Well Path Design

The Well path design process is a tool which enables users to generate well trajectories based on reservoir properties, seismic attributes or any other data. Well trajectories can be manually digitized in the 3D window. The design points can be displayed in a spreadsheet and can be easily cut and pasted between Petrel and other windows software applications. Reservoir targets defined by the user can be used as input to the Well Optimizer. This feature will, given a set of reservoir targets and a cost model, find well trajectories and platform locations that minimize the total cost of the project.

Wells designed in Petrel are automatically placed under the Wells folder in the Input pane in a sub-folder called ‘Proposed wells’.

How to digitizing new well:

1. In the Processes pane, open Well engineering and select Well path design. This will open the Well path design dialog.
2. Click on any type of data displayed in the active window, for example we will active Top Tarbert Surface.
3. Press Add new points in the function bar to start a new well.

Fig.30.2: New well in the 3D window with Top Tarbert surface.

Fig.30.3: New well in the 3D window without Top Tarbert surface.