ABSTRACT

DRILL-THROUGH SPOOL BODY SLEEVE ASSEMBLY

[0061] A drill-through spool body sleeve assembly comprises a test sleeve removably installed within a drill-through spool body having a bore with the terminal ends of the outer diameter of the test sleeve sealingly engaging the bore wall. The sleeve assembly also comprises a wear bushing removably installed in the bore between the bore wall and the test sleeve. The test sleeve is of sufficient thickness to pressure test the spool body outlets, ports, and valves before drilling and production. The test sleeve seals the bore from the outside of the spool body during the pressure testing. After the pressure tests are completed, the test sleeve is removed from the spool body, leaving the wear bushing in place. The wear bushing protects the bore wall, outlets, ports, and valves while allowing equipment such as drilling and wellhead equipment to pass through the spool body. After the well is drilled and the casing strings are installed, the wear bushing is removed from the spool body to allow the installation of the production tubing and production hanger within the spool body.