NON-ORIENTATED TUBING HANGER WITH FULL BORE TREE HEAD

ABSTRACT

A subsea wellhead assembly includes a wellhead housing, a production tree, a tubing hanger adapted to land in the wellhead assembly inside the wellhead housing, a bridging element on the tubing hanger in the production tree, a port radially formed through the tubing hanger, a production port radially through the wellhead housing, and a gallery annulus that circumscribes the bridging element lower portion on one end and circumscribes the tubing hanger on its other end. The gallery annulus is in communication with both the production port and the gallery port so that fluid can be produced from the well through the gallery annulus.

Figure : 1