

## Completion Series

### Redundancy Dual Y-Tool - Dual ESP System

The classic RMS pumptools dual ESP system utilising two Y-Tools and two ESP systems, to allow the operator to run two complete ESP systems in one well, to provide a downhole back-up system. Typically both units are identical, but one unit can be sized differently for anticipated later life production.

As both ESPs are offset from the concentric string by both Y-Tools, access to below the ESP for wireline, CT and logging operations is maintained.

An individual cable powers each ESP and either the upper or lower ESP system can be selectively operated, without any well intervention. When failure of the first operating ESP eventually occurs, the ESP is then activated to provide extended operating time between workovers.

#### Application

High workover cost environments such as offshore and remote locations and for where rig access to well for workover may not be immediate (notably subsea locations). Also used where a tailpipe is required below the ESP to engage into a sump packer receptacle (PBR). Ideal for applications where intervention by CT or wireline below the ESP is required.

#### Advantage

RMS pumptools Dual ESP redundancy system will radically improve well profitability by lowering workover costs and by cutting deferment. Initial installation time is minimised.

Intervention to the reservoir for multi-lateral shut-off valves, logging etc, can easily be achieved through the bypass tubing. All systems are worldwide field-proven for ultimate reliability. eliminates the need of drilling a second well.

