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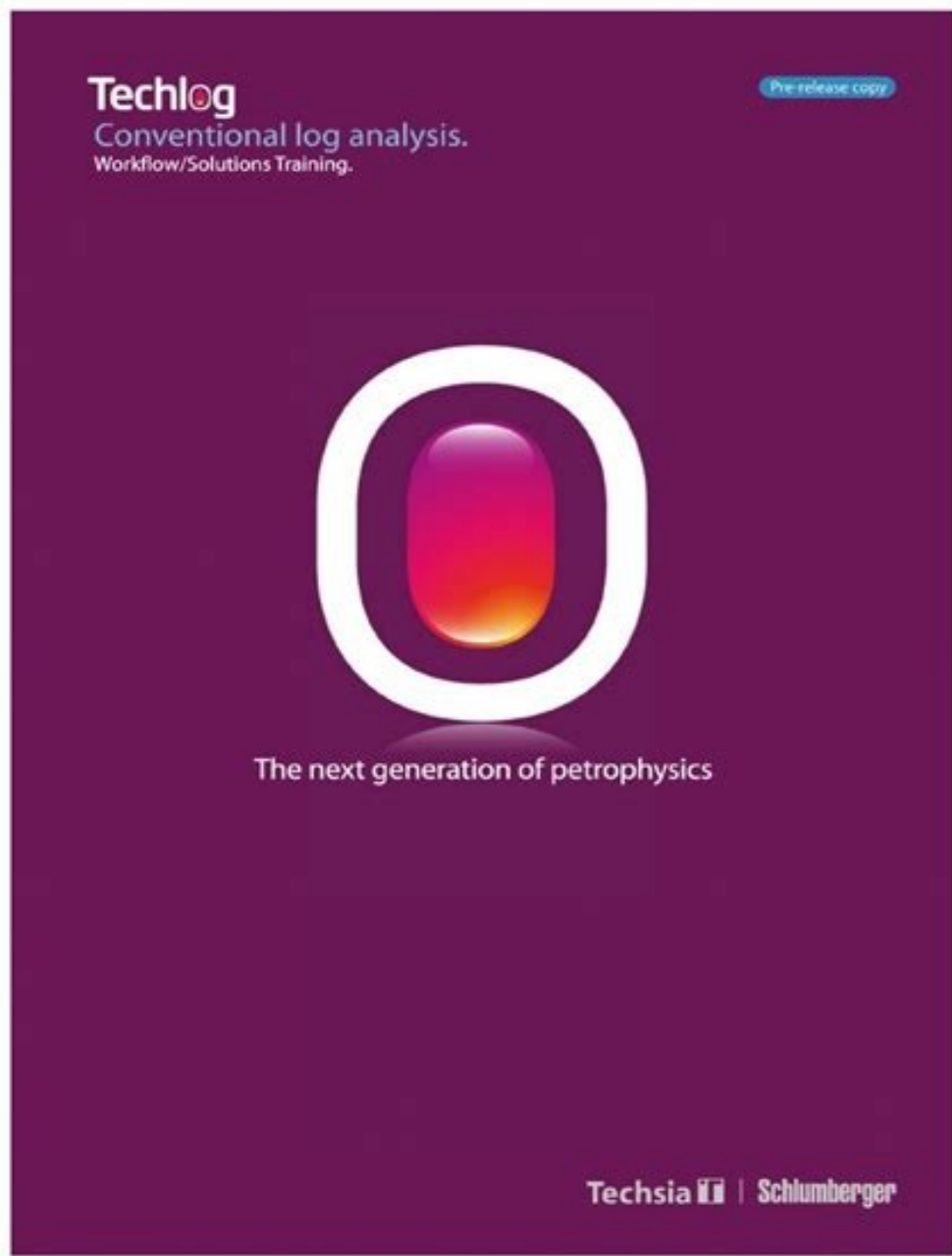
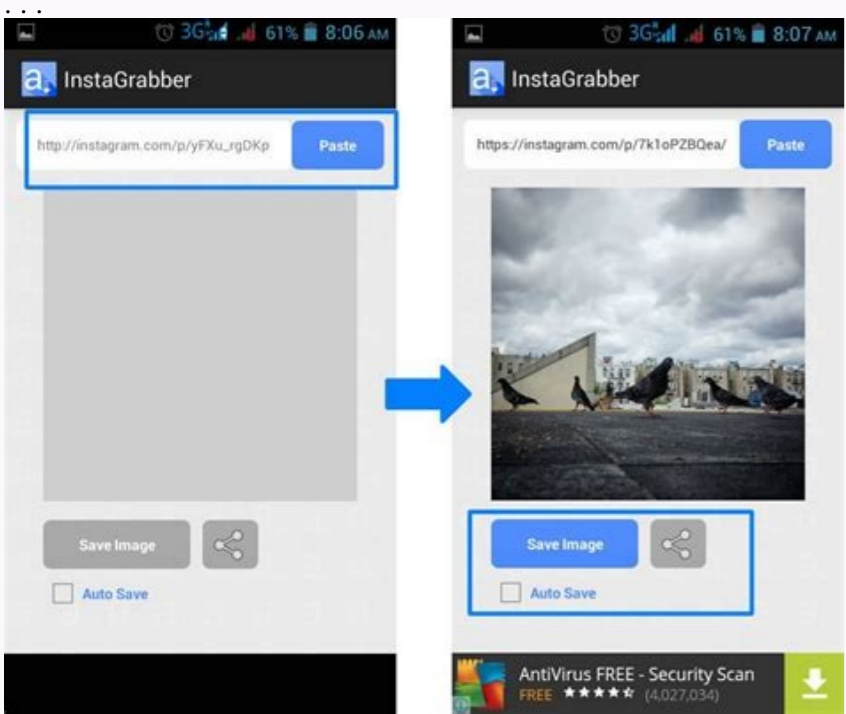


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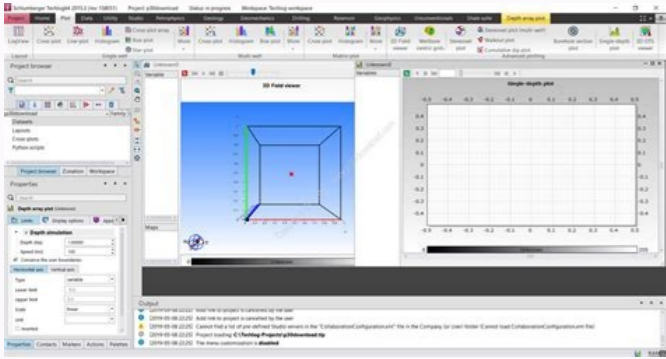
# Techlog 2015 manual

## Manual techlog 2015. Techlog 2015 manual pdf.

Techlog Fundamentals PDF Quanti Elan 2015 .Workflow/Solutions Training Today we offer you the manual of Techlog program. The topics will be covered are: Module 1: The Quanti.Elan method Learning objectives 9 Lesson 1: Quanti.Elan theory 9 Definitions and conventions 11 Quanti.Elan application assumptions 16 Quanti.Elan workflow 19 Review questions 20 Summary 21 Module 2: Project and data preparation Learning objectives 23 Lesson 1: Project creation 23 Exercise 1: Create a project 24 Lesson 2: Well quality controlled dataset 25 Exercise 1: Build a dataset 26 Review questions 32 Summary 32 Module 3: Quanti.Elan initialization Learning objective 35 Lesson 1: Quanti.Elan overview 35 Lesson 2: Temperature and salinity parameters initialization 36 Exercise 1: Initialize parameters 36 Review questions 40 Summary 41 Techlog Quanti.Elan, Version 2015 Module 4: Quanti.Elan model multi-mineral inversion Learning objectives 143 Lesson 1: Quanti.Elan model 44 Procedure 1: Build a Quanti.Elan model 44 tab 47 Quanti.Elan Properties window 57 Exercise 1: Build a Quanti.Elan model 59 Exercise 2: Add Quanti.Elan models 72 Lesson 2: Constant tool and constraints 78 Constant and Constraints example 1 79 Constant and Constraints example 2 80 Exercise 1: Add information and impose lim is with the Quanti.Elan Constant tool 81 Exercise 2: Use the Quanti.Elan constraints 83 Review questions 88 Summary 89 Module 5: Model combiner and postcomputations Learning objectives 91 Lesson 1: Combiner equation and Combiner method 91 Combiner equation 92 Combiner method 96 Exercise 1: Combine the results into the workflow 96 Lesson 2: Post-processing 107 Exercise 1: Add post-processing to the Quanti.Elan workflow 108 Review questions 122 Summary 123 Module 6: Petrophysical summaries Learning objectives 125 Lesson 1: Summaries window 125 Inputs tab 126 Parameters tab 127 Flags tab 128 Result tabs 129 Flag curves 131 Exercise 1: Calculate summation results for Well 132 Summation results 135 Exercise 2: Save the summation results (Method 1) 136 Exercise 3: Save the summation results (Method 2) 137 Procedure 1: Define the display of the results table 138 Techlog Quanti.Elan, Version 2015 Procedure 2: Configure the format of a report 139 Review questions 140 Summary 141 Module 7: ShalySand Quanti.Elan evaluation Learning objectives 143 Lesson 1: Data preparation 143 Exercise 1: Prepare data and create a preliminary analysis 144 Lesson 2: Temperature and salinity parameter initialization 147 Exercise 1: Run borehole computation 147 Exercise 2: Initialize parameters 150 Lesson 3: Quanti.Elan model 151 Exercise 1: Build a single Quanti.Elan model workflow 152 Exercise 2: Compute additional petrophysical outputs 162 Exercise 3: Calculate summation results 164 Review questions 167 Summary 167 Module 8: Well Spectroscopy evaluation Learning objectives 170 Lesson 1: Data analysis 171 Lesson 2: Quanti.Elan model 172 Exercise 1: Create a Quanti.Elan model for a Well Spectroscopy well 172 Review questions 185 Summary 186 Appendix A: Inversion constants Procedure 1: View the properties of the INVERSION CONSTANTS dataset 190 Procedure 2: Add a mineral or fluid 192 Procedure 3: Use values different from Techlog values 193 The 2015 release of the Techlog wellbore software platform features collaboration workflows using the Studio ESP knowledge environment and extensibility through the Ocean software development framework. New functionality has also been added to enrich the Techlog platform in unconventional and exploration geology. Also available is the 2015 release of the Studio environment. This new release enables petrotechnical professionals to collaborate with colleagues and share knowledge (all in the context of their Techlog platform project), improving productivity and gaining insight for smarter decisions in relevant timeframes. Techlog Fundamentals PDF 2015 .Workflow/Solutions Training Today we offer you the manual of techlog program. Next training manual 2015 release also the Quanti is available here. The topics will be covered are: Module 1: Basics of the Techlog Window Lesson 1: Components of the Main Window Procedure 1: Moving the Dock Windows Lesson 2: Main Dock Windows The Project Browser Procedure 1: Filtering Data in the Project Browser Procedure 2: Applying Conditional Selections Procedure 3: Grouping Data Objects Manually Procedure 4: Grouping Data Objects Automatically Data Search Contextual Menu Commands Trash Bin Output Window Properties Window Procedure 5: Using the Properties Window Zonation Window Markers Manager Workspace Manager Lesson 3: Synchronization Tool Project Partial Loading Feature Procedure 1: Disabling the Project Partial Loading Feature Procedure 2: Linking Techlog to the Reference Repository Procedure 3: Retrieving Items from the Reference Repository Procedure 4: Sending Items from the Current Project to the Reference Repository Data Locking Procedure 5: Locking Data Lesson 4: Techlog Project Creation . . . . .



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Click File menu > Save(the Save Asset Model File dialog opens.) OR Click the Save Model button. An OR is used to identify an alternate procedure. Characters typed in Bold represent references to dialog box names and application areas or commands to be performed. For example, "Open the OpenAsset Model dialog," or "Choose Components." Used to denote keyboard commands. For example, "Type a name and press Enter." Identifies the name of Schlumberger software applications, such as CLIPSE, GeoFrame or Petrel. Characters inside brackets indicate variable values that the user must supply, such as <characters typed in Italics represent file names or directories, such as "... edit the file sample.dat, and..." Represents lists and option areas in a window, such as AttributesList or ExperimentsArea. Identifies the first use of important terms or concepts. For example, "compositional simulation" or safe modeoperation. Characters typed in f1 xed-wi th r represent code, data, and other literal text the user sees or types. Examples include for 0. 7323. 7/25/2019 Introduction to Techlog 12/184 About this Manual Techcia, a Schlumberger c ompany 4 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Icons Throughout this manual, you will find icons in the margin representing various kinds of information. These icons serve as at-a-glancere minders of their associated text. See below for descriptions of whateach icon means. 7/25/2019 Introduction to Techlog 13/184 Techcia, a Schlumberger company About this Manual Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Summary In this introduction, we have: defined the learning objectives for Technlogintroductionary training outlined the tools you will need for this training discussed what you will encounter within this material 7/25/2019 Introduction to Techlog 14/184 About this Manual Techcia, a Schlumberger c ompany 6 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Notes The Techlog window is very flexible. You can customize its appearance and organization to suit your working habits. Begin by learning the default location and functionality of each window. Learning Objectives After completing this module, you will be familiar with the primary components of the Techlog main window, and you will know how to: customize the interface of Techlog access project data access Techlogmodules. Lesson 1 Techlog Main Window The Techlogmain window is comprised of many components. Figure 1 Defa it position of the main dock w indows in Techlog 7/25/2019 Introduction to Techlog 16/184 Basics of the Techlog Window Schlumberger 8 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Components of the Main Window Title bar Indicates the version of Techlogics well as the name of the project. The status of the project and the name of the active workspace are also indi- cated. Menu bar Launches the modules, such as Quanti, FPress, SHMAnd others. Contains commands related to the project, and the modules active in the project. Toolbar Shows icons that allow you to quickly access Techlogtools and plots. Project browser Shows all the data and Techlogobjects loaded in the project. Any global action on the database, such as data importing or data filtering, can be done in the Project browser. Output window Displays messages from the system, including infor- mation and warnings, and allows you to diagnose issues when working on Techlog. Contact window Allows you to manage contacts in the project. Propertieswindow Displays the properties of the selected objects. MostTechlog objects can be retrieved, modified and configured from this window, including the units of a variable and parameters. Action manager A listing of all the possible actions available on the selected object. Workspace manager Allows you to switch from one workspace to another. Techlogoperates a system of indepen- dent workspaces to optimize the display. Zonationwindow Stores all the interval sets within the project. It also permits you to limit the data display and analysis to a specific set of intervals. File window Select, create and modify color palettes. 7/25/2019 Introduction to Techlog 17/184 Schlumberger Basics of the Techlog Window Introduction to Techlog Workflow/Solutions Training, Version 2010.1 9 SchlumbergerPrivate Lesson 2 Dock Windows All the windows described are dockablewindows. This means they can be re-arranged at your convenience. Moving the Dock Windows Become familiar with manipulating the position of dockable windows by moving the Project browser. To move the Project browser: 1. Select the window header and drag-and-drop it to the right. The Project browseris now an independent window thatcan be moved to another screen. 2. Move the Project browserabove the Propertieswindow. The Project Browserand the Propertieswindow are now docked, with two tabs displayed in the same window. 3. Restore the windows to their default position. In the Viewmenu, choose Restore default positions. The Main Dock Windows Each of the main windows in Techlogics described in detail. The Project Browser The Project browseris where you access and display various Techlogobjects and perform simple operations. Click on Datasets to view a list of Techlogobjects that includes proj- ect wells, datasets and variables. The icon representing the dataset or the variable provides you with information on the dataset or the type of variable. 7/25/2019 Introduction to Techlog 18/184 Basics of the Techlog Window Schlumberger 10 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Figure 2 Listing of objects Figure 3 Saved layouts and plots Figure 4 Saved workflows The display can show a variety of other Techlogobjects. 7/25/2019 Introduction to Techlog 19/184 Schlumberger Basics of the Techlog Window Introduction to Techlog Workflow/Solutions Training, Version 2010.1 11 SchlumbergerPrivate Main Act ions in the Project Browser Actions can be applied on wells, datasets and variables directly from the Project browser. You can right-click on a Techlogobject, you will see an interactive list of the actions available. For example, right-click on a well, a dataset and a variable; view theinformation displayed for each. The available actions in the contextual menu depend on the object you select. Figure 5 Contextual menus The Output Window The Outputwindow contains information on every operation being run in Techlog. The messages provide you with valuable information and alert you to issues with the applications. Messages display in one of three colors, depending on the content of the information: Green is for information. Orange is a warning. Red is for errors.Each error and warning message is documented with an explanation about why the error or warning occurred. A sample green information message is shown in . Figure 6 Informa ion message after importing a dataset 7/25/2019 Introduction to Techlog 20/184 Basics of the Techlog Window Schlumberger 12 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate The Propert ies Window The Propertieswindow displays the parameters of any selected object - a variable, a workflow, a log view and more. The content of the window depends on the selected object, and you can edit the proper- ties of the object.For example, if the variable CLITHis selected in a layout, the window shows the Displayproperties. Moving the Properties Window to manipulate the Propertieswindow: 1. In the Project browser, select the variable CLITHin Well2, DATAFULL. 2. Press the F4shortcut key to bring the Propertieswindow to the front. Note that you can manually edit the unit of thevariable. 3. Press F4again to dock the Propertieswindow in. Figure 7Shows the important controls in the Propertieswindow when an object is selected: Typeof the selected object Full nameof the object Tabs for access to parameters and properties of the object 7. Properties tab arrected in green Figure 7 Key items of the Propert ies window 7/25/2019 Introduction to Techlog 21/184 Schlumberger Basics of the Techlog Window Introduction to Techlog Workflow/Solutions Training, Version 2010.1 13 SchlumbergerPrivate The Zonation Window The Zonation window stores all the interval sets in the project. Zones selected in the Zonationwindow are reflected in plots displays and workflows. To select zones, choose the name of the set from the drop-down list.In this example, only one set, named STRATIGRAPHY, exists. Figure 8 Select a zonation dataset After you select a dataset, a list displays containing all the zones within the zonation set. For example, in a layout, the selected zones in the Zonation window are highlighted in the layout. Figure 9 Zones selec ted in the zonat ion w indow are highlighted 7/25/2019 Introduction to Techlog 22/184 Basics of the Techlog Window Schlumberger 14 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Lesson 3 Workspace Manager The Workspace managerlists the workspaces opened in Techlog, and the windows opened within each workspace, such as plots and workflows. Shows the active windows and workspaces displayed in bold. In this instance, the active window is the layout KnowMWin in the workspace Techlog workspace. Figure 10 Workspace manager showing three workspaces You can switch from one workspace to another by double-clicking on it in the Workspace manager. You can also close windows or entire workspaces from the contextual menu. Figure 11 Workspaces and windows can be closed Summary In this module, you learned about: using the Techlog main window customizing the interface of Techlog accessing project data accessing Techlogmodules. 7/25/2019 Introduction to Techlog 23/184 Schlumberger Basics of the Techlog Window Introduction to Techlog Workflow/Solutions Training, Version 2010.1 15 SchlumbergerPrivate NOTES 7/25/2019
Introduction to Techlog 24/184 Basics of the Techlog Window Schlumberger 16 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate NOTES 7/25/2019 Introduction to Techlog 25/184 Techcia, a Schlumberger company Data Import Introduction to Techlog Workflow/Solutions Training, Version 2010.1 17 SchlumbergerPrivate Module 2 Data Import Techlogcan integrate many types of data, including log data, point data, seismic, deviation files and image files. Techlogalso supports a variety of the most common formats, including LAS, GeologASCII, DLIS/LIS, ASCII file with the wizard, core images and TechCSV and the Techlogformat (XML) Learning Objectives After completing this module, you will know how to: import data: files, such as DLIS, LAS and TXT formats spreadsheet files image files, such as PNG and TIFF XML Techlogfiles You also will know how to use the Well Identif ication Solver. Introduction You can import data in three ways, all of which are shown in Figure 12: Select Project > Import OR Press Ctrl + Shift + J, OR Click Data Import . Figure 12 Import option 7/25/2019 Introduction to Techlog 26/184 Data Import Techcia, a Schlumberger c ompany 18 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Regardless of the method you choose, the action opens the import buffer (Figure 13) in the Project browserdialog. The import buffer holds in a temporary disc space all the data you choose to import. You can qualify check the properties of each vari- able to be imported before it is formally imported into the project. Figure 13 Import wizard (left) and the import buffer (right) 7/25/2019 Introduction to Techlog 27/184 Techcia, a Schlumberger company Data Import Introduction to Techlog Workflow/Solutions Training, Version 2010.1 19 SchlumbergerPrivate Lesson 1 DLIS File Import There are two ways you can import \*.disdata. File(s) import or Selective DLIS import(Figure 14). Figure 14 File(s) import dialog File(s) importloads the header and the data, applies the family assignment rules, and calculates statistics when loading to the buffer. Selective DLIS importloads the header to the buffer and applies the family assignment rules (quick load). When you transfer files to the Project browser, it loads the data and calculates statistics. This type of import is useful when working with large Wellbore image files, or when you view the content of the file. Imported data are dis- played in the import buffer, where you can verify that all variables are present (Figure 15). Figure 15 Sele ct t he DLIS impor t dialog After data are imported into the buffer, highlight the datasets to be imported into the project and click the Blue Arrow to move them into the Project browser(Figure 16). 7/25/2019 Introduction to Techlog 28/184 Data Import Techcia, a Schlumberger c ompany 20 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate You can observe the progress of the import in a Techlogwindow. Figure 16 Data impor t into the Proj ec t b rowser Importing Log Files To import log files: 1. Select Project > Import. 2. In the Project buffer, click the drop-down menu and chooseSelective DLIS import. 3. Click Open . 4. Choose the files listed under 'DATA01 DLIS/Dataset fullandclick Open.You should see five files: Well1.dis Well2.dis Well3.dis Well4.dis Well5.dis 7/25/2019 Introduction to Techlog 29/184 Techcia, a Schlumberger company Data Import Introduction to Techlog Workflow/Solutions Training, Version 2010.1 21 SchlumbergerPrivate 5. Well4 and Well5 are added to the import buffer, they are added to the well names. Expand each well and view the datasets. 6. Choose the dataset DATAFULL for all five wells and click the Blue Arrow to formally import the data in the Project browser. 7. Verify that your data were correctly imported by expandingthe wells and the datasets. 8. Click on a variable and look in the Propertiesdock window. The properties for each variable are displayed. TIP: The shortcut for looking in the Properties window is F4. Notice that some variables are displayed in black, gray or red. Black indicates a variable has a unit, and has been assigned to a family. 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Data import wizardallows you to configure many parameters: dataset type - continuous data, point data, intervals, and more specific lines for which to import a line for unit, if it exists delimiter of the original file. 7/25/2019 Introduction to Techlog 32/184 Data Import Techcia, a Schlumberger c ompany 24 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Figure 18 Data impor t wizard for zones import 7/25/2019 Introduction to Techlog 33/184 Techcia, a Schlumberger company Data Import Introduction to Techlog Workflow/Solutions Training, Version 2010.1 25 SchlumbergerPrivate Importing TXT Files To import \*.txtdata: 1. Set the drop-down menu to File(s) import. 2. In the folder 'DATA03 TXT, import the file ZONES.txt.Theimport Wizardwindow opens. 3. In the Propertyarea, change the Dataset Typeto Interval. Notice that there are no units in this file. 4. Add the unit (ft) to the Referencevariable. 5. Click Preview. Your Data import wizardwindow should look the same as the window in the figure. 6. Click Loadto the import buffer. 7. Make a quality check on the data. Notice that the import buffer contains the data. 8. Verify that your data were correctly imported by expandingthe wells and the datasets. 9. Click on a variable and look in the Propertiesdock window. The properties for each variable are displayed. TIP: The shortcut for looking in the Properties window is F4. Notice that some variables are displayed in black, gray or red. Black indicates a variable has a unit, and has been assigned to a family. Gray indicates the variable is missing, or a family or a unit. Red indicates the variable has no unit and no family assigned to it. This display helps you harmonize and quality check the data. (These topics are discussed later in the training.) 9. After you quality check the data, click the Deletion todelete the contents of the import buffer. Lesson 2 LAS File Import When importing \*.lasfiles, set the drop-down menu to the File(s) Importmethod (Figure 17). All other steps in the import process are identical to the procedure for importing \*.disdata. Figure 17 LAS file import dialog 7/25/2019 Introduction to Techlog 30/184 Data Import Techcia, a Schlumberger c ompany 22 Introduction to Techlog Workflow/Solutions Training, Version 2010.1 SchlumbergerPrivate Importing LAS Files To import \*.lasdata: 1. Set the drop-down menu to File(s) import. 2. Click . 3. Choose the files listed under 'DATA02 LAS/Dataset fullandclick Open. Well1.las Well2.las Well3.las Well4.las Well9.las 4. Expand each well and view the datasets. 5. Choose the dataset SURVEYfor all five wells and click to formally import the data in the Project browser. The figure shows the import buffer after adding the SURVEYfiles. 6. Verify that your data were correctly imported by expandingthe wells and the datasets. 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