HYBRID PLUG
Production Bore

The Oilenco Hybrid Plug range combines the mechanical simplicity of a Nipple set blanking plug with the integrity assurance of a bridge plug thanks to its innovative seal design.

For example, during a tree change out, the production and annulus bores 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.

To complement the range of annulus bore Hybrid Plugs Oilenco has also developed a range of Hybrid Plugs for the production bore which make use of the same “best of both worlds” approach to design utilised by the smaller annulus plugs. The Oilenco Hybrid Plug is set and retrieved using a dedicated mechanical setting tool, the plug is initially locked into the nipple profile. Additional jarring will then expand the seal elements into the nipple seal bore. Finally, a check-pull confirms the plug is positively set before the setting tool is released. During recovery, the plug is first equalised before the seal elements are de-energised. The locking dogs are then disengaged to allow the plug to be safely recovered to surface.

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