

Borehole Volume

Program Setup:

From Warrior Utilities select 'Edit Logging Tool Details'. From the Edit Tool drop down box select 'STD' Tool. From the Serial Number drop down box select the serial number of the STD tool.

The screenshot shows the 'Tools Editor' window with the following fields and values:

- Edit Tool:** STD
- Language:** English (selected), Metric
- Serial Number:** 0000
- Model:** None
- Software:** STD
- Model Specific:**
 - Description:** (empty)
 - Length:** 0.00 in
 - Weight:** 0.00 lb
 - Voltage:** (empty) V
 - Current:** (empty) mA
 - Cal Report:** (empty)
 - Diameter:** 0.00 in
 - Diagram:** (empty)
- Software Specific:**

Sensor	Offset (in)	Filter	Type	Length (ft)

Model

Serial Number

NoCaliperAverage = Yes

Calipers = XCAL, YCAL, XYCAL, DCAL, CAL

YCalipers =

VolumeTicks = No

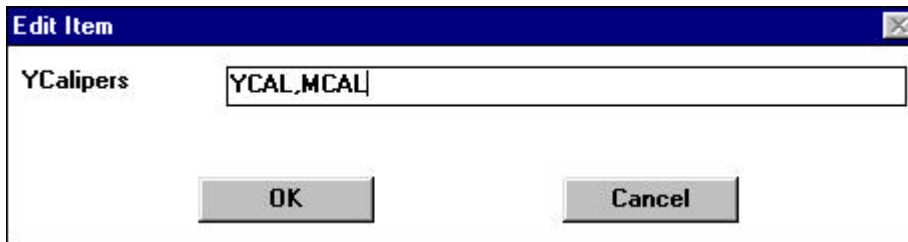
MarkWindow =

Double click on the 'Calipers=' line. Enter a list of any output names, from all of your different services, that should be used as main ('X') caliper inputs into the borehole volume calculation. Separate multiple names by commas.

The screenshot shows the 'Edit Item' dialog box with the following content:

- Calipers:** CAL, XCAL, XYCAL, DCAL
- Buttons:** OK, Cancel

Repeat for the YCalipers line. Y calipers measure perpendicularly to X calipers and allow a better calculation with an elliptical hole.



The 'Edit Item' dialog box has a blue title bar with the text 'Edit Item' and a close button. The main area is white. On the left, the label 'YCalipers' is in bold. To its right is a text input field containing the text 'YCAL,MCAL'. At the bottom, there are two buttons: 'OK' and 'Cancel'.

If any service has more than one X or more than one Y caliper then those readings will be averaged unless the NoCaliperAverage flag is set to Yes.

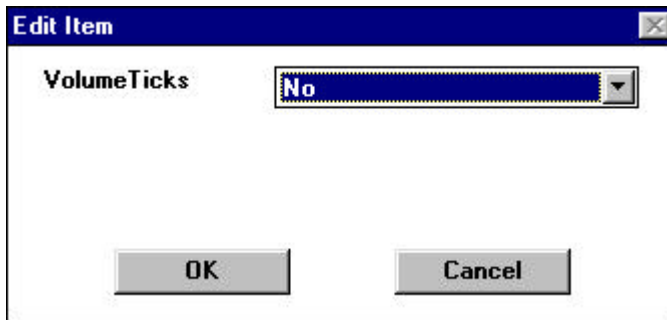
Double click on the 'VolumeTicks =' Line.

Select 'YES' if you want volume ticks displayed instead of a tabular output.

Each small tick equals 10 cubic feet or 1 cubic meter. Each large tick equals 10 small ticks.

Select 'NO' if you want a tabular output for volume.

You can get either ticks or tabular volume, not both.



The 'Edit Item' dialog box has a blue title bar with the text 'Edit Item' and a close button. The main area is white. On the left, the label 'VolumeTicks' is in bold. To its right is a dropdown menu with 'No' selected. At the bottom, there are two buttons: 'OK' and 'Cancel'.

From Acquisition 'Edit Variables' the 'BOREID' size and 'CASEOD' size must be entered correctly for a valid calculation of borehole volume.

A total borehole volume curve 'TBHV' must be added to the Log format as follows:

Define Data Item

Data Source
DB Item: << Browse
☐ Variable ☒ Data ☐ List

Position
Track #: Left value: Right value:

Presentation Type
☐ Curve ☐ Variable Density ☐ Pattern Strip
☒ Tabular ☐ Signature ☐ Graphic Strip

Style
☐ Left ☒ Middle ☐ Right
☒ Auto ☐ .00 Interval:
☐ None ☐ .000
☐ .0 ☐ .0000

Scale Type:
Label:

OK
Cancel

An annular bore hole volume curve 'ABHV' needs to be added to the log format as follows:

Define Data Item

Data Source
DB Item: << Browse
☐ Variable ☒ Data ☐ List

Position
Track #: Left value: Right value:

Presentation Type
☐ Curve ☐ Variable Density ☐ Pattern Strip
☒ Tabular ☐ Signature ☐ Graphic Strip

Style
☐ Left ☒ Middle ☐ Right
☒ Auto ☐ .00 Interval:
☐ None ☐ .000
☐ .0 ☐ .0000

Scale Type:
Label:

OK
Cancel