SV3:102:14:25-1:28 WPM 1103:142500128W100] SV3:102:14:25-1:28 WPM 1103:142500128W100] SV3:102:14:25-1:28 WPM 1100:142500128W100] SV3:102:14:25-1:28	Query Select Clear Field Cancel

3. **Double Click** on the well name you wish to delete and its attributes will be displayed in the **Well** window. Or **click** on the **well name** so that it goes into the upper field and **click** on the

Select	button.

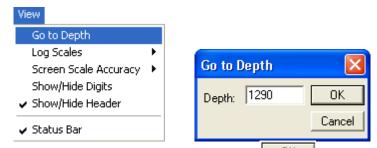
- 4. Click on the button and a confirmation message will appear asking, "Would you like to delete the current record?"
- 5. Click on the <u>Yes</u> button to delete the well from the **Well List** and from the database.

View Menu

Go To Depth

This allows you to go to a specific depth on the active log. There are two ways to do this procedure, as listed below: Procedure 1

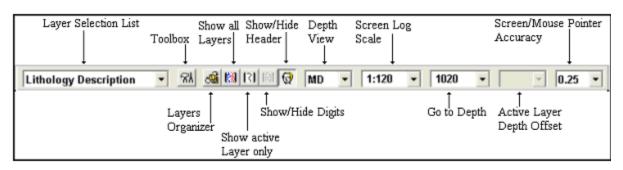
1. Click on Go to Depth, under the View menu selection, to activate the Go to Depth window for the active log.



2. **Type** in a **depth** in the depth field and then **click** on the **DK button**. This will place the depth specified at the top of the screen in Power*Log/Core or the left of your screen in Power*Curve.

Procedure 2

- 1. Click in the Go to Depth field.
- 2. Type in the depth of the log that you wish to view, in the Go to Depth field.



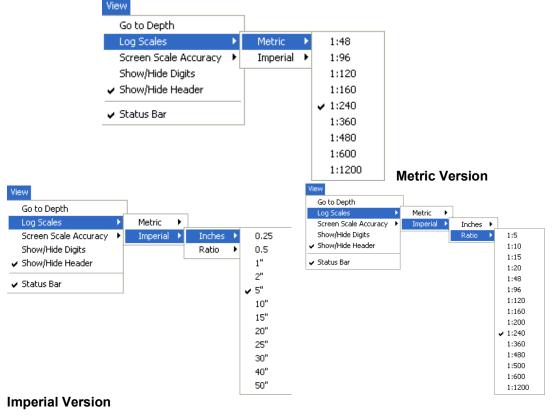
3. Once you have entered the desired depth, **press** the **Tab** key to exit from the **Go to Depth** field and the depth that you entered will then be displayed at the top of the log.

Log Scales

Allows the user to change the depth scale of the active log. Screen Log depth scales can be chosen from the menu and can also be type in the second method. The screen depth scales vary from 1:1 to 1:5000. There are two ways to do this procedure. They are both outlined below.

Procedure 1

Click on Log Scales, under the View menu selection, to activate the **pop out menu** and then **click** on the **log scale** you want for the active Log. This will refresh your log with the new Scale.





Note: This list is a partial list of the scales that can be displayed. To get the ability to display the log at any scale between 1:1 and 1:5000 refer to Procedure 2.

Procedure 2

- 1. Click in the Log Scales field.
- 2. Select a scale from the list by clicking on it, or by typing in a scale in the Log Scales field.

Layer Selection List	Toolbox Layers	Show/Hide Header	Depth View ↓	Screen Log Scale	Screen/Mouse Pointer Accuracy
Lithology Description	🔹 🕅 🤬 🛤	2 🕅 😡	MD -	1:120 - 1020	▼ 0.25 ▼
		show/Hi w active ver only	ide Digits	∫ Go to I) Depth Active Layer Depth Offset

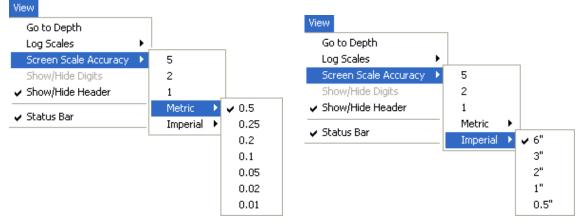
3. **Depress** the **Tab** key on your keypad. This will refresh your log with the new Log Scale.

Screen Accuracy

Varies the depth increment of the log according to your specifications. This increases or decreases the accuracy of your mouse pointer, while locating more specific depths with your mouse. There are two ways to do this procedure. They are both outlined below.

Procedure 1

1. Click on Screen Scale Accuracy, under the View menu selection, to activate the pop out menu and then click on the screen scale accuracy you want for the active Log. This will change the mouse's accuracy.



Procedure 2

1. Click on the Screen Accuracy field to activate the drop down menu.

Layer Selection List	Show Toolbox Laye	rall Show/Hide rs Header	Depth View ↓	Screen Log Scale	Screen/Mouse Pointer Accuracy
Lithology Description	- <u>84</u>	😡 🛛 🕅	MD •	1:120 • 1020	• • 0.25 •
		Show/Hi Show active Layer only	ide Digits	Go to E	Pepth Active Layer Depth Offset

 Select an available increment from the Screen Accuracy drop down menu by clicking once on the desired increment and your selection will be displayed within the Screen Accuracy field accordingly.



Note: This function only works for Curve layers on the log.

View	Status Bar
Go to Depth Log Scales Screen Scale Accuracy Show/Hide Digits Show/Hide Header	Turns the Status Bar, located at the bottom of the Power*Log / Core & Curve™ screen, on and off. This is the Power*Log / Core & Curve™ Status Bar The Status Bar displays system status and any error messages in the lower left corner of the screen. If there are no errors the status bar will indicate "For Help, press F1".
For Help, press F1	pgeology UPDATE KB: 597.6

Note: The KB Elevation is displayed in the lower right corner of the Status Bar

Options Menu

Options

Refresh Window Refresh Data

Lithology Integrity Check... Use Default Printer Settings

System Options...

Refresh Window

When you **click** on **Refresh Window**, under the **Options** menu selection, **Power*Log & Curve** will redraw the layers displayed on the screen. This is utilized to redraw the log when the screen doesn't look normal. This option will not retrieve information from the database and populate the log with it.

<u>Note for Network users</u>: Since this function doesn't retrieve information from the database, you will not be able to see any changes made by other network users.

Refresh Data

Options

Refresh Window Refresh Data Lithology Integrity Check... Use Default Printer Settings

System Options...

This option updates the log/well with all of the new/updated data that has been edited, entered or imported into the database. It can also be used if you have made some changes and you don't believe that they are being reflected on the log.

Refresh Data is particularly helpful, when you are working on numerous logs with the same **Primary Well** and the current log has been updated, while the inactive log(s) have not. To update the inactive log(s) with the latest information, make one of the

previously inactive logs active, **click** on the **Refresh Data** option, and then repeat this procedure for the rest of the logs.

<u>Note</u>: If you are using a network version of **Power*Log & Curve**, the **Refresh Data** option will update the database with changes, that have been made to the same **Primary Well** by another workstation.

Lithology Integrity Check

This option is used to verify the integrity of the lithologic intervals. This makes sure that there are no overlapping intervals on the log or in the database.

Options	Lithology Integrity
Refresh Window Refresh Data	Well
Lithology Integrity Check Use Default Printer Settings	UWI /API: 100141901223W500
System Options	Check Fix Exit

Checking and Fixing Lithologic Integrity

1. Click on Lithology Integrity Check, under the Options menu selection, to activate the Lithology Integrity window, which will default to the active well.

- 2. If necessary, **click** on the **well**... **button** and select the well that you wish to check or fix.
- 3. Click on the button and Power*Log & Curve will then check for integrity errors

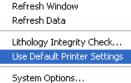
and display a message box showing the number of errors found. **Click** on the **button** to acknowledge the message.

- 4. If there are any errors that you wish to fix, **click** on the **Fix button** to activate a system message which allows you to verify the deletion of the offending intervals.
- 5. Click on the <u>Yes</u> button to delete the intervals or click on the button to cancel the operation.

<u>Note</u>: If you have fixed any intervals (deleted them), you will have to re-populate the log with the correct interpretive lithology.

Use Default Printer Settings

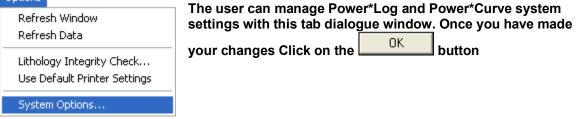
Options



Occasionally the Power*Suite printer settings gets confused in the initialization file and the user cannot activate either the Print Log window or the Printer Setup windows in the Morning and Well End report print windows. This problem can be rectified by clicking on the Use Default Printer Settings and clicking on yes to the ensuing message.

System Options

Options



General Tab

Sy	stem Options	×
General Fonts Display Favorites		1
Home Directory: C:\POWERSUITE_2018\ Version Data Buffer Compatibility Lookahead MMM DD, YYYY ▼ V1.9 ▼ 500 m	₩ Show All Wells at Startup	
	ОК	Cancel

Home Directory - This is the directory on your hard drive where **Power*Log and Power*Curve** is being executed. The user will not see any symbols on their log or print out any of our reports it you have the wrong home directory.

Show All Wells at Startup This check box when \checkmark activated will populate the Open Log window with all the wells in the database. If it is unchecked it may help our corporate users and the time it take to retrieve thousands of wells from the database and to populate the Open Log window with that information. If this check box is deactivated and you wish to see all your wells then simply

click on the Clear Query button in the Open Log window to see all their wells if this option is deactivated.

Date Format	
MMM DD, YYYY	-
MM/DD/YYYY	
MM-DD-YYYYY	
MMM DD, YYYY	
YYYYY/MM/DD YYYYY-MM-DD	

Date Format - From this drop box, you can select the date format. This selection determines how every date in **Power*Log / Core & Curve** will be entered and displayed. If you import a log with different date formats, **Power*Log / Core & Curve** will change the dates to comply with the format you've chosen here. The user can change this at any time and all the Date formats will be changed in the database.

Version Compatibility - Enables the user to achieve compatibility for Annotations in the older Versions of Power*Suite (V1.81 and before) and the Annotations in the newer Versions of Power*Suite (V1.9 and later).

Data Buffer Lookahead - The number placed in this field determines how far ahead and behind the current top depth will be stored in the computers buffer. The larger the look ahead number, the longer it takes for Power*Log / Core & Curve to refresh the screen when you exceed the look ahead value. However, until you meet or exceed the look ahead value, scrolling will be much faster, because the database is not yet being accessed.

Fonts Tab

This tab allows the user to set up most of the fonts used in Power*Log, Core and Curve. You can set it up to be used on the current log as well as using the fonts as your defaults when you are making new logs.

Syst	em Options					
Ge	neral Fonts Display Favo	rites				
	1 1 1 1	1100				1
	Fonts					
	Annotation Font		Track Header Font		Casing String Font	
	AaBbCcDdEe	Set	AaBbCcDdEe	Set	AaBbCcDdEe	Set
	Survey Font		Layer Header Font		Date Font	
	AaBbCcDdEe	Set	AaBbCcDdEe	Set	AaBbCcDdEe	Set
	Bit Record Font		Formation Top Font		Core Sample Code Font	
	AaBbCcDdEe	Set	AaBbCcDdEe	Set	AaBbCcDdEe	Set
	Generic Category Font		Offscale Font		Sidewall Core Font	
	AaBbCcDdEe	Set	AaBbCcDdEe	Set	AaBbCcDdEe	Set
	Depth Font		Core Box Font		MDT Font	
	AaBbCcDdEe	Set	AaBbCcDdEe	Set	AaBbCcDdEe	Set
	Depth Orientation: 🔿 Vert. (Horz	Show Depth Units:		Set As Default	Fonts: 🔽
					Apply to Cu	urrent Log
					Restore [Defaults
					ОК	Cancel

Annotation Font - Allows you to determine the default font style, type, color and size of your annotations on your log, Also this is the default when you use any of the Sample Description Transfer options.

Survey Font - Allows you to determine the font style, type, color and size of your survey data associated with the Survey Layer on your log.

Bit Record Font - Allows you to determine the font style, type, color and size of your bit record data associated with the Bit Record Layer on your log.

Generic Category Font - Allows you to determine the font style, type, color and size of your Long or Short Name display option in all the Generic Category Layers displayed on your log.

Depth Font - This allows you to determine the font style, type, color and size of the depth markers in the **Depth** track of the log.

Depth Orientation: C Vert. • Horz - These radio buttons allows the user to change the orientation of the Depth Font on the Layer. Beware you may have to change the Track Width to accommodate the Font size and orientation. Refer to the Log Configuration Builder to do this.

Show Depth Units This check box **when activated will display the depth units with the depth on** the Depth Layer. ie. 1000 ft or 1000 m vs. 1000

Track Header Font - Allows you to determine the font style, type, color and size of your Track Headers on your log. All track headers use the same font across the entire log.

Layer Header Font - Allows you to determine the font style, type, color and size of your Layer Headers on your log. All Layer headers use the same font across the entire log.

Formation Tops Font - Allows you to determine the font style, type, color and size of your Formation Tops data associated with the Formation Tops Long and Expanded Layers on your log.

Offscale Font - Allows you to determine the font style, type, color and size of your curve values displayed when the curve pegs off scale.

Core Box Font - Allows you to determine the font style, type, color and size of your Core Box data entered in the Core Box layer.

Casing String Font - Allows you to determine the font style, type, color and size of your Casing string data displayed on the Casing String layer. This data is entered through the Casing String Report.

Date Font - Allows you to determine the font style, type, color and size of your Date data entered in the Date layer.

Core Sample Code Font - Allows you to determine the font style, type, color and size of your Core Plug data entered through the Core Plug Report. This font is displayed on the Core Sample Code layer.

Sidewall Core Font - Allows you to determine the font style, type, color and size of your Sidewall Run and Sample Number data entered through the Sidewall Core Report. This font is displayed on the Sidewall Core layer.

MDT Font - Allows you to determine the font style, type, color and size of your MDT Run and Test Number data entered through the MDT Report. This font is displayed on the MDT layer.

Set As Default Fonts This check box is when activated will make the font setting in this window your defaults for any new log created regardless on the Fonts stored in the template.

How to Set your Fonts

1. Click on System Options selection under the Options menu selection To activate the System Options window.



- 2. Then **click** on the **Font Tab** to activate the Tab.
- 3. Click on the **Set** button beside the Font option you wish to change and this will activate the Font Window.

Font			? 🗙
Font: Arial Narrow O Book Antiqua O Book Antiqua O Bookshelf Symbol 7 O Century Gothic O Comic Sans MS Courier	Font style: Bold Regular Italic Bold Bold Italic	Size: 10 11 12 14 16 18 20 V	OK Cancel
Effects Strikeout Underline Color: Black	Sample AaBbYyZ; Script:	2	
This is an OpenType font. This printer and your screen.	Western same font will be used or	n both your	

- 4. Select form the Font, Font Style, Size Effects and Color. When you are finished **click** on the **DK button**
- 5. Repeat steps 2-4 for all Font types.
- 6. Click on the Apply to Current Log button.
- 7. If you want to set these as your default Font settings **click** on the **Set** As **Default** Fonts **check box.**
- 8. **Click** on the **DK button** in the **Systems Options** Tab dialogue window.

How to restore the System default Fonts

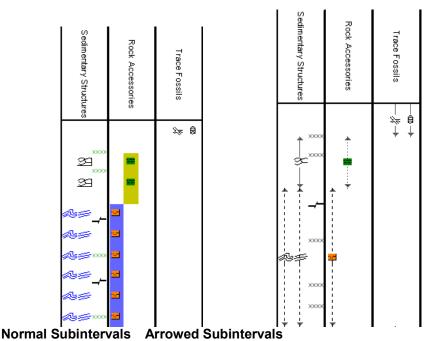
- 1. **Click** on **System Options selection** under the **Options** menu selection To activate the System Options window.
- 2. Then click on the Font Tab to activate the Tab.
- 3. Click on the Restore Defaults button.
- 4. Click on the Apply to Current Log button.
- 5. Click on the **DK** button in the Systems Options Tab dialogue window.

Display Tab

System Options
General Fonts Display Favorites
Symbology Arrowed Subintervals Frequency @ 1:240: 1 symbol every 2 ▼ m ▼ Transparent Lithology Profile ▼ Use Global Symbols Use Metric Style Scales ▼ Interbed Line Display Type ▼ Curve Backup Fill Grain Size Scale: Verbal Display: ● (mm) Display: ● Hard Edges Fill Pattern ● Soft Edges
Fill Pattern
Carbonate Textures Fill Pattern Color: I Fill Pattern Color: I Hard Edges C Soft Edges
Interpreted Lithology Layer Show Bedding Contacts: Show Accessories: Monitor Other Height Width 9 inches 12 inches Visplay TVD Visplay SSL Sidewall Core Run and Core No.
OK Cancel

Arrowed Subintervals - This check box 🔽 when activated will indicate the top and bottom of your subintervals (portion of an interval) with an arrow rather than a set of symbols. An example is shown below.

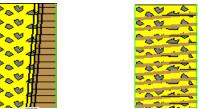




Transparent - This check box \checkmark when activated, this function makes the background of the accessory symbols transparent, so that the bed in the background shows through. If deactivated, a white background surrounds the accessory symbols in order to separate them more from the beds.

Use Global Symbols – With the ability to edit existing metafiles the user may have imported a well that has used metafiles or symbols that have been modified to look differently than the one existing within your system symbols. If you wish to use your symbol set instead of the revised imported ones you can select this check box **v** to make that change.

Interbed Line Display Type - This check box \checkmark when activated will display the interbed data with a line display splitting the two lithology types or when unchecked will display the lithology in an interbed fashion as displayed below.



Curve Backup fill – This check box is when activated will show a sideways hatching fill pattern when a curve goes off scale or in the backup mode. If unchecked there will be no hatching pattern when the curve goes off scale.

Frequency @ 1:240 – This drop box determines how often symbols are drawn on a **Lithology Layer**, with the scale of 1:240. For example: 1 symbol every 1 meter at 1:240, 2 symbols every 1 meter at 1:120, 1 symbol every 2 meters at 1:480, and so on. These frequencies are only in effect if you utilize the entire interval in **Oil Shows**, **Rounding**, **Sorting**, **Framework**, or designated an interval in **Sedimentary Structures**, **Traces Fossils** and Rock Accessories.

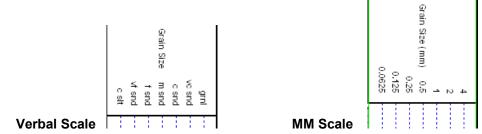
Lithology Profile - This check box vertice when activated will fill in the Carbonate Texture and Grain Size layers with the interpretive lithology. It will draw the lithology to the maximum size filled in over the interval.

Note: The user may wish to turn off the track borders when this option is selected. You will see an example of this shown below.

Grain Size	csnd msnd fsnd vfsnd csht					
Interpreted Litho	logy			***********	•	
Sealer Wentworth	Gra	in Size Scale List I	box - Yo	u may cho	ose betwee	n Wentworth,

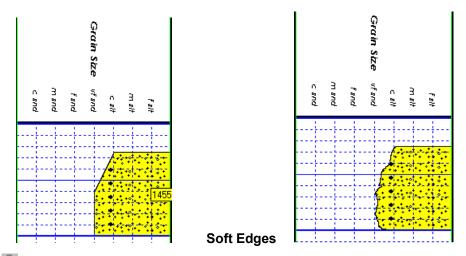
Canstrat or **Amstrat** scales, when using the **Grain Size Builder**. The Wentworth Grain size only allows full grain size while Canstrat / Amstrat allow half grain sizes when drafting in the Grain size and matrix layers.

Verbal Display:
This radio button will display the **Grain Size Track header** with the equivalent verbal grain sizes such as such as C slt, VF snd, F snd, M snd, C snd etc.



[mm] Display: C This C radio button will display the **Grain Size Track header** with the equivalent numeric grain sizes (in mm) such as .0625, .125, .25, .5, 1, 2 etc. as shown above.

C Hard Edges This S radio button will display the grain size with strait edges and right angles between the grain sizes. The illustration below is shown with Lithology Profile activated.



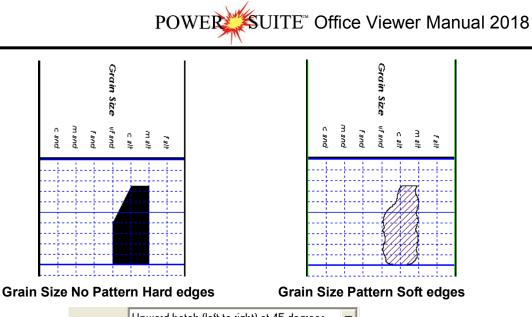
Hard Edges

anstra

Soft Edges This Station will display the grain size with curved edges and rounded angles between the grain sizes.

Grain Size Fill Pattern Upward hatch (left to right) at 45 degrees This drop box allows the user to select a hatching pattern when using the Grain Size Layer with the Lithology Profile not activate.

Grain Size Pattern Color: This color selector allows the user to pick the line color (foreground) when the fill pattern option is used. The background color is found in the Layer configuration for the Grain Size.



Carbonate Texture Fill Pattern Upward hatch (left to right) at 45 degrees This drop box allows the user to select a hatching pattern when using the Carbonate Texture Layer with the Lithology Profile not activate.

Carbonate Texture Pattern Color: This color selector allows the user to pick the line color (foreground) when the fill pattern option is used. The background color is found in the Layer configuration for the Carbonate Texture Layer.

Carbonate Textures Hard Edges This radio button will display the grain size with strait edges and right angles between the Carbonate Textures. The illustration below is shown with Lithology Profile activated.

Carbonate Textures Soft Edges This radio button will display the grain size with curved edges and rounded angles between the Carbonate Textures.

Interpreted Lithology Layer - Show Bedding Contacts: -When this check box is activated the bedding contacts (lines) between the drawn lithology types in the Interpretive Lithology Layer will be shown.

Interpreted Lithology Layer Show Accessories: 🗹 When this check box 🗹 is activated it will turn on the accessories in the Interpretive Lithology Layer.

Monitor Height - This option allows you to scale your monitor for Power*Log / Core so you may correlate on-screen wells with hard copy logs that you may have. It is recommended that you take an opportunity to measure the <u>vertical</u> viewing area of your monitor in inches and then insert that value in the **Monitor Height** field. Be aware, however, that if you adjust the screen height knob on your monitor, this will affect the monitor height setting.

Monitor Width - This option allows you to scale your monitor for Power*Curve so you may correlate on-screen wells with hard copy logs that you may have. It is recommended that you take an opportunity to measure the <u>horizontal</u> viewing area of your monitor in inches and then insert that value in the **Monitor Width** field. Be aware, however, that if you adjust the screen width knob on your monitor, this will affect the monitor width setting.

<u>Note</u>: You must restart **Power*Log / Core & Curve** for the **Monitor Width / Height** changes to take effect.



This drop box option will display your directional surveys on your log in either Quadrant format N 62 ° W) or Azimuth format (AZ 298 °)

Display TVD check box 🗹 when activated will display the survey point data with True Vertical depth values

Display SSL check box 🗹 when activated will display the survey point data with Sub Sea values.

✓ Sidewall Core Run and Core No. This check box ✓ when activated will display the Sidewall Core Run & Core numbers above the core triangle indicator on the Sidewall Core layer.

Window Menu

Cascade

Use this command to arrange multiple opened windows in an overlapping fashion.

Tile

Use this command to arrange multiple opened windows in a non-overlapping, side-by-side fashion.

Arrange Icons

Use this command to arrange the icons for minimized windows at the bottom of the main window. If there is an open document window at the bottom of the main window, then some or all of the icons may not be visible, because they will be underneath this document window (minimize the open window or adjust the size to see all of the minimized windows).

System Help

Index:

Use this command to display the opening **Help** screen. From the opening screen, you can jump to step-by-step instructions for using **Power*Log / Core & Curve** and various types of reference information.

Once you open **Help**, you can **click** on the **Contents** tab whenever you want to return to the opening screen.

Using Help:

Use this command to display the opening **Help** screen. From the opening screen, you can jump to step-by-step instructions for using **Power*Log / Core & Curve** and various types of reference information.

Once you open **Help**, you can **click** on the **Contents** tab whenever you want to return to the opening screen.



About Power*Log & Curve:



Context Sensitive Help button:

Use the Context Sensitive Help button to obtain help on some portion of Power*Log & Curve. When you select this button, the mouse pointer will change to an arrow and question mark. With this new pointer, click somewhere in the Power*Log & Curve window, such as another Toolbar button. Popup Help Information will appear.

Database Management

The Database Management tool allows the user to perform basic database functions on Power*Suite's access database. There are times where the performance of the database may become less responsive or slower to retrieve data. This would be case where the user would perform a compaction / repair on the database. The other utility provided would be changing passwords or a backup to the access database.



Database Management – How to Change your Password

The user cannot be connected to the database (Power*Log, Power*Curve and the Data Transfer Modules open) when this procedure is performed. If they are open please disconnect by selecting disconnect from the file menu.

The login window information must be filled in correctly for the user to be able to utilize any of the functionalities of this utility.



 Click on the select button, select Programs, then select Power*Suite_Viewer_2018 and select the Database Manager as shown above. This will activate the Power*Suite Database Manager window shown below.

Power*Suite	Database Manager
Login Change Password Cor	mpact / Repair Make Backup
PGEOLOGY 2018 METRIC W	W (Microsoft Access Driver (*.mdb)) 💌
- Login Information	
User ID: pgeology	Password:
Mi	nimize Exit Apply

- 2. Click on the down arrow beside the database selection field and select the database you wish to perform the management function.
- 3. Click in the User ID field to activate a flashing caret and type in your User ID. (Default is pgeology). Depress the Tab key to move the caret to the Password field.
- 4. Type in your old password. (Default is pgeology)
- 5. Click on the Change Password tab. This will activate the **Password** window shown on the next page with a caret in the Old Password field.

ogin	Change Password Compact / Repair Make Backup	
	Old Password:	
	New Password:	1
New	v Password Again:	
	Change Password	

- 6. **Type** in your **old password**. **Depress the tab key** to advance the caret to the New Password field.
- 7. **Type** in your **new password**. **Depress the tab key** to advance the caret to the New Password Again field.
- 8. Type in your new password again.
- 9. **Click** on the **button**. If done correctly, a System message will appear stating Password changed successfully shown below.

	System Message 🛛 🛛 🔀
	Password Changes Successfully!
	<u>ок</u>
10. Click on the	button to acknowledge this wind
11. Click on the	button to escape the Power*Su

Database Manager – How to Compact / Repair your Power*Suite Database.

The user cannot be connected to the database (Power*Log, Power*Curve and the Data Transfer Modules open) when this procedure is performed. If they are open please disconnect by selecting disconnect from the file menu.

1	Programs	•	PowerSuite_Viewer_2018		
				4	PowerCurve Viewer
				4	PowerLog Viewer
				D _B	Database Manager

 Click on the Start Menu selection, select Programs, then select Power*Suite_Viewer_2018 and then select the Database Manager as shown above. This will activate the Power*Suite Database Manager window shown below.

PGE	OLOGY	2018 ME	TRIC VW (Microsoft Ac	cess Dri	ver (* mdb	o)) 💌
-	in Inform			1	Terrer		_
U	ser ID:	pgeology		Passwor	d:	-	

- 2. Click on the down arrow beside the database selection field and select the database you wish to perform the management function.
- 3. Click in the User ID field to activate a flashing caret and type in your User ID. (Default is pgeology). Depress the Tab key to move the caret to the Password field.
- 4. Type in your password. (Default is pgeology)
- 5. Click on the Compact / Repair Tab. This will activate the Compact / Repair window.

ogin	Change Password	17	Make Ba	ckup
		Compact / Repair		
	iring and Compacting werSuite Viewer 20		logy.mdb	
	iring and Compacting werSuite_Viewer_20		logy.mdb	
			logy.mdb	
			logy.mdb	

6. Click on the **Compact / Repair** button. You will view the database file name and location in the window followed by a system message stating Database Compacted successfully shown below.

	System Information
	Database Compacted successfully.
	ОК
Click on the OK but	ton to acknowledge this window.

7.

8. **Click** on the **Exit button** to escape the PowerSuite Database manger.

Database Manager – How to Backup your PowerSuite Database.

The user cannot be connected to the database (Power*Log, Power*Curve or the Data Transfer Modules open) when this procedure is performed. If they are open please disconnect by selecting disconnect from the file menu.

Programs	PowerSuite_Viewer_2018 QL Data Transfer
	PowerCurve Viewer
	🎇 PowerLog Viewer
	📭 Database Manager

 Click on the start Start button, select Programs, then select Power*Suite_Viewer_2018 and select the Database Manager as shown above. This will activate the Power*Suite Database Manager window shown below.

PGE	OLOGY 20	18 METRIC V	W (Microso	ft Access [Driver (*.mc	ib))
Log	in Informatio	on				
U	ser ID: P9	eology	Pas	sword: 📑		

- 2. Click on the down arrow beside the database selection field and select the database you wish to perform the management function. The default database is the pgeology access (Microsoft Access Driver [*mdb]) shown in the above window.
- 3. Click in the User ID field to activate a flashing caret and type in your User ID. (Default is pgeology). Depress the Tab key to move the caret to the Password field.
- 4. Type in your password. (Default is pgeology)
- 5. Click on the Make Backup tab. This will activate the Make Backup window shown below.



	Choose backup file name		
Lifeate Sackup		Create Backup	

6. Click on the file location button to activate the Choose backup file name window.

P		Choose backup	file name		×
🕑 🎯 🔹 🕇 🚺	≪ Users → Public →	Public Documents	× v c	Search Public Document	s p
Organize 🔻 Ne	w folder			E≡E	• 🔞
This PC Construction Documents Downloads Music Pictures TV-NET-01 Videos		~	Name Documents Hewlett-Pa Logishrd metric db J		Date mo 11/26/20 6/5/2013 9/15/201 5/18/201 5/18/201
File name:	metric db Jan 5 2015.m	db			~
Save as type:	Microsoft Access Datab	ase File (*.mdb)			~
🕒 Hide Folders				Save	Cancel

7. Utilize this window to select or create a new file name as well as direct the file to any current

<u>S</u>ave folder on your computer. Once done click on the button. This will choose or create the file and show the user the correct path and file name in the window as shown above.

ogin	Change Password	Compact / Repair	Make Backup	
Choose	backup file name			
C:\U	sers\Public\Docum	ients\metric db Jan !	5 2019.mdb	
		Create Backup		planamod
	-			

- Create Backup button. If created successfully a system message will be 8. Click on the generated stating Database Backed Up Successfully shown below.

 POWER
 System Information

 System Information
 Image: Comparison of the comparison