

# HYBRID PLUG

## PRODUCTION & ANNULUS BORE

oilenco **Tredwell**

The Hybrid Plug provides a secure, high performance well isolation barrier, when compared to conventional plugging methods, it offers significant operational advantages and improved integrity assurance. The Hybrid Plug combines the simplicity of a regular blanking plug, but with the integrity assurance of a bridge plug. The Hybrid Plug is available in two version, Annulus Version and Production Bore Version.

For example, during a tree change out, the production bore require the installation of either a blanking plug (set in a nipple profile) or a bridge plug. Either method has distinct advantages and disadvantages. Blanking plugs have the obvious advantage of simplicity, both in terms of deployment and method of sealing (V Packings). The disadvantage of a pressure test from above on a V packing is that it does not prove pressure integrity from below. Alternatively, a bridge plug features an expanding element, therefore a pressure test from above is reasonable assurance of pressure integrity from below. The disadvantage of setting a bridge plug is that they normally require the use of relatively sophisticated setting equipment and skilled personnel.

The Hybrid Plug is set and retrieved on slickline and uses an existing landing nipple profile within the tubing hanger. Using a dedicated mechanical setting tool, the plug is initially locked into the nipple profile.

The Hybrid Plug can also be crossed over to all manner of accessories such as pump open plugs, remotely activated equalising devices to suit different customer requirements.

### Features and Benefits

- As the seals run 'under gauge' this virtually eliminates risk of damaging seals during installation
- Simultaneous seal energisation enables purging of control line
- Can be retrofitted and used with any OEM WRSSSV
- Contains a Dual Isolation Bore Seal System (patented GB2586537)



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