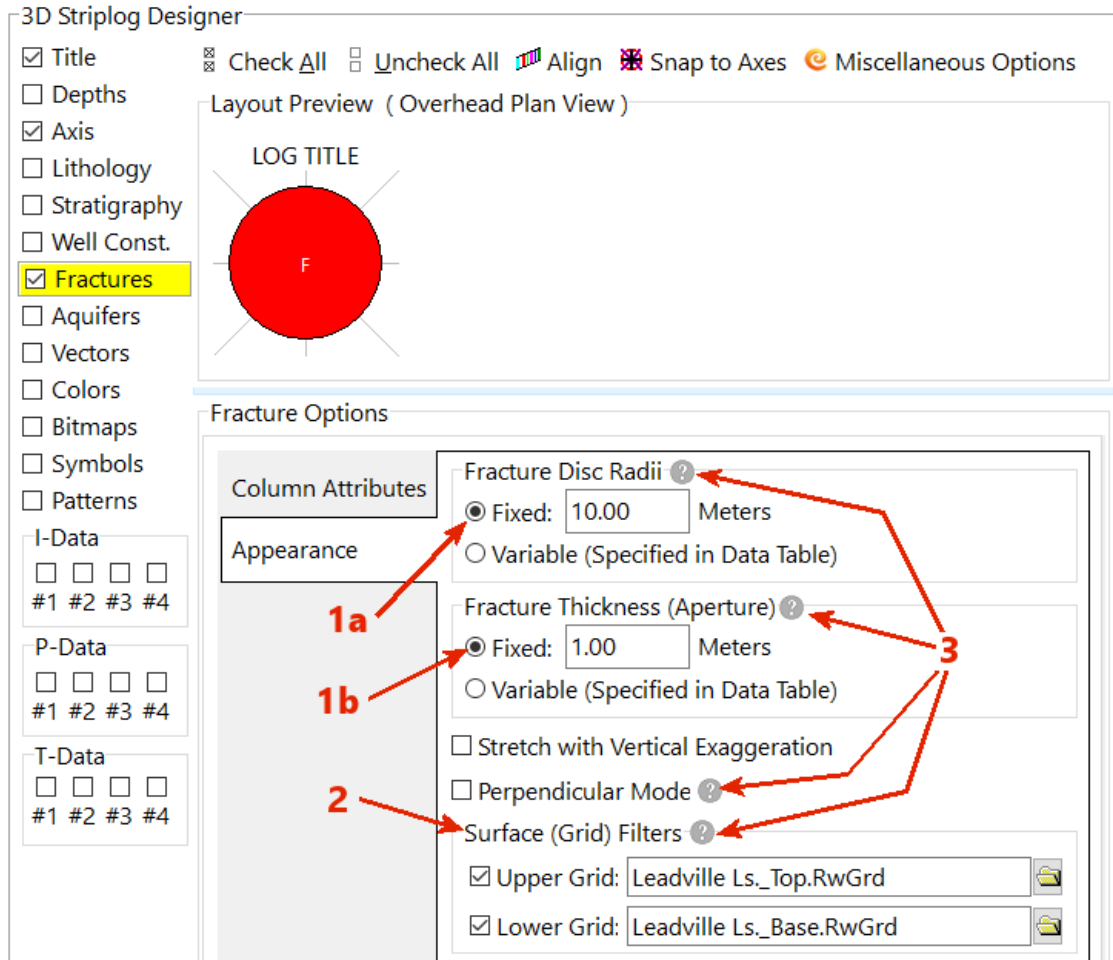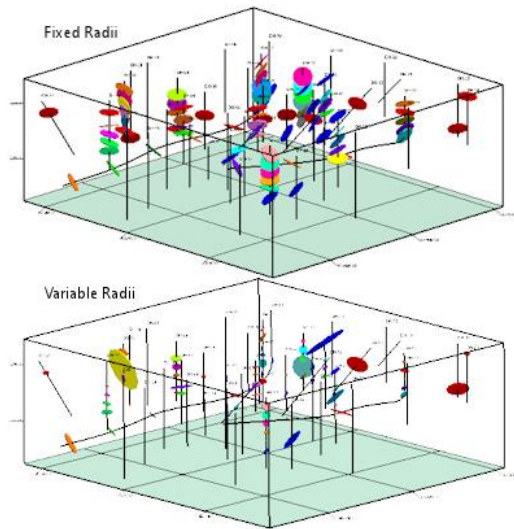# Plotting Fractures Within 3D Striplogs
## 2/6/22

RW/02/06/22/JPR – New:  The *Fractures* option within the 3D Striplog Designer has been re-designed and enhanced as follows;



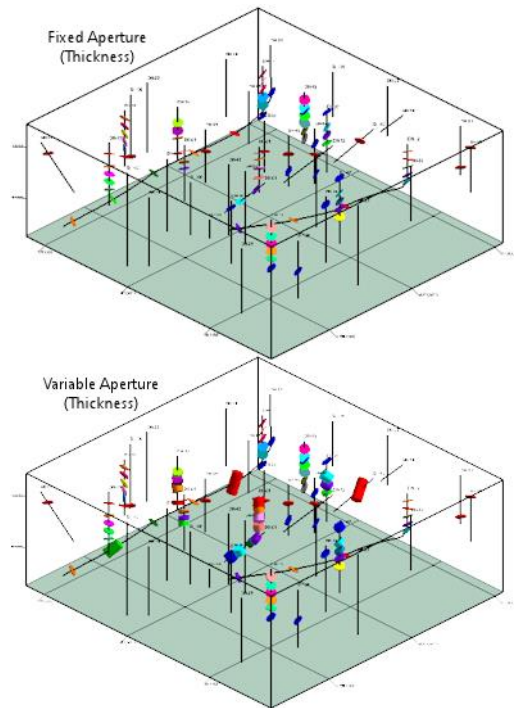1. The *Dimensions* option has been replaced with separate controls for the fracture radii and apertures. Specifically;
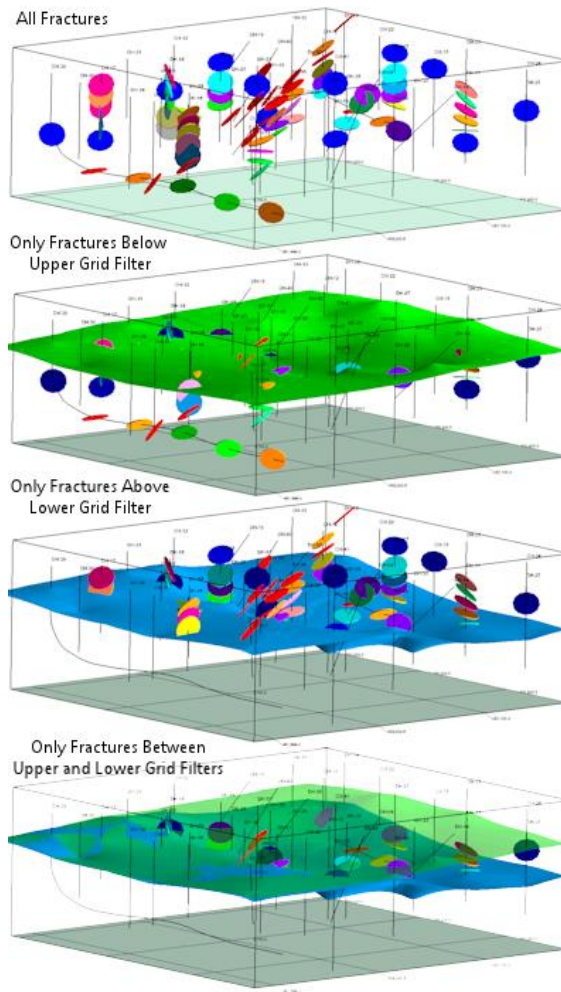
   a. If the *Fixed Radii* option is selected, all of the fracture radii will be set to the specified value.  If the *Variable Radii* option is selected, the radius of each fracture is determined by the value within the Borehole Fracture data table.

Fixed Radii


Variable Radii

b.  If the *Fixed Aperture* option is selected, all of the fracture apertures (thicknesses) will be set to the specified value.  If the *Variable Aperture* option is selected, the aperture of each fracture is determined by the value within the Borehole Fracture data table.


Fixed Aperture
(Thickness)


Variable Aperture
(Thickness)

2.  If selected, the Grid Filters provide a way to view just the fractures above, below, or in-between surface (grid) models.

All Fractures

Only Fractures Below
Upper Grid Filter

Only Fractures Above
Lower Grid Filter

Only Fractures Between
Upper and Lower Grid Filters

3. Small gray buttons have been added to all of the menu items to provide helpful information about the associated menu item.

Fracture Disc Radii ⓘ
- ◉ Fixed: 10.00 Meters
- ○ Variable (Specified in Data Table)

Fracture Thickness (Aperture) ⓘ
- ◉ Fixed: 1.00 Meters
- ○ Variable (Specified in Data Table)

☐ Stretch with Vertical Exaggeration
☐ Perpendicular Mode ⓘ

Surface (Grid) Filters ⓘ
- ☑ Upper Grid: Leadville Ls._Top.RwGrd
- ☑ Lower Grid: Leadville Ls._Base.RwGrd

⊟ Hide This Information

**Fracture Radii**

If the *Fixed Radii* option is selected, all of the fracture radii will be set to the specified value. If the *Variable Radii* option is selected, the radius of each fracture is determined by the value within the Borehole Fracture data table.

Fixed Radii



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Fracture Disc Radii ⓘ
- ◉ Fixed: 10.00 Meters
- ○ Variable (Specified in Data Table)

Click here for more information about this specific item.

Fracture Thickness (Aperture) ⓘ
- ◉ Fixed: 1.00 Meters
- ○ Variable (Specified in Data Table)

☐ Stretch with Vertical Exaggeration
☐ Perpendicular Mode ⓘ

Surface (Grid) Filters ⓘ
- ☑ Upper Grid: Leadville Ls._Top.RwGrd
- ☑ Lower Grid: Leadville Ls._Base.RwGrd

⊟ Hide This Information

**Fracture Aperture**

If the *Fixed Aperture* option is selected, all of the fracture apertures (thicknesses) will be set to the specified value. If the *Variable Aperture* option is selected, the aperture of each fracture is determined by the value within the Borehole Fracture data table.

Fixed Aperture (Thickness)



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Fracture Disc Radii ⓘ
- ◉ Fixed: 10.00 Meters
- ○ Variable (Specified in Data Table)

Fracture Thickness (Aperture) ⓘ
- ◉ Fixed: 1.00 Meters
- ○ Variable (Specified in Data Table)

☐ Stretch with Vertical Exaggeration
☐ Perpendicular Mode ⓘ

Surface (Grid) Filters ⓘ
- ☑ Upper Grid: Leadville Ls._Top.RwGrd
- ☑ Lower Grid: Leadville Ls._Base.RwGrd

⊟ Hide This Information

surveys in which the fracture radius represents the distance to an object (e.g., pilings) and the aperture represents the height of the object.

BH-01    BH-02    BH-03

Fractures



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Fracture Disc Radii ⓘ
- ◉ Fixed: 10.00 Meters
- ○ Variable (Specified in Data Table)

Fracture Thickness (Aperture) ⓘ
- ◉ Fixed: 1.00 Meters
- ○ Variable (Specified in Data Table)

☐ Stretch with Vertical Exaggeration
☐ Perpendicular Mode ⓘ

Surface (Grid) Filters ⓘ
- ☑ Upper Grid: Leadville Ls._Top.RwGrd
- ☑ Lower Grid: Leadville Ls._Base.RwGrd

⊟ Hide This Information

**Grid Filters**

The Grid Filters provide a way to view just the fractures above, below, or in-between surface (grid) models.

All Fractures



Only Fractures Below Upper Grid Filter