OpendTect--导入井数据

Li

1.2.4 导入井数据

井数据：

（1）使用井名称和井轨迹定义测井

（2）（可选地）添加如下信息：

- Time-Depth曲线
- Markers
- Logs

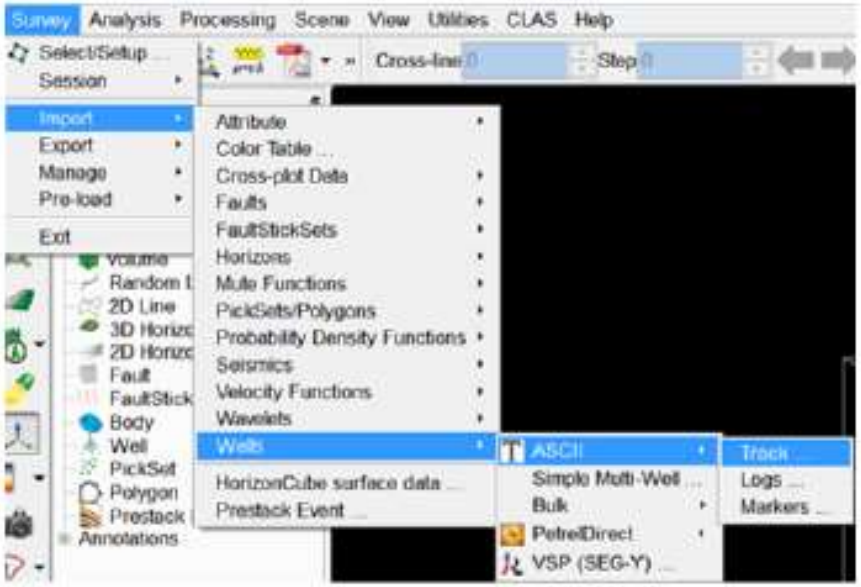
（3）在Well-tie模块（synthetic-to-seismic 匹配模块）中，可以修改Time-Depth曲线（拉升或压缩）。

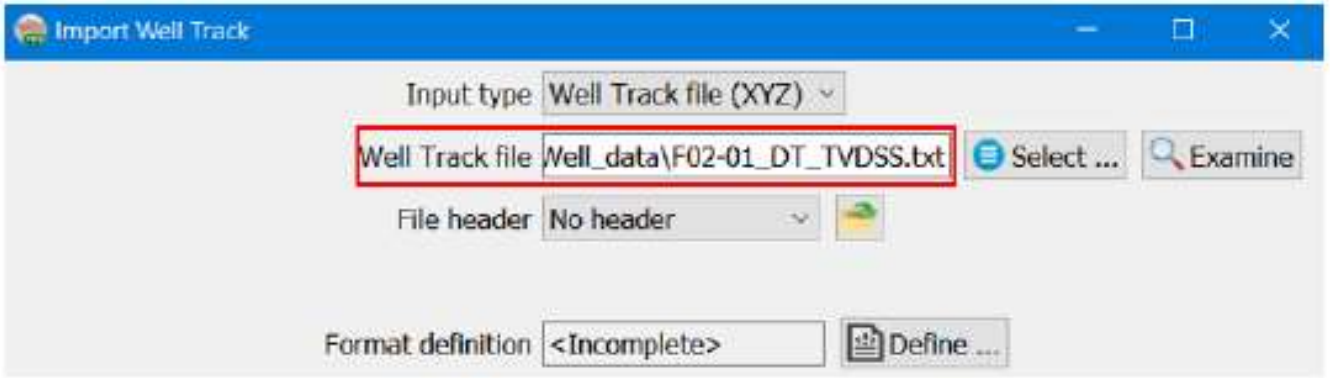
（4）在Well管理中，使用OpendTect的Rockphysics库和math&logic操作，创建新的Logs

练习目标：从ASCII和LAS文件，加载井数据。

Workflow:

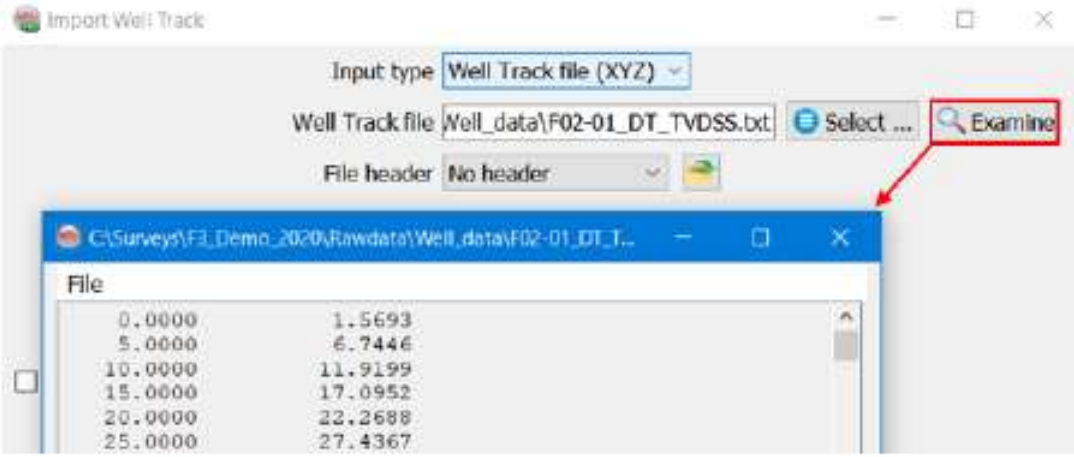
1. First **import** the well track by choosing Survey > Import > Wells > ASCII > Track.
2. **Select** the Well track file: /Rawdata/Well_data/F02-01_welltrack.txt for example.



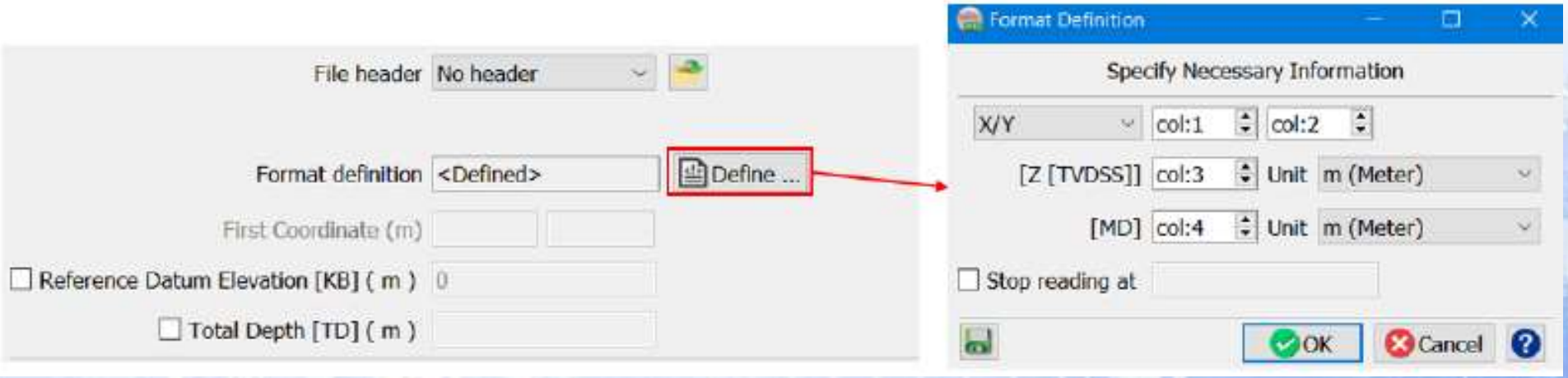


If you select Directional or Vertical Well, you can manually add the well head coordinates.

3. **Click** on the Examine button.



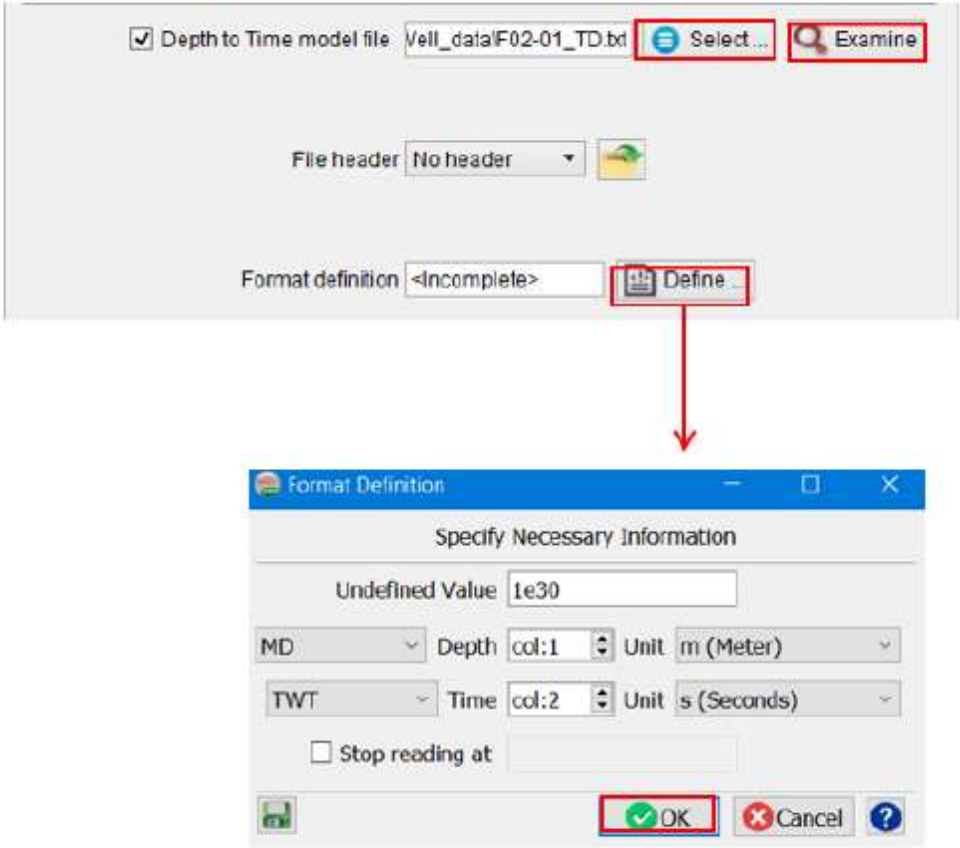
4. **Define** the Format Definition for the well track: col-1: X, col-2: Y, col-3: Z and col-4: MD. The default units are in meters, but can be modified from the drop-down menu.



5. **Select** the Depth to time model file: /Rawdata/Well_data/F02-01_TD.txt.

6. **Examine** the file.

7. **Define** the Format Definition for the Depth to time model; col-1: Depth in m, col-2: TWT in sec.



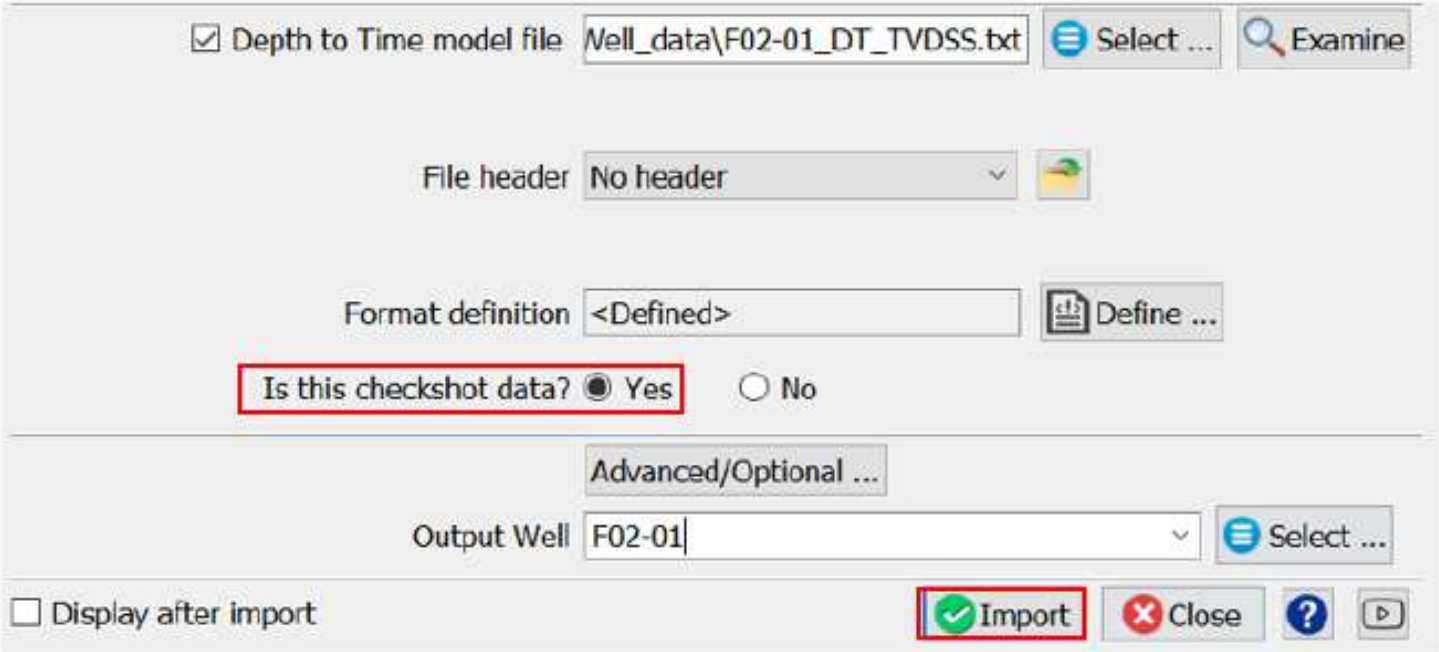
If you uncheck the Depth to Time model file, you will be able to add a constant velocity model for this well.

8. Is this checkshot data? **Tick** yes.

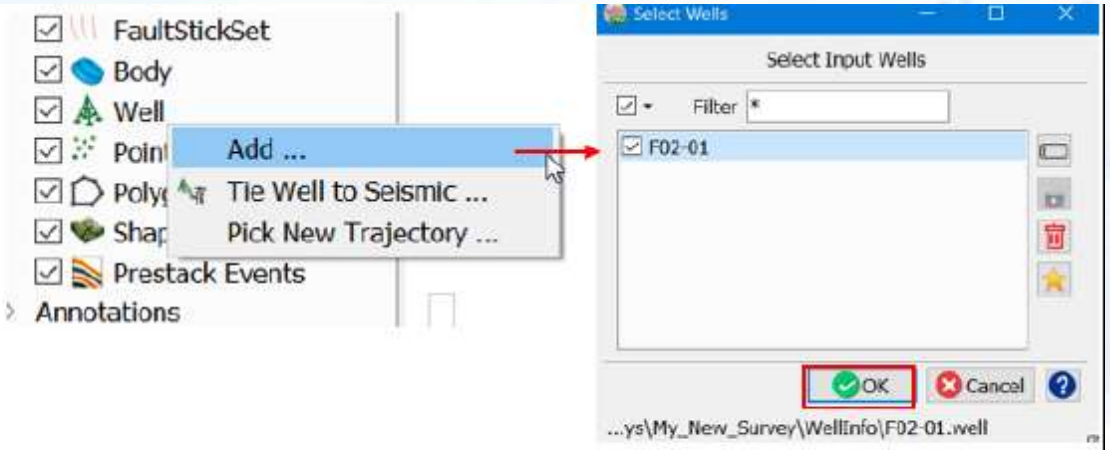
Advanced options are optional

9. **Provide** an output name.

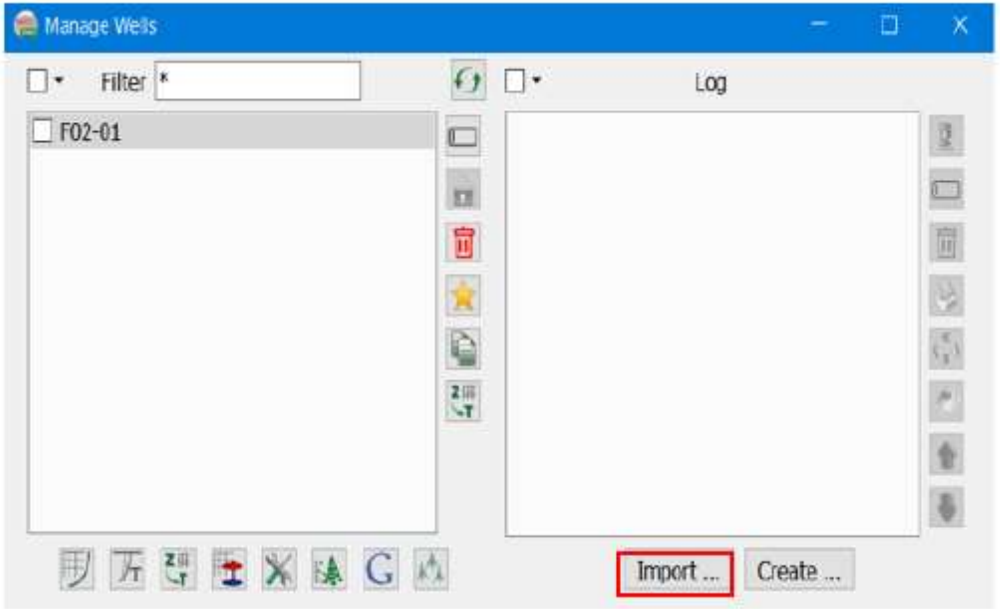
10. Once done, **press** the Import button.



11. Display the well in the survey: **right click** on Well > Load and **select** your well.



12. To import the logs files: **click** on the Manage Well Data icon and **click** on Import. Alternatively, **follow** Survey > Import > Wells > ASCII > Logs.



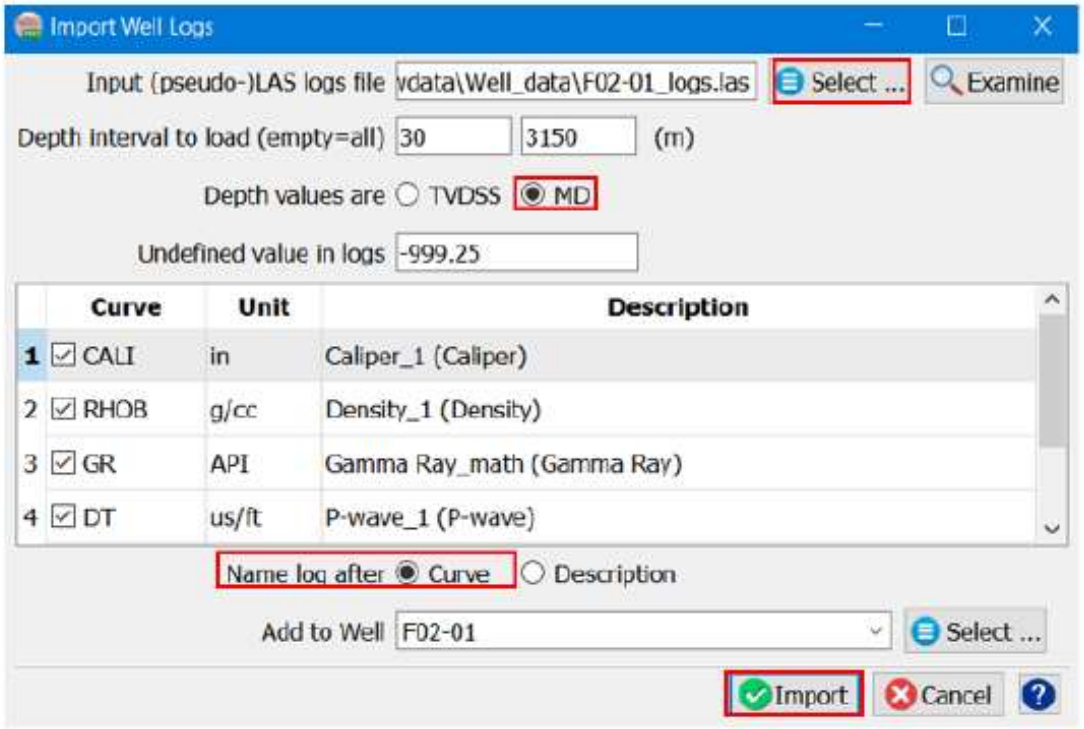
13. **Press** the Import button, then **select** las file: /Rawdata/Well_data/F02-01_logs.las.

14. **Toggle** MD.

15. **Highlight** all logs needed to import

16. **Select** Curve in the name after log

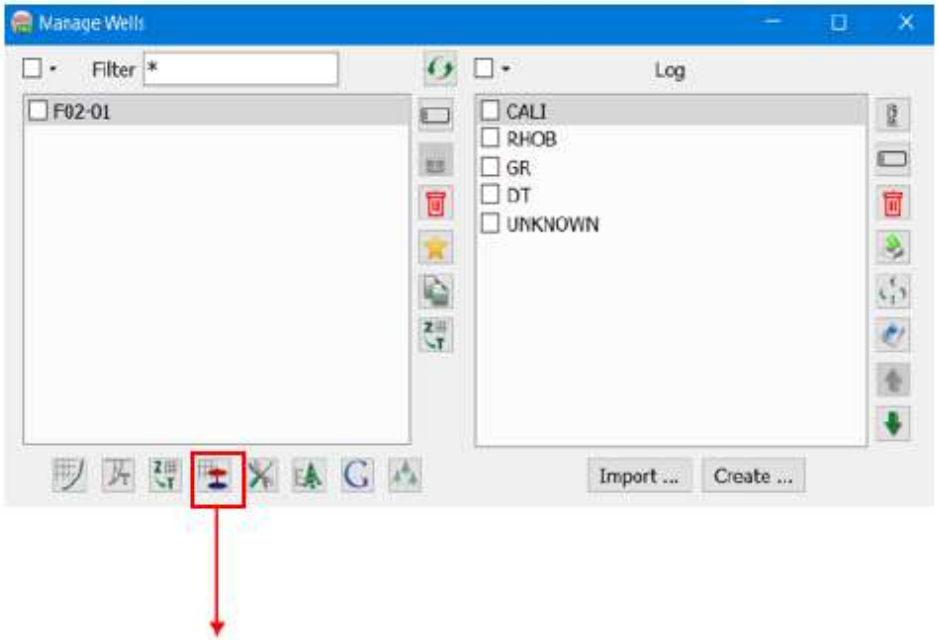
17. **Click** on Import.



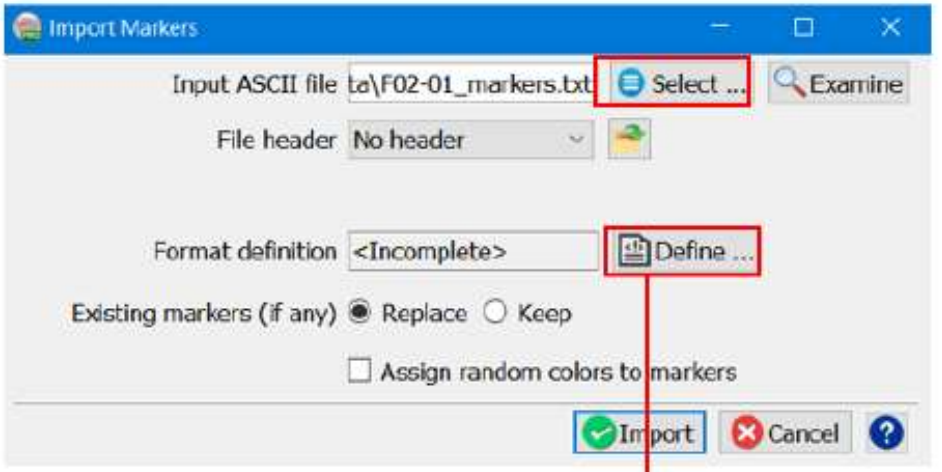
Workflow cont'd:

18. In the well manager, **click** the Edit Markers icon.

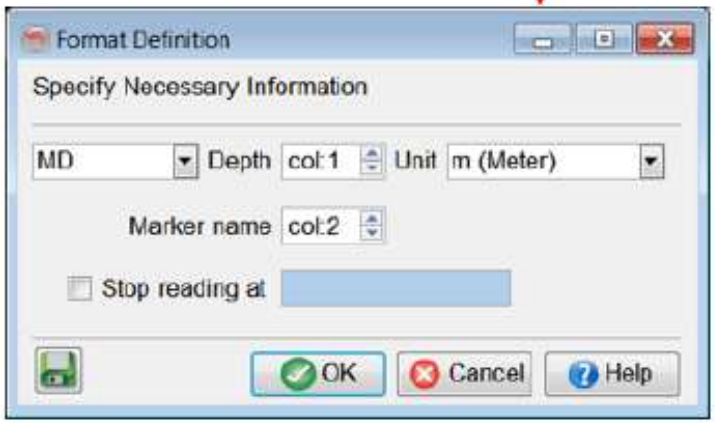
In this exercise, we will **import** markers from an existing file. It is also possible to add markers manually.



19. **Select** the input file: /RawData/ Well _data/F02-01_markers.txt.



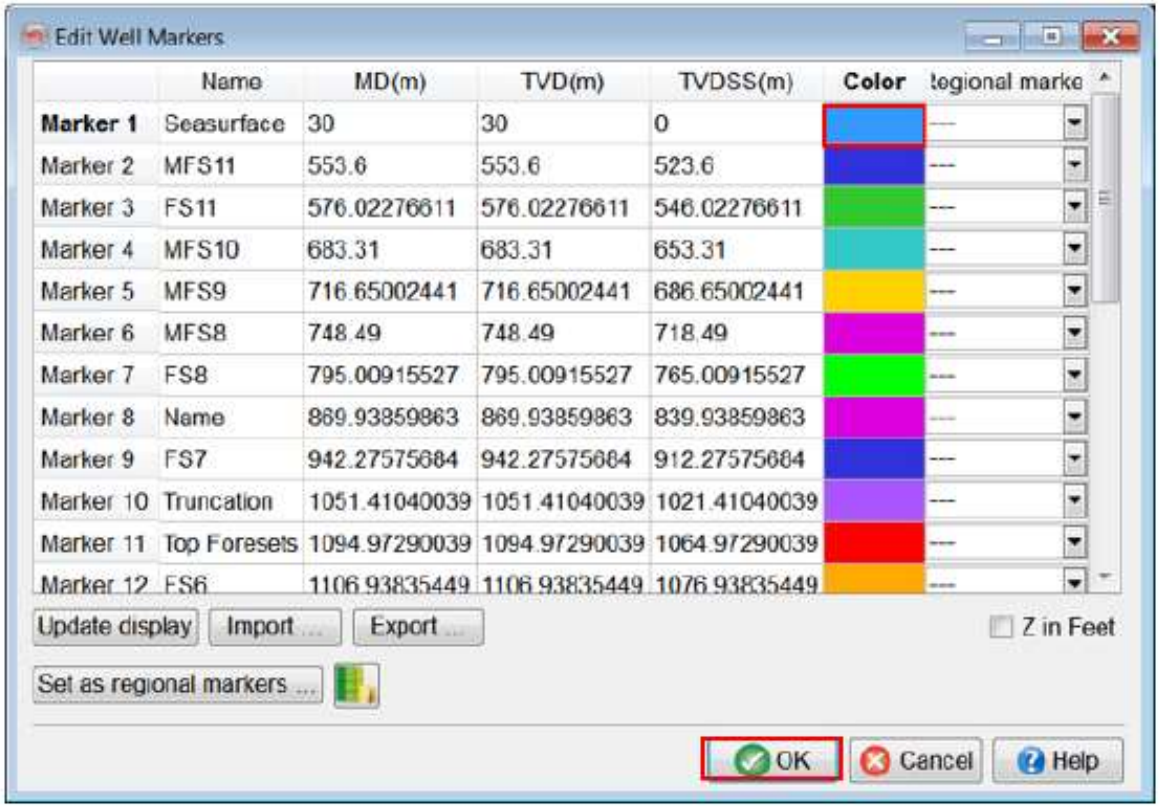
20. **Define** the Format Definition:



21. **Select / Modify** a color for each marker by **double-clicking** on the appropriate row in the Color column.

22. **Press** OK.

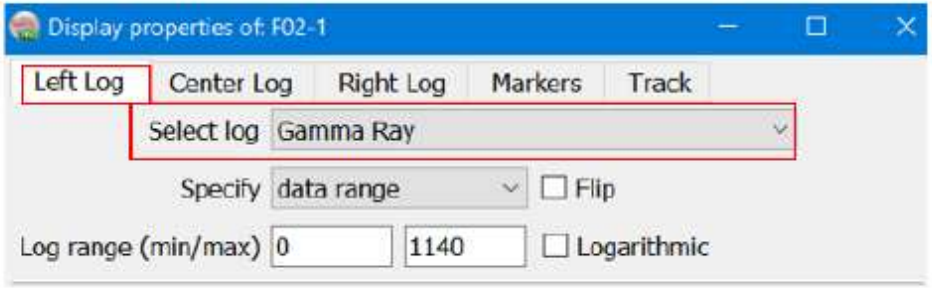
23. Once done, **close** the dialogs and return to OpendTect scene.



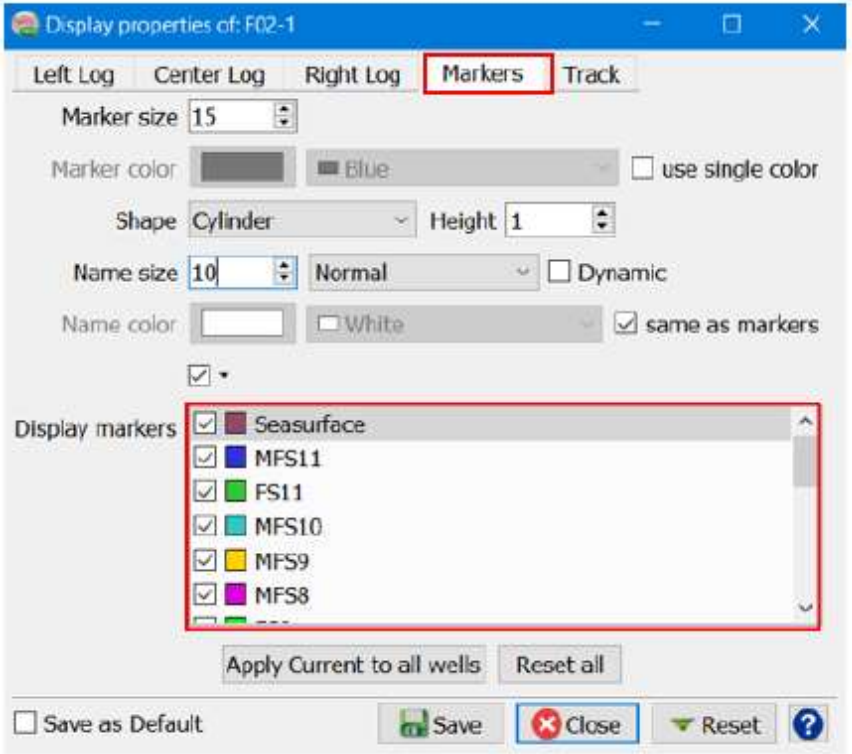
Workflow cont'd:

24. In the scene, **display** the log and/or markers on the well : **right click** on the well in the tree and **follow** Display >Properties.

25. In the left- , center- or right-log tab, **select** the log to display and the properties.



26. **Open** the Markers tab: **toggle** on the desired markers and **set** the marker size etc.



1.2.5 导入多口井

OpendTect中有不同选项可以导入多个测井。

Import -> Wells -> Bulk…