

Potent v4.11.06 release notes

July 2010

(Changes subsequent to Potent v4.11.04.)

Enhancements

Axis annotation decimal places not set appropriately for small scale surveys

Usually Potent did not include any decimal places on annotations of distance axes on Plan and Profile windows. This worked OK for mineral exploration scale surveys, but was not sufficiently fine grained for very small surveys such as are used in UXO work. The problem could be worked around by setting the decimals explicitly for each window, but this could be tedious.

As of this release Potent adds one decimal place to default distance axes annotations if the maximum extent of X, Y and Z axis is less than 100m.

Bug fixes

Issues with internal field calculation

Potent calculates the magnetic field inside a sphere and an ellipsoid, for each of which analytic expressions are available. Hitherto only the H term was calculated; as of this release the B field is calculated, which includes both H and M terms:

$$\mathbf{B} = \mu_0 \times (\mathbf{H} + \mathbf{M})$$

Note that there was no issue regarding the calculation of the field outside the bodies.

It was not clear from the Help text that Potent calculates a valid internal field only for the Sphere and Ellipsoid body types. The Help text has been modified to clarify this.

Crash when deleting subset

When deleting a subset from the **Subset management** dialog box, Potent would crash if the subset had an associated down-hole window.

Fixed.