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Technical Notes on 16D BOP Accumulator Sizing and Performance Tool Revision 1.14 – 29 May, 2015

Extraneous line about required minimum subsea volume

Assume you make a project with surface and subsea bottles and set the required subsea volume to something other than zero volume. Then you edit that same project to no longer have surface bottles. In Rev 1.13 and earlier the required minimum subsea volume will still appear in the printout even though it is not applicable and the field is no longer visible on the input window. This was fixed in Rev 1.14.

Clarification of Minimum Operating Pressure (Gauge) section of the output

The meaning of the Surface and Subsea columns is not completely clear. Rev 1.14 adds explanatory notes to the output.

Run time error…

For an "other design", if you did not check one or more options on the Options tab, the program gets a run time error. Rev 1.14 gives a helpful message instead.

Confusing behavior with only a shear ram in an API stack

A stack with only a shear ram will use only the operator entered MOP for the stack MOP, not the MOP of the ram. This is actually proper behavior, but may be unexpected. For Rev 1.14 I added a technical note any time a shear ram is excluded from MOP.

Improper pressure in the Performance Table

In an adiabatic discharge for a full API stack where the empty pressure is less than the sea head, P1 would appear in the performance table instead of P3. This is fixed in Rev 1.14.