DrillNet Quickstart

Setting Up Height and Datum Data

1. To set up ***Height and Datum Data*** record in ***Well Data***, first click the ***Well Data*** menu tab and select ***Well Data*** from the drop down list of menu options.

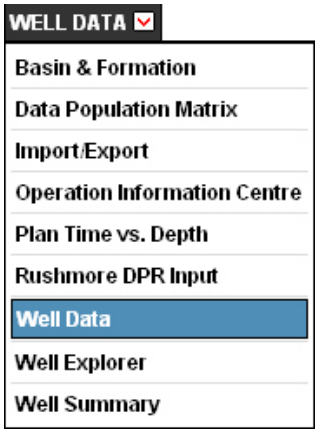

Figure 1.0 Accessing the Well Data menu

2. By default, the ***Well Data*** page is showing the ***View Mode***. To switch to ***Edit Mode***, locate and click the '***Change***' link as shown in Figure 1.1 below.

Figure 1.1 View Mode

3. The ***View Mode*** is now in ***Edit Mode*** (refer Figure 1.2). Do take note that in the ***Edit Mode***, the ***Current Datum*** is a non-editable field to show the earliest point or height of the ***Well Operation***. The ***BRT*** label refers to "***Below Rotary Table***" - a point of measurement used.

Figure 1.2 Edit Mode

4. In the following example, the ***Datum Data*** below (Figure 1.3) shows ***Mean Sea Level (MSL)***. This change is based on the ***Current Datum*** in use. Click the '***Change***' link displayed next to the label to ***Add*** a new datum or ***Edit*** the ***Current Datum in use***.

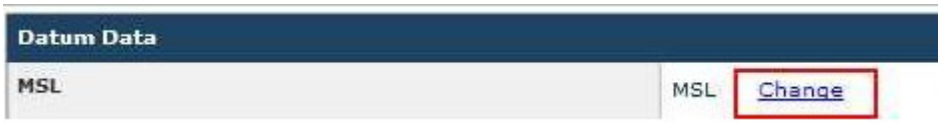

Figure 1.3 Datum Data

5. The ***Set Height and Datum*** drop down list will be displayed in a pop-up window (Figure 1.4) . Select from the available options or if there is no record available, use the ***'+' Button*** to ***Add*** **a New *Datum*.**

Figure 1.4 Set Height and Datum drop down list

6. By clicking ***'+' Button***, the pop-up window expands to display the page to set up ***Height and Datum*** (Figure 1.5)

7. Taking Figure 1.5 as an example, a ***Depth*** of ***27 m*** is entered and ***RT*** is selected as the ***Height*** from the drop down list. Other options available are ***RKB (Rotary Kelly Bushing)*** and ***DF (Drill Floor)***, as shown below.

   Note:
   By changing the height value option to ***DF***, ***RKB*** or ***RT***, the height value will adjust all relative depths for the selected ***Well***.

Figure 1.5 Expanded View of the Set Height and Datum pop-up window. The Height option selected is RT.

Figure 1.6 Extended View of the Set Height and Datum. The Height option selected is RKB.

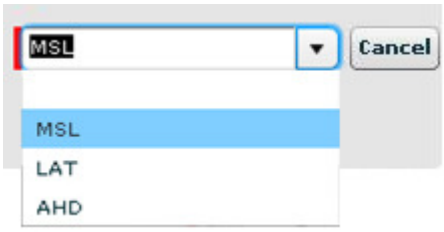

Figure 1.7 The Datum field.

8. Figure 1.7 shows the available ***Datum*** values. The options are:

    a. MSL ***Mean Sea Level***

    b. LAT ***Lowest Astronomical Tide***

    c. AHD ***Australian Height Datum***

9. If the Datum value selected is either ***LAT*** or ***AHD***, the screen will automatically expands; displaying an additional field called the ***Offset MSL*** (Figure 1.8)

Figure 1.8 The Offset MSL field

10. If a ***Level*** is above ***MSL*** e.g. ***LAT***, a ***Positive*** value can be entered. In the example above (Figure 1.8), a positive value of ***0.09m above MSL***. Otherwise, if a ***Level is below MSL***, enter a ***Negative*** value.

> **Tips:**
>
> ***IDS DataNet2*** uses ***MSL*** as the default reference point (***Datum***). Hence, when a different ***Datum*** is used, the ***Offset MSL*** value is required in order for the ***Height*** and ***Depth*** values to be accurately displayed. The ***Offset MSL*** value can be explained as the difference between the default ***Datum*** (in this case, ***MSL***) and another ***Datum*** other than ***MSL***.
>
> (1) IF the ***Datum*** value selected is not ***MSL***, it is important to specify the ***Offset MSL*** value.
>
> (2) For example, if the **Datum** value selected is **LAT**, the ***Offset MSL*** value entered would be calculated as the difference between ***MSL*** and ***LAT*** level.

11. To save the record, click the ***Confirm*** button.
12. To go back to the ***Set Height and Datum*** pop-up window (Figure 1.4), click the ***grey Cancel*** button located next to the drop down list.
13. To go back to the main ***Well Data*** page, click the main ***Cancel*** button.

Fields Affected by Changing Datum data

1. In general, all depth-related fields will be affected whenever the Datum data is changed. These include:-

    a. ***Activity screens*** — ***Depth field***

    b. ***Daily screens*** — ***MD, TVD, Lst csg Shoe(MD), Last csg Shoe(TVD)***

    c. ***BHA screen*** — ***Depth In, Depth Out***

d.	***BOP Screen***	***Elevation***
e.	***Formation Top Screen***	***Top (MD), Top (TVD)***
f.	***Casing screen***	***-***
g.	***Survey Screen***	***MD& TVD***