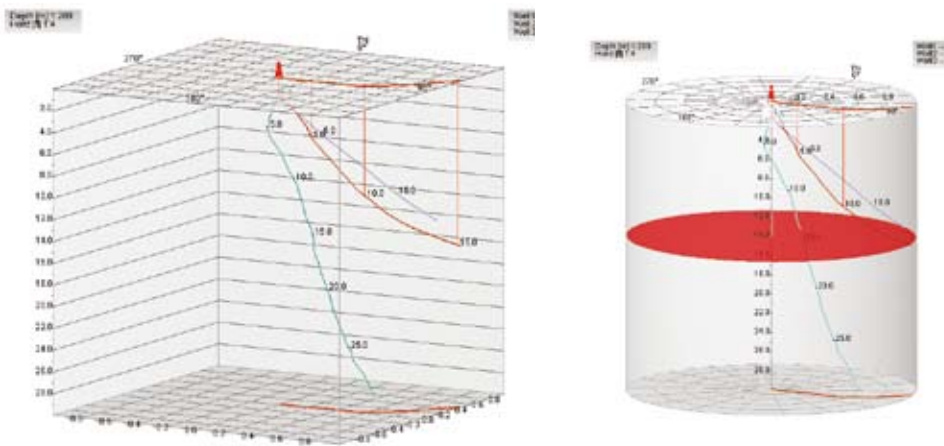


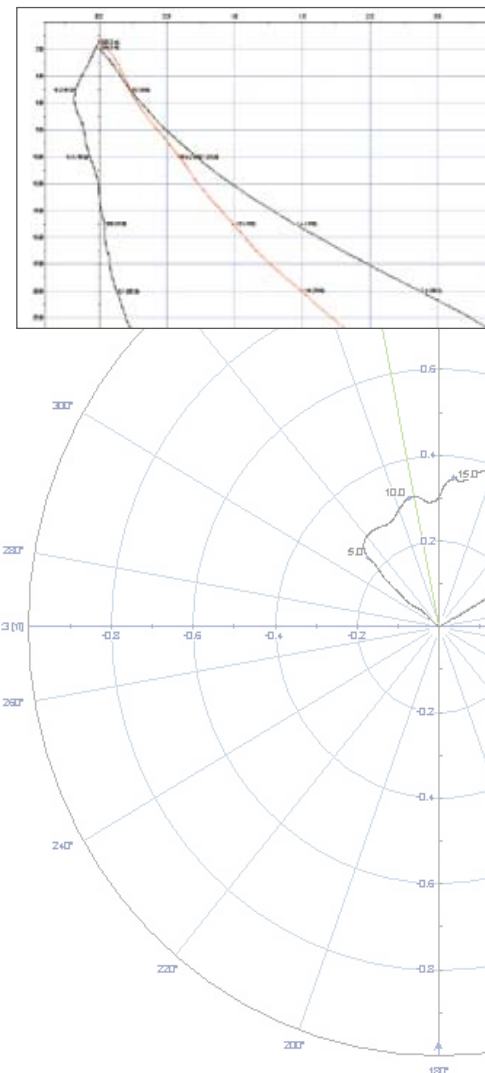
Deviation data display

The module includes various 2D and 3D display options for deviation data from classical bull's eye, projection and closure 2D views to 3D cubic and cylindrical displays. Each view comes with its own settings and options. Multiple well paths and target layers can be displayed.



The methods for computing x,y,z coordinates from borehole azimuth and tilt are provided in the WellCAD basic process (classic tangential, balance tangential, radius of curvature).

The figure shows two software dialog boxes. The 'Borehole Deviation Coordinates' dialog box has sections for 'Deviation channels' (Azimuth [Az(M)] and Tilt [Incl']), 'North, Easting, TVD' (Units: meters), 'TVD' (Start at: Top depth of source log or depth [m] 0.0), and 'Method' (Classic Tangential, Balanced Tangential, Radius Of Curvature). It also includes 'Azimuth correction' (Magnetic declination [deg] 12) and 'Estimation of uncertainty' (Calculate error ellipses, Accuracy Azimuth [deg] 0.1, Accuracy Tilt [deg] 0.1). The 'Borehole Deviation Details' dialog box has 'Input channels' (Azimuth [Az(M)], Tilt [Incl']), 'North' (North), and 'Easting' (Easting). It includes a 'This function calculates:' section with a list of calculations: Closure Distance (Drift) in units of North and Easting, Closure Angle (Shift direction) in deg (clockwise from North), and Dog Leg Severity in deg/100 ft or deg/30 m depending on depth unit.



The specifications are not contractual and are subject to modification without notice.