

MULTIPLEX TUBING HANGER

ABSTRACT

A subsea wellhead assembly (20) having a tubing hanger (26) set in a tubing hanger (26) spool (22) and a ring (34) with axial passages (46) set in an upper end of the tubing hanger (26). The wellhead assembly (20) includes a production tree (40) that lands on the tubing hanger (26) spool (22). Tubing (32) extends from the axial passages (35) in the ring (34) through axial bores (30) provided in a sidewall of the tubing hanger (26). When landed, a lower end of the production tree (40) engages an upper surface of the ring (34) causing the ring (34) to rotate and align its axial passages (35) with axial passages (46) in the production tree (40). The respective lower and upper surfaces of the tree (40) and ring (34) are strategically castellated to orient the passages (35), (46).

Figure 1