

## iMAASP

Maximum Allowable Annulus Surface Pressure calculation tool

Wood Group Intetech has applied its experience and deep domain knowledge in the field of Well Integrity Management to provide operators with a user-friendly, optimised and efficient means of calculating and recalculating the Maximum Allowable Annulus Surface Pressure (MAASP).

### What is MAASP?

The Maximum Allowable Annulus Surface Pressure (MAASP) is the greatest pressure that an annulus can contain, as measured at the wellhead, without compromising the integrity of any element of that annulus, including any exposed openhole formations. The MAASP is required for each annulus of the well and should be documented. For operational wells, MAASP needs to be recalculated if there are changes in the following:

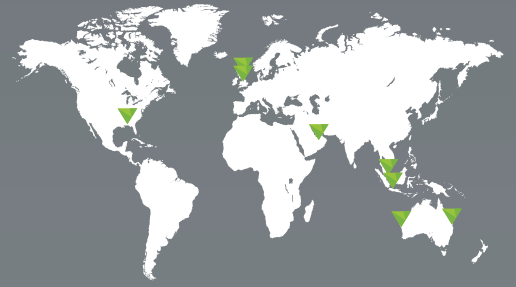
- Well barrier elements acceptance criteria
- Service type
- Annulus fluid density
- Tubing/Casing wall thickness loss
- Reservoir pressures outside the original load case calculation

### What is iMAASP?

Wood Group Intetech has applied its experience and deep domain knowledge in the field of Well Integrity Management to provide operators with a user-friendly, optimised and efficient means of calculating and recalculating the MAASP. iMAASP:

- Is a calculation tool used to analyse the load behaviour of annulus components under complex mechanical, fluid pressure, and thermal loading conditions
- Utilises tri-axial stress analysis which takes into account a wide range of inputs, such as the axial load on tubulars (which impacts their collapse/burst resistance) and temperature de-rating of material properties
- Is based on ISO/TS 16350 Well Integrity – Part 2: Well integrity for the operational phase
- Is used to run MAASP calculations for new wells after drilling and also for aging wells already in operation taking into consideration reduced wall thickness in tubulars as a consequence of wear, corrosion and/or erosion
- Is dynamic as it enables the user to view the impact on the results with any changes made. Once completed, iMAASP displays the component that is most likely to fail first and hence impacts the MAASP value.

## Office Locations



## The Benefits of iMAASP

- ▶ **Units of measurement:**  
Defined/configured as per user preference
- ▶ **Speedy annulus configuration:**  
At the click of a button as opposed to reformatting spreadsheets which are prone to error and time-consuming
- ▶ **Data entry:**  
Clear and simple with a help file to ensure the correct data is filled in
- ▶ **Accessories addition (SSSV, Production Packer etc.):**  
Accessories can quickly be added and deleted
- ▶ **Saving data and history:**  
Data can easily be saved and retrieved for future reference
- ▶ **Fluid density data population:**  
Default fluid density values allow quick calculation of MAASP or they can be overwritten where accurate values are known

Safety margins can then be applied to the theoretical MAASP results as desired to derive operational MAASP to allow for reaction time by the operator technician.

## Wood Group Intetech

Wood Group Intetech has been active within the oil and gas industry for more than 25 years. We are renowned for our practical and user-friendly software packages, ECE, iWIT and iQRA. Our team of engineers deliver effective and reliable materials engineering, corrosion and integrity management throughout the asset lifecycle, from design, construction and commissioning, to operation, change of use and decommissioning.

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info@intetech.com

## Here to Help

Contact info@intetech.com to speak to an expert or to let us know about challenges we can help you with.

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### Aberdeen

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### Stavanger

+47 51 37 25 49

### Houston

+1 281 675 7752

### Abu Dhabi

+971 56 329 1770

### Kuala Lumpur

+60 3 220 30059

### Jakarta

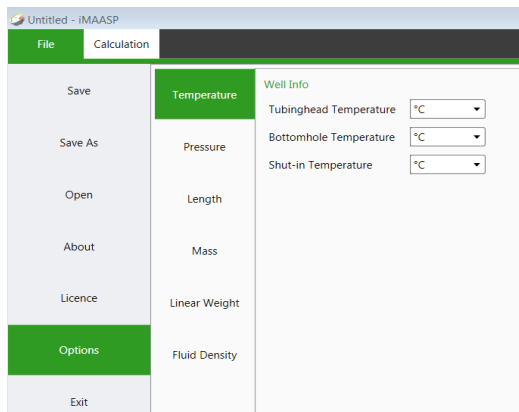
+62 21 8370 2455

### Brisbane

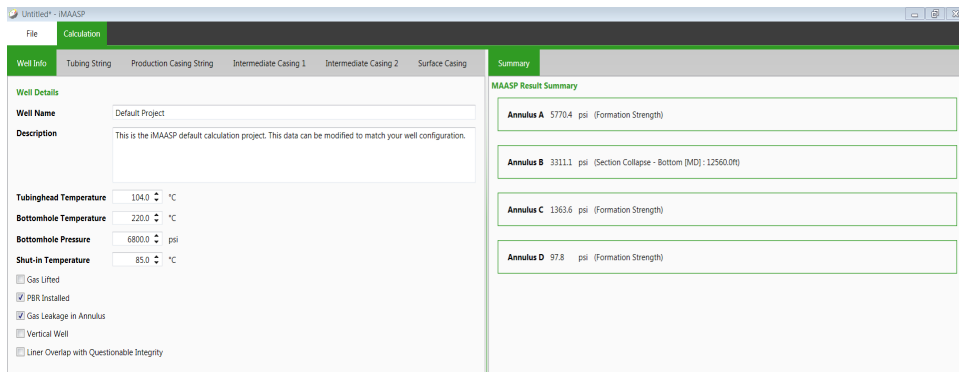
+61 7 32 588 062

### Perth

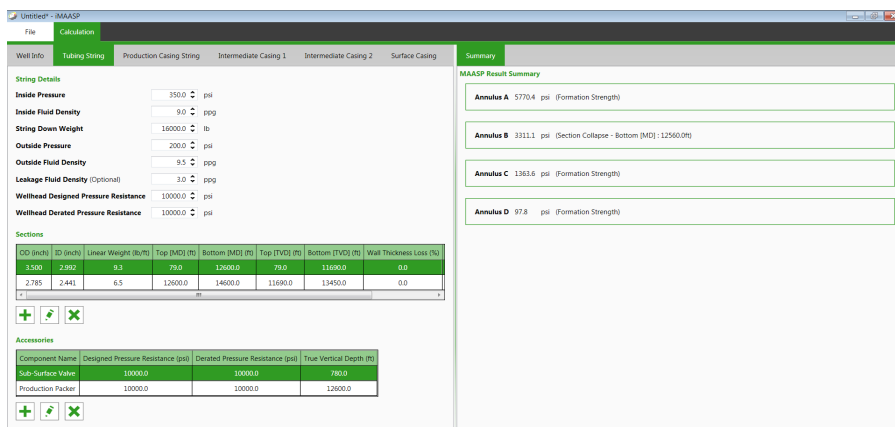
+61 8 6314 2615



## Selecting Units of Measurement



## Tubing String data population



## Production Casing String data population

## Getting the iMAASP License

**Trial version:** This is an opportunity for operators to try out the tool for 7 days before making the decision to buy the license for the professional edition.

**Professional edition:** This is the version required by operators for MAASP calculations. Wood Group Intetech will provide the registration keys required to upgrade to the professional edition. This license is payable annually.

Download a seven day free trial from our website today <http://www.intetech.com/>.

## Adding Value

Our clients value our commitment, industry knowledge and knowhow to get to the heart of their issues. Wood Group Intetech offers:

- Unrivalled domain expertise
- Access to market-leading technology
- A proven track record of delivery
- Global presence, local capability

Contact info@intetech.com today to find out how our Well Integrity consultancy services can support your well integrity operations.