

Using a core depth reference curve within TerraStation.

Up until now (v7.85) the depth information for core analysis data and core images was treated separately, and stored on each of the auxiliary files handling these data types.

From v7.86 onwards, it is now possible to have a CORE DEPTH REFERENCE curve. This curve is called CDEP and if you use this feature it is stored in the well file as a regular curve.

If this CDEP curve exists, and you have told the core data (.COR) file information and/or the core image data file (.CID) file that you wish to tie the core information to this curve, then when you perform core data shifts, the core image data is also shifted.

To make the core images use the CDEP curve, in **IMAGELog** on the **Track Configuration** panel for the **Core Image track**, scroll the table across to the right hand side of the data. There is a column called BASIS. The number in this column should be set to a 1 to use the CDEP curve. You can set the entire column to 1 by highlighting the column entries using the left click and drag method. Next right-click and choose the **Set to ...** option from the menu. Enter a 1 in the small dialog box that appears and press the Accept button (or hit the Enter key)

When adding new images interactively, there is a check box titled **Use Core Depth Curve**. Check this box to have the image use the CDEP curve.

Core Analysis data in the .COR file also has a BASIS column. You can access this file from the **Well Properties – Scout Ticket Files** tab. Use the same technique as described to set the BASIS entry. Set it to a 1 to use the CDEP curve, set it to zero to use the core depth values within this file.

The purpose of doing this is so that if or when you perform depth shifts on the core analysis data, then anything referenced to this CDEP curve will also shift automatically. In this way you do not have to perform the shifts twice, and shifting core images to match the core data values becomes much easier.

How it works – the top and bottom depths stored on each image when the image is first entered are used to look up the appropriate depth value from the CDEP curve. The image is then displayed at the measured depth equivalent of the values from the CDEP curve that correspond to the top and bottom values for that image.

Note: It is entirely possible for the user to create such an MD referenced CDEP curve outside of TerraStation and load it into the well using the Well Import function. Then assuming this input curve is called CDEP, and the BASIS values in the CID and COR file are set to 1, then your core data and images will be core depth referenced.

Note: In the .COR file. If you are using the CDEP curve as the reference, then the RECORDED TOP and TOP DEPTH fields should have the same value. The same applies to the RECORDED BOTTOM and BOTTOM DEPTH values. Otherwise you could end up making double shifts.