System 03: Y-Tool Only Completions

Single ESP With Y-Tool And Pump Support

The Pump Support Sub is an optional component of the Y-tool bypass system. It is primarily used when running dual ESP's or when tailpipe is to be run below the ESP and located into a Polished Bore Receptacle (PBR).

The purpose of the Pump Support Sub is to share any compressive loading between the bypass tubing and the ESP during installation and operation (set down weight), and tensile loading to the bypass tubing upon retrieval of the system.

The pump support also allows the system to be built with the bypass tubing taking all the string weight. The ESP is simply supported by the pump support block ensuring no tensile loading of the string weight is supported by the ESP flangebolts.

UMS Flowell
Performance Under Pressure

PUMP SUPPORT ADVANTAGES

- Allows the installed weight to be suspended on the bypass side eliminating the weaker ESP bolts from seeing any tensile loads
- Shares installed or operating compressive loads through the ESP and bypass tubing as the bypass tubing is normally the limiting factor for compression
- Provides a centre shift between the bypass tubing and tailpipe for easier entry into liner tops

1. Tailpipe Tubing Connection
2. Handling Sub
3. Pump Support Block
4. Spear
5. Handling Sub
6. ESP Gauge
7. Flush Joint Bypass Tubing
8. ESP Motor
9. Bypass Tubing Clamp
10. MLE Cable
11. ESP Seal Protector
12. ESP Pump Intake
13. ESP Pump
14. Discharge Pressure Sub
15. Discharge Head
16. Pump Sub
17. Telescopic Swivel
18. Bypass Nipple & Blanking Plug
19. Y-Tool
20. Top Nipple
21. Handling Sub
22. Production Tubing Connection