

# Suppress Line Segment Expression (property)

(Column Entity and Entity)

## Applicability (Entity/Page Type - dialog tab):

Column - Plot vs Depth - data representation

Plot vs Depth - data representation

## Description:

This is another property to suppress portions of lines connecting points in Plot vs Depth entities.

The other property is **Suppress lines when data greater than**.

An example will help clarify its usage:

Let's say you are taking both Split-spoon and Shelby Tube samples in a hole and are drawing a plot of N-Value versus Depth. You don't want to connect the N-Value points where there is a Shelby Tube, or any sample that doesn't have an N-Value, between two Split-spoon samples. As a further complication, you are recording the auger runs between the samples as samples and it's okay to connect two N-Values when there is an auger segment between the Split-spoon samples. To distinguish between real samples and just advancement segments, you have a sample number field and that is only given a value for real samples.

An example set of data:

Depth	Bottom	Type	Number	N-Value
5	6.5	SS	1	10
6.5	10	AU		
10	11.5	SS	2	15
11.5	13	AU		
13	15	ST	3	

15	20	AU		
20	21.5	SS	4	18

In the above, you want a line connecting the 1st two N-Values but not between the 2nd and the 3rd N-Values since there is an intermediate Shelby Tube which doesn't have an N-Value. The following value for the **Suppress Line Segment Expression** property will meet this requirement:

```
Not <<HasData(_
  <<Sql(Select [SAMPLE].[N Value] _
    From [SAMPLE] _
    Where [SAMPLE].[PointID] = '<<SAMPLE.PointID>>' And _
      [SAMPLE].[Depth] = _
        <<PrevDepth(_
          <<SAMPLE.Depth>>,_
          <<SAMPLE.Number>>_
        )>>_
    )>>_
  )>>
```

That is, if there is no data for the N Value field in the record previous to the current record where there is a sample number, then suppress the line segment. Click on the following links for details on the [Sql](#) and [PrevDepth](#) functions.

Two special cases of line segment suppression can be handled by two other properties in the Data Representation tab much simpler than this property:

## Maximum Depth Gap

### Suppress lines when data greater than

Both just require a number. The **Maximum Depth Gap** property says that if the distance between two points is greater than the value given, then suppress the line segment. The **Suppress lines when data greater than** property says to suppress the line segment if the current and previous values are above the value specified in the property. Both these properties could be eliminated and represented as expressions in the **Suppress Line Segment Expression** property. The two simpler properties should meet most users' needs. The **Suppress Line Segment Expression** property is only needed for more complex requirements.

Parent topic: [gINT Help Home Page](#)