

PetroReport

Version 2012.2



PetroMod

PetroMod petroleum systems modeling software

User Guide

Schlumberger

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1. Introduction

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1.1. Software

PetroMod petroleum systems modeling software combines seismic, well, and geological information to model the evolution of a sedimentary basin. **PetroMod** software will predict if, and how, a reservoir has been charged with hydrocarbons, including the source and timing of hydrocarbon generation, migration routes, quantities, and hydrocarbon type in the subsurface or at surface conditions.

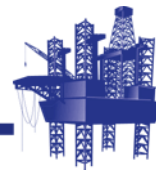
PetroReport provides detailed information on hydrocarbon masses and volumes generated and expelled from the source rocks as well as the amount that has migrated to and accumulated in reservoirs. The mass and volume of hydrocarbon losses are also displayed in detail.

Users are in full control of the way data is displayed. Values can be displayed and cumulated for all paleo events or shown for individual paleo times only, layers and components can be selected and de-selected as required.

Information can be copied and pasted into standard office applications (spreadsheets, presentations, word processors etc.) for preparing deliverable reports.

Who should use this software?

Specialist basin and petroleum system modelers whose responsibilities range from petroleum resource assessments on a regional scale, to petroleum charge risk assessments on a play or prospect scale.



2. Getting Started

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2.1. Open PetroReport

- 1 Open the **PetroMod Command Menu**.

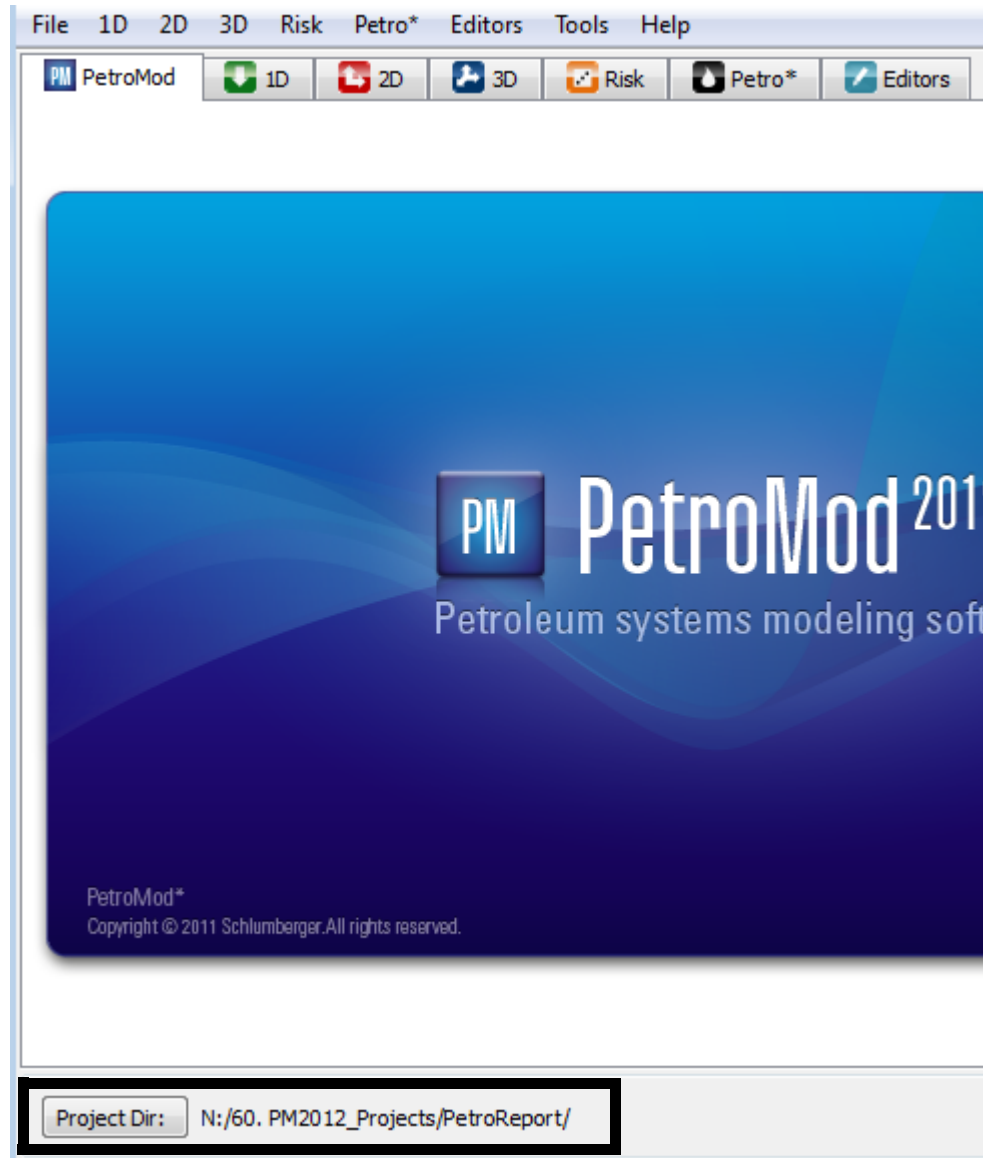


Fig. 2-1 The PetroMod Command Menu

- 2 Click the **Project Dir:** button to change/create a project directory. The Select Project Path dialog will open. Select your path or create a new project.
- 3 To open PetroReport, go to the **Petro*** tab and click once on the **PetroReport icon** (alternatively, click Petro* on the Menu bar and then PetroReport).

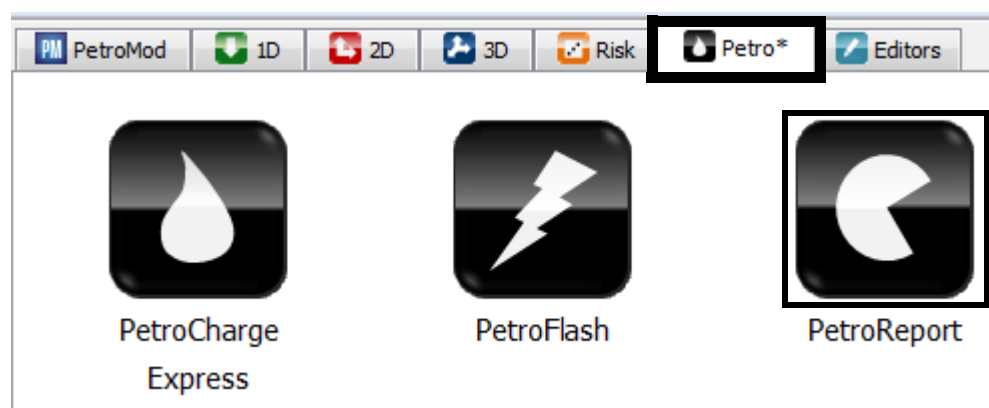


Fig. 2-2 Opening PetroReport from the PetroMod Command Menu

- 4 A dialog box will open. Select the model and click **Open** (you can select 1D, 2D and 3D models), The model will be loaded into **PetroReport**.

2.2. Overview of the GUI

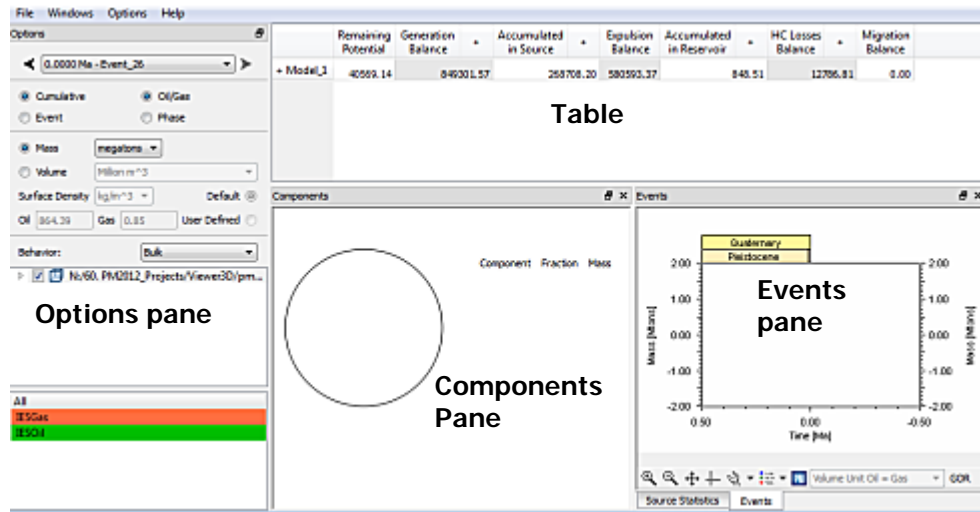


Fig. 2-3 The PetroReport GUI

The **PetroReport** interface consists of 5 panes - the **Table**, **Options** pane, **Components** pane, **Events** pane and **Source Statistics** pane (the **Source Statistics** pane is not shown in Fig. 2-3).

Table

The **Table** shows detailed information on the masses and volumes of hydrocarbons that were generated and have migrated, accumulated and been lost.

Components pane

The **Components** pane provides a graphical representation in the form of a pie chart (for masses and volumes) or bar chart (for balances) of the currently selected cell in the table.

Events pane

The **Events** pane plots a mass or volume against time for the currently selected cell(s) in the table.

Source Statistics

The **Source Statistics** pane shows the amount of hydrocarbons that were generated and expelled from the source rocks. By default, it is not shown when you open **PetroReport**. Click the **Source Statistics** tab (next to the **Event** tab) to open the pane.

Options

Use the **Options** pane to change the way data is displayed, e.g. mass or volume, cumulative or for the current event only. See section 3.5. [The Options Pane](#) for more details.

2.3. Adjust the Layout of the GUI

Close and reopen panes

Close the **Component**, **Event** and **Source Statistics** panes by clicking the **Close** symbol in the top right corner of the pane. Reopen a pane by checking the respective pane on the **Windows** menu on the **Menu** bar.

Undock and docking panes

The docking feature enables you to adjust the working area to suit your own needs. You can undock and dock the **Options**, **Component**, **Event** and **Source Statistics** panes.

- Double-click on the title bar of a pane to undock it. Double-click again re-dock it.

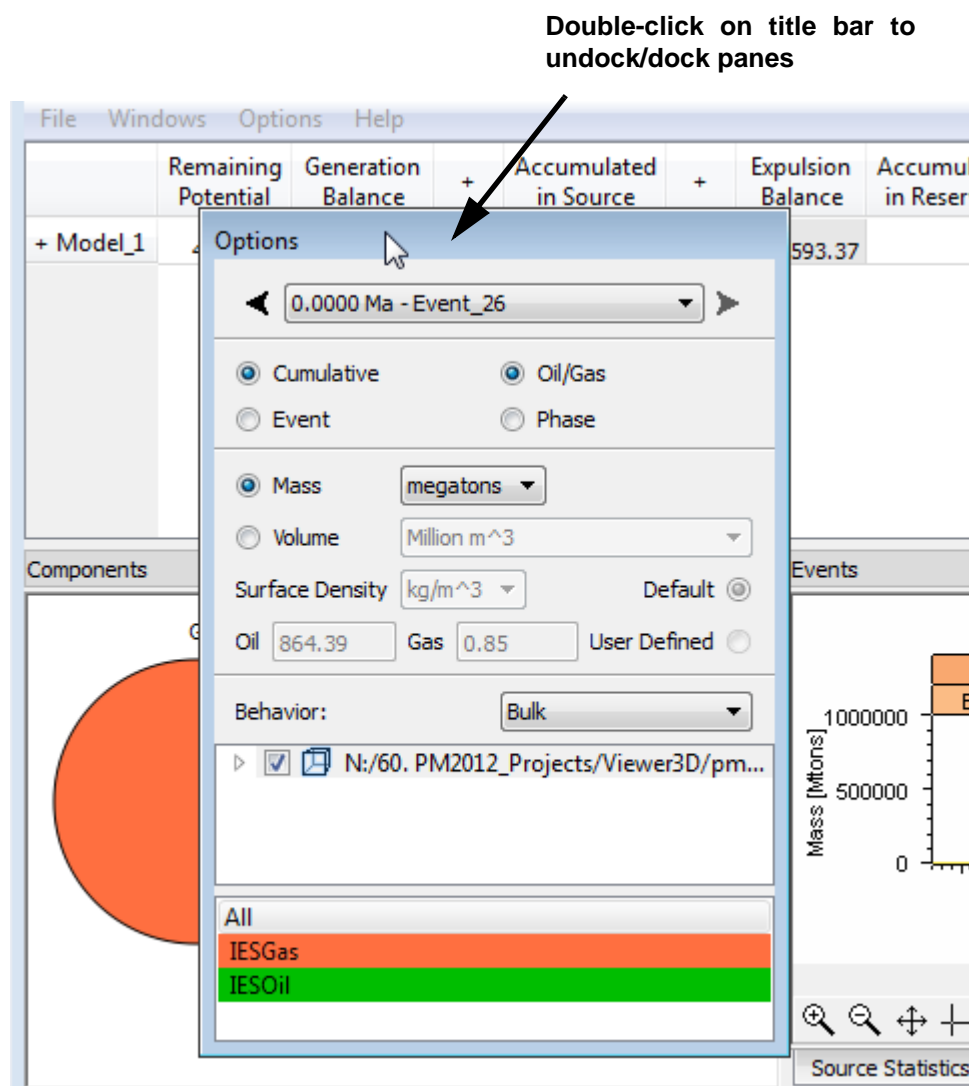


Fig. 2-4 Undocking the Options pane

- Move an undocked pane outside the program area to prevent it from re-docking.

Save the changes to the layout

- To move a pane to a different location, click on the title bar and drag the pane over the GUI. The blue background indicates where the pane will dock (see Fig. 2-5). Release the mouse button to dock the pane.

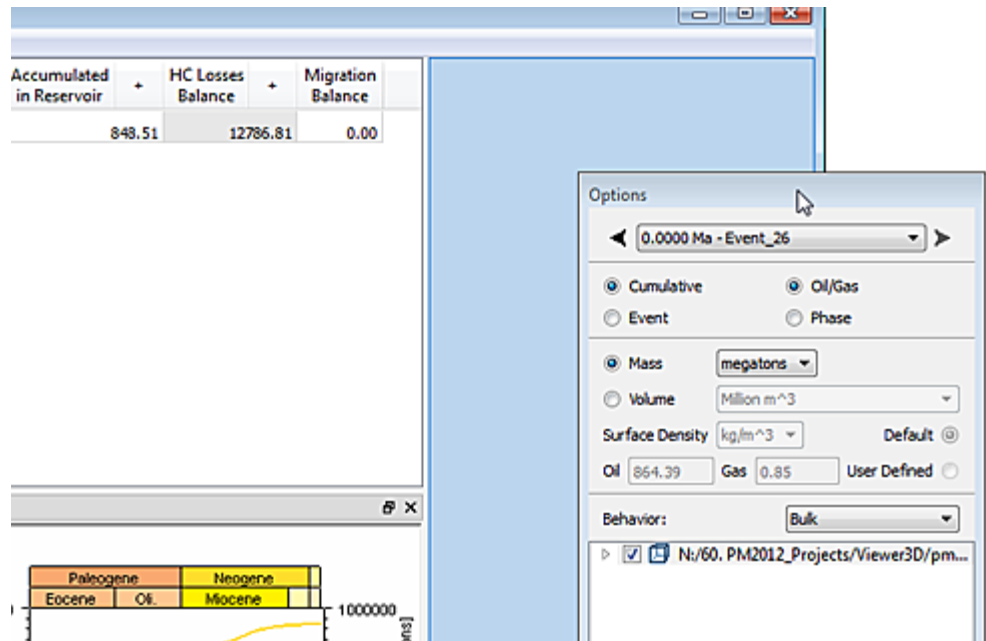


Fig. 2-5 Dragging a pane to a different location and re-docking it

• • • • •
Note: The behavior and color of the background could be different depending on your operating system settings.

Save the changes to the layout

After you have adjusted the working area, save the changes with either the **Store Layout** command or the **Auto Restore Layout** option, otherwise the adjustments are lost when you close the program.

- To save the customized windows layout, select the command **Store Layout** from the **Windows** menu.
- To open a stored layout after program start, select the command **Restore Layout** from the **Windows** menu.
- The command **Default Layout** returns PetroReport to the default GUI layout.
- If the option **Auto Restore Layout** is selected, PetroReport will open automatically with the same layout it had before you last closed it.



3. Viewing Data

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3.1. Opening Models

When you first open **PetroReport** you are asked to select a model. The model is displayed in the **Options** pane. You can open additional models at any time. Each model is added to the **Options** pane.

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Important: Before viewing models in PetroReport, make sure the models have been simulated using the Write Overlays for PetroReport option (in the Output folder of the Simulation 2D/3D Control Panel in the Simulator interface). Otherwise, PetroReport will show incorrect data.

- 1 Select **File** on the **Menu bar** and then **Open Model...** as shown in Fig. 3-1.

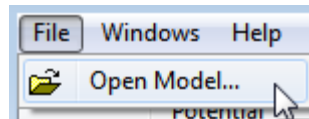


Fig. 3-1 Opening a model

A dialog box will open. Browse for a model and click **Open**. The model will appear in the **Options** pane as shown in Fig. 3-2.

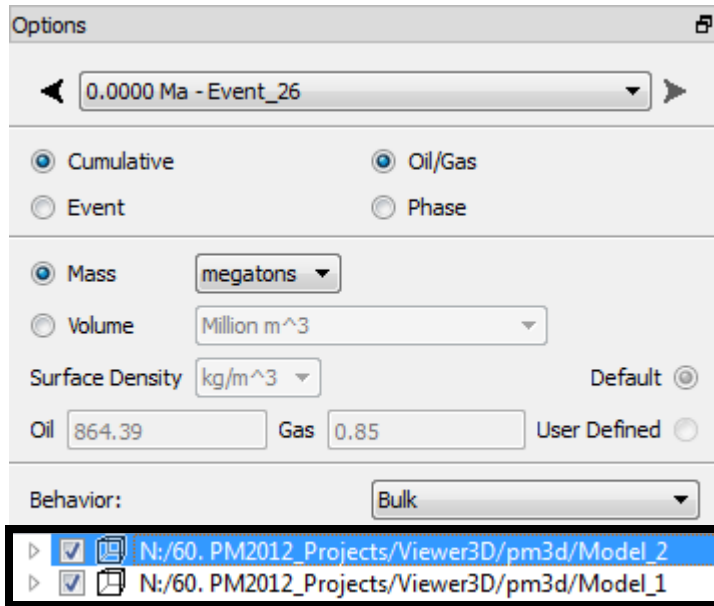



Fig. 3-2 Loading a second model into PetroReport. The model is listed in the Options pane.

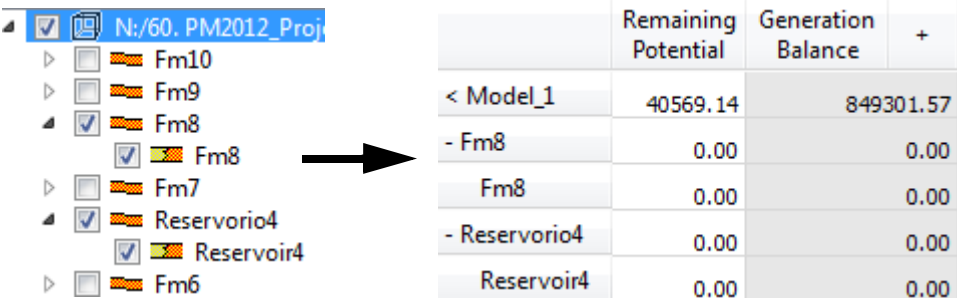
3.2. Viewing Data in the Table

You can only view data for one model at a time in the table. Select the model on the **Options** pane to make it the active model (the active model is highlighted in blue on the **Options** pane). Data for the active model will be loaded into the **Table**.

The **Table** shows all the layers currently selected in **Options** pane.

- Click the  symbol to expand the model and layers in both the **Options** pane and the **Table**.
- To add or remove layers from the table, check/uncheck the corresponding entry in the **Options** pane.

In Fig. 3-3 the **Table** shows the layers that are checked in the **Options** pane.



	Remaining Potential	Generation Balance	+
< Model_1	40569.14	849301.57	
- Fm8	0.00	0.00	
Fm8	0.00	0.00	
- Reservoirio4	0.00	0.00	
Reservoir4	0.00	0.00	

Fig. 3-3 Check/uncheck layers in the tree to add/remove them from the PetroReport table.

The columns show the sum of the values for each component selected in the **Options** pane. Use the Ctrl and Shift keys to select multiple components. In Fig. 3-4 all components are selected.

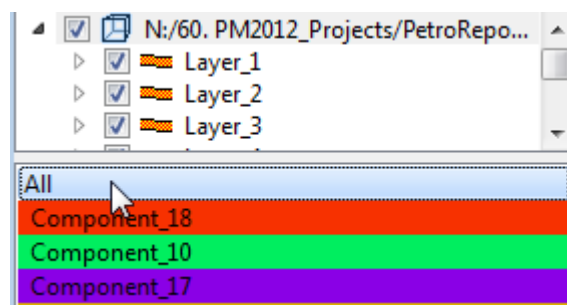


Fig. 3-4 Selecting the components

Click the "+" symbol next to a column heading to reveal more detailed information on that particular category (see Fig. 3-5).

Generation Balance	+	Generation Balance	-	Generated by Primary Cracking	Generated by Secondary Cracking
849301.57		849301.57		852414.20	7262.91

Fig. 3-5 Expanding a category in the table.

Click the "-" symbol to collapse it again.

The table provides information on the following:

Remaining Potential: The amount of remaining, i.e. not yet cracked, kerogen. It should typically decrease with time once the source rock has started to generate hydrocarbons. Exceptions are erosions of source rocks.

Generation Balance: Generated through primary and secondary cracking. The value should be positive inside source rocks and negative (or zero) outside. This is because nothing is generated outside the source rock primarily, but there can be losses due to secondary cracking (Cracked by Secondary Cracking plus Generated by Secondary Cracking).

Accumulated in Source: The amount of hydrocarbons accumulated either in the free pore space or adsorbed on the kerogen. When you expand the category on the table you will see either the oil and gas amounts or the liquid, vapor and water (hydrocarbons dissolved in water) amounts, depending on whether the Oil/Gas or Phase option is selected on the **Options** pane. These values should always be positive in Cumulative mode, but can be negative in Event mode if more hydrocarbons flowed out of the layer/polygon/facies etc. than migrated into it.

Expulsion Balance: By definition this is Generation Balance minus Accumulated in Source. Sounds simple but attention is needed for systems with multiple source rocks. The accumulated hydrocarbons could, for example, have migrated from a lower source rock. In this case the Expulsion Balance would have a negative value.

Accumulated in Reservoir: See Accumulated in Source, but without adsorption.

HC Losses Balance: Everything that was expelled but did not reach the reservoirs, i.e. $\text{Expulsion Balance} = \text{Accumulated in Reservoir} + \text{HC Losses Balance}$. In particular **PetroMod** distinguishes between hydrocarbons that i) migrated out of the sides of the model (Outflow Side), ii) reached the Surface Water Interface (Outflow top), and iii) are stuck in the shales (i.e. all layers which are neither a reservoir nor a source rock (Migration Losses)). The Migration Losses are further divided into Liquid and Vapor or Oil and Gas, depending on which mode is selected in the **Options** pane.

Migration Balance: Inflow minus Outflow of the specific layer or complete model. In the cumulative mode it should be positive for reservoirs and negative for source rocks.

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Note:

- In the table, ">" and "<" indicate that the sum does not include all facies in the current event.

- Mass and volume calculations in 2D models are based on an assumed width of 1km

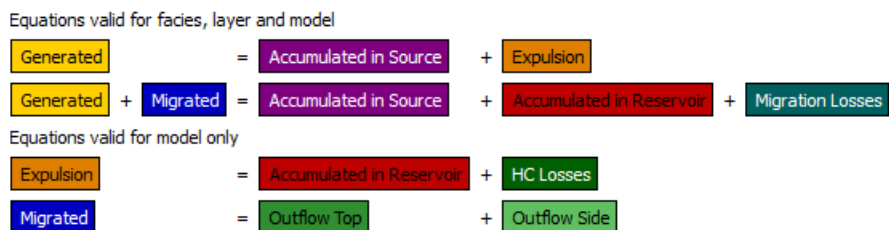
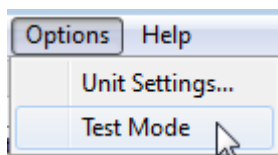


Fig. 3-6 Overview of how the columns are calculated.

Test mode

The values in the Generation Balance, Expulsion Balance, HC losses Balance and Migration Balance columns are calculated according to the equations shown in Fig. 3-6. Use the **Test** mode to check whether the values in these columns have been calculated correctly.

- 1 Before entering test mode, make sure all layers for the current event are ticked in the **Options** pane.
- 2 Now enter test mode. Open the **Options** menu and select **Test Mode**.



- 3 If the values in the Balance columns are correct, nothing will change in **PetroReport**.
If the values in the Balance columns are incorrect, the word “nan” will appear in the respective cells in the **Table** (see Fig. 3-7). This indicates an error in the calculation. Please contact **PetroMod Support** for assistance (see [Appendix: Help and Support Information](#)).

Note: The display of data in the **Components, Events and Source Statistics** panes might also be affected in test mode.

Remaining Potential	Generation Balance	+	Accumulated in Source	+	Expulsion Balance	Accumulated in Reservoir	+	HC Losses Balance	+	Migration Balance
42277.17	998.41		611.65		nan	nan		nan		-230.39

Fig. 3-7 In test mode, columns with incorrect values are shown as “nan”.

- 4 To exit test mode, open the **Options** menu and select **Test Mode** again.

3.3. Viewing Data in the Components and Events Panes

Click a cell in the **Table** to view it in the **Components** and **Events** panes. Click a cell again to deselect it.

The **Components** pane always shows the most recently highlighted cell.

The way data is displayed in the **Events** pane depends on the **Behavior** setting on the **Options** pane. The **Behavior** function contains three settings as shown in Fig. 3-8.

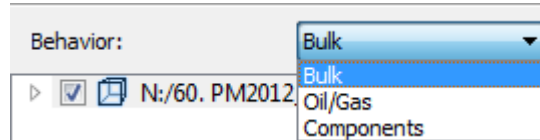


Fig. 3-8 The Behavior settings

- **Bulk:** This is the default option. The **Events** pane shows a curve for each cell selected in the **Table**.
- **Oil/Gas:** In this mode you can only select one cell at time in the **Table**. When you switch to this mode from the Bulk mode, the most recently selected cell remains active. The **Events** pane shows two curves for the active cell: one for the selected oil components and one for the selected gas components.
- **Components:** In this mode you can only select one cell at time in the **Table**. When you switch to this mode from the Bulk mode, the most recently selected cell remains active. The **Events** pane shows a curve for each selected component.

In Fig. 3-9 the **Behavior** is set to Bulk and four cells are highlighted in the **Table**. The **Components** pane shows the most recently highlighted cell (in this case Accumulated in Reservoir) and the **Events** pane shows a curve for each of the cells highlighted in the **Table**.

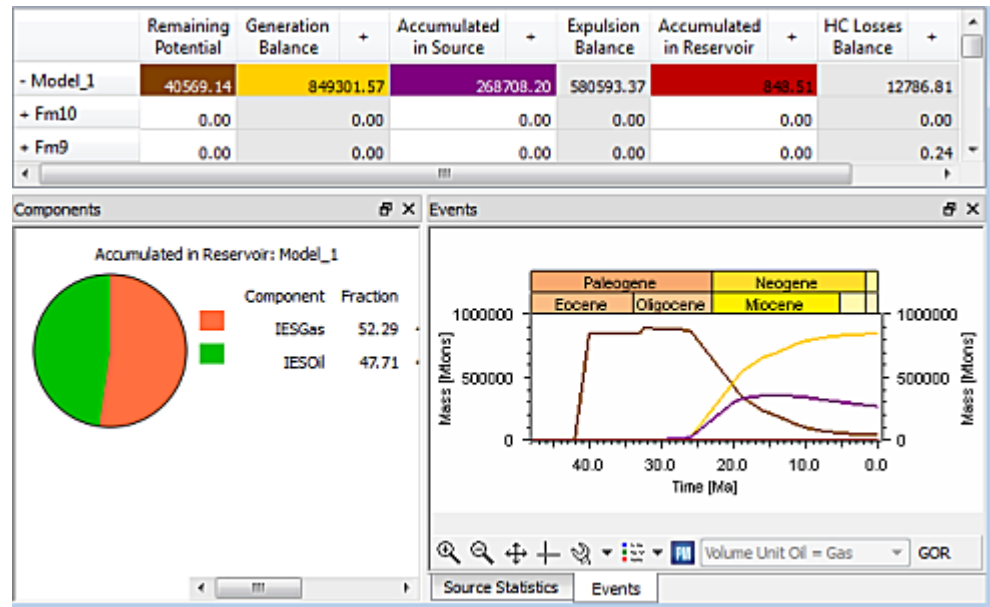


Fig. 3-9 Highlight cells in the table to show them in the Components and Events pane.

More viewing options are located on the **Options** pane. See 3.5. [The Options Pane](#)

View data for multiple models

The **Events** pane can show data for multiple models.

Select a model on the **Options** pane and then highlight the cells in the table. The highlighted cells of each model will be shown in the **Events** pane.

Show gas and oil in different units on the Events pane

It is possible to show the oil and gas curves in different units on the **Events** pane.

- 1 Make sure that **Volume** is selected on the **Options** pane and that the **Behavior** is set to either **Oil/Gas** or **Components**.

Set the **Volume** units. This determines the units in which the components are shown in all panes (see Fig. 3-10).

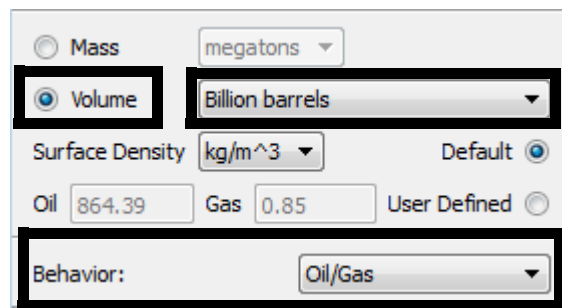


Fig. 3-10 Select the Volume units and the Behavior (Oil/Gas or Components).

- Now change the units in **Events** pane. This determines the units in which the oil components are shown in the **Events** pane (see Fig. 3-11). The gas components continue to be shown in the units selected in Step 1.

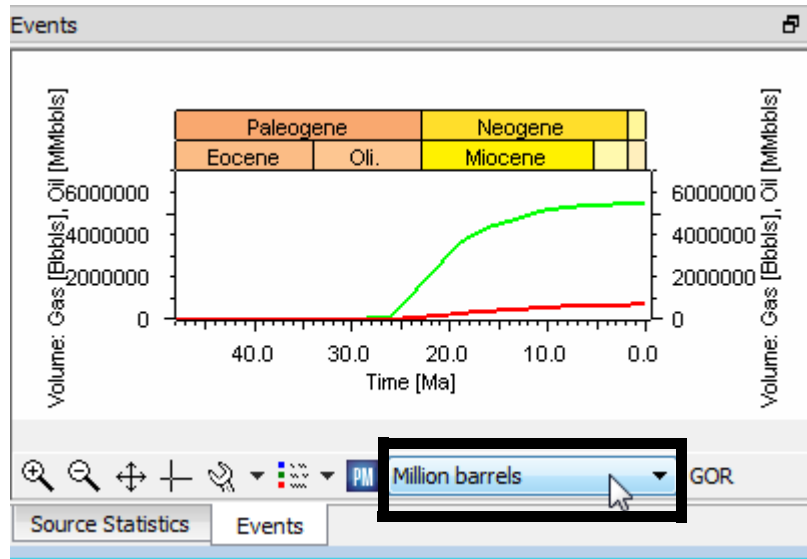


Fig. 3-11 Changing the units in the events pane.

Show the Gas Oil Ratio (GOR) on the Events pane

Click the **GOR** button on the **Events** pane **Toolbar** to show/hide the GOR curve.



Change the colors of the curves in the Events pane.

The colors of the curves in the **Events** pane always match the colors of the cells in the **Table**. To change the color:

- Right-click on the cell in the **Table** and select **Change Cell Color** from the context menu.
- Select a color from the color pallet.

Show/hide the legend

The legend is particularly useful when displaying data from multiple models and/or multiple cells and layers.

Click the **Legend** button on the **Events** pane **Toolbar** to show/hide the legend.



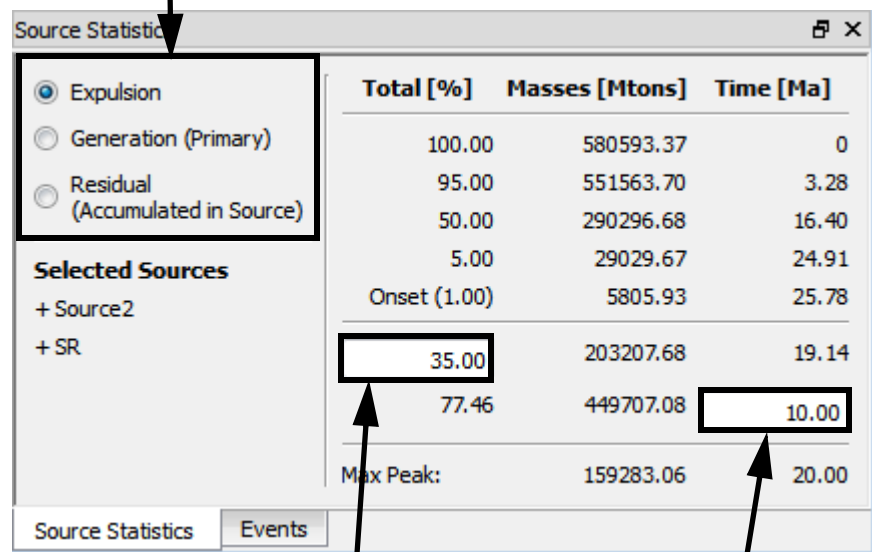
Click the down arrow to open a dialog with options for adjusting the way the legend is displayed.

3.4. Viewing Data in the Source Statistics Pane

Open the **Source Statistics** pane by clicking on the **Source Statistics** tab. The **Source Statistics** pane shows the amount of hydrocarbons that were generated, expelled or accumulated in the selected source rocks at any given paleo time.

Statistics are shown for the source rocks selected in the **Options** pane. Values are summed across all selected source rocks.

Show statistics for either the amount of generated, expelled or residual hydrocarbons.



Enter a percentage total. PetroReport calculates by when x% of hydrocarbons had been generated/expelled

Enter a time [Ma]. PetroReport calculates the amount of hydrocarbons that had been generated/expelled by x [Ma].

Fig. 3-12 The Source Statistics pane.

Note: When the Residual option is selected, only the Max Peak is shown.

3.5. The Options Pane

Use the **Options** pane to adjust the way data is displayed in **PetroReport**. The following subsections explain each of the functions.

Change the event

By default **PetroReport** shows information at present day. Use the **Event** scroll box to change the event.

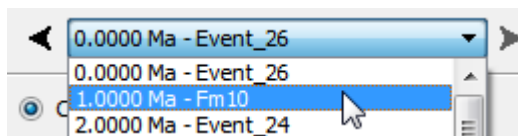
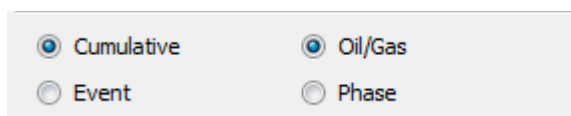


Fig. 3-13 Changing the event

Cumulative or event and oil/gas or phase



Cumulative - view the sum of values for each event up to and including the selected event.

Event - view values for the selected event only.

***Note:** For the Accumulated in Source and Accumulated in Reservoir columns, Cumulative shows the current amount and Event the difference between the amount at the current event and the amount at the previous event.*

Oil/Gas - the Accumulated in Source, Accumulated in Reservoir and Migration Losses columns in the **Table** show amounts for oil and gas.

Accumulated in Source	-	Oil	Gas
	268.71	71.20	192.52

Phase - the Accumulated in Source and Accumulated in Reservoir columns in the **Table** show amounts for liquid, vapor and HC in water

Accumulated in Source	-	Liquid	Vapor	HC in Water
	268.71	66.59	197.14	0.00

Show either mass or volume and change the units

By default **PetroReport** shows the values in masses. Use the **Options** pane to view data in either masses or volumes and to change the units in which the data is displayed (see Fig. 3-14).

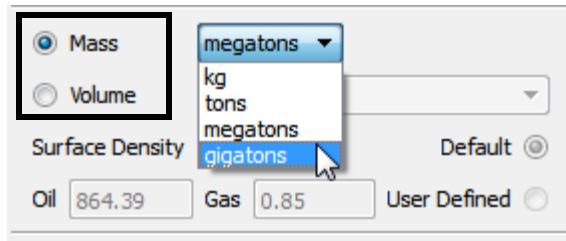


Fig. 3-14 Changing the display units

Volume and Surface Density

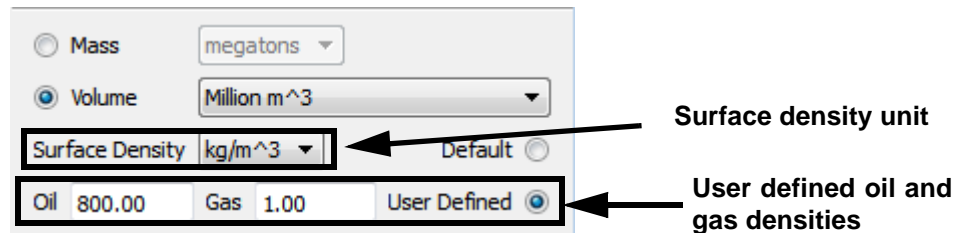


Fig. 3-15 Changing the surface density units and manually defining the oil and gas densities

Surface Density Unit:

When you check the **Volume** radio box, the **Surface Density** field becomes active. Select a surface density unit from the drop down list.

Default or User Defined:

PetroMod always takes the flashed surface densities. By default the oil and gas densities are obtained using a flash calculation with the given amounts of hydrocarbons (i.e. **PetroMod** shows the volumes you would get if you drilled into the specific layer(s) and not the current volumes in the layers (in-situ density)). Check the **Default** radio box to use the default densities. Check the **User Defined** radio box to manually enter densities for oil and gas.

• • • • •

Note: The oil and gas densities shown in the Options pane are used to convert the masses to volumes.

Change the behavior

The **Behavior** function contains three items as shown in Fig. 3-16. These items change the way data is displayed in the **Events** pane.

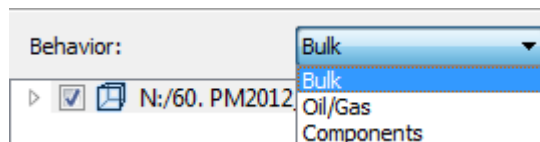


Fig. 3-16 The Behavior options

- **Bulk**: This is the default option. The **Events** pane shows a curve for each cell selected in the **Table**.
- **Oil/Gas**: In this mode you can only select one cell at time in the **Table**. When you switch to this mode from the Bulk mode, the most recently selected cell remains active. The **Events** pane shows two curves for the active cell: one for the selected oil components and one for the selected gas components.
- **Components**: In this mode you can only select one cell at time in the **Table**. When you switch to this mode from the Bulk mode, the most recently selected cell remains active. The **Events** pane shows a curve for each selected component.

Show data for selected components

By default, the **Table**, **Event** and **Source Statistics** panes show the sum of values for all components (the **Component** pane always shows each component). To view the sum for an individual set of components, click the component(s) in the **Options** pane. In the example in Fig. 3-17, the **Table** and the **Event** and **Source Statistics** panes will show values for Component_18, _10 and _17 only.

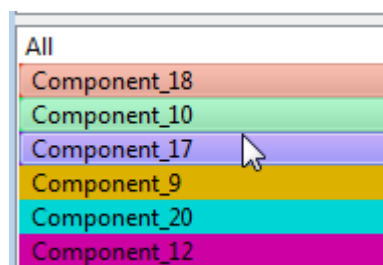


Fig. 3-17 Viewing individual components

3.6. Copy and Paste Data to Other Applications

The data in the **Table**, **Component** pane, **Event** pane and **Source Statistics** pane can be copied and pasted to other applications (e.g. spreadsheets).

Copy the table

- 1 **Right-click** anywhere on the **Table** and select **Copy Table** from the context menu as shown in Fig. 3-18.

Generation Balance	-	Generated by Primary Cracking	Sec
96825.46		89562.55	
0.0			

Fig. 3-18 Copying data.

- 2 Open your target application and paste the data.

Copy data from the Component pane

You can copy both the pie chart and the table from the **Component** pane.

- 1 **Right-click** on the respective item and select either **Copy** or **Copy Table** from the context menu as shown in Fig. 3-19.

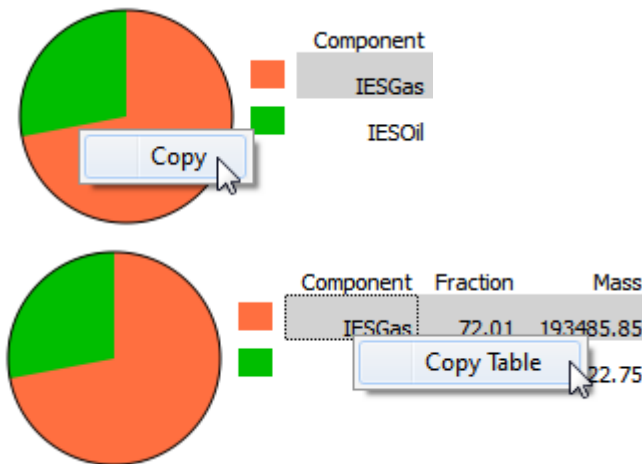


Fig. 3-19 Copying data from the Component pane

- 2 Open your target application and paste the data.

Copy data from the Events pane

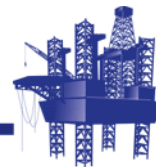
- 1 Right-click anywhere in the **Events** pane and select one of the copy options:
 - **Copy Image to File**: save the plot as an image file.

Copy data from the Source Statistics pane

- **Copy Image to Clipboard:** copy the plot to the clipboard for pasting into other applications
 - **Copy Data to Clipboard:** copy the data represented in the plot to the clipboard
 - **Copy Data to File:** save the data represented in the plot in an ascii file.
-

Copy data from the Source Statistics pane

- 1 Right-click anywhere in the **Source Statistics** pane and select **Copy Table** from the context menu.
- 2 Paste the table into your target application.



Appendix: Unit Settings

The **Unit Settings** are accessed via the **Options** menu on the **Menu bar**:

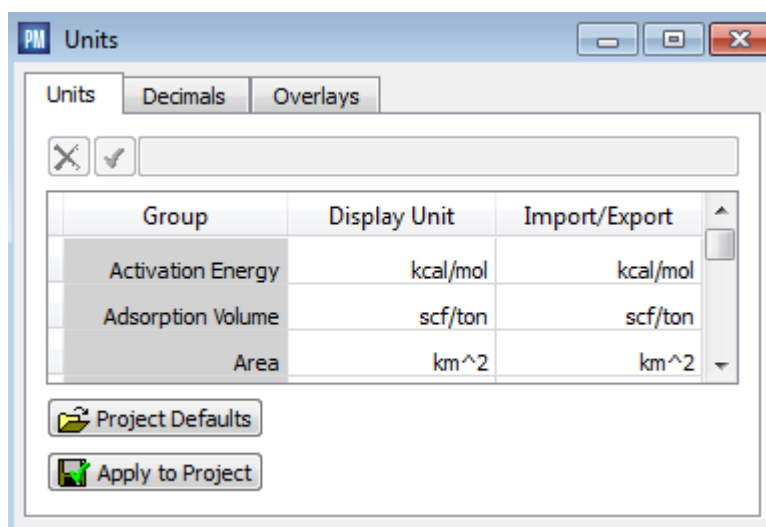
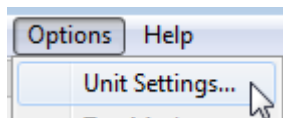


Fig. 4-1 The Units dialog

Display units

The units in which a file/map/overlay etc. is displayed in **PetroMod**. These can be different from the units in which a file has been saved. For example, you can display depth information in feet even though the information is stored in the file in meters.

Import/export units

When you import a file, **PetroMod** assumes the file uses the units defined in the Import/Export column. If the input files use different units, you need to change the units in this column. When you export a file from **PetroMod**, it is exported using the Import/Export units.

Change the units

- 1 Open the **Units** tab
- 2 Double-click in a cell and select a unit from the scroll box (alternatively, right-click and select **Modify Cell(s)...** followed by a unit)

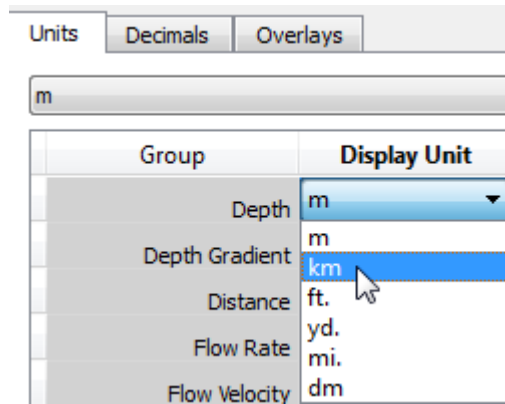


Fig. 4-2 Double-click on a cell to change the unit

• • • • •

Note: Any changes you make apply to the current session only unless you save them. See "Save the changes".

Change the precision of the decimals

- 1 Go to the **Decimals** tab.
- 2 **Double-click** on a cell in the **Precision column** and type in a new value (alternatively, right-click and select **Modify Cell(s)...**)

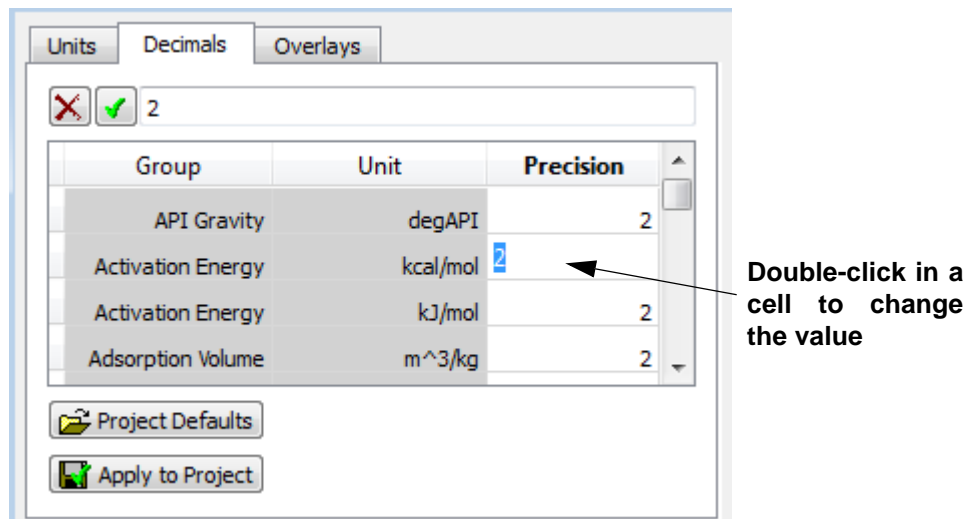


Fig. 4-3 Changing the precision in the Decimals tab

• • • • •

Note: Any changes you make apply to the current session only unless you save them. See "Save the changes".

Change overlay and line object settings

The **Overlays** tab lists all the overlays used by the **Simulator**. The columns contain default settings that determine the appearance of overlays and line objects, e.g. isolines. Use the **Units** dialog to change these default settings.

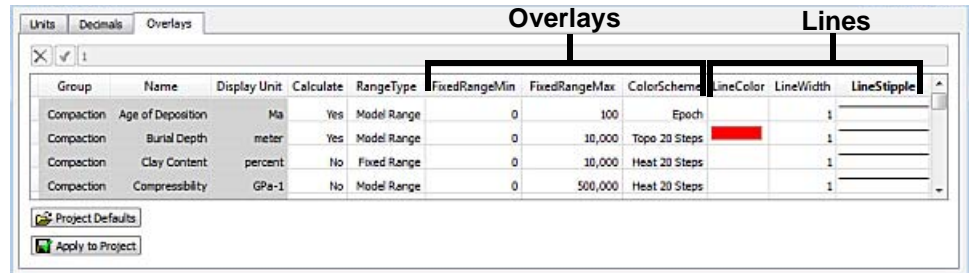


Fig. 4-4 The Overlays tab

- 1 Open the **Overlays** tab
- 2 **Double-click** in a cell. Depending on the column, either type in a new value or select a new value from the scroll box.

Column	Description
Calculate	Tell the simulator to either generate or not generate an overlay. "No" = do not calculate overlay "Yes" = calculate overlay
RangeType	Fixed Range: The color scheme will be applied to the range of values specified in the FixRangeMin and FixRangeMax columns. Model Range: The color scheme will be applied to the range of values found in the model. When this option is active, any values in the FixRangeMin and FixRangeMax columns will be ignored.
FixedRangeMin	The minimum value of a fixed range overlay.
FixedRangeMax	The maximum value of a fixed range overlay.
ColorScheme	The default color scheme for the overlay.
LineColor	This column determines the default color of line objects, e.g. isolines, curves on plots etc.
LineWidth	Adjust the default line width.
LineStipple	Adjust the default line stipple.

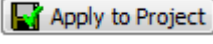
• • • • •

Note: Any changes you make apply to the current session only unless you save them. See "Save the changes".

Save the changes

If you do not save the changes, they will be lost the next time you close the application. There are two ways to save the changes - either apply them project-wide or save them for the current session only.

Apply the changes project-wide

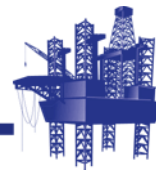
Use the **Apply to Project** button  to apply the changes project-wide.

Apply the changes to the current session only

If you want to keep the changes for future work but do NOT want to apply them project-wide, do **NOT** use the **Apply to Project** button. Instead, save the session via the **Save Session as...** command on the **File Menu**. You can re-load the session later.

Reload the project default settings

 Click the **Project Default** button to reload the project default settings.



Appendix: Help and Support Information

PetroMod is provided by © Schlumberger. The software has been designed by the Schlumberger Aachen Technology Center (AaTC).

PetroMod Support

For general questions concerning PetroMod please follow the standard procedure within the **Customer Care Center** via the Schlumberger Support Portal at <https://support.slb.com>.

Choose **New incident**, then select **PetroMod** as the **Product** and the respective application as the **Product module**.

Additional Help Information

PetroMod provides the following help information:

- The PDFs of the user guide, installation guide, and release notes are included in the installer and can be downloaded on the PetroMod Documentation page of the Schlumberger Support Portal.
- The information dialogs within the process dialogs are opened by clicking or hovering over the question mark button. They provide detailed help concerning the content of that process
- Online help found in the Help menu in the application.

